MINING ACTIVITIES IN TURKEY

Etibank İşletmeleri (Etibank Mines):

Etibank have accelerated their work considerably by making use of all the possibilities available, in order to cope with energy needed, resulting from developments taking place in economical and various industrial fields during the past few years.

In order to increase the production of coal at both Zonguldak and the West Lignite (Garp Linyitleri) areas, so as to keep up with the increasing demand for power which is a necessity for the expansion of the industry, Etibank planned to obtain necessary transportation and production equipment for all their plants in the shortest time possible.

I — Ereğli Kömürleri İşletmesi (EKİ)(Ereğli Coal Mines):

Although at the present time there is no final or definite information regarding the coal reserves of the Zonguldak area, visible, possible and probable reserves exceed 1 billion ton. Maximum depth reached by coal mine workings is now between (- 200-500) metres. At Kozlu deeper coal seams are to be mined by sinking new shafts to the depth of (-600) m. In the coal area 50 coal seams ranging in thickness between 0.45 and 8 m. are now established; in some parts even thicker seams than the above mentioned are present. For the purpose of meeting the increasing coal requirements of Turkey, the General Mechanization Project has been prepared by making use of the financial resources of the Country and Marshall Credit; the aim is to increase the production capacity of the Zonguldak area, especially increasing efficiency and safety, also to improve the quality and reduce the cost, the application of the project is now in process. The Mechanization project includes the renewal of the production and transportation machinery, mechanization of mines, construction of New and large construction of port and washeries, loading stations and many other various items. Amongst these,

(1) No. 2 Küçük Mehmet shaft at Kozlu, completed in the year 1951; (2) Port of Zonguldak, at the ont of 1953; (3) Aerial cable line of Kandilli-Armutçuk, October 1953; (4) Incivez shaft between Kozlu and Zonguldak, May 1953. In addition to the above mentioned the following were completed during the year 1954:

- (1) Karadon transformer station,
- (2) Asma transformer station,
- (3) Kozlu power station,
- (4) Construction of pillar and cargo hoist.

electro -

Plants which will be completed during 1955 are listed below.

Months

1.	Chacigiouna cicc	uo		
	mechanization	VII		1955
2.	Çatalağzı Washery			
	(750 tons/hr)		IV	1955
3.	Kozlu Ventilators		IX	1955

1 Underground

Production of (EKI) Ereğli Coal Mines during 1954 (TON)

	į		Raw C	Coal		H	Prepared Coal	le.		0.10	
Months	Kan-		Úzül-				Middling			Coke Pow-	Bri- cket
	dilli	Kozlu	mez	Gelik	Total	Coal	tailing	Total	Coke	der	0-10
January	39 384	113 875	139 909	201 270	494 438	292 165	14 997	307 162	}		999 6
February	36 373	103 465	126 343	179 890	446 071	260 752	14 517	275 269	1	1	6 314
March	50 814	114 472	139 968	194 815	500 069	302 227	22 251	324 478	1	1	9 584
April	47 141	112 960	143 260	197 750	501 111	307 453	20 106	327 559	3 465	105	6 736
May	43 886	96 426	136 090	188 080	464 482	286 463	21 233	307 696	6 269	30	7 692
June	36 142	86 522	128 017	176 220	426 901	255 042	23 170	278 212	6 570	210	10 150
July	47 118	97 247	133 243	197 545	475 153	291 017	24 162	315 179	002-9	İ	8 259
August	48 900	81 332	129 681	187 145	447 058	272 865	17 819	290 684	6 750	l	8 943
September	48 887	82 236	138 387	196 640	466 150	278 739	27 563	306 302	4 751	1	8 587
October	48 198	93 904	140 929	211 520	496 551	292 341	27 563	319 904	3 317	140	4 832
November	45 281	96 176	140 231	208 300	489 988	285 787	27 289	313 076	3 358	200	4 442
December					505 288	293 002	31 604	324 606	5 110	ſ	6 723
Year					5 713 260	3 417 853	272 272	3 690 125	46 570	685	91 928

4. Karadon shaft	XI	1955
5. Kozlu 300 level		
development	VI	1955
6. Coal loading plants	VII	1955
7. Port operation buildings	s IV	1955

Other plants which are included in the mechanization project will be completed during the years of 1956 and 1957.

The most important amongst these are:

Months

•	IVIOIILIIS	,
1. Zonguldak Washery		
(750 tons/hr)	IV	1956
2. Armutluk shaft	IX	1956
3. Zonguldak railway		
connections and bridges	VIII	1956

4. Normal railway wagons		
and locomotives	VIII	1956
5. Port cargo boats	X	1956
6. Rearrangement of		
harbour	VII	1956
7. Kozlu haulage and		
hoisting plants	X	1957
8. Kozlu lamphouse,		
workshop and store	X	1957
9. Çatalağzı shaft	IV	1957

The total of home and foreign investments for all the plants will not exceed 200 million Turkish liras, and the production capacity of the Zonguldak coal area will be 7.000.000 tons yearly after completion of plants which are included in the mechanization project.

Coal put through Washery 1954 (Ton)

Marketed Coal. 1954

Months	Total	Months	Ton	Turkish Lira
January	444 988	January	277 752	7 848 000
February	404 76 0	February	256 352	7 225 445
March	456 780	March	318 39 6	8 931 578
April	458 860	April	315 9 33	9 004 083
May	430 776	May	285 328	8 281 870
June	391 229	June	252 977	7 109 920
July	414 666	July	294 925	8 126 249
August	382 786	August	268 400	7 466 022
September	404 285	September	286 947	7 921 297
October	445 664	October	292 873	8 166 316
November	440 309	November	288 186	8 020 441
December	449 402	December	300 541	8 438 053
Year	5 124 505	Total	3 438 610	96 539 274

Output and labour cost of (EKİ) Ereğli Coal Mines during 1954 Outputs:

			Per under-	Overall output
	Per collier	Per faceman	ground man	per man shift
1954	3160 kg.	1865 kg.	978 kg.	886 kg.

1954 Timber Consumption (for 11 months) = $186 \ 109 \ m^3$ Timber Consumption per ton of coal . = $0.36 \ m^3$ For the whole of the mine during 1954:

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Total number of (shifts x labour employed) = 9 810 423
Total value of (shifts x labour employed) = 47 835 357 T. L.

1954 Labour allowance (for 11 months) = 15 448 916 T.L.

1954 Labour allowance per man shift = 1.57 T.L.

1954 Average daily pay per man shift = 4.87 T.L.

wage per man shift = 6.44 T.L.

(For 11 months = 32.33 T. L.

1,57 T. L. Labour
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allowance

Output of (EKİ) Ereğli Coal Mines

Outputs (*)

Sale of Coke and Bricket

		Under-				C	oke			Bri	c k e	t
Years	Collier	ground woker	Overall	Months	T	on_	T. L	ira	T	on	T. Li	ra
1941	2344	721	626	January			-	_	9	565	356	296
1942	2744	718	618	February			_	_	7	495	279	189 ³
1943	2765	66 8	576	March		_	_	_	9	206	342	923
1944	2832	696	608	April	3	264	170	750	5	518	205	545
1945	2775	698	605	l -		549	332			034	299	
1946	2861	745	636	May								
1947	2875	748	647	June	6	505	330	129	11	545	430	051
1948	2871	787	688	July	6	127	310	945	8	451	314	800
1949	2881	82 2	726	August	6	707	340	380	8	946	333	238
				September	4	752	241	164	8	5 58	318	785
1950	2965	856	756	October	3	435	174	320	4	876	181	631
1951	3160	933	823	November		253	165	099	4			465
1952	3036	977	880	ł ·		291		475	_	358		856
1953	3154	1012	916	December		291		410		900		000
1954	3160	978	886 (for 11 months)	Total Year	45	883	2 333	640	89	994	3 339	045

II — Garp Linyitleri İşletmesi (West Lignite Mines):

Lignite, which is found in most parts of Turkey, is gaining importance daily regarding the national demand for fuel and energy.

Lignite seams which are located in Western Turkey and are operated by (Garp Linyitleri İşletmesi) the West Lignite Mines take a leading place from the point of view of its reserves. The production of (Garp Linyitleri İşletmesi) West Lignite Mines has increased on a very large scale. The lignite production of Turkey increased from 10,000 tons to 158,000 tons between the years 1928 and 1938, production exceeded 1 million tons during 1953. 75-80 % of

(EKI) Ereğli Coal Mines 1941 - 1953 Coal output, sale and cost of labour.

	ర్	Output	(Ton)	2		Marketed	ed Coal	Average	ర	Cost of lazour	(T. Lira)	
	١		Ma	Market-				number				Par
Years	Coal	ا چ	•	able coal	Tonnage(*)	ge (*)	Value T. Lira	of labour	Wages paid	Labour allowance	Total	man shift
1941	3 019 626	626	2 12	2 124 995	1 851	721	17 672 004	21 738	9 422 000	1 333 000	10 755 000	1.65
1942	2 509 614	614	1 81	1 813 743	1 701	629	20 570 582	21 793	12 007 562	3 388 000	15 395 562	2.15
1943	3 162 605	605	2 211	11 905	1 941	547	40 972 650	26 814	15 480 186	11 219 000	26 699 186	2.89
1944	3 554 279	279	2 493	3 034	2 163	995	46 021 193	29 242	19 268 296	11 802 828	31 071 124	3.22
1945	3 718 772	172	2 52	2 524 056	2 233	474	48 182 898	29 605	22 362 122	13 310 819	35 672 941	3.49
1946	3 830 245	245	2 525	25 581	2 372	981	54 365 133	28 183	22 989 695	13 377 000	36 366 695	3.69
1947	3 945	119	2 623	23 315	2 442	664	55 965 197	28 209	27 259 348	14 395 403	41 654 751	4.37
1948	4 021 797	797	2 668	38 985	2 418	058	59 882 543	27 215	28 094 972	14 852 868	42 947 840	4.54
1949	4 181	375	2 70	705 941	2 629	845	70 702 247	27 626	28 592 759	15 770 996	44 363 755	4.68
1950	4 360	298	2 832	32 243	2 650	979	76 170 702	27 061	30 989 403	14 243 245	45 232 648	4.85
1951	4 729 589	289	2 987	37 846	2 711	604	81 417 587	26 389	31 648 041	15 467 113	47 115 154	5.15
1952	4 846	342	3 01	010 312	2 915	847	89 451 865	28 648	35 778 225	18 121 686	53 899 911	5. 24.
1953	5 654 326	326	3 66	3 664 314	3 539	665	101 722 808	31 089	43 080 840	26 077 453	69 158 293	6.96

(*) Coke and bricket included

the yearly lignite production of the Country is provided by (Garp Linvitleri İsletmesi) the West Lignite Mines of Etibank.

Ready to be extracted, visible and possible lignite reserves of Soma, Tuncbilek and the Değirmisaz divisions of (Garp Linyitleri İşletmesi) West Lignite Mines were in the vicinity of 124 million tons during the year 1954.

(Garp Linyitleri İşletmesi) West Lignite Mines were able to operate more effeciently due to the installations of surface plants such as power stations. washeries, aerial cableways, besides the installations of underground plants and mechanization of mines.

For increasing the production proportional to the demand for coal in the Country, plants that were installed after 1950 play an important part.

Soma (İşletmesi) Mine:

I	Months	3
Washery 150 ton/hr	XI	1951
Aerial cableway 6.5 km.		
100 ton/hr	IX	1951
Underground mechanization		
2000 ton/day	XI	1951
Surface mechanization		
2000 ton/day	XI	1951
Power plant extension		
2x1000 Kw.	V	1953

and cost

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Değirmisaz (İşletmesi) Mine:

	Month	IS
Mechanization 1000 ton/day	IX	1952
Aerial cableway 10 ton/hr	IV	1953
Tunçbilek - Değirmisaz		
power transmission line		
33 kw - 38 km.	VIII	1953
Washery 1500 ton/day	IX	1953

Tunçbilek (İşletmesi) Mine:

Power plant extension		
2x1000 kw.	VI	1953
Conveyor belt and under-		
ground hopper 300 ton/hr	XI	1953
Washery 4000 ton/day	VI	1954
Underground Mechanization		
2000 ton/day	VI	1954
Surface Mechanization		
2000 ton/day	VI	1954

These plants were installed with the investment of 90 million Turkish liras (T. L.)

(Garp Linyitleri İşletmesi) West Lignite Mines 1954 Output (For 11 Months)

Raw Lignite:			
Collier per shift	5	959	kg.
Underground (per man shift) Surface and Underground	1	800	kg.
(per man shift)	1	640	kg.
Overall (Per man shift)	1	673	kg.

Cost of Lignite on Market - Total sale realization (Fob wagon)

Total		
Sale realization	Total	
1954 (T.L.)	cost	
9 163 549	6 522 468	for 11 months
8 006 153	5 923 332	,, 11 ,,
7 930 042	6 034 071	,, 11 ,,
25 099 744	18 479 871	for 11 months

Soma Tunçbilek Değirmisaz Total for 1954 year

West Lignite Mines. (Garp Linyitleri İşletmeleri) 1954 Output.

		R	aw (Coal (Outp	ut (7	Fon)					Pu	it int	o wa	sher	y				N	farke	t - a	ble ou	ıtput	(ton)	
Months	So	ma		ınç- ilek		ğir- isaz	··-	То	tal	s	oma		ung- bilek		eğir- isaz		To	tal	s	oma		unç- lek		eğir- nisaz		'otal
January	49	680	38	056	29	15 5		116	891	48	56 5	41	167	29	155	1	18	887	33	303	28	830	17	086	79	9 219
February	46	250	27	025	31	189	:	104	454	46	651	30	615	31	189	1	.08	455	32	10 3	21	659	18	223	7	1 985
March	54	75 0	34	627	39	831	:	129	208	53	009	35	816	39	831	1	.28	656	36	609	25	67 3	23	408	89	5 69 0
April	46	020	36	148	34	699	:	116	867	47	095	36	22 1	34	699	1	18	015	32	457	25	167	20	693	78	3 317
Мау	56	370	35	54 4	43	604	;	135	518	55	860	30	509	43	604	1	29	973	38	617	24	944	25	448	89	9 009
June	51	45 0	50	058	41	916		143	424	51	1.08	37	167	41	916	1	30	191	34	844	36	72 3	24	746	90	6 313
July	55	700	61	422	40	587		157	709	55	11 2	49	510	40	587	1	45	209	37	210	41	16 8	24	189	10	2 567
August	50	550	53	919	33	556	-	138	025	50	729	44	709	35	56 5	1	28	994	34	144	3 8	470	19	499	9:	2 113
September	57	000	65	500	40	226	-	16 2	726	56	051	44	193	40	226	1	40	470	39	329	38	454	23	713	10	1 496
October	54	575	56	53 8	43	035	:	154	148	55	147	54	895	43	035	1	53	077	37	857	36	820	25	164	9:	9 841
Novem b er	52	800	56	500	35	45 2	נ	144	7 52	52	017	55	971	35	452	1	43	440	37	349	36	521	21	348	9	5 218
December	45	800	55	806	51	594	1	153	200	25	046	69	443	51	594	1	46	083	18	011	44	515	30	931	9	3 45 7
Total Year	620	945	571	143	464	844	1 6	356	922	596	390	530	216	464	844	1 5	91	450	411	833	398	944	274	448	1 085	225

West Lignite Mines. (Garp Linyitleri Işletmesi) 1941 - 1953 Output and Cost of labour.

Cost of Labour (Lira)		allow- man ance Total shift	0 126 000 708 000 1 84	395 000 1 312 000	1 400 000 2 943 000	1 410 764 3 973 764	1 264 959 4 009 589 3	3 1 706 316 4 022 939 3 40	9 2 148 585 5 452 254 3 81	2 334 392 6 067 496 3	6 2 660 561 7 113 697 3 91	2 848 919 7 811 519 4	3 542 159 9 051 930 4	000 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Wages	paid	582 000	917 000	1 543 000	2 563 000	2 744 630	2 316 623	3 303 669	3 733 104	4 453 136	4 962 600	5 509 771	6 027 862
Average	Number	labour	1 090	1 781	3 613	5 069	5 396	4 470	4 665	5 443	5 044	211 2.	4 997	5 208
Lignite sold	Volue	(T. L.)	954 984	1 744 653	5 505 062	7 299 267	7 275 955	6 455 950	9 063 088	10 336 415	12 216 201	12 342 458	12 714 834	15 478 276
Ligni		Tonnage	171 090	271 460	399 609	461 668	444 093	394 984	554 787	623 421	731 877	701 316	681 026	724 295
(ton)	Market-	lignite	176 789	266 190	419 659	531 814	523 194	459 389	603 795	680 039	22.1	746 553	751 020	764 653
Output (ton)		Raw	199 333	296 362	460 755	595 463	588 615	508 823	702 318	828 930	957 495	980 226	994 294	1 081 497
		Years	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952

Cost of Labour and labour Allowance of (Garp Linyitleri İşletmesi) West Lignite Mines.

Total Number Of man shift	Total cost of labour T.L.	Labour Allowance T.L.
1 687 865	7 618 489	3 996 739
Average wage	per man shi	ft 4.51
Average labou	r allowance	
per man shift		2.37
Daily pay	per man shif	t 6.88

III — (Şark Kromları İşletmesi)East Chromium Mines:

Turkey is one of the main chromium producing countries in the world due to her rich chromium ore resources. In Turkey the first occurrence of chromium ore was found in The production of chromium ore has greatly increased due to its important place in industry. The chromium ore production of Turkey in 1953 high as 600 000 tons, which can considered very important, as the yearly chromium production of the World is about 3 million tons. About 70-75 % of the Turkish chromium ore is produced by private enterprise and the remaining part is supplied by Etibank (Şark Kromları İşletmesi) East Chromium Mines. The exploration work of the chromium ore bodies of Guleman and Sori regions in the county of Elazığ, was made by the Institue of M.T.A. and then deposits were transferred to Etibank, who carry on the mining operation. (First installation of the plants started in 1936). In 1954 the visible, possible, and probable ore reserves of these ore bodies were estimated to be 700 thousand tons.

IV — Divriği Demir Madenleri İşletmesi - Divriği Iron Ore Mine:

Divriği iron ore deposit was discovered by the Institute of M.T.A. in 1937, the exploration work of this deposit was completed during May 1938, after which the ore body was transferred to Etibank for mining. Divriği iron ore mine was founded 25.12.1939, The average grade of iron ore is 60-66%, the reserves were estimated by Etibank during 1954 at 28 million tons, therefore proving sufficient to meet the needs of Karabük Iron and Steel Factories.

The yearly output of Divriği iron ore mine is regulated according to the demand of Karabük iron and steel factories, thus, the output of Divriği iron ore mine is increased as the production capacity of the factories soar. During the first year of operation in 1938, the output of the mine was 72 898 tons which was increased to 342 190 tons during 1953.

By the end of 1954 many new plants were in operation, such as, power station, aerial cableways, loading stations, sub-stations, and various other supplementary plants were installed, underground development work was also carried out. The approximate cost of the above stated plants was estimated at 14 million Turkish liras. It is hoped that the yearly rate of production will reach 400 000 tons.

(Sark Kromları İşletmesi) East Chromium Mines.

1954 Output

	J	Ore output (ton)	t (ton)		Concentration plant	centration plant	Total Market-	Tor	Tonnage Sold	꼄
	Guleman	Sori	Total	Low	Feed	Concen- trate	able pro- duction	Sold at home	Expor- ted	Total
January	160		160	1			160		10 586	10 566
February	197	ļ	197	ŀ	1	ı	197	ı	1 016	1 016
March	7 175	I	7 175	į	!	Ì	7 175	l	3 079	3 079
April	9 845	ļ	9 845	953	379	155	10 000	191	8 433	8 624
May	9 458	662	19 120	1 092	5 613	3 388	13 508	l	4 803	4 803
June	8 365	3 511	11 876	3 293	5 556	3 203	15 079	51	10 265	10 316
July	8 607	8 435	17 042	3 383	6 405	3 807	20 849	490	1 616	1 506
August	5 613	5 101	10 714	3 924	4 750	2 931	13 645	62		48
September	8 197	5 816	14 013	5 504	7 321	4 082	18 095	232	7 112	7 344
October	5 251		5 251	1 072	5 608	3 096	8 347	105	1	165
November	3 010	1	3 010	726	4 569	2 518	5 528	ı	25 536	25 536
December	966 8	1	9 8 68	203	1		966 8			
Year	74 874	23 525	98 399	20 539	40 201	23 180	121 579			
Rat	Rate of cutnut:	•	Face 7 338 kg		Quarry	Overall 737 kg				
	andana sa a		3		. Gr. 49.	in 4				

(Sark Kromiari İşletmesi) East Chromium Mines. 1941 - 1953 Production and Cost of Labour

:	Per	man shift	1.05	1.60	3.09	3.58	3.46	3.29	3.14	3.90	4.63	4.55	4.67	6.22	6.38
ur (T. Lira)		Total	87 000	109 000	305 000	586 363	462 662	244 129	246 714	351 253	620 686	654 924	899 602	1 166 847	1 300 968
Cost of Labour (T. Lira)	Labour.	allo- wance	 	12 000	119 000	165 212	115 000	67 479	69 710	127 590	206 196	244 404	346 572	461 215	501 644
		Wages paid	87 000	97 000	186 000	421 151	347 662	176 650	177 004	223 663	414 490	410 520	553 030	705 632	799 324
Average	number	of labour	250	220	300	477	392	288	310	320	372	401	563	520	550
Sale of Chromium ore	Total	value T. L.	2 031 295	2 679 939	1 010 095	8 030 464	2 863 391	970 154	7 557 402	16 407 839	19 789 347	17 119 455	17 644 556	17 595 228	24 223 917
Sal		Tonnage	63 946	58 605	12 603	106 717	40 141	11 901	78 561	136 481	152 843	144 037	156 245	149 659	182 012
Produc- tion (Ore	and con-	centrate) Ton	63 996	31 165	60 030	67 864	698 68	51 299	51 717	99 034	172 689	165 968	159 623	179 503	174 244
		Years	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953

Divrigi Demir Madeuleri İşletmesi - Divriği Iron Ore Mines 1941 - 1953 Production, sale and cost of labour

		Sale o	Sale of Iron ore	Average	Cost	Cost of Labour (T. Lira)	Lira)	
	Output		Total	Number				
	Iron ore		value	of	Wages	Labour	-	Per man
Years	Ton	Tonnage	T. Lira	Labour	paid	allowance	Total	shift
1941	49 673	920 99	350 828	006	231 000	1	231 000	1.23
1942	19 044	93 453	1 308 632	089	209 000	ļ	209 000	1.57
1943	91 751	97 602	1 366 907	1 570	648 000	355 000	1 003 000	3.02
1944	90 430	107 722	1 508 595	1 560	680 471	344 863	1 025 334	3.56
1945	125 708	101 567	1 405 649	1 221	610 560	350 244	960 804	3.79
1946	112 210	121 548	1 476 198	940	347 500	218 891	566 391	3.65
1947	145 620	136 404	1 660 470	820	384 000	244 000	628 000	3.76
1948	185 434	156 594	2 172 847	651	487 100	318 341	805 441	3.95
1949	209 648	219 955	3 006 743	899	564 505	475 768	1 040 273	4.48
1950	220 847	191 333	2 483 966	186	681 100	726 750	1 407 850	5.03
1951	220 010	218 518	2 953 368	860	667 862	620 439	1 288 301	4.89
1952	362 447	296 455	4 037 821	1 051	948 056	689 221	1 637 277	5.29
1953	342 192	342 575	4 458 532	1 025	1 218 447	753 096	1 971 543	6.17

Divriği Demir Madenleri İşletmesi -Divriği Iron Ore Mine 1954 Output and Labour allowance

Output	327	506	ton
Sale of ore	316	117	
Total number of shift x labour employed Total wages paid	261		" T.L.
Average wage per man shift Labour allowance		4.66	TL.
and insurance	857	262	,,
Labour allowance per man shift		3.27	"
Wage plus labour allo- wance per man shift		7.93	,,

Rate of Output:

Face	12 423 kg.
Quarry	3 571 "
Overall	1 461 "

V — Bakır İşletmeleri - Copper Mines:

At the present time Turkish copper production is completely maintained by Etibank. Turkish copper is of good quality, therefore it is preferred both by foreign and home markets, whereby taking an important place among items exported. During 1953, the copper production was 23 757 tons, the same year 40 million T.L. worth of copper was exported and home sales for copper were 15 million T.L.

A. Ergani Copper Production:

Ergani copper ore bodies are found at the town of Maden in the Court-

ty of Elazığ and have been mined al different periods dating back to ancient times.

The copper mine was taken over by the Ottoman Empire during the year 1850, since then the mining of copper continued at a slow rate up to the year 1915, during which year work stopped completely.

Although the concession of the mine was transferred to İtibari Milli Bank (National Credit Bank) in 1918, the right of concession was abolished as the mine was not operated, however, the concession was renewed on behalf of the same bank, and Anonym Company was formed by the joint action of five different organizations.

In 1936 the German share of the Ergani Copper Mine which was formed by German and Turkish shareholders was bought by the Turkish Goverment and given to Etibank. Smelting of copper commenced 21.3.1939 and the mine was operated by the Anonym Company until 1954.

The shares of İş Bank were then bought by Etibank and the Ergani Copper Mine joined to the establishment of the Turkish Copper Mines.

After the abolition of the above mentioned organization and from the beginning of August 1950 mining continued under the Ergani Copper Mines LTD. Liability Company.

During 1954 the copper content of the ore reserve was estimated at about 257 000 tons.

Ergani Bakır İşletmesi - Ergani Copper Mine.

	per man	shift	1.16	1.45	2.76	2.64	2.79	2.89	3.32	3.58	3.85	4.11	4.86	6.01	6.38
(T. Lira)		Total	200 000	218 000	1 183 000	1 361 270	1 305 786	1 384 137	1 642 907	2 003 474	2 251 158	2 544 629	2 822 032	3 624 556	3 708 331
Cost of Labour (T. Lira)	Labour	allowance	1	26 000	212 000	566 469	430 000	468 950	530 670	677 384	761 088	846 816	870 180	1 157 612	1 235 683
Ö	Wages	paid	200 000	492 000	999	794 801	875 786	915 187	1 112 237	1 326 090	1 490 070	1 697 813	1 951 852	2 466 944	2 472 648
Average	of	labour	1 430	1 220	1 400	1 748	1 404	1 377	1 419	1 467	1 535	1 667	1 552	1 635	1 698
of Copper	Total value	T. L.	1 447 985	8 279 311	13 539 324	5 312 042	2 347 150	17 688 401	17 095 411	14 298 259	14 979 904	18 588 159	35 725 945	27 376 273	36 859 964
Sale of		Tonnage	1 693	10 013	10 391	4 220	2 197	21 619	12 623	10 258	11 668	13 413	10 200	14 386	19 235
tion		Total	9 010	7 400	9 235	10 050	9 544	10 050	10 080	10 979	11 283	11 790	14 180	14 985	14 955
Copper production ton		Refined	910	2 205	2 205	1	1 895	l	675	i	388	I	1 084	ļ	260
Copi		Blister	8 100	5 195	7 030	10 050	7 649	10 050	9 405	10 979	10 895	11 700	13 096	14 985	14 695
		Years	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1921	1952	1953

Ergani Bakır İşletmesi - Ergani Copper Mines 1954 Production and Cost of Labour

Production:

Blister	16 030 Ton
Refined	681
Total Production	16 711

Cost of Labour and Labour allowance: Total Number of (labour employed x shift) 569 666 Wages paid 3 015 200 T.L. Average wage 5.95 .. Labour allowance 1 397 276 Labour allowance per man shift 2.45 ,, Wage plus labour allowance per man shift 8.40 ,,

B. Murgul Bakır İşletmesi - Murgul Copper Mine:

The Murgul Copper Mine is situated at Borçka a town in the province of Coruh and is connected to Hopa by a high way road of 56 km. Systematic exploration work at the mine started: the Caucasus Copper Company obtained the right of concession of the mine in 1901. Copper production commenced in 1907 after the installation of various plants. At the Murgul mine 16 000 tons of copper was produced until the beginning of the first world war in 1914. The production stopped during the year 1917 and in 1930 the company dissolved. Before the second world war, prospection and exploration work was carried out by the Institute of M.T.A., and the concession was transferred to Etibank. In 1938, when Etibank took over the mine, the old plants were in bad condition. Although an agreement was reached with General Engineering Company (Geco) for re-installation of the plants, the work was temporarily postponed due to the second world war.

It was possible to obtain the necessary equipment and material supply after 1947, thus, the development work of the mine and installation of the factory was completed during 1951 and consequently production of copper started 25.3.1951. The foundation date of (Murgul Bakır İşletmesi) Copper Mine was 1.6.1951. According to the ore reserves of Murgul copper ore bodies at the beginning of 1954, the copper content of the ore was estimated at abuot 400 000 tons.

Rate of output (for 11 months)

Face	4 806 kg.
Quarry	2 485 "
Smelting	121 "

Murgul Sulphuric Acid Factory:

In order to make use of gases escaping from chimney of the Murgul copper mine, an Installation of a Sulphuric acid factory with a capacity of 70 000 tons a year has been started. The factory which will be completed within the year of 1955, together with areal cable way and Acid tanks will cost 12.3 million liras. Murgul Sulphuric Acid Factory will produce the basic raw material for making phosphate manure which is an important substance required.

VI — Keban Kurşun Madeni-Keban Lead Mine:

The Keban lead mine is situated 52 km. west of Elazığ along the river Euphratus. After the completion of re-installation and re-equipment of the mine at a cost of one million Turkish liras, the test production started in May 1953.

Murgul Bakır İşletmesi - Murgul Copper Mine.

1951 - 1953 Production, sale, and cost of labour.

		Per man	shift	4.42	5.29	6.37
L.)			Total	1 873 725	2 423 203	2 868 144
Labour Cost (T.L.)		Labour	Allowance	534 590	851 340	934 412
Irah		Wages	paid	1 339 135	1 571 863	1 933 732
			•	1 516	1 532	1 528
Copper	Total	value	T. L.	3 924 536	18 232 334	19 513 409
Sale of			Tonnage	1 678	7 140	10 723
Production	of Blister	Copper	Ton	3 346	8 345	8 802
			Year	1951	1952	1953

Production of the Murgul Mine during 1951 and Cost of Labour Production:

Blister	8 502 Ton	ron		
Labour: (for 11 months)				
Number of (Labour employed x shifts)	403 155	155		
Total wages paid	1 993 186	186	T.L.	
Cost of labour allowance	1 106	526	£	
Average wage per man shift		4.96	2	
Average labour allowance per man shift		2.86	ä	
Wage plus labour allowance		7.82	2	

Until the end of 1953, 911 tons of lead concentrate, average grade of 59.14 % were produced from this mine. Newly installed plants have the capacity of producing 3000 tons of lead and 3000 tons of zinc concentrates a year.

The estimation of visible reserves of the Keban Lead Mine at the beginning of 1954 was about 86 975 tons of ore.

Results obtained from the test production of the Keban Lead Mine during the year of 1953 are given below:

Production of lead			
concentrate	(91.1	Tons
Sale of lead concen-			
trate		396	
Value of concentrate			
sold	188	781	T.L.
Average number of			
labour		200	
Total wages paid	60	286	
Sum of expenses for			
labour	259	274	
Wage per man shift		4.6	59 "
Labour allowance and			
social insurance		1.2	27,,
Wage plus labour allowa	nce	5.9	6 ,,

Keban Lead Mine 1954 Production and Cost of Labour.

Production:

1 572 Ton lead concentrate 200 ...

Cost of Labour:

Number of (labour			
employed x shifts)	58	163	
Sum of wages paid	273	177	T.L
Average wage		4.6	69 "
Total Labour allowance			
and social insurance		787	,,
Average labour allowance	ee		

per man shift 1.27 ,, Wage plus labour allowance per man shift 5.96 ,,

VII — Keçiborlu Kükürtleri İşletmesi (Keçiborlu Sulphur Mine):

Sulphur ore - bodies which are found at Keçiborlu a town in the province of Isparta, were mined by the Germans during the first world between 1914 and 1918, the concentrate produced by a simple smelting unit was supplied to the army, but after the war mining work ceased. After the Turkish Independence war, the concession of the mine was given to "Societe Generale de Mines et Metallurgie" Company. The concession of this company was abolished in 1933 as the conditions of the written agreement was not and the mine was not put into operation. Sümerbank had the mine explored and in June 1934, Sümerbank together with Is Bank formed an Anonym Company. After completing the installation of necessary plants June 1934 the share of Sümerbank was transferred to Etibank 6.4.1936. These shares of Is Bank were also bought by Etibank and the Keçiborlu Sulphur Ltd. Liability Mine was established in 1944.

The agricultural and industrial need of sulphur will be supplied completely by the Keçiborlu Mine, when the plants of flotation and refinery (*), which are already being built, start the process, the yearly production of pure sulphur will reach 15 000 tons and then it will be possible to export the remaining part over what is required for the home consumption. The estimated sulphur content of ore reserves of known ore bodies, at the* beginning of 1954, was about 300 000 tons.

Keçiborlu Kükürtleri İşletmesi - Keçiborlu Sulphur Mines. 1941 - 1953 Production, sale and cost of labour.

	Per man shift	1.19	1.79	2.17	3.21	3.30	3.62	3.38	3.38	3.54	3.88	4.68	6.26	6,93
r.L.)	Totai	129 000	294 000	276 000	379 252	412 940	328 901	279 111	286 711	357 689	416 714	474 789	639 023	687 944
Cost of labour (T.L.)	Labour allowance and social insurance	1	ţ	18 000	136 000	180 127	136 664	98 024	100 243	122 519	102 324	99 557	159 555	251 180
Cost	Wages	129 000	294 000	258 000	243 252	232 813	192 327	181 087	186 468	235 170	314 390	375 232	479 468	436 764
	Average number of labour	282	285	300	318	350	255	232	243	279	339	282	586	284
Sulphur	Total value T. L.	455 593	482 445	1 110 567	1 747 661	1 497 849	136 316	282 534	673 915	1 915 549	1 365 771	2 178 138	2 186 168	2 483 059
Sale of Sulphur	Tonnage	3 930	2 118	2 827	4 631	3 739	523	1 092	2 619	5 204	4 715	7 636	8 154	9 365
Sulphur	Production (Ton)	1 951	2 617	3 079	3 327	3 779	2 749	2 653	2 407	3 043	6 002	7 390	8 368	9 775
	Years	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1321	1952	1953

Keçiborlu Kükürt İşletmesi (Keçiborlu sulphur Mines 1954 production, sale and cost of labour.

Production 10 015 Ton Amount of sale 198 753 sack (= 9938 ton) Sum of sale 3 365 714 T.L. (for 11 months) Cost of labour: (for 11 months) Total number of (labour employed X shift) 90 407 421 060 T.L. Total wages paid Total labour allowance. social insurance 177 501 Wage plus labour allowance per 4.69 + 2.24 = 6.93 T.L.man shift

Electrification Enterprises of Etibank:

The main new effort of Etibank on the subject of electricity carries the purpose of supplying the electrical energy to thickly populated regions such as North - West and Western Turkey, where there is a great deal of improvement in their economical life. The programme of Etibank includes new power plants with high voltage energy transmission lines and main transformer stations to be built in consumption centres, construction of which has already been started and is to be completed in the shortest possible time.

Inter-connection of Çatalağzı, Karabük, Silahtar, İzmit, Tunçbilek, Ankara, Sarıyar and Hirfanlı power plants will feed the North West electrical grid system of Etibank which will transmit and distribute the electricity to İstanbul, İzmit, Zonguldak, Çankırı, Ankara, Bolu, Eskişehir, Bilecik, Bursa, Kütahya and Afyon, and the towns, villages and industry included within the provinces. Besides those mentioned, this grid system will be arranged suitably to supply the energy for the electric

trains which will run between İstanbul-Eskişehir - Ankara - Irmak- Zonguldak.

Soma, İzmir, Gediz and Akçay power plants will feed western Turkey electric grid system which will supply electrical energy to the provinces of İzmir, Manisa, Balıkesir, and industrial centres included within the provinces.

The capacity of present power plants in Turkey totals 500.000 kilowatts, 365 000 kilowatts of which are maintained by those of Nort-West and Western regions, from all the power plants, 970 million kilowatt-hours of energy are produced. On the other hand, when the programme is completed, the capacity of all the power plants in Turkey will be 1 000 000 kilowatts, 475 000 kilowatts of which will be supplied by those of Etibank an consequently, the consumption of electricity in Turkey will be 3 000 000 000 kilowatthours, 1 750 000 000 kilowatt-hours of which will be maintained by the power plants operated by Etibank.

In the subject of electrification of North-West and Western Turkey, the above mentioned projects have all been given to the contractors, many of which are now in operation and others in the stage of construction. The cost of the power plants will amount to 480 million Turkish liras; 283 million liras of which are for Sanyar hydro - electric power project of 80 000 kilowatts, the extension of Catalağzı power plants of 60 000 kilowatt and those power plants of Tunçbilek of 60 000 kilowatts and Soma of 40 000 kilowatts for both of which lignite will be consumed. The cost of 20 transformer stations of 520 000 kilowatt-amper, with the transmission lines of 1700 kilometer long, will be 156 million liras which will give one an idea of the importance of the work being carried out from the financial point of view.

per	Value T. L.	833 775	4 786 537	15 128 437	4 141 160	358 780	16 933 601	8 205 374	1 716 183	8 424 681	8 588 004	21 927 483	41 622 491	41 196 157
Copper	Tonnage	1 253	5 288	11 864	3 228	378	20 463	6 974	1 244	7 230	6 316	7 297	16 646	23 015
Chromium ore	Value T. L.	2 027 295	2 656 355	994 995	8 005 464	2 863 391	970 154	7 536 950	16 382 358	19 762 592	17 108 480	17 629 506	17 533 302	24 156 328
Chromie	Tonnage	63 786	57 868	12 301	106 217	40 141	11 901	78 129	135 931	152 226	143 772	155 865	148 837	181 118
a 1	Value T. L.	986 26	39 700	73 200	80 300	188 800	8 072 612	5 671 517	486 011	382 252	247 262	3 233 437	7 303 808	1 273 376
Coa	Tonnage	12 048	2 761	3 499	3 827	8 591	198 904	92 732	7 086	5 386	5 370	77 378	178 536	28 873
	Years	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953

396 tons of lead concentrate of total value of 188 781 T.L. were exported in 1953.

1 612 ton of lead concentrate were exported in 1954.

Amongst the power plants, which will feed the North-West and Western Turkey electrical grid system of Etibank, Sarıyar, Hirfanlı and Gediz power plants will be hydraulic, while, Çatalağzı, Tunçbilek and Soma power plants will consume lignite and coal which cannot be used elsewhere and also where the impossibility of selling or transporting to long distances occur. In this way, by consuming inferior quality solid fuel these national resources will be evaluated.

The policy of Etibank towards the power plants, which form the grid system by inter-connection, is that the energy produced by power plants at Silahtar, İzmir and Ankara, which have been installed to make use of good quality solid fuel, will be as small as possible; while the capacity of hydroelectric power plants or power stations consuming inferior quality solid fuel will be as high as possible. This policy is suitable to the fuel and energy saving policy of the Country including transportation; in short, it is suitable for the national economy of the Country. Etihank's power plants of North-West and Western Turkey grid system which will be functioned by water-power or by inferior quality solid fuel will maintain saving of 800 000 tons of good quality lignite or coal per year.

The other enterprize of Etibank is the installation of a hydro - electric power station at Hazer. This power station will supply the electrical energy to the Ergani Copper mine also the Şark Kromları (Eastern Chromium Mine) and the province of Elazığ besides maintaining the irrigation of Uluova Kuzuova. The power station will be built to make use of water power supplied by the Lake Hazer, and the plants, which will be completed during the year of 1955, will cost 7 million Turkish liras. The energy produced from this power station will be 20-30 million kilowatt hours per year; the energy will be transmitted to Maden and Elazığ by transmission lines 60 kilometres in length, and at Elazığ and Maden substations will be built.

Power plants to be built or expanded, Energy transmission lines and transformer stations to be built

New power plants	Power	Yearly Capacity Kwh
Sarıyar, Hydroelectric	$2 \times 40 000$	370 000 000
Hazer, Hydroelectric	2×3000	20 750 000
Tunçbilek, Thermal (steam plant)	2×3000	240 000 000
Soma, Thermal (steam plant)	$2 \times 20 000$	180 000 000
Expanded Power plant		
Çatalağzı, Thermal (steam plant)	$3 \times 20 000$	250 000 000
The cost of this plant will be about	300 million T. L.	
Plants which will be completed partially	in 1955 and 1956:	

Location of Energy	I	(V)	Balıkesir - Edremit	80 42
Transmission Lines	Length	(Km.)	Bolu - Düzce	42
Adapazarı - Bursa - Ankara - Kırıkkale Kırıkkale - Karabük Paşalar - Tunçbilek Tunçbilek - Kütahya Kütahya - Afyon İzmir - Manisa Manisa - Soma Soma - Balıkesir	,	212 60 200 100 50 100 35 85 70	Total cost will be 50-60 milli Location of new transformer S Bursa, Eskişehir, İzmir, K Karabük, Paşalar, Kütahya, Afmit, Manisa, Balıkesir, Edremi and Düzce. Total cost on completion 16-17 million T. L.	Stations: 1rikkale, yon, İz- t, Bolu
Soma - Dankesh		70	10 17 HIHHOH 1. L.	

Table showing the production, shipped tonnage and sale of different items based on figures obtained in 1953.

	Production Ton	Shipped Tonnage	Fob value T. L.
Asbestos			
Antimony (ore	8 857	_	_
(concentrate	1 725	1 119	389 414
Boracite (ore	17 984	_	_
(concentrate	6 436	8 613	1 250 031
Cement (State	178 728	180 503	11 585 717
(Private enterprise	304 026	301 146	18 201 677
Total	448 754	481 649	29 787 394
Lead	298	966	94 006
Iron	164 056	128 480	3 533 258
Chromium	728 825	490 441	45 169 324
Lignite	326 500	317 766	5 931 078
Meerschaum (Box)	537	499	145 904
Mineral water (Litre)	1 489 987	1 546 663	490 043
Soda	284 154	285 066	114 026
Manganese	89 864	74 567	5 907 589
Magnesite	350	255	10 044
Sodium Sulphate	163		1
Molibdenum	1 358	_	_
Fluorspar	100	80	9 120
Emery	1 135	2 629	119 005
Tungsten			
Mercury			
Trass	 -		

Chromium ore production in 1953, Total shipped tonnage of ore, and \mathbf{FOB} sale value

	Production Ton			Shipped Tonnage			alue L.
1 — Chromium ore from							
private concessions	366	992	238	625	25	295	662
2 — Chromium ore from							
privately owned Mines							
holding exploration permit	361	833	251	816	19	873	662
Total	728	825	490	441	45	169	324
Production and FOB sale value of	lignite	in 1	953				
1 — Lignite from private concessions	193	317	190	633	3	782	640
2 — Total production from							
lignite mines holding							
exploitation permit	98	390	92	877	1	483	415
3 — Total production from lignite							
mines holding exploitation permit	34	793	34	255		665	023
Total	326	500	317	765	5	931	078
Production, total shipped tonnage	of ore	and	FOB s	ale valu	ue of		
Manganese a	and Iro	n ore	s.				
Total Manganese ore	89	846	74	567	5	907	589
Total Iron ore	164	056	128	480	3	5 33	258
Total	253	902	203	047	9	440	847

Table showing the production, shipped tonnage, and FOB sale value of different items based on figures obtained in 1954.

,	Production Ton	Shipped Tonnage	Fob Sale value T. L.
Asbestos	45	_	
Antimony	1 783	1 76 8	684 893
Boracite	14 331	15 610	1 883 681
Cement (State	146 604	149 737	11 172 063
(Private enterprise	532 795	542 981	25 070 005
Mercury	9	9	240 520
Lead	911	110	2 635
Iron	154 0 14	161 382	4 367 056
Chromium	428 796	285 309	26 921 544
Lignite	443 551	419 209	9 247 805
Meerschaum (Box)	776	903	233 114
Mineral water (Litre)	3 269 181	3 270 732	877 894
Manganese	49 827	50 093	3 802 954
Magnesite	1 065	637	19 049
Coal	5 714 119	3 577 537	102 281 904
Sodium sulphate	1 260	669	99 940
Trass	3 017	3 017	_
Tungsten	250	_	_
Emery	4 802	4 602	200 793

Total expenditure of Chromium Mines during 1953.

Transporta- tion and loading T. L.	3 584 237	3 176 674 6 760 911		14 388	215 393		576 820		831 211 1 627 5 5 8
Sundries T. L.	394 982	211 531 606 513		82	29 766	253 474	283 325	·	110 362 69 607
Cost of prospection transportation concentration and smelting T. L.	1 387 318	476 460 1 863 778	g 1953	15 660	01 790	137 371	244 760	during 1953.	208 349 32 924
Labour allowance T. L.	107 531	230 776 338 307	ines durin	7 329	96 503	107 841	141 753	n ore Mines	75 46 2 77 530
Sum of salaries paid	640 471	525 824 1 166 295	Total expenditure of lignite mines during 1953	14 050	10 00	464 761	548 022	Total expenditure of Manganese, and Iron ore Mines during 1953.	184 980 108 841
Sum of Wages paid	4 156 797	4 103 523 8 260 320	xpenditure	82 395	70E 000	903 104 1 302 567	2 048 708	liture of Mang	895 151 786 210
Number of Iabour	965 556	952 425 1 917 981	Total e	19 498	i c	148 897 302 324		Total expend	a 193 571 63 380
*	Private concessions	Privately owned mines holding exploration permit Total for private enterprise		Lignite from privately owned mines holding exploration permit	Lignite from the privately owned mines holding	explication permit	riivate concessions Total		Total expense for manganese Total expense for Iron ore

Total expenditure of chromium during 1954.

	Number of labour per day	f Sum of wages paid T. L.	Sum of salaries paid T. L.	Labe allow T.	our du 'ance the	ants uilt ring year L.	Cost of washery and transportation T. L.	Sundr T. L.	•
Chromium mines privately owned holding exploration		900 684	282 870	67	. 110 01	. 770	79 980	3 10 72	1 400 722
permit Private	219 911	800 004	202 010	01	11 8 81	773	73 358	10 12	1 400 122
concessions		2 628 794	601 082	132		228	843 653	165 456	2 079 390
Total	779 744	3 529 478	883 952	199	615 503	001	917 011	176 177	2 480 112
			Expenditure	of lignite	mines during	1954			
Privately owned lignite mines holding exploration permit	98 352	432 843	71 790	`.	-	172	53 609	40 983	313 113
owned lignite mines holding exploitation permit	188 782	1 069 66 8	252 625	42	886 248	863	119 995	77 4 84	223 707
lignite			004 000	454	A0E 804	004	400 444	004 400	K70 101
concessions Total		1 575 795 3 078 3 06	201 602 526 017	171 248		234 269	136 441 310 045	331 122 449 589	
					mines during	1954	·		
Total expenditure for Manganese								40.55	*** 000
Mines	76 605	375 163	182 946	56	272 192	950	126 008	18 831	554 896

Production, shipped tonnage and FOB sale value of chromium ores during 1954.

	Production Ton	Shipped Tonnage	Fob sale value T. L.
1 — Total from private concessions	265 435	206 117	21 557 111
2 — Total from privately owned mine		70.400	E 004 400
holding exploration permit	163 361	79 192	5 364 433
Total	428 796	285 309	26 921 544
Production, delivery and FOB sale 1 — Total from private concessions	e value of lig	nite, during	1954. 4 900 778
2 — Total from privately owned mines holding exploration permit	65 350	63 563	1 765 62 8
3 — Total from privately owned mines holding exploitation permit	139 589	133 868	2 581 399
Total	443 551	419 209	9 248 805
Production, shipped tonnage and FOB	sale value o	of Manganes	e during 1954.
Total	49 827	50 093	3 802 954

1952 - 1954 Production figures of the Sümerbank Factories. Iron and Steel - Heavy Industry.

		1 9 5 2 Ton		1.953 Ton		1 9 5 4 Ton	
1.	Coke	399	867. 2	538	270.5	509 113	
2.	Pig iron	89	250.6	99	145.8	195 681.—	
3.	Steel	153	465.1	162	641.1	168 893	
4.	Manufacture of wire	115	874.4	136	158.8	133 765 .—	
5 .	Pipe (cast)	7	095.8	6	791.7	7 037	
	Chemical	and B	uilding	Material In	dustry.		
1.	Cement	185	309	187	129.—	155 837.—	
2.	Paper and cardboard	29	287.—	28	867	40 670.—	
3.	Sulphuric acid	20	093.7	23	154	22 930	
4.	Super phosphate	21	234.2	22	027.—	20 577.—	
5.	Costic soda	1	925	2	014.—	1 864.—	
6.	Fire brick and						
	cementing material	6	327	7	967.—	12 211	
7.	Brick (piece)	3 199	435	028	402.—	5 922 899	
8.	Tile (piece)	4 809	300	315	651	3 397 998.—	