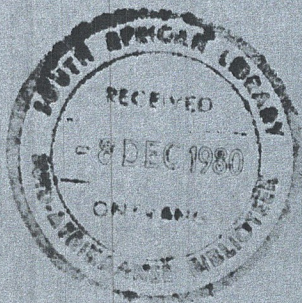




ANNUAL REPORT
OF THE DIRECTOR OF THE SOUTH AFRICAN MINT
FOR THE YEAR 1 APRIL 1979 TO 31 MARCH 1980

REPUBLIC OF SOUTH AFRICA

SOUTH AFRICAN MINT

The Director General: Finance
Union Buildings
PRETORIA.

ANNUAL REPORT OF THE DIRECTOR OF
THE SOUTH AFRICAN MINT FOR 1979/80.

I wish to submit the following report on the activities of the South African Mint during the financial year 1st April, 1979 to 31st March, 1980.

INTRODUCTION

Coinage production for the year amounted to 169 million coins which is 16,7% less than the 203 million for the previous year. This reduction is mainly the result of the fact that the large number of R1 nickel coins required for the introduction of this new coin is now sufficient to satisfy the demand and only such coins as are required for normal increase in demand had to be minted.

The considerable stocks of coins held by the commercial banks and the Mint as a result of overordering during previous years were such that production remained on a lower level.

Sales of circulation coins amounted to R4 333 028 against R23 449 205 for the previous year. The considerable decrease is mainly the result of the lower sales of nickel R1 coins - 22 million against 7 million.

The demand for collectors' coins remained high particularly for gold coins and it was necessary to raise the limit of 10 000 proof Krugerrands to 11 800. The total sales of proof and collectors' coins amounted to R7,9 million yielding a profit of R3,4 million as against R1,8 million during the previous year.

There was a decrease in the number of Krugerrands produced for the Chamber of Mines of S.A. from 5,2 million the previous year to 4,5 million.

A considerable quantity of silver was sold from stock for industrial use. This was silver recovered from old coins and coinage metal. This sale was profitable in view of the higher ruling market price of silver and was mainly responsible for the fact that the total sales of miscellaneous Mint products amounted to R52,5 million as against R22,8 million for the previous year. This represents a profit of R6,2 million for the year.

Notwithstanding the decreased sales of circulation coinage the total sales of all Mint products amounted to R64,8 million for the year yielding a nett profit of R12,3 million.

The financial statements and the activities of the various departments are set out in the following chapters.

A handwritten signature in dark ink, appearing to read 'J.J. Groenewald', with a stylized initial 'J' and a trailing flourish.

J.J. GROENEWALD
DIRECTOR: S.A. MINT

CHAPTER I - FINANCIAL

COMBINED MANUFACTURING, TRADING AND PROFIT AND LOSS ACCOUNT
FOR THE YEAR ENDED 31 MARCH 1980.

<u>1978/79</u>		<u>1979/80</u>
R		R
	<u>EXPENDITURE</u>	
101 080	Work in progress 1 April 1979	252 656
5 319 296	Coin stocks on hand 1 April 1979 at cost	6 626 423
	Operating costs for year:	54 446 005
27 945 860	Bullion	53 133 075
1 273 772	Conversion costs	<u>1 312 930</u>
321 106	Sales Expenses	341 069
<u>34 961 114</u>		<u>61 666 153</u>
	<u>Less:</u>	
-	Value of new coin issued in replacement	
6 626 423	of old coin withdrawn from circulation	335
252 656	Coin stocks 31 March 1980 at cost	8 929 731
	Work in progress 31 March 1980	279 099
<u>28 082 035</u>		<u>52 456 988</u>
	<u>RECEIPTS</u>	
51 755 908	Sales	64 802 808
	<u>Less:</u>	
28 082 035	Cost of sales	52 456 988
<u>23 673 873</u>	Nett profit for the year	<u>12 345 820</u>

BALANCE SHEET AS AT 31 MARCH, 1980

31 March 1979

R

5 028 911
172 273
 5 201 184
233 563
 4 967 621
 2 014 004
569 483
 4 732 551
 18 066 684

304 080
30 654 423

4 167 124
23 866
 4 190 990
781 672
 3 409 318
 4 499 282
148 407
 4 647 689
 3 107 386

1 540 303
18 000
 110 833
124 488

10 445 773
12 416 771
1 587 588
 252 656
 66 005
 3 868
 678 820

30 654 423

LIABILITIES

MINT CAPITAL

Balance 1 April 1979
 Additions during the year

Less sales, depreciation and write offs
 Balance 31 March 1979

OPERATING CAPITAL

SUNDRY CREDITORS

S.A. RESERVE BANK for gold deposited
THE TREASURY - advances for purchases
 of bullion

ADVANCE PAYMENTS by customers

ASSETS

Buildings at cost
 Additions during the year

Less accumulated depreciation
 Value 31 March 1980

PLANT AND EQUIPMENT at cost

Additions during the year

Less sales, accumulated depreciation
 and write-offs

Value at 31 March 1980

LAND

STORES at cost

SUNDRY DEBTORS

BULLION (including bullion in coin stocks)

Gold

Other

COIN STOCKS (excluding bullion)

WORK IN PROGRESS at cost

OPERATING SUSPENSE ACCOUNTS

MINT MUSEUM STOCK at cost

CASH with Paymaster-General

31 March 1980

R

4 967 621
7 282
 4 974 903
242 918

4 190 990
-
 4 190 990
815 765

4 647 689
7 282
 4 654 971
3 316 211

26 030 482
13 168 031

4 731 985
 2 426 139
 1 782 518
 10 214 556
 28 990 000

82 192
48 227 390

3 375 225

1 338 760
 18 000
 74 127
 447 660
 39 198 513

1 975 730
 279 099
 93 315
 3 868
 1 423 093

48 227 390

1. Comparative Statement of Sales

	<u>1979/80</u>	<u>1978/79</u>	<u>1977/78</u>
	R	R	R
a) Circulation coin	4 333 028	23 449 205	25 656 877
b) Proof and collectors' coin	7 965 134	5 460 902	4 273 837
c) Gold and silver for industrial purposes	45 785 083	22 155 462	19 809 999
d) Die and Medal products, Laboratory and Sundry Services	6 177 728	177 697	140 228
e) Manufacture of gold coins for Chamber of Mines	521 316	495 048	420 322
f) Manufacture of coin for Foreign Governments	-	-	529 739
g) Rand Refinery Copper	20 519	17 594	15 143
Total	<u>64 802 808</u>	<u>51 755 908</u>	<u>50 846 145</u>

The appreciable increase in sales during 1979/80 in respect of item 1 d) is due to a non-recurrent transaction involving the sale of old silver at a very advantageous price. The reduced sales of circulation coin reflect the lower demand for coins in general and the small demand for the R1 nickel coins after the initial introductory demand was satisfied.

2. Comparative Statement of Conversion and Sales Costs

	<u>1979/80</u>	<u>1978/79</u>	<u>1977/78</u>
	R	R	R
Conversion costs	1 312 741	1 273 772	1 074 559
Selling costs	341 069	321 106	380 563
Total	<u>1 653 810</u>	<u>1 594 878</u>	<u>1 455 122</u>

3. Operating Results

	<u>1979/80</u>	<u>1978/79</u>	<u>1977/78</u>
	R	R	R
a) <u>Combined</u>			
Sales	64 802 808	51 755 908	50 846 145
Nett profit	12 345 820	23 673 873	26 421 147
% Profit on sales	19,05	45,74	51,96
b) <u>Circulation coin</u>			
Sales	4 333 028	23 449 205	25 656 877
Nett profit	2 691 997	21 295 486	22 482 653
% Profit on sales	62,13	90,81	87,63
c) <u>Proof and collectors' coin</u>			
Sales	7 965 134	5 460 902	4 273 837
Nett profit	3 418 115	1 881 283	3 477 865
% Profit on sales	42,91	34,45	81,38
d) <u>Sundry accounts</u>			
Sales	52 504 646	22 845 801	20 915 431
Nett profit	6 235 708	497 104	482 318
% Profit on sales	11,88	2,18	2,31

The percentage profit under 3 d) above is the direct result of the sale of old silver from stock at the higher ruling price of the metal. The relatively high profit on circulation coin could not be maintained mainly as a result of the lower demand for the R1 nickel coin.

4. Comparative Statement of Capital Additions

	<u>1979/80</u>	<u>1978/79</u>	<u>1977/78</u>
	R	R	R
Buildings	-	23 866	155 505
Machinery and equipment	<u>7 282</u>	<u>148 407</u>	<u>542 578</u>
	<u>7 282</u>	<u>172 273</u>	<u>698 083</u>

5. Circulation Coin Manufactured for Foreign Governments

	<u>1979/80</u>	<u>1978/79</u>	<u>1977/78</u>
	R	R	R
Face value	-	-	1 183 400

No orders were received for the supply of coins to other countries.

6. Gold Coin Delivered to the Chamber of Mines

	<u>1979/80</u>	<u>Number of pieces</u> <u>1978/79</u>	<u>1977/78</u>
Krugerrand	<u>4 590 079</u>	<u>5 262 480</u>	<u>4 207 219</u>
R2 gold	422 167	200 000	-
R1 gold	<u>200</u>	<u>-</u>	<u>-</u>
	<u>5 012 446</u>	<u>5 462 480</u>	<u>4 207 219</u>

7. Comparative Statement of Stores Issued

	<u>1979/80</u>	<u>1978/79</u>	<u>1977/78</u>
	R	R	R
Direct purchases	85 232	86 207	98 959
Issued ex stores	<u>155 912</u>	<u>148 789</u>	<u>116 652</u>
	<u>241 144</u>	<u>234 996</u>	<u>215 611</u>

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 R357,02 per fine ounce, compared with R176,75 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 over a period of a month, and bimonthly from 1st January, 1980, as adjusted and approved by the South African Reserve Bank, plus a commission of 1%.

A total fine mass of 4 316,09 kg of gold was sold during the year whereas 3 613,35 kg was sold during the previous year.

Gold Coins:

A total of 40 000 gold proof coins (20 000 of R2 and 20 000 of R1) was struck for sale in 10 000 proofsets of 10 coins (R2 - $\frac{1}{2}$ c) and 10 000 proofsets of 2 coins (R2 - R1).

In addition to the above 12 000 prooflike R2 coins, 14 400 prooflike R1 coins and 11 800 proof Krugerrand coins were minted for sale as well as 4 590 079 Krugerrand coins, 422 167 R2 coins and 200 R1 coins for the Chamber of Mines of South Africa. A further 18 100 uncirculated R1 coins were minted for members of the S.A. Manufacturing Jeweller's Association.

Gold transactions:

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

	<u>1979/80</u>	<u>1978/79</u>
	kg	kg
Received from the Rand Refinery Ltd.	4 247,74	3 583,61
Granulated and dental gold sold	4 316,09	3 613,35
Medals, wire and sheet gold sold	15,79	15,23
Mass of R2, R1, Krugerrand	793,77	735,20
Transferred to Die & Medal Section	-	12,70
Transferred to Coinage Section ex Rand Refinery	880,67	830,88
	<u>10 254,06</u>	<u>8 790,97</u>

2. SILVER

Silver transactions by mass

Bought from Rand Refinery Ltd.	12 846,87	11 472,90
Granules and strip sold	12 721,80	11 269,84
Medals & other items sold	168,17	200,83
Coin received from Coinage Section	180,17	204,23
Issues for various alloys	124,82	137,41
	<u>26 041,83</u>	<u>23 285,21</u>

Purchase of Silver

12 846,87 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 R27,76 per fine ounce compared with R5,24 in the previous year. The total fine mass sold during the year was 12 721,80 kg whereas 11 269,84 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

	<u>1979/80</u>	<u>1978/79</u>
Blanks purchased for coinage	-	473 865,50
Mass of coins received	244 327,51	352 322,50
Transferred to Die & Medal Section	24,41	14,17
	<u>244 351,92</u>	<u>826 202,17</u>

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

	<u>kg.</u>
Bronze issued to Coinage Section	489 842,24
Bronze coin received from Coinage Section	406 381,21
Metals for various alloys	103,79
Copper issued to Rand Refinery Ltd.	14 059,00
	<u>910 386,24</u>

Withdrawal of bronze coin

During the year coin to the value of R129,34 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	
	1979/80	1978/79	1979/80	1978/79
<u>Gold</u>				
2 Rand	64 000,00	60 400,00	63 530,00	60 972,00
1 Rand	52 500,00	55 351,00	52 413,00	53 740,00
<u>Silver</u>				
1 Rand	15 000,00	17 000,00	620 275,00	23 066,00
<u>Nickel</u>				
1 Rand	8 350 059,00	13 466 015,00	676 442,00	21 911 015,00
50c	2 312 411,00	1 424 014,50	542 548,00	357 005,50
20c	1 492 253,40	2 149 107,80	602 619,20	260 802,20
10c	1 007 826,10	1 220 600,00	318 309,60	83 401,10
5c	831 149,80	1 013 174,40	839 654,80	131 700,55
<u>Bronze</u>				
2c	1 064 680,00	552 020,00	767 081,92	390 680,22
1c	640 950,00	1 006 870,00	624 330,96	339 940,11
$\frac{1}{2}$ c	175,00	50 165,00	149,71 $\frac{1}{2}$	11 453,62
	15 831 004,30	21 014 717,70	5 107 354,19 $\frac{1}{2}$	23 623 776,30

6. PROOFSETS

The Mint produced 10 000 ten coin proofsets (R2 - $\frac{1}{2}$ c), 10 000 gold proofsets (R2 - R1) and 5 000 eight coin proofsets (R1 - $\frac{1}{2}$ c). 11 800 Proof quality Krugerrands were minted.

7. COINS MANUFACTURED FOR OTHER COUNTRIES

Nil

8. PACKING AND DESPATCH SECTION

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

	1979/80	1978/79
Parcels despatched by Post	25 233	18 658
Parcels other than coin, despatched by rail	6 (280 kg)	11 (230 kg)
Boxes of coin despatched by rail	2 730 (132 850 kg)	2 412 (157 434 kg)
Boxes of Krugerrands collected by Rand Refinery	9 181 (165 242,63 kg)	10 525 (189 448,27 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	1980		1979	
	Posts	Personnel	Posts	Personnel
a. Administrative	9	9	9	8
b. Professional	4	2	3	2
c. Technical	13	10	14	10
d. Clerical	16	4	16	6
e. General Divisions A & B excluding items (g) to (j)	31	18	31	17
f. Temporary employees against posts under items (a) to (e)	-	12	-	14
g. Senior Special Craftsman	5	2	5	2
h. Special Craftsman	15	6	15	10
i. Foreman	5	2	5	2
j. Male Operators	22	14	22	17
k. Apprentices	4	2	4	2
l. Female Operators and Supervisors	49	39	47	37
m. Guards & Bossboys	17	16	17	17
n. Messengers, Cleaners and Labourers	128	109	128	109
Total	318	245	316	253

There was a decrease of 8 in the number of persons employed while the number of posts increased by 2.

2. PERSONNEL TURNOVER

Appointments	72
Resignations	79

3. POST STRUCTURAL CHANGES

The number of authorised posts increased by 2.

4. PERSONNEL CHANGES

- a) The following employees retired on pension:-
 - i) Mr. C.J. du Plessis, Senior Special Craftsman, on 1st July 1979 after 43 years of service.
 - ii) Mr. Moses Buthelezi, Guard, on 1st June 1979 after 24 years of service.

- b) Two workers died during the year:-
 - i) Mrs. A.C. van Dyk, on 15th February 1980 after 3 years of service.
 - ii) Mr. Johannes Soetloe, on 17th June 1979 after 11 years of service.
- c) The following officers and employees were appointed to other Ranks:-
 - i) Mr. W.A. Rompelman, Special Craftsman to Die Sinker and Medallist, with effect from 1st April 1979.
 - ii) Miss A.A. Cooper, TN6 Machine Operator to TN5 Special Operator, with effect from 1st October 1979.
 - iii) Mrs. S.E. Steytler, TN6 Machine Operator to TN5 Special Operator, with effect from 1st February, 1980.
- d) The following officers were promoted:-
 - i) Mr. D.F. van der Merwe, Senior Security Officer to Chief Security Officer, with effect from 1st July 1979.
 - ii) Mr. W.J. Douglas, Chief Professional Officer to the Progression Scale with effect from 1st April 1979.
 - iii) Mr. A. Fedder, Senior Special Craftsman to a personal salary scale with effect from 1st October 1979.
 - iv) Mr. W.J. van Aswegen, Senior Administrative Assistant to Administrative Officer with effect from 1st October 1979.
- e) Merit Advancement was awarded to:-

Miss M.E.F. Lourens and Mrs. G.H. Grobler.
- f) The following officers were transferred from other Institutions:-
 - i) Mr. D.F. Greeff, Technical Assistant from the Council for Scientific and Industrial Research with effect from 1st May 1979.
 - ii) Mrs. E. van Rooyen, Liaison Officer, from the Council for Scientific and Industrial Research with effect from 1st March 1980.

C. MINT MUSEUM AND LIBRARY

A. GIFTS

1. Gifts received:

Royal Mint, Llantrisant
Suomen Rahapaja, Finland

Royal Canadian Mint
Reserve Bank of Zimbabwe
Fabrica Nacional De Monedas
Y Timbre, Spain
Institute Poligrafico e Zecca
Della Strato, Italy

Set of 1979 United Kingdom proof coins
5 Mark coin
25 Mark silver commemorative coin
Silver dollar dated 1979
\$2 and \$10 Zimbabwe Banknotes
One set of coins dated 1978

Publication "Una Storia Fatta
Solo Di Oro" by Orsino Orsini.

2. Gifts presented:

Overseas Mints and
related Institutions

Banco Central Del Ecuador

Ionian and Popular Bank
of Greece

28 Uncirculated coin-sets (R1 - $\frac{1}{2}$ c) with
obverse design of the late State President,
Dr. N. Diederichs.

One 1978 and one 1979 uncirculated coin-set
(R1 - $\frac{1}{2}$ c) for a numismatic exhibition.

One 1979 Uncirculated coin-set for the
Museum on the Island of Corfu.

B. VISITORS

The new S.A. Mint was officially opened on the 22nd of November, 1978, and visitors were permitted as from the beginning of 1979. 2 926 Visitors were received during the fiscal year.

C. STAFF CHANGES

The Liaison Officer, Mrs. E.D. Rossouw, resigned on the 30th June, 1979. Mrs. E. van Rooyen was transferred from the C.S.I.R. and assumed duty as Liaison Officer on the 1st March 1980.

CHAPTER III - PRODUCTION

1. MELTING SECTION

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

Gold

Fine gold granules	692,488 kg
22ct Gold granules	494,391 kg
18ct Gold granules	353,058 kg
9ct Gold granules	134,519 kg
18ct Gold for Die & Medal	19,375 kg
9ct Gold for Die & Medal	20,457 kg

Total 1 714,288 kg

Silver

925 Std. silver for Die & Medal	373,120 kg
Fine silver for Die & Medal	35,520 kg
Fine silver granules	12 746,176 kg
800 Std. silver for R1	3 978 219 kg

Total 17 133,035 kg

Bronze

Coinage bronze	730 215,000 kg
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Total 730 215,000 kg

2. ROLLING SECTION

The production in this section was as follows:-

a) Bars Rolled

800 Std. silver	5 731,025 kg
Coinage bronze	708 158,360 kg
9ct Gold for Die & Medal	37,658 kg
18ct Gold for Die & Medal	40,720 kg
925 Std. silver for Die & Medal	587,690 kg
Fine silver for Die & Medal	41,035 kg
Bronze for Die & Medal	20,000 kg

Total 714 616,488 kg

b) Blanks annealed and cleaned

Krugerrand proof	11,800 pieces
Std. gold Krugerrand	4 589,286 pieces
Std. gold R2	422,167 pieces
Proof gold R2	32,000 pieces
Proof gold R1	55,400 pieces
800 Std. silver R1	15,000 pieces
2c, 1c bronze	105 000,000 pieces
Uncirculated sets (R1 - $\frac{1}{2}$ c)	160,000 pieces

Total 110 285,653 pieces

Total Mass 526 026,000 kg

c) Blanks cleaned

R1 nickel	8 400 000 pieces
50c nickel	4 700 000 pieces
20c nickel	7 500 000 pieces
10c nickel	1 010 000 pieces
5c nickel	<u>1 700 000 pieces</u>

Total 23 310 000 pieces

Total Mass 198 740 000 kg

3. COINAGE SECTION

- a) The number of coins minted during the year amounted to 169 625 151 pieces as reflected in the following schedule:-

COIN PRODUCTION

Denominations	Bars Cast kg	Bars Rolled kg	Blanks Coined kg	Good Coin Produced	
				1979/80 No. of pieces	1978/79 No. of pieces
<u>Gold</u>					
Krugerrand			400,6931	11 800	10 000
R2			255,5963	32 000	30 200
R1			221,2162	52 500	55 351
TOTAL			877,5056	96 300	95 551
<u>800 Std. Silver</u>					
R1	3 978,2190	5 731,0250	225,1450	15 000	17 000
TOTAL	3 978,2190	5 731,0250	225,1450	15 000	17 000
<u>Nickel</u>					
R1			100 200,708	8 350 059	13 466 015
50c			43 935,809	4 624 822	2 848 029
20c			44 767,602	7 461 267	10 745 539
10c			40 313,444	10 078 261	12 206 000
5c			41 557 490	16 622 996	20 263 488
TOTAL			270 775,053	47 137 405	59 529 071
<u>Bronze</u>					
2c			21 293,60	53 234 000	27 601 000
1c	730 215,00	708 158,36	19 228,50	64 095 000	100 687 000
1/2c			70,00	35 000	10 033 000
TOTAL	730 215,00	708 158,36	40 592,10	117 364 000	138 321 000
<u>Chamber of Mines</u>					
Krugerrand			155 576,7954	4 590 079	5 262 480
R2			3 371,7484	422 167	200 000
R1			-	200	-
TOTAL			158 948,5438	5 012 446	5 462 480
GRAND TOTAL			471 418,3474	169 625 151	203 425 102

b) Proof Coins

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

South African:

a) Gold proofsets (R2 - R1)	10 000 sets
b) Long proofsets (R2 - R1 gold R1 - $\frac{1}{2}$ c)	10 000 sets
c) Short sets (R1 - $\frac{1}{2}$ c)	5 000 sets
d) Proof Krugerrand	11 800 pieces

c) Uncirculated and prooflike pieces and sets:

a) Prooflike R2 gold	12 000 pieces
b) Uncirculated and prooflike R1 gold	32 500 pieces
c) Uncirculated (R1 - $\frac{1}{2}$ c)	20 000 sets

4. DIE AND MEDAL SECTION

The following number of units produced in this section during the year amounted to:-

Coinage dies	5 576
Dies for medals	26
Medals and badges	21 199
Gold jeweller's articles	43
Silver jeweller's articles	4 093
Sundries Die and Medal items	21 905
Articles engraved (hand)	859
S.A. Police, S.A. Defence, Prisons and	
S.A. Railway Police medals stamped	4 604
Medals numbered by machine	9 049

The following medals were produced:-

1. Venda Independance Medal:

38 mm Diameter medals minted in 18ct gold, silver and bronze.

Two hundred numbered sets plus twenty 18ct gold were struck.

Obverse: Coat of Arms of the Venda Government.

Modelled by A. Sutherland.

Reverse: Included inside a laurel wreath the wording:

"Riphabuliki Ya Venda" with date 13.9.79.

2. Public Service Long Service Lapel Buttons:

Protea emblem minted in 18ct gold, silver. Modelled by G. Blything.

3. Post Office Long Service Lapel Buttons:

Emblem of the Post Office minted in gold and silver.

Modelled by G. Blything.

4. S.A. Academy for Science and Art:

38 mm Diameter medal struck in 18ct gold.

Obverse: Profile of the late Minister N.C. Havenga. Wording "Havenga Medalje". Modelled by L.P. de Lange.

Reverse: Standard laurel wreath reverse.

5. University of Witwatersrand:

Obverse: Revised Coat of Arms of the University. Modelled by L.P. de Lange.

Reverse: Standard

6. Tafelberg Uitgewers Beperk:

Obverse: 38 mm Diameter medals struck in 18ct gold depicting the profiles of the late W.A. Hofmeyr and H. Recht Malan. Modelled by L.P. de Lange.

Reverse: Rising Sun with the wording: "Het Daghet Overal". Modelled by A. Sutherland.

7. The S.A. Academy for the Advancement of Science:

New obverse and reverse lettering.

8. S.A. Railways Medal: (S.A. Academy for Science and Art)

One 38 mm diameter medal minted in 18ct gold.

Obverse: S.A. Railways emblem. Modelled by A. Sutherland.

Reverse: Standard reverse of the above organisation.

9. Bybelkor Wellington:

One 18ct gold medal struck, 38 mm diameter.

Obverse: Profile of the late Rev. Andrew Murray. Wording "Die Andrew Murray prys". Modelled by L.P. de Lange.

Reverse: Laurel wreath.

10. Johannesburg City Council Medal:

38 mm Diameter medal.

Obverse: Standard emblem of Johannesburg.

Reverse: Laurel wreath with the wording: "Toegeken aan - Awarded to For Bravery - Vir Dapperheid".

11. Secretary for External Affairs:

One 38 mm diameter medal minted in 18ct gold.

Obverse: Republic of S.A. Coat of Arms.

Reverse: Wording: Presented to H.E. Y.S. Sun, Premier of the Republic of China. By the Hon. P.W. Botha. Prime Minister of the Rep. of S.A., Cape Town, March 1980.

CHAPTER IV - ENGINEERING

The function of the section is the installation and maintenance of machinery and plant in all sections of the Mint as well as the manufacture of tooling for production requirements.

In the execution of the section's function the following special tasks were performed:-

1. 7 M.P.200 Gräbener coining presses were overhauled with particular attention to early wearing parts such as tables subject to wear caused by sliding feed mechanisms and the elimination of undue clearance in the blank feed systems by renewal of worn slides, pins, bushes, etc.
2. Two large pressure vessels used in conjunction with the air conditioning system were inspected internally and externally and subjected to hydraulic test in accordance with requirements under the Factories, Machinery and Building Work Act, 1941, as amended.
3. The two process water tanks were emptied, cleaned internally and refilled with freshly treated water. There is still evidence of "bentonite" deposits in the tanks.
4. One Schuler blank rimming machine was completely overhauled, feeder chutes re-built and rimming tools manufactured for processing of the new smaller Kruggerand coins envisaged.
5. Development work was undertaken towards producing collars in Tungsten Carbide for milled edge coins by the electric discharge machining process.
6. The Wertli horizontal continuous casting plant for coinage bronze was completely overhauled and made ready for the next casting programme.
7. One new coin counter was manufactured and placed in use.
8. During the December shut-down period all broken and damaged floor tiles in production sections were renewed and re-painting of the Mint roof was proceeded with.

CHAPTER V - LABORATORY SERVICES

This section is responsible for process quality control and the assaying of metals for the manufacture of coins and medals.

Assaying is carried out for the South African Police, Diamond and Gold Branch, in connection with the combatting of illicit precious metal dealings, fraud and counterfeit coins. In this connection Laboratory staff was subpoenaed to give evidence in two court cases during the year.

The S.A. Bureau of Standards submits various gold and silver samples for assay in connection with the use of the Bureau hallmark on gold and silver articles manufactured in the jewellery trade.

Assaying of minerals is also carried out for bona-fide prospectors.

The following work was carried out in the section during the year:-

1.

a) Precious Metal Assays:

Gold: Mint Office	939 Samples	
S.A. Bureau of Standards	44 Samples	983
Silver: Mint Office	247 Samples	
S.A. Bureau of Standards	111 Samples	358
	Total :	1341

b) Other Metal Assays:

Copper	556 Samples
Zinc	111 "
Tin	111 "
Phosphorus	111 "
Nickel	5 "

c) Illicit Gold Trade: S.A. Police

248 Exhibits in 136 cases were assayed.

In addition 75 samples of gold were prepared and assayed for trap purposes.

2. General Physical Testing.

Nickel coin blanks	500
Bronze coin blanks	13 360
Krugerrand blanks	1 800
Manufactured coins	19 750
Manufactured Krugerrand coins	4 914
Die inspection	5 796

3. Prospector's Samples

7 Samples were submitted during the year.