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ANNUAL REPORT
OF THE DIRECTOR OF THE SOUTH AFRICAN MINT
FOR THE YEAR 1ST APRIL, 1972 TO 31ST MARCH, 1973.

REPUBLIC OF SOUTH AFRICA

SOUTH AFRICAN MINT

The Secretary for Finance,
Union Buildings,
PRETORIA.

ANNUAL REPORT OF THE DIRECTOR OF THE SOUTH AFRICAN MINT FOR 1972/73

I wish to submit the following report on the activities of the South African Mint during the financial year 1st April, 1972 to 31st March, 1973.

INTRODUCTION

During the year there was a marked decrease in the demand for coins, the production for the year being 87 million as compared to 112 million the previous year.

There was also a relatively greater demand for the low value bronze coins than for the higher denomination nickel coins.

The result was a decrease in the revenue from circulation coinage from R4 526 250 during the previous year to R2 141 300.

The increase in the price of gold on the free market gave rise to considerable interest in gold coins and those collector's sets containing proof gold coins. The sales of proof and collector's coins increased to R1 311 295 from the previous year's R553 889.

Sales of gold and silver to industry showed a considerable increase from R3 425 922 to R5 895 358. The profit to the Mint on the sale of industrial gold is however very small.

In these circumstances and despite the fact that total sales increased from R8 821 888 to R9 509 286 the nett profit for the year was R1 995 259 which is a decrease of 48,89%.

The modernisation programme continued as planned and it was possible to occupy the new administration building thus providing the much needed permanent accommodation for the administrative, accounts and security sections. It was accordingly possible to vacate the area occupied by the rolling and minting sections so as to allow for further rebuilding which has now entered the final phase.

The activities of the various departments are as set out in the following chapters.

CHAPTER 1 - FINANCIAL

COMBINED MANUFACTURING, TRADING AND PROFIT AND LOSS ACCOUNT FOR
THE YEAR ENDED 31 MARCH, 1973.

<u>1971/72</u>			<u>1972/73</u>
R	<u>EXPENDITURE:</u>	R	R
8 685	Work in progress 1st April, 1972		13 084
1 561 718	Coin stocks on hand 1st April, 1972 at cost		1 880 022
5 104 546	Operating costs for year:-		7 303 926
	Bullion	6 760 396	
	Conversion Costs	<u>543 530</u>	
77 847	Sales Expenses		72 758
3 355	Credit allowed in the manufacture of coin for foreign governments		2 791
76 264	Abnormal operating costs written off		<u>52 193</u>
<u>6 832 415</u>			<u>9 324 774</u>
	<u>LESS:</u>		
	Value of new coin issued in replace- ment of old coin withdrawn from circulation	60 519	
11 942	Coin stocks 31st March, 1972 at cost	1 659 281	
1 880 022	Work in progress 31st March, 1972	<u>21 134</u>	<u>1 740 934</u>
<u>13 085</u>	Value of Sales		<u>7 583 840</u>
<u>4 927 366</u>			
	<u>RECEIPTS:</u>		
8 821 888	Sales		9 509 286
	Value of bullion taken on charge ex recoinage accounts		<u>69 813</u>
9 000			9 579 099
8 830 888	Less cost of sales		<u>7 583 840</u>
<u>4 927 366</u>	Nett profit for the year		<u>1 995 259</u>
<u>3 903 522</u>			

BALANCE SHEET AS AT 31st MARCH, 1973.

31st March, 1972

R	<u>LIABILITIES</u>
	<u>MINT CAPITAL</u>
1 205 492	Balance 1st April, 1972
2 378 792	Additions during the year
3 584 284	
-	Less adjustment in respect of 1971/72
3 584 284	
68 790	Less sales, depreciation, and write-offs
3 515 494	Balance 31 March, 1973
412 589	<u>OPERATING CAPITAL</u>
297 015	<u>SUNDRY CREDITORS</u>
	<u>RAND REFINERY LTD.</u> , - for gold deposited at statutory price
1 384 762	<u>THE TREASURY</u> - advances for purchases of bullion
3 075 000	<u>ADVANCE PAYMENTS</u> by customers
115 239	
8 800 099	

ASSETS

1 259 962	<u>BUILDINGS</u> at cost
2 290 833	Additions during the year
3 550 795	
-	Less adjustment in respect of 1971/72
3 550 795	
578 555	Less accumulated depreciation
2 972 240	Value 31 March, 1973
2 827 977	<u>PLANT AND EQUIPMENT</u> at cost
87 959	Additions during the year
2 915 936	
	Less sales, accumulated depreciation and write-offs
2 390 682	Value 31 March, 1973
525 254	
18 000	<u>LAND</u>
74 349	<u>STORES</u> at cost
158 067	<u>SUNDRY DEBTORS</u>
	<u>BULLION</u> (including bullion in coin stocks)
1 311 892	Gold
3 005 377	Other
322 512	<u>COIN STOCKS</u> (excluding bullion)
3 838	<u>WORK IN PROGRESS</u> at cost
10 481	<u>OPERATING SUSPENSE ACCOUNTS</u>
1 409	<u>MINT MUSEUM STOCK</u> at cost
396 680	<u>CASH</u> with Paymaster General
8 800 099	

31st March, 1973

R	R
3 584 284	
515 763	
4 100 047	
1 006 546	
3 093 501	
165 683	
	2 927 818
	542 427
	590 717
	1 588 390
	3 215 000
	622 479
	9 486 831
3 550 795	
499 295	
4 050 090	
1 006 546	
3 043 544	
608 277	
	2 435 267
2 915 936	
16 468	
2 932 404	
2 457 853	
	474 551
	18 000
	88 305
	62 820
	4 562 748
1 289 194	
3 273 554	
	414 816
	21 134
	16 307
	1 865
	1 391 018
	9 486 831

1. Sales as reflected in the various operating, and trading accounts for the year are set out below and compared with the two previous years :

	<u>1972/73</u>	<u>1971/72</u>	<u>1970/71</u>
	R	R	R
Circulation Coin	2 141 300	4 526 250	3 510 241
Proof and Collectors' Coin	1 311 295	553 889	544 920
Gold and silver	5 895 358	3 425 922	3 149 842
Die and medal products and laboratory services	79 982	114 649	66 815
Manufacture of gold coin for the Chamber of Mines	68 537	48 634	45 476
Manufacture of coin for foreign governments	12 814	152 544	88 847
TOTALS	<u>9 509 286</u>	<u>8 821 888</u>	<u>7 406 141</u>

2. Operating costs decreased appreciably during 1972/73 in comparison with 1971/72 and 1970/71 mainly as a result of the exclusion of interest on capital items as a charge against operating costs.

	<u>1970/71</u>	<u>1971/72</u>	<u>1972/73</u>
	R	R	R
Conversion costs	542 508	556 828	508 772
Selling costs	56 417	77 847	72 758
	<u>598 925</u>	<u>634 675</u>	<u>581 530</u>

3. The nett profit of R1 995 259 for 1972/73 is approximately 48,89% lower than that for 1971/72 (R3 903 522). The greatest contributory cause is the drop in sales of circulation coin from R4 526 250 in 1971/72 to R2 141 300 in 1972/73.
4. Although total sales in 1972/73 increased by R687 398 to R9 509 286 over that of 1971/72 nett aggregate profits could not be maintained. Reference to paragraph 1 above, will reveal an increase of R2 469 436 in sales of gold and silver which nearly off-sets the decrease in sales of circulation coin. It must however, be observed that the percentage nett profit on gold and silver sales is merely $\frac{1}{2}\%$ compared with 75% and more in the case of circulation coin, depending on the demand for nickel coin which yield a relatively high profit.
5. Nett percentage profits in 1972/73 varied considerably from those of 1971/72 and 1970/71 with the exception of circulation coin which seem to average out at about 75% of sales.

COMBINED OPERATING RESULTS (INCLUDING ABNORMAL COSTS)

	<u>1970/71</u>	<u>1971/72</u>	<u>1972/73</u>
	R	R	R
Sales	7 406 141	8 821 888	9 509 286
Nett profit	3 142 605	3 903 522	1 995 259
% Profit on Sales	42,43	44,25	20,98

CIRCULATION COIN (EXCLUDING ABNORMAL COSTS)

	<u>1970/71</u>	<u>1971/72</u>	<u>1972/73</u>
	R	R	R
Sales	3 510 241	4 526 250	2 141 300
Nett Profit	2 695 564	3 641 976	1 587 254
% Profit on Sales	76,79	80,48	74,13

PROOF AND COLLECTOR'S COIN (EXCLUDING ABNORMAL COSTS)

	<u>1970/71</u>	<u>1971/72</u>	<u>1972/73</u>
	R	R	R
Sales	544 921	553 889	1 311 295
Nett Profit	199 282	257 496	345 757
% Profit on Sales	36,57	46,49	26,37

6. Additions to the new buildings during 1972/73 amounted to R499 295 in comparison with R1 284 289 in 1971/72. The latter is the correct figure; as the previous amount of R2 290 833 was inadvertently overstated by the Department of Public Works to the extent of R1 006 546. The figures for plant and equipment were R16 468 and R87 959 respectively. Expenditure on these items was mainly in connection with the modernisation programme still in progress.
7. Circulation coins with a face value of R10 000 were manufactured for foreign governments during 1972/73. The figures for 1971/72 and 1970/71 were R160 000 and R75 620 respectively.
8. The following figures represent the production of gold coins for the Chamber of Mines for the last 3 years.

	<u>Krugerrand</u>	<u>R2-Gold</u>	<u>R1-Gold</u>
1970/71	447 400	Nil	Nil
1971/72	436 189	Nil	102 106
1972/73	529 313	302 782	97 894

9. The year-end value of stores was as follows for the last three years:

<u>1970/71</u>	<u>1971/72</u>	<u>1972/73</u>
R78 439	R74 249	R88 305

The increase of R14 056 in respect of 1972/73 over 1971/72 was as a result of presentation cases for proof and collectors' coin to the value of R17 144 which were delivered in February, 1973.

In previous years these cases were ordered at a later date during the year and they were issued in the same financial year in which they were ordered. With the creation of a separate production section for the manufacturing of proof coins as a continuous activity the cases were required at a much earlier stage and supplies had to be obtained at an earlier date.

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 basic price of monetary gold remained at R28-80 per fine oz. plus 1% until October, 1972 and then increased to R30-05 plus 1%.

The basic price plus $\frac{1}{2}\%$ is paid to the Rand Refinery Ltd.

The average selling price of Industrial gold was R46-86 per fine ounce, compared with R30-26 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, as adjusted and approved by the South African Reserve Bank, plus a commission of 1%.

A total fine mass of 3 843,82 kg of gold was sold during the year whereas 3 250,45 kg was sold during the previous year.

Gold coins:

A total of 15 000 gold proof coins (7 500 of R2 and 7 500 of R1) was struck for sale in 6 000 proofsets of 10 coins (R2- $\frac{1}{2}$ c) and 1 500 proofsets of 2 coins (R2-R1).

In addition to the above 10 790 non-proof R2 coins, 11 295 non-proof R1 coins and 6 625 Krugerrand coins were minted for sale, as well as 526 404 Krugerrand, 579 782 R2 and 97 894 R1 coins for the Chamber of Mines of South Africa. A further 11 000 R1 coins were minted for members of the S.A. Jewellers 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>1972/73</u>	<u>1971/72</u>
	kg	kg
Received from the Rand Refinery Ltd.....	4 707,28	3 587,59
Granulated and dental gold sold	3 843,82	3 250,45
Medals, wire and sheet gold sold	17,48	39,53
Mass of R2, R1, Krugerrand	449,07	419,22
Transferred to Die & Medal Section	13,50	34,06
Received from Die & Medal Section	-	29,58
Transferred to Coinage Section	960,54	384,41
Received from Coinage Section	6,47	-
Transferred to Chamber of Mines	-	44,80
	<u>9 998,16</u>	<u>7 789,64</u>

2. SILVER:

Silver transactions by mass

	<u>1972/73</u> kg	<u>1971/72</u> kg
Bought from Rand Refinery Ltd. and Sundry persons	10 051,81	5 374,49
Coin withdrawn from circulation 500 Std., 800 Std.	2 210,95	1 371,24
Granules and strip sold	9 401,72	6 045,82
Medals & Other items sold	163,09	207,79
Issues to Coinage Section	-	6,55
Received from Coinage Section (not coin)	-	-
Coin received from Coinage Section ...	602,24	385,16
Issues for various alloys	192,88	174,58
	<u>22 622,69</u>	<u>13 565,63</u>

Purchase of Silver:

10 051,81 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 R1-54 per fine ounce compared with R1-09 in the previous year. The total fine mass sold during the year was 9 401,72 kg whereas 6 045,82 kg was sold during the previous year.

Withdrawal of 500 Std. and 800 Std. Silver coin for remelting:-

During the year silver coins to the value of R78 200-00 were withdrawn from circulation.

3. NICKEL:

Nickel transactions by mass in kg

	<u>1972/73</u>	<u>1971/72</u>
Blanks purchased for coinage	131 181,50	-
Mass of coins received	72 250,12	192 403,78
Transferred to Die & Medal Section, ...	12,58	10,24
	<u>203 444,20</u>	<u>192 414,02</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.

	kg
Bronze issued to Coinage Section	106 207,53
Bronze coin received from Coinage Section	169 372,12
Metals for various alloys	364,62
Bronze issued to Die & Medal Section	240,66
Bronze received from Die & Medal Section	39,63
Bronze articles sold	161,03
Rhodesian bronze coin received from Coinage Section	6 050,27
Bronze issued to P.M.P.	-
Bronze received from P.M.P.	77 446,81
	<u>359 882,67</u>

Withdrawal of bronze coin:

During the year coin to the value of R4 600 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	
	1972/73	1971/72	1972/73	1971/72
<u>GOLD:</u>	R.c.	R.c.	R.c.	R.c.
2 Rand	36 530,00	35 500,00	52 112,00	33 268,00
1 Rand	29 795,00	28 022,00	37 775,00	26 877,00
<u>SILVER:</u>				
1 Rand	50 000,00	32 000,00	44 430,00	28 164,00
<u>NICKEL:</u>				
50c	25 000,00	1 282 295,00	694 187,00	1 404 925,00
20c	10 000,00	2 986 787,00	391 182,80	1 078 603,00
10c	849 372,90	799 623,30	305 591,40	633 694,60
5c	746 100,00	923 773,00	306 800,65	794 349,30
<u>BRONZE:</u>				
2c	169 532,16	480 860,00	227 019,06	320 439,72
1c	356 920,00	146 248,15	275 359,53	313 269,86
$\frac{1}{2}$ c	81 115,35 $\frac{1}{2}$	58 673,53 $\frac{1}{2}$	57 332,57	60 329,17 $\frac{1}{2}$
	<u>2 354 415,41$\frac{1}{2}$</u>	<u>6 773 781,98$\frac{1}{2}$</u>	<u>2 391 790,01</u>	<u>4 693 919,65$\frac{1}{2}$</u>

6. PROOFSETS:

The Mint made 6 000 ten coin proofsets (R2- $\frac{1}{2}$ c), 1 500 gold proofsets (R2-R1) and 4 000 eight coin proofsets (R1- $\frac{1}{2}$ c).

7. COINS MANUFACTURED FOR OTHER COUNTRIES:

RHODESIAN COIN

	<u>1972/73</u>	<u>1971/72</u>
$\frac{1}{2}$ c	R10 000	R 10 000
1c	-	R150 000

8. PACKING AND DESPATCH SECTION:

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

	<u>1972/73</u>	<u>1971/72</u>
Parcels despatched by Post	11 986	10 123
Parcels, other than coin, despatched by rail	4 (45 kg)	7 (155 kg)
Boxes of coin despatched by rail	2 787 (150 204 kg)	2 996 (162 091 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:

CATAGORIES		1973		1972	
		Posts	Personnel	Posts	Personnel
(a)	Administrative	6	6	6	6
(b)	Professional	2	1	2	1
(c)	Technical	9	9	9	6
(d)	Clerical	11	7	12	6
(e)	General Divisions A & B, excluding items (g) to (i)	26	10	26	11
(f)	Temporary employees against posts under items (a) to (e)	-	12	-	16
(g)	Special Craftsmen	5	5	6	6
(h)	Artisans and Toolmakers	8	8	8	7
(i)	Male Operators	11	10	11	11
(j)	Apprentices	2	1	2	1
(k)	Female Operators and Supervisors	38	31	38	31
(l)	Messengers	4	-	4	-
(m)	Bantu Guards and Bossboys	13	14	13	14
(n)	Bantu Messengers and Female cleaners	4	8	4	8
(o)	Bantu Labourers	71	57	71	56
TOTAL:		210	179	212	180

There was no change in the number of persons employed while the number of posts decreased by 2. No additional temporary employees were in service this year.

2. PERSONNEL TURNOVER

Appointments - 65
Resignations - 67

3. POST STRUCTURAL CHANGES

The number of authorised posts decreased by 2 to 210

4. PERSONNEL CHANGES

Messrs. C.G. Kok, J.M.T. Philpott and R. De Beer were promoted to Senior Foremen as from 1.10.1972.

C. MINT MUSEUM AND LIBRARY

1. Mrs. B. Walton, the curatrix of the Mint Museum retired on pension on the 31st August, 1972.

2. VISITORS.

During the rebuilding of the Mint in accordance with the programme of modernisation, no visitors were permitted.

CHAPTER III - PRODUCTION

1. MELTING SECTION

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

Gold:-

Fine gold granules	834,423 kg
22 ct. Gold granules	1 469,416 kg
18 ct. Gold granules	218,207 kg
9 ct. Gold granules	503,279 kg
18 ct. Gold for Die & Medal	24,563 kg
9 ct. Gold for Die & Medal	178,027 kg
22 ct. Gold bars for Coining Section	4 329,926 kg
Mixed gold for Mint Office	18,161 kg
Total	<u>7 576,002 kg</u>

Silver:-

925 Std Silver for Die & Medal	151,249 kg
800 Std. Silver melted	435,781 kg
Fine silver granules	10 060,963 kg
Total	<u>10 647,993 kg</u>

Bronze:-

225 991,671 kg

2. ROLLING SECTION:-

The production in this section was as follows:-

(a)	22 ct. Gold	2 546,000 kg
	800 Std. Silver	287,895 kg
	Total	<u>2 833,895 kg</u>

Coinage Bronze 225 991,671 kg

(b) Blanks annealed and cleaned:-

800 Std. Silver	50 000 Pieces
Std. Gold Krugerrand	6 625 Pieces
Std. Gold R2	18 290 Pieces
Std. Gold R1	29 795 Pieces
2c, 1c & $\frac{1}{2}$ c Bronze	60 705 062 Pieces
Rhod. $\frac{1}{2}$ c Bronze	2 000 000 Pieces
Total	<u>62 809 772 Pieces</u>

(c) Blanks cleaned:-

Nickel (50c, 20c, 10c & 5c) 733 116,244 kg

3. COINAGE SECTION:-

- (a) The number of coins minted during the year amount to 87 216 198 pieces as reflected in the following schedules:-

COIN PRODUCTION

Denominations	Bars cast kg	Bars Rolled kg	Blanks Coined kg	Good coins produced	
				1972/73 No of pieces	1971/72 No of pieces
<u>GOLD</u>					
Krugerrand			224,851	6 625	6 000
R2	4 329,925	2 546,000	147,363	18 290	17 750
R1			118,742	29 795	28 022
TOTAL			490,956	54 710	51 772
<u>800 STD. SILVER</u>					
R1			752,802	50 000	32 000
TOTAL			752,802	50 000	32 000
<u>NICKEL</u>					
50c			475,406	50 000	2 565 850
20c			299,975	50 000	14 933 935
10c			33 995,377	8 493 729	7 996 233
5c			37 479,313	14 922 000	18 475 460
TOTAL			72 250,071	23 515 729	43 971 478
<u>BRONZE</u>					
2c			32 734,635	8 476 608	24 043 000
1c	225 991,671	225 991,671	125 258,608	35 692 000	14 624 815
$\frac{1}{2}$ c			32 137,332	16 223 071	11 734 706
TOTAL			190 130,575	60 391 679	50 402 521
<u>BRONZE</u>					
Rhod. 1c					15 000 000
Rhod. $\frac{1}{2}$ c			6 010,355	2 000 000	2 000 000
TOTAL			6 010,355	2 000 000	17 000 000
<u>CHAMBER OF MINES</u>					
Krugerrand			17 856,675	526 404	463 189
R2			4 630,558	579 782	-
R1			390,985	97 894	102 106
TOTAL			22 878,218	1 204 080	565 295
GRAND TOTAL				87 216 198	112 023 066

(b) Proofsets:-

The following proofsets were minted, packed in leatherette cases and delivered to the Mint Office:-

SOUTH AFRICAN

(a) Gold Proofsets (R2 & R1)	1 500 Sets
(b) Long Proofsets (R2 & R1 gold R1- $\frac{1}{2}$ c)	6 000 Sets
(c) Short Proofsets (R1- $\frac{1}{2}$ c)	4 000 Sets
Total	<u>11 500 Sets</u>

4. DIE AND MEDAL SECTION

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

Coinage Dies	2 338
Dies for medals etc.	68
Medals and badges etc.	18 678
Gold jeweller's articles	230
Silver jeweller's articles	349
Sundries Die and Medal	21 883
Articles engraved	593
Defence medals stamped	1 442

The following new medals were produced

(1) Swaziland Police

(a) Long Service Medal

34,9 mm Diameter, Cupro-Nickel

Obverse:

The effigy of King Sobhuza the Second as modelled by T. Sasseen

Reverse:

The badge of the Royal Swaziland Police surrounded by the words "Royal Swaziland Police Long Service Medal".
The die was hand cut by J. Buisset.

(b) Meritorious Service Medal.

34,9 mm Diameter, Cupro-Nickel

Obverse:

As for the Long Service medal.

Reverse:

Swaziland Coat of Arms surrounded by the words "Royal Swaziland Police Medal for Meritorious Service, " as modelled by T. Sasseen.

(c) Distinguished Service Medal.

34,9 mm Diameter Silver medal.

Obverse:

As for the Long Service medal.

Reverse:

As for the Long Service medal but with inscription "King's Police Medal for Distinguished Service".

(2) Swaziland Prison Service

(a) Long Service Medal

34,9 mm Diameter, Cupro-Nickel.

Obverse:

The effigy of King Sobhuza the Second.

Reverse:

The badge of the Swaziland Prisons Service surrounded by the words "Swaziland Prisons Long Service Medal". The die was hand cut by A.L. Sutherland.

(b) Meritorious Service Medal

34,9 mm Diameter, Cupro-Nickel.

Obverse:

As for the Long Service medal.

Reverse:

Swaziland Coat of Arms as modelled by T. Sasseen and surrounded by the words "Swaziland Prisons Medal for Meritorious Service".

(c) Distinguished Service Medal

34,9 mm Diameter Silver Medal.

Obverse:

As for the Long Service medal.

Reverse:

As for the Meritorious Service medal but with inscription "King's Prisons Medal for Distinguished Service".

(3) The Dental Association of South Africa.

50 mm Diameter Stg. Silver medal.

Obverse:

The effigy of Lester Brown as modelled by T. Sasseen with words "The Lester Brown Award".

Reverse:

Laurel Wreath with inscription "For merit in Maxillo-facial and oral surgery".

(4) University of South Africa.

38 mm Diameter medals in 18ct. gold, 9ct. gold, stg. silver and bronze.

Obverse:

The University Coat of Arms with dates 1873-1973, as modelled by J. Buisset.

Reverse:

Model of Unisa Building.

(5) The National Cancer Association of South Africa.

50 mm Stg. Silver medal.

Obverse:

Profile of Dr. A.G. Oettle with inscription "Gedenkpenning A.G. Oettle Memorial Medal", as modelled by T. Sasseen.

Reverse:

Crest of the N.C.A. of S.A. with words "National Cancer Ass. of South Africa Nasionale Kankervereniging van Suid-Afrika". The crest die was hand cut by A.L. Sutherland.

(6) South African Veterinary Association.

38 mm 18ct. Gold medal.

Obverse:

S.A.V.A. Emblem as modelled by A.L. Sutherland.

Reverse:

Laurel Wreath.

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.

The Engineering section was also responsible for the re-establishment of production sections with associated moving and re-erection of heavy machinery in order to vacate premises for demolition and rebuilding in accordance with the modernisation programme which has now entered it's final phase.

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

1. The Laboratory, which was temporarily housed in a section of the old Tool room, was re-established in the new completed Laboratory building.
2. The Coinage Section was moved to the old Tool room where 17 coinage presses were temporarily erected. The adjoining old Restaurant building was equipped for weighing and counting.
3. The new fully equipped Restaurant building, including cold room and cafeteria was taken into use.
4. The administration, accounts and security sections have been re-established in the newly completed Administration building.
5. A new milling machine was erected and commissioned in the mechanical workshop.
6. The linings of the two continuous casting furnaces were renewed and the casting line made ready for production.
7. A 24 K.W. emergency power generating set was installed and commissioned for use in conjunction with the continuous casting plant.
8. A new 200 C.F.M. rotary type air compressor was installed and commissioned.

CHAPTER V - ASSAYING

This section is responsible for the assaying of all coinage metals and metals for the manufacture of medals. The control of all chemical processes is maintained and a considerable amount of assaying is done for the South African Police in connection with illicit gold and platinum dealings and the investigation of counterfeit coins. The assaying of minerals is undertaken for bonafide prospectors.

The following work was done by this section during the year:-

1. Precious metal assays:-

<u>GOLD:</u>	Mint Office	297 samples	
	S.A. Bureau of Standards	<u>9 samples</u>	306
<u>SILVER:</u>	Mint Office	76 samples	
	S.A. Bureau of Standards	<u>0 samples</u>	76
TOTAL			<u>382</u> samples

2. General Chemical Analysis:-

a. Illicit gold trade:

Assays on 131 exhibits in 105 court cases were carried out for the S.A. Police, Gold Staff. 214 pieces of gold were cast for trapping purposes.

In two cases the assayer was subpoenaed to give evidence in court.

b. Counterfeit coins:

158 pieces were handed in as alleged counterfeits of which 98 were proved to be counterfeit after investigation.

c. Miscellaneous:

Chemical analysis of bronze and nickel samples.

<u>Bronze</u>	1 056 copper determinations
	264 tin determinations
	264 zinc determinations
<u>Nickel</u>	81 nickel determinations



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