## PART 3

## Financial <br> Planning, Control and Decision Making

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## CHAPTER 10

Cash management and control
10.1 Bank reconciliation
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10.3 Bank reconciliation and internal control
10.4 Petty cash transactions
10.5 Cash budget

## Problem 10.1 Bank reconciliation

The bank reconciliation statement of Elle Mack on 30 June 2003 was as shown below.

## ELLE MACK

## Bank Reconciliation Statement

as at 30 June 2003

| Balance as per bank statement |  | $\$ 1344$ | Dr |
| :--- | ---: | ---: | ---: |
| Add: Unpresented cheques: |  |  |  |
| No. 32826 | $\$ 204$ |  |  |
| 32829 | 30 | $\underline{292}$ | $\underline{726}$ |
| 32830 |  | $\$ \underline{2070}$ |  |
|  |  | $\boxed{2250}$ | Dr |

The cash receipts and cash payments journals for the week ending 7 July were as follows:

Cash Receipts Journal

| Date | Particulars | Details | Cash at bank |
| :---: | :---: | :---: | :---: |
| 2003 |  |  |  |
| July 3 | M. Mackay | 162 |  |
|  | B. Bowen | 84 |  |
|  | T. Towers | 192 |  |
|  | Sales | 252 | 690 |
| 4 | Sales | 282 | 282 |
| 5 | G. Airu | 84 |  |
|  | Sales | 270 | 354 |
|  | Sales | 306 | 306 |
| 7 | H. Homestead | 132 |  |
|  | Sales | 396 | 528 |
|  |  |  | 2160 |

Cash Payments Journal

| Date | Particulars | Cheque no. | Cash at bank |
| :---: | :---: | :---: | :---: |
| 2003 |  |  |  |
| July 3 | R. Raven | 32831 | 30 |
|  | Sundry expenses | 2 | 60 |
| 4 | H. Hughes | 3 | 108 |
|  | Wages | 4 | 240 |
| 5 | Rent | 5 | 120 |
|  | T. Tan | 6 | 84 |
| 6 | C. Choi | 7 | 186 |
|  | Insurance | 8 | 120 |
| 7 | Purchases | 9 | 90 |
|  | R. Russo | 32840 | 1200 |
|  |  |  | 2238 |

Mack's bank statement at 7 July is shown below.

## Bank Statement

| Date | Particulars | Debits | Credits | Balance |
| :---: | :---: | :---: | :---: | :---: |
| 2003 |  |  |  |  |
| July 1 | Balance |  |  | \$1344 Dr |
|  |  |  | \$2250 | 906 Cr |
| 3 |  |  | 690 | 1596 Cr |
|  | 32829 | \$ 30 |  | 1566 Cr |
|  |  | 18 |  | 1548 Cr |
| 4 | 32832 | 60 |  | 1488 Cr |
|  | 32826 | 204 |  | 1284 Cr |
|  |  |  | 282 | 1566 Cr |
|  | 32831 | 30 |  | 1536 Cr |
|  | 32834 | 240 |  | 1296 Cr |
|  | Ret (R. Read) | 156 |  | 1140 Cr |
| 5 |  |  | 354 | 1494 Cr |
|  | 32836 | 84 |  | 1410 Cr |
|  | Interest on bonds |  | 120 | 1530 Cr |
| 6 |  |  | 306 | 1836 Cr |
|  | 32833 | 108 |  | 1728 Cr |
|  | Payment Auth (to R. Ross) | 420 |  | 1308 Cr |
|  | Govt Taxes | 30 |  | 1278 Cr |
| 7 | 32839 | 90 |  | 1188 Cr |
|  | Account Fees | 24 |  | 1164 Cr |
|  | Interest on 0/D | 72 |  | 1092 Cr |
|  | TOTAL DEBITS \$1566 | TOTAL | DITS \$40 |  |

## Required:

A. Complete, where necessary, the cash journals starting with the totals shown.
B. Open a Cash at Bank account with the correct balance on 30 June 2003 and post the totals of the cash journals. Balance the account at 7 July 2003.
C. Prepare a statement reconciling the Cash at Bank balance with the balance as shown by the bank statement as at 7 July 2003.

## Solution

A.

## ELLE MACK

Cash Receipts Journal


Cash Payments Journal

| Date | Particulars | Cash at <br> Bank |
| :--- | :--- | ---: |
| 2003 |  |  |
| $7 / 7$ | Progress, total | 2238 |
|  | Bank payment to | 420 |
|  | R. Ross <br>  | Govt Taxes |
|  | Bank Debit | 30 |
|  | Bank charge (fee) | 18 |
|  | lnt. on o'draft | 24 |
|  |  | 72 |
|  |  | $\$ 2802$ |
|  |  |  |
|  |  |  |

B.

Cash at Bank

| 2003 |  |  | 2000 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1/7 | Balance b/d | 180 | 7/7 | CPJ | 2802 |
| 7/7 | CRJ | 2124 |  |  |  |
|  | Balance c/d | 498 |  |  |  |
|  |  | \$2802 |  |  | \$2802 |
|  |  |  | 7/7 | Balance b/d | 498 |

C.

ELLE MACK
Bank Reconciliation Statement as at 7 July 2003

Balance as per bank statement
Add: Outstanding deposit
Less: Unpresented cheques
$\begin{array}{lr}\text { no. } 32830 & \$ 492 \\ \text { no. } 32835 & 120 \\ \text { no. } 32837 & 186 \\ \text { no. } 32838 & 120 \\ \text { no. } 32840 & \underline{1200}\end{array}$
Balance as per cash at bank account
\$1092 Cr
$\frac{528}{1620}$ 1620

## Problem 10.2 Bank reconciliation with errors

The March bank statement and general ledger Cash at Bank account of Harris Ltd are given below:

|  | Bank Statement (extract) <br> Cheques | Deposits | Balance |
| :--- | ---: | ---: | ---: |
| Balance, 1 March |  |  | $\$ 4555$ |
| Deposits recorded during March |  | $\$ 26000$ | 30555 |
| Cheques paid during March | 2700 |  | 6855 |
| Ret cheque - B. D. Foote | 20 | 6685 |  |
| Account fees | 20 | 6645 |  |
| Govt taxes |  | 6645 |  |
| Balance, 31 March | Cash at Bank |  |  |
|  | 4855 | $31 / 3$ Cash payments | 25750 |
| 1/3 Balance | 27500 |  |  |

Petty Cash
31/3 Balance
150

## Required:

A. Complete the Cash at Bank account by entering necessary adjustments, and then balance the account at 31 March.
B. Prepare a bank reconciliation at 31 March. (Hint: You might find an error made by either the bank or the company.)
C. What total amount of cash should be reported on the 31 March statement of financial position?

## Solution

A.

HARRIS LTD
Cash at Bank

| 1/3 | Balance | \$4855 | 31/3 | Cheques drawn CPJ | \$25750 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 31/3 | Deposits CRJ | 27500 |  | Account fees | 20 |
|  | Returned Cheque | (270) |  | Govt Taxes | 20 |
|  |  |  |  | Balance c/d | 6295 |
|  |  | \$32085 |  |  | \$32085 |
| 1/4 | Balance b/d | 6295 |  |  |  |

B.

## HARRIS LTD

## Bank Reconciliation Statement

 as at 31 MarchBalance as reported per bank statement $\$ 6645 \mathrm{Cr}$
Less: Bank subtraction error 100
Adjusted Bank Statement Balance 6545
Add: Outstanding deposit
Less: Unpresented cheques
(cheques written, \$25750
minus cheques paid $\$ 23700$ ) $\underline{2050}$
Balance as per Cash at Bank account $\$ 6295 \mathrm{Dr}$

* Cash Receipt \$27500 - [Deposits recorded for March \$26 000 - Deposits in Transit Feb \$300 i.e. Cash at Bank \$4 855 - Bank Statement Bal. \$4 555] = \$1 800
C.

Total cash to be reported on the statement of financial position: (Current assets)

| Cash at Bank | $\$ 6295$ |
| :--- | ---: |
| Petty Cash | $\underline{150}$ |
| Total | $\underline{\underline{\$ 6445}}$ |

## Problem 10.3 Bank reconciliation and internal control

The owner of Homewares Hardware has just completed a bank reconciliation and found that the bank's records do not agree with the cash records of his business. His immediate reaction is that internal control has broken down and cash handlers are pilfering cash. He asks you, as an accountant, to check his records and confirm his suspicions or show him where he has gone wrong. As requested, he supplies the reconciliation statement at the end of last month, his cash records, and the most recent bank statement. Last month's reconciliation statement is presented below.

## Bank Reconciliation Statement

as at 30 June 2002
Balance per bank statement 30 June 2002 \$3402.75
Add: Outstanding deposits $\quad \frac{219.90}{3622.65}$
Less: Unpresented cheques
3622.65

Balance per Cash at Bank account at 30 June 2002

$$
991.00
$$

$\$ 2631.65$

The following information regarding the cash journals was provided - the total of the cash receipts journal was $\$ 62669.05$ and the total of the cash payments journal was $\$ 60989.55$. From the bank statement it was noted that cheques presented and paid amounted to $\$ 57952.05$, and total deposits amounted to $\$ 62870.90$. There were also additional debits on the statement for a dishonoured cheque for $\$ 100$, and account fees for $\$ 10$.

A cross-check of the records revealed that all reconciling items at 30 June 2002 appeared in the bank statement for July, unpresented cheques at 31 July totalled $\$ 6742.15$, and that the 31 July deposit of $\$ 1840.70$ had not been credited by the bank. Your check of the cash journals revealed that addition errors had been made by the clerks responsible. Receipts should have totalled \$63769.05 and payments should have totalled \$60 980.55.

## Required:

A. Recalculate the general ledger Cash at Bank account balance as it should be at 31 July 2002.
B. Prepare the bank reconciliation statement at 31 July 2002.
C. Advise the owner of Homewares Hardware whether or not pilfering of cash is taking place, assuming that the records maintained by the bank are accurate.

## Solution

A.

## HOMEWARES HARDWARE

| Cash at Bank |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2002 |  |  | 2002 |  |  |
| 30 June | Balance | \$2631.65 | 30/6 | CPJ | \$60 990.55 |
|  | CRJ | 63669.05 |  | [\$60 989.55 + <br> \$10.00 account <br> fee - \$9.00 <br> add.error] |  |
|  | [\$62669.05\$100.00 ret.chq + <br> \$1 100 add.error] |  |  | Balance c/d | 5310.15 |
|  |  |  |  |  | \$66300.70 |
|  |  | \$66300.70 |  |  |  |
| 31/7 | Balance b/d | \$5 310.15 |  |  |  |

B.

## HOMEWARES HARDWARE Bank Reconciliation Statement 30 July 2002

Balance per previous bank statement $\quad \$ 3402.75 \mathrm{Cr}$
Add: Deposits to bank in July $\quad \frac{62870.90}{66273.65}$
Less:
Total cheques presented and paid $\$ 57952.05$
Returned cheques 100.00
Bank fees $\quad 10.00$
58062.05

Balance as per Bank statement
8211.60

Add: Outstanding deposit
1840.70
10052.30

Less: Unpresented cheques
6742.15

Balance as per Cash at Bank account
$\$ 3310.15$
C.

The Cash at Bank balance as at 31 July 2002 should be $\$ 5310.15$
The Cash at Bank balance as per the Bank reconciliation is $\$ 3310.15$
There is a discrepancy of $\$ 2000$. It appears that all the cash receipts reported in the cash receipts journal has not been deposited in the bank. This would suggest some breakdown in the internal control procedures over cash, i.e. A deposit has not been banked or loss through theft.

Assuming the bank records are accurate the owner will have to take action to ensure control over the asset cash,. i.e. investigate the shortfall.

## Problem 10.4 Petty cash transactions

The following transactions and events relate to the petty cash fund of Benito Enterprises Ltd during its first month of trading. The business uses the imprest system, and established the fund with a cheque (no. 38745) for $\$ 300$ given to the petty cashier.

1. Paid $\$ 43$ for postage (Postage Expense).
2. Paid $\$ 34$ COD charges on inventory purchased (Freight Inwards).
3. Cleaning supplies purchased, $\$ 29.50$ (Sundry Expenses).
4. Paid $\$ 49$ for replacement computer part (Repairs Expense).
5. Paid $\$ 30.25$ for newspapers and magazines (Sundry Expenses).
6. Vouchers in the petty cash box were reimbursed by a cheque (no. 38769) which was also used to increase the size of the fund from $\$ 300$ to $\$ 350$.
7. Paid Quick Express Delivery Service for the overnight delivery of important documents, $\$ 56$ (Postage Expense).
8. Paid $\$ 62.50$ for minor repairs to the business's vehicle (Repairs Expense).
9. Paid $\$ 85.70$ to have the office windows washed and carpet cleaned (Sundry Expenses).
10. Paid $\$ 22.25$ for coffee and supplies for the staffroom (Sundry Expenses).
11. Petty cash fund was reimbursed with cheque no. 38793.

## Required:

A. Prepare a petty cash book showing the above transactions and events. Use appropriate expense analysis columns and balance the book before each reimbursement of expenses.
B. Show all relevant entries in the cash payments journal.
BENITO ENTERPRISES

| Date | Particulars | Receipts | Payments | Stationery Expense | Postage Expense | Sundry Expenses | Repairs Expense | Freight ln |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 2 3 4 5 | Establish Petty Cash (38745) <br> Postage <br> COD charges <br> Cleaning Supplies <br> Computer part <br> Newspapers \&t Magazines | 300.00 | 43.00 34.00 29.50 49.00 30.25 |  | 43.00 | $\begin{aligned} & 29.50 \\ & 30.25 \end{aligned}$ | 49.00 | 34.00 |
| 6 | Increase \& Reimburse Fund | 50.00 | 185.75 |  | \$43.00 | \$59.75 | \$49.00 | \$34.00 |
|  | Balance c/d |  | 114.25 |  |  |  |  |  |
|  |  | \$300.00 | \$300.00 |  |  |  |  |  |
| 6 | Balance b/d | 114.25 |  |  |  |  |  |  |
| 6 | Reinburse + Increase (38769) | 235.75 |  |  |  |  |  |  |
| 7 | Delivery Service |  | 56.00 |  | 56.00 |  |  |  |
| 8 | Vehicle Repairs |  | 62.50 |  |  |  | 62.50 |  |
| 9 | Cleaning |  | 85.70 |  |  | 85.70 |  |  |
| 10 | Coffee and tea |  | 22.25 |  |  | 22.25 |  |  |
|  |  |  | 226.45 | - | \$56.00 | \$107.95 | \$62.50 | - |
|  | Balance c/d |  | 123.55 |  |  |  |  |  |
|  |  | 350.00 | 350.00 |  |  |  |  |  |
| 10 | Balance b/d | 123.55 |  |  |  |  |  |  |
|  | Reimbusement (38793) | 226.45 |  |  |  |  |  |  |

BENITO ENTERPRISES

| Date | Account | Cheque No. | Post. Ref. | Purchases | Accounts Payable | Other | Discount Received | Cash at Bank |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1. |  |  |  |  |  |  |  |
|  | Petty Cash | 38745 |  |  |  | \$300.00 |  | 300.00 |
|  |  |  |  |  |  |  |  |  |
|  | Petty Cash |  |  |  |  | 50.00 |  |  |
|  | Postage Expense |  |  |  |  | 43.00 |  |  |
|  | Sundry Expenses |  |  |  |  | 59.75 |  |  |
|  | Repairs Expense |  |  |  |  | 49.00 |  |  |
|  | Freight ln |  |  |  |  | 34.00 |  | 235.75 |
|  | 11. |  |  |  |  |  |  |  |
|  | Postage Expense |  |  |  |  | 56.00 |  |  |
|  | Sundry Expenses |  |  |  |  | 107.95 |  |  |
|  | Repairs Expense |  |  |  |  | 62.50 |  | 226.45 |

## Problem 10.5 Cash budget

C. Gomez wants to prepare a cash budget for the first two quarters of 2002. Experience has shown that $70 \%$ of sales will be collected during the quarter of the sale, $15 \%$ in the quarter following the sale, $10 \%$ in the second quarter following the sale and $5 \%$ in the third quarter following the sale. Gomez pays for $75 \%$ of purchases in the quarter of the purchase, and the balance is paid in the following quarter.

Selling expenses amount to $\$ 11000$ per quarter plus $15 \%$ of quarterly sales. Administrative expenses are estimated to be $\$ 22000$ per quarter, which includes $\$ 8000$ of depreciation expense. Financial expenses are $\$ 2000$ per quarter. All selling, administrative and financial expenses, except depreciation, are paid when incurred.

It is planned to purchase equipment during the first quarter at a cost of $\$ 10500$. A $\$ 15000$ loan payable will be repaid during the second quarter. The interest due at maturity will be $\$ 2750$. The company's anticipated Cash at Bank balance at 1 January 2002 is $\$ 22500$.

Estimated sales and purchases data are as follows:

|  | Sales | Purchases |
| :--- | ---: | ---: |
| June quarter, 2001 | $\$ 125000$ | $\$ 65000$ |
| September quarter, 2001 | 110000 | 55000 |
| December quarter, 2001 | 145000 | 90000 |
| March quarter, 2002 | 100000 | 45000 |
| June quarter, 2002 | 115000 | 60000 |

## Required:

Prepare a cash budget for the first two quarters in 2002, by quarter and in total.

## Solution


[1] $11000+0.15(100,000)=26000$
[2] $22000-8000=14000$
[3] $11000+0.15(115000)=28250$
WILEY

