

SOUTH AFRICAN MINT
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ANNUAL REPORT

OF THE DIRECTOR OF THE SOUTH AFRICAN MINT

FOR THE YEAR 1 APRIL 1983 TO 31 MARCH 1984

REPUBLIC OF SOUTH AFRICA
SOUTH AFRICAN MINT.

The Director General: Finance
Private Bag X115
PRETORIA.

ANNUAL REPORT OF THE DIRECTOR OF
THE SOUTH AFRICAN MINT FOR 1983/1984.

I hereby wish to submit the report on the activities of the South African Mint during the financial year 1 April 1983 to 31 March 1984.

The total coin production for the financial year amounted to 386 384 239 pieces that represented an increase of 8,4%.

The 416 595 874 circulation coins produced during the 1983 production year is the highest number of coins produced in one year by the S.A. Mint.

The demand for coins were abnormally low and only 241 million pieces were issued. A decrease of 39,4% compared to 1982/83.

The higher production was used to replenish the stocks that reached a dramatic low at the end of 1982.

The sale of circulation coins yielded R16 044 314. A decrease of 28,3%.

The total sales of all S.A. Mint products was R84 441 928 with a profit of R17 994 646. The lower profit can mainly be attributed to the lower sales of circulation coins, increased production costs due to high production of circulation coins and a decrease in the demand for industrial precious metals and medals as a result of the higher average gold and silver prices.

3,1 Million Krugerrands were minted for the Chamber of Mines. The demand for mini Krugerrands were lower than in previous years and only 1,1 million ½, ¼ and 1/10-Krugerrands were minted.

There was no increase in staff and very little additional capital equipment installed during the year and the higher production can be attributed to higher productivity of all the staff members.

Mr. J.J. Groenewald retired at the end of April 1984 as Director of the S.A. Mint after having held the position for the last 19 years.

This annual report covers the last year of Mr. Groenewald in office.

The financial statements and the activities of the different sections are reflected in the following chapters.

C.J. DANNHAUSER
DIRECTOR : S.A. MINT

CHAPTER 1 - FINANCE

COMBINED MANUFACTURING- OPERATING- AND PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDED 31 MARCH 1984

1982/83 R			1983/84 R
	EXPENDITURE		
198 903	Work in progress on 1 April 1983		236 861
	Coin stocks on hand at cost on 1 April 1983 :		2 492 165
5 852 971	Bullion costs	1 997 257	
450 405	Conversion costs	494 908	
	Operating costs for the year :		68 660 863
63 279 166	Bullion costs	65 854 339	
2 326 278	Conversion costs	2 806 524	
771 963	Selling costs		1 617 190
72 879 686	Subtotal		73 007 079
	Less :		
	Value of coin issued in replacement of old coin withdrawn from circulation, at cost :		-
698	Bullion costs		
123	Conversion cost		
	Coin stocks on hand at cost on 31/3/84 :		5 988 976
1 997 257	Bullion contents	4 618 365	
494 908	Conversion cost	1 370 611	
3 447 458	Transfer to bullion		10 388
236 861	Work in progress on 31 March 1984		360 433
66 702 381			66 647 282
	RECEIPTS		
90 671 270	Sales		84 441 928
	Less :		
66 702 381	Cost of sales		66 647 282
23 968 889	Net profit for the year		17 794 646

BALANCE SHEET AS AT 31 MARCH 1984

31 March 1983 R		R	31 March 1984 R
	LIABILITIES :		
	MINT CAPITAL		
5 981 524	Balance on 1 April 1983	5 971 676	
354 705	Additions for the year	458 934	
6 336 229		6 430 610	
364 553	Less : Sales, depreciation and write-offs	367 080	
5 971 676	Balance on 31 March 1984		6 063 530
1 071 327	OPERATING CAPITAL		2 305 922
8 667 440	S.A. RESERVE BANK for gold deposited		6 451 618
28 000 000	THE TREASURY - advances for the purchase of bullion		27 000 000
20 836	SUNDRY CREDITORS		819 533
(163 706)	ADVANCE PAYMENTS by clients		(453 109)
	OVERDRAWN BALANCE at PMG		5 825 357
43 567 573			48 012 851
	ASSETS :		
4 190 990	BUILDINGS at cost	4 190 990	
Nil	Additions during the year	Nil	
4 190 990		4 190 990	
916 013	Less : Accumulated depreciation	948 763	
3 274 977	Value at 31 March 1984		3 242 227
6 300 836	MACHINERY AND EQUIPMENT at cost	6 655 541	
354 705	Additions during the year	458 934	
6 655 541		7 114 475	
3 976 842	Less : Sales, accumulated depreciation and write-offs	4 311 172	
2 678 699	Value on 31 March 1984		2 803 303
18 000	LAND		18 000
106 387	STORES at cost		133 794
254 898	SUNDRY DEBTORS		320 468
	BULLION (including bullion in coin stock)		35 411 549
26 636 705	GOLD	24 330 948	
9 352 672	OTHER	11 080 601	
	AMOUNT OVERPAID to Receiver		3 376 893
494 908	COIN STOCKS at cost (excluding bullion content)		1 704 620
236 861	WORK IN PROGRESS at cost		26 425
237 175	OPERATING SUSPENSE ACCOUNTS		435 228
5 854	MINT MUSEUM STOCK at cost price		5 854
270 437	INVESTMENT with C.P.D.		534 490
43 567 573			48 012 851

1. COMPARATIVE STATEMENT OF SALES

	1983/84	1982/83	1981/82
a) Circulation coin	16 604 314	21 308 694	27 395 000
b) Proof and collectors' coin	25 472 860	23 272 158	18 989 906
c) Gold and silver for industrial purposes	41 645 881	45 388 117	44 830 847
d) Die and medal products, laboratory and sundry services	263 325	1 421 567	752 378
e) Manufacture of gold coin for the Chamber of Mines	436 734	409 351	544 220
f) Manufacture of coin for foreign governments	Nil	Nil	Nil
g) Rand Refinery	18 814	11 197	17 704
Total	84 441 928	91 811 084	92 530 055

2. COMPARATIVE STATEMENT OF CONVERSION AND SALES COSTS

	1983/84	1982/83	1981/82
	R	R	R
Conversion costs	2 806 524	2 326 278	1 947 998
Selling costs	1 617 190	771 963	511 614
Total	4 423 714	3 098 241	2 459 612

3. OPERATING RESULTS

	R	R	R
a) Combined			
Sales	84 441 928	91 811 084	92 530 055
Net profit	17 794 646	23 968 889	27 768 765
% Profit	21,09	26,11	30,01
b) Circulation coin			
Sales	16 604 314	21 308 694	27 395 000
Net profit	10 149 907	14 438 986	20 041 693
% Profit	61,12	67,76	73,16
c) Proof and collectors' coin			
Sales	25 472 860	23 272 158	18 989 906
Net profit	7 179 018	8 923 774	7 016 276
% profit	28,18	38,35	36,95
d) Sundry accounts			
Sales	41 928 020	47 230 232	46 145 149
Net profit	322 564	606 129	710 796
% Profit	0,76	1,28	1,54

The decrease in total profit for 1983/84 in comparison with 1982/83 is due mainly to the lesser demand (sales) for nickel circulation coin and gold and silver for industrial purposes.

4. COMPARATIVE STATEMENT OF CAPITAL ADDITIONS

	1983/84	1982/83	1981/82
	R	R	R
Buildings	Nil	Nil	Nil
Machinery and equipment	458 934	354 705	1 529 464
Total	458 934	354 705	1 529 464

5. GOLD COINS DELIVERED TO CHAMBER OF MINES

	Number of pieces		
Krugerrand	3 100 655	2 630 006	3 014 527
1/2-Krugerrand	99 405	262 668	153 986
1/4-Krugerrand	162 367	635 898	1 270 928
1/10-Krugerrand	852 510	813 539	1 016 022
Total	4 214 937	4 342 111	5 455 463

6. COMPARATIVE STATEMENT OF STORES USED

	R	R	R
Issued ex stores	233 999	211 803	146 321
Total	233 999	211 803	146 321

The increase of 10% during 1983/84 over 1982/83 is due mainly to increased prices and an increase in G.S.T.

CHAPTER II - ADMINISTRATION

A. MINT OFFICE

The Mint Office is responsible for the purchase of all coinage metals, the issue thereof to the production sections and the issue of all coins, medals and products manufactured by the S.A. Mint.

1. GOLD :

The average selling price of industrial gold was R460,53 per fine ounce, compared with R436,41 in the previous year. The selling price of gold sold for industrial purposes is determined in accordance with the average ruling prices on the free market on a weekly basis in respect of manufacturing jewellers and on a daily basis for buyers of gold bars from April 1980, as adjusted and approved by the South African Reserve Bank, plus a commission of 1%.

A total fine mass of 2 623,39 kg of gold was sold during the year whereas 3 088,10 kg was sold during the previous year.

Gold Coins :

A total of 29 200 gold proof coins (14 600 of R2 and 14 600 of R1) was struck for sale in 7 300 proofsets of 10 coins (R2 - ½c) and 7 300 proofsets of 2 coins (R2 - R1).

In addition to the above 19 100 proof Krugerrands, 13 600 proof ½-Krugerrands and 12 075 each of the proof ¼- and 1/10-Krugerrands were minted.

The following uncirculated Krugerrands and fractional Krugerrands were minted for the Chamber of Mines :-

Krugerrand	3 100 655
½-Krugerrand	99 405
¼-Krugerrand	162 367
1/10-Krugerrand	852 510

Gold Transactions :

There was a decrease in the total fine mass of the gold transacted as compared with the previous year as follows :-

	1983/84 kg.	1982/83 kg.
Received from Rand Refinery Ltd.	2 731,24	4 539,82
Granulated and dental gold sold	2 623,39	3 088,10
Medals, wire and sheet gold sold	5,01	11,72
Mass of R2, R1 Krugerrand	1 110,27	1 082,90
Transferred to Die & Medal Section	-	5,25
Transferred to Coinage Section	2 244,23	1 272,11
	8 714,14	9 999,90

2. SILVER :

Silver transactions by mass :

	1983/84 kg.	1982/83 kg.
Bought from Rand Refinery Ltd.	7 496,27	6 384,13
Granules and strip sold	6 464,93	6 286,96
Medals and other items sold	65,79	63,96
Coin received from Coinage Section	190,53	144,02
Issues for various alloys	50,32	71,37
	14 267,84	12 950,44

Purchase of Silver :

7 496,27 kg. of Silver was purchased from the Rand Refinery Ltd., mainly for sale in granulations.

Basic Selling Price of Silver :

It was necessary for the Mint, with Treasury approval, to vary its basic selling price of silver in conformity with the rise and fall in the overseas market price. Silver is sold at the daily cash price ruling on the London Metal Market. The average selling price was R13,11 per fine ounce compared with R11,88 in the previous year. The total fine mass sold during the year was 6 464,93 kg whereas 6 286,96 kg was sold during the previous year.

Withdrawal of 500 Std. and 800 Std. Silver Coin for Remelting :

During the year no silver coins were withdrawn from circulation.

3. NICKEL :

Nickel Transactions by mass in kg.

	1983/84	1982/83
Blanks purchased for coinage	548 200,00	489 800,00
Mass of coins received	647 066,59	355 576,35
Transferred to Die & Medal Section	180,69	72,39
	1 195 447,28	845 448,74

4. BASE METALS :

The following are the receipts of and the transactions in base metals. This involved mainly issues to the Coinage Section for the production of gold, silver and bronze coin as well as a small amount of copper for the alloying of the different grades of gold sold to industry.

Base Metals Transactions by mass :

	1983/84 kg.	1982/83 kg.
Copper purchased	1 110 531,00	702 742,00
Bronze issued to Coinage Section	872 933,66	808 760,00
Bronze coin received from Coinage Section	890 262,90	861 149,04
Metals for various alloys	79,37	42,22
Copper issued to Rand Refinery Ltd.	8 594,00	7 448,00
Copper issued to Mechanic Shop	39,00	20,00
Issued to Die & Medal Section	11,09	76,30
	2 882 451,02	2 380 237,56

Withdrawal of Bronze Coin :

During the year coin to the value of R31 486,12 was withdrawn from circulation.

5. COIN RECEIVED AND ISSUED :

The following is a comparative schedule in respect of gold, silver, nickel and bronze coins received from the Coinage Section and issued by the Mint Office :-

Denomination	Receipts from Coinage Section		Issued to Banks etc. during	
	1983/84	1982/83	1983/84	1982/83
	Number of coins		Number of coins	
Gold				
Krugerrand	3 119 755	2 646 966	3 120 095	2 646 966
½-Krugerrand	113 005	275 668	112 934	275 668
¼-Krugerrand	174 442	647 168	174 335	647 168
1/10-Krugerrand	864 685	824 809	864 504	824 809
2 Rand	14 600	14 030	15 436	15 072
1 Rand	14 600	14 030	18 102	15 084
Silver				
1 Rand	14 135	12 000	14 062	36 311
Nickel				
R1	9 211 361	5 124 413	3 297 557	5 766 833
50c	8 631 679	2 103 721	6 747 587	7 781 258
20c	38 751 163	7 543 012	20 318 587	20 438 502
10c	17 445 379	24 770 000	18 373 587	23 493 278
5c	49 749 030	51 873 692	39 983 587	46 223 278
Bronze				
2c	117 199 135	78 466 000	65 373 587	69 889 158
1c	141 067 135	182 062 000	82 567 587	155 503 129
½c	14 135	12 000	14 039	2 521 312
	386 384 239	356 389 509	240 995 586	336 077 826

The above schedule includes the following :-

A. Proof coins :

Ten coin proofset (R2 - ½c)	7 300
Gold proofset (R2 & R1)	7 300
Eight coin proofset (R1 - ½c)	6 835
Krugerrand	19 100
½-Krugerrand	13 600
¼-Krugerrand	12 075
1/10-Krugerrand	12 075

B. Chamber of Mines :

The following coins were minted for the Chamber of Mines :-

Krugerrand	3 100 655
½-Krugerrand	99 405
¼-Krugerrand	162 367
1/10-Krugerrand	852 510

6. COINS MANUFACTURED FOR OTHER COUNTRIES :

Nil

7. PACKING AND DESPATCH SECTION :

The number of parcels despatched by post and by rail compared with the previous year was :-

	1983/84	1982/83
Parcels despatched by post	22 802	20 529
Boxes of coin despatched by rail	8 056 (394 305 kg)	9 055 (548 622 kg)
Boxes of Krugerrands	8 001 (114 544, 76 kg)	6 332 (111 433, 20 kg)

B. PERSONNEL

1. SCHEDULE OF POSTS AND PERSONNEL EMPLOYED

The following comparative schedule shows the number of posts and the personnel employed at the end of the year as compared with the previous year :-

	Categories	1984		1983	
		Posts	Personnel	Posts	Personnel
a.	Administrative	6	6	8	7
b.	Professional	4	2	4	3
c.	Technical	1	-	22	15
d.	Clerical	27	15	18	10
e.	General Divisions A & B excluding items (g) to (j)	39	24	29	18
f.	Temporary employees against posts under items (a) to (e)	-	4	-	8
g.	Senior Artisan	2	1	2	2
h.	Artisan	17	16	11	9
i.	Artisan Foreman	6	6	3	2
j.	Male Operators	21	14	24	20
k.	Apprentices	4	3	4	3
l.	Female Operators	47	39	49	35
m.	Guards & Bossboys	22	17	18	17
n.	Messengers, Cleaners & Labourers	137	117	135	125
	Total	333	264	327	274

There was a decrease of 10 in the number of persons employed while the number of posts increased by 6.

2. PERSONNEL TURNOVER

Appointments	136
Resignations	146

3. POST STRUCTURAL CHANGES

The number of authorised posts increased by 6.

4. PERSONNEL CHANGES

a) Retirements :-

i) Mrs. M.A.S. Schroeder, TN5 Special Operator, on 1st May 1983, after 7 years of service on account of ill health.

ii) Johannes Mokondo, Guard on 1st May 1983 after 3 years of service on account of ill health.

iii) Johannes Phetla, Messenger, on 1st June 1983 after 36 years of service.

iv) George Ramokoka, Labourer, on 1st July 1983 after 44 years of service.

v) Patmos Maphosa, Labourer, on 1st July 1983 after 20 years of service.

vi) Mrs. G.C. English, TN5 Special Operator, on 1st July 1983 after 7 years of service on account of ill health.

vii) Alpheus Khoza, Boss Boy, on 1st December 1983 after 20 years of service on account of ill health.

viii) Abraham Marutho, Labourer, on 1st December 1983 after 16 years of service on account of ill health.

b) Deaths :-

i) Mr. L.P. de Lange on 17th May 1983 after 20 years of service.

ii) Jacob Matlandi on 8th August 1983 after 4 years of service.

iii) Frans Mogale on 7th October 1983 after 13 years of service.

iv) Jonas Lekuta on 5th December 1983 after 5 years of service.

v) Mrs. A.M. Barnard on 6th December 1983 after 5 years of service.

c) Two apprentices were appointed as Artisans after the completion of their apprenticeships.

i) Mr. A.J.J. Nel on 28th May 1983, as fitter and turner.

ii) Mr. T.M. Bell on 10th March 1984, as die sinker and medallist.

d) Transfers from and to the S.A. Mint :-

i) Mr. P.J. van Wyk from Department of Agriculture with effect from the 15th August 1983.

ii) Mr. J. Venter to Department of Finance, Head Office, with effect from 1st September 1983.

iii) Mr. N.P.J. Coetzee from Department of Finance, Head Office, with effect from 1st September 1983.

iv) Mr. T.B. Barnard to the Department of Posts and Telecommunications with effect from 1st November 1983.

v) Mr. J.C. Esterhuizen from Department of Agriculture with effect from 1st November 1983.

vi) Mr. N.V. Reinders from Department of Finance, Head Office, with effect from 1st December 1983.

vii) Mrs. I.M.S. Bothma to the Department of Finance, Head Office, with effect from 13th February 1983.

e) Mr. A. de La R. Joubert, State Accountant, resigned to assume employment in the Department of Education (Bophuthatswana Government).

f) Promotions :-

i) John Magoka, Labourer, to Messenger with effect from 1st June 1983.

ii) Mr. W.S. van As, Senior Manager : Provisioning Administration to Assistant Director : Provisioning Administration with effect from 1st November 1983.

iii) Mr. D.F. Senekal, Security Assistant, to Senior Security Assistant with effect from 1st December 1983.

iv) Mr. G.C. van Heerden, Chief Security Assistant, to Security Officer with effect from 1st March 1983.

C. MINT MUSEUM AND LIBRARY

A. GIFTS.

1. Gifts received :-

Royal Mint	One New One Pound coin.
Mint Bureau Japan ..	One set of coins dated 1983 (500 Yen - 1 Yen).
Netherlands Mint ...	One set of coins of the Netherlands

2. Gifts presented :-

Department of Foreign Affairs	Two 1982 uncirculated coin-sets (R1 - 1c) for the S.A. Cultural Week in La Paz, Bolivia.

B. VISITORS

1 573 Visitors were received during 1983/84.

C. PERSONNEL CHANGES

Mrs. Aviva Maree and Miss S.E.J. Ecroignard left the Mint's services on the 31st December, 1983.

CHAPTER III - PRODUCTION

1. MELTING SECTION

The following schedules show the activities of the section for the year :-

Gold

Fine gold granules		653,5897 kg
22ct gold granules		54,8957 kg
18ct gold granules		150,8114 kg
9ct gold granules		133,7804 kg
18ct gold for Die & Medal		16,4003 kg
	Total	1 009,4775 kg

Silver

Fine silver granules		7 067,6817 kg
925 Std. silver for Die & Medal		264,7913 kg
	Total	7 332,4730 kg

Bronze

Coinage bronze		1 411 675,5 kg
	Total	1 411 675,5 kg

2. ROLLING SECTION

The production in this section was as follows :-

a) Bars Rolled :

Coinage bronze		1 415 797,5600 kg
9ct gold for Die & Medal		59,0031 kg
18ct gold for Die & Medal		2,3247 kg
925 Std. silver for Die & Medal		267,1901 kg
Fine silver for Die & Medal		10,4827 kg
	Total	1 416 136,5606 kg

b) Blanks annealed and cleaned :

Proof Krugerrand	19 100 pieces
Proof ½-Krugerrand	13 600 pieces
Proof ¼-Krugerrand	12 075 pieces
Proof 1/10-Krugerrand	12 075 pieces
Proof gold R2	14 600 pieces
Proof gold R1	14 600 pieces
Std. Krugerrand	3 100 655 pieces
Std. ½-Krugerrand	99 405 pieces
Std. ¼-Krugerrand	162 367 pieces
Std. 1/10-Krugerrand	852 501 pieces
800 Std. silver R1	14 135 pieces
2c, 1c & ½c bronze	258 270 405 pieces
Uncirculated sets (R1 - 1c)	26 000 pieces
Total	262 611 518 pieces
Total mass	1 003 067,480 kg

c) Blanks cleaned :

R1 Nickel	9 211 400 pieces
50c Nickel	8 631 700 pieces
20c Nickel	38 751 200 pieces
10c Nickel	17 445 400 pieces
5c Nickel	49 749 100 pieces
Total	123 788 800 pieces
Total mass	619 199,500 kg

3. COINAGE SECTION

a) The number of coins minted during the year amounted to 386 384 230 pieces as reflected in the following schedule :-

COIN PRODUCTION

Denomination	Bars cast kg	Bars rolled kg	Blanks coined kg	Good coins produced 1983 - 84 No. of pieces	Good coins produced 1982 - 1983 No. of pieces
Gold					
Krugerrand			647,8984	19 100	16 960
1/2-Krugerrand			230,7141	13 600	13 000
1/4-Krugerrand			101,7657	12 075	11 270
1/10-Krugerrand			41,3245	12 075	11 270
R2			116,6120	14 600	14 030
R1			58,3074	14 600	14 030
Total			1 196,6221	86 050	80 560
800 Std. Silver					
R1			212,744	14 135	12 000
Total			212,744	14 135	12 000
Nickel					
R1			110 445,885	9 211 361	5 124 413
50c			81 797,447	8 631 679	2 103 721
20c			232 567,301	38 751 163	7 543 012
10c			69 748,493	17 445 379	24 770 000
5c			124 975,327	49 749 030	51 873 692
Total			619 534,453	123 788 612	91 414 838
Bronze					
2c)			466 242,59	117 199 135	78 466 000
1c)	1 411 675,51	1 415 797,56	423 990,77	141 067 135	182 062 000
½c)			28,28	14 135	12 000
Total	1 411 675,51	1 415 797,56	890 261,64	258 280 405	260 540 000
Chamber of Mines					
Krugerrand			105 112,2045	3 100 655	2 630 006
1/2-Krugerrand			1 686,9029	99 405	262 668
1/4-Krugerrand			1 378,4950	162 367	635 898
1/10-Krugerrand			2 897,6509	852 501	813 539
Total	1 411 675,51	1 415 797,56	111 075,2533	4 214 928	4 342 111
GRAND TOTAL	1 411 675,51	1 415 797,56	1 622 280,7124	386 384 230	356 389 509

b) Proof Coins

The following proof coins were minted and delivered to the Mint Office :-

South Africa :

a)	Proof Krugerrand	19 100
b)	Proof ½-Krugerrand	13 600
c)	Proof ¼-Krugerrand	12 075
d)	Proof 1/10-Krugerrand	12 075
e)	Long proofsets (R2 & R1 gold R1 - ½c)	7 300
f)	Short proofsets (R1 - ½c)	6 835
g)	Gold proofsets (R2 & R1)	7 300

c) Uncirculated sets 13 000

4. DIE AND MEDAL SECTION

The following number of units were produced in this Section during the year :-

Coinage dies	7 979
Dies for medals	17
Medals	6 392
Badges	1 901
Gold articles	23
Silver articles	165
Sundry Die & Medal items	44 967
Medals engraved	5 290

Coinage dies produced are as follows :-

1/10-Krugerrand	100
¼-Krugerrand	60
½-Krugerrand	100
1 oz. Krugerrand	110
1 Rand gold	40
2 Rand gold	20
1 Rand nickel	472
1 Rand silver	25
50c	329
20c	1 244
10c	630
5c	2 573
2c	1 651
1c	615
½c	10
Total	7 979

The weight of steel used for the production of the dies was 3 019,939 kg.

The following new dies were produced :-

1) The South African Council for Professional Engineers:

Obverse : Emblem and lettering S.A.R.P.I. and S.A.C.P.E.
Machine cut by W.A. Rompelman.
Reverse : Standard Laurel Wreath.

Medals struck : Two 18ct gold and 25 silver 50 mm diameter.

2) S.A. Akademie vir Wetenskap & Kuns:

Eugéne Marais Medal :
Obverse : Effigy of the late Eugéne Marais and wording "Eugéne Marais Medal".
Modelled by the late L.P. de Lange.
Reverse : Standard Laurel Wreath.

Medals struck : 1 Silver gold plated 63 mm diameter.

3) National Party of Natal:

Owen Horwood Medal:
Obverse : Effigy of Owen Horwood.
Modelled by A.L. Sutherland.
Reverse : Powder horn and wording "Owen Horwood Medal".

Medals struck : 1 18ct gold 38 mm diameter.

4) Department of Foreign Affairs and Information:

Banda Medal:
Obverse : Effigy of Dr. H. Kamuzu Banda.
Modelled by A.L. Sutherland.
Reverse : Lettering : To H.E. Ngwazi Dr. H. Kamuzu Banda - Life President of the Republic of Malawi.

Medals struck : 2 18ct gold 38 mm diameter.

5) P.A.C.T.

Obverse : Emblem of P.A.C.T.
Machine cut by A.L. Sutherland.
Reverse : Lettering : Directorate Medal for Meritorius Service - Direktoraatsmedalje vir Voortreflike diens.

Medals struck : 20 silver 38 mm diameter.

6) University of Pretoria:

Obverse : Emblem of University Coat of Arms cut in two sizes, 63 mm and 50 mm diameter.

6.1 Chancellor's Medal:

Reverse : 63 mm Jacaranda Mimosifolia Wreath.
Hand cut into die by T. Bell.

6.2 Councillor's Medal:

Reverse : 50 mm Acacia Robusta Wreath.
Modelled by Miss S. Delport.

Medals struck : 2 silver gilt 63 mm and 1 silver gilt 50 mm diameter.

7) University of Stellenbosch:

Obverse : Emblem of University Coat of Arms with wording "University of Stellenbosch".
Modelled by T. Bell.
Reverse : Standard Laurel Wreath.

Medals struck : 6 silver and 30 bronze 50 mm diameter.

8) Tafelberg Uitgewers:

8.1 M.E.R. Medal:
Obverse : Effigy of the late M.E. Rothman with wording "M.E.R. Medal".
Modelled by A.L. Sutherland.
Reverse : Emblem of Tafelberg Uitgewers.
Machine cut by W.A. Rompelman.

Medals struck : 14 18ct gold, 38 mm diameter.

8.2 Phil Weber Medal:
Obverse : Effigy of Phil Weber with wording "Phil Weber Medal".
Modelled by A.L. Sutherland.
Reverse : Emblem of Tafelberg Uitgewers.

Medals struck : 1 18ct gold 38 mm diameter.

9) Chemical Institute:

Obverse : Chemical Institute Coat of Arms with wording "S.A. Institute of Chemical Engineers".
Modelled by T. Bell.
Reverse : Standard Laurel Wreath.

Medals struck : 6 18ct gold 38 mm diameter.

CHAPTER IV - ENGINEERING

This department is responsible for the maintenance of Mint equipment, buildings and services.

The following special tasks were undertaken :-

1. Rebuilding of the Gräbener MPU 150 Coin Press and the final withdrawal from production due to bad performance.

2. Installation and commissioning of a 640 ton Sach & Kieselbach Hydraulic Press.

3. Installation and commissioning of a new HME Coinmaster I Coin Press.

4. Commissioning of the Degussa Vacuum Hardening Furnace.

5. Installation of a CNC Milling Machine.

6. Development work :-

   6.1 Coin die manufacturing :-

   An experiment has been launched to manufacture coin dies more economically by means of the following process :

   The body is first turned to its final shape and then the face is pressed in while the die is clamped in a collar.

   Initial work done indicates that it would be worth while to persue.

   The work is continuing.

LABORATORY SERVICES

During the financial year a daily audit of shop floor production inspection was carried out and the following numbers were recorded :-

a)	Precious Metal Assays :	Gold	770
		Silver	186
b)	Non Precious Metal Assays :	Copper	653
		Zinc	264
		Tin	264
		Phosphorus	264
		Nickel	4

c) Physical tests for mass and dimensional parameters on coins produced :

Blanks :	Nickel	400
	Bronze	4 660
	Gold	60
Coins :	Gold	420
	Other	17 450
Dies :		7 595

The laboratory rendered outside services to the South African Police, Diamond & Gold Branch, the South African Bureau of Standards and the Department of Customs and Excise.

S.A. Police & Customs :	Criminal cases handled	400	(Total value R3 495 000)
	Exhibits assayed	626	
	State gold prepared	156	
S.A.B.S. :	Assays	9	

The above services showed an increase of 159% over the previous financial year.