

# APPENDIX

## A MANAGEMENT ACCOUNTING & REPORTING SYSTEM



FOR  
INTERNATIONAL  
DEVELOPMENT  
RESEARCH CENTRE

**P. S. ROSS & PARTNERS**

MANAGEMENT CONSULTANTS

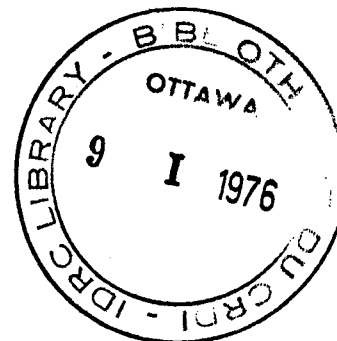
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## APPENDIX

- A. DESCRIPTION OF THE SYSTEM ELEMENTS
- B. DETAILED IMPLEMENTATION PLAN AND SCHEDULE
- C. A DISCUSSION OF COMPUTING POWER AND SPECIFIC APPLICATIONS

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## A. DESCRIPTION OF THE SYSTEM ELEMENTS

### 1. PREFACE

This section of the Appendix presents a preliminary description of the reports to be produced by the management accounting and reporting system, the data elements required to produce these reports, their associated coding structures and the principal sources for data to be collected.

The reporting system is described in considerable detail for the conventional planning and results reporting functions. However, a further reporting area, that of program evaluation, was beyond the scope of this study. This area requires considerable effort by IDRC management and staff to determine the qualitative and quantitative measurement to be applied.

The data elements required for the report production are of three distinct types. The General Ledger consists of the information required to produce the financial statements and budget and actual comparative reports. Information concerning Program Projects is for use in the production of reports related to projects that are in either the pre-signing or post-signing stages. It includes the completion dates for significant events and forecasts of cash flows. The last set of data, the General Journal, is closely related to the requirements of an accounting system, since it consists of all the entries posted to the General Ledger.

A further feature that is fundamental to the relationship between the data and the reports is the development of well structured coding systems. The major coding systems proposed are described in this Appendix. However, the allocation of the actual code numbers will be carried out in the detailed design stage.

The detailed specification of procedures governing the collection of basic data will be undertaken during detailed design. In principle, data should be collected at the earliest point in its life - at the source if possible - and should be authorized for use in the system. No change in form should have taken place prior to its entry into the system. The system itself will perform the required processing of data. Sources for the required data are listed in this Appendix.

## 2. REPORTS

Illustrations of the proposed reports are presented in the following pages, along with narratives which explain the purpose, content and production frequency of each. The reports proposed in this system are:

- a) Balance Sheet
- b) Statement of Operations
- c) Summary Analysis of Expenses
- d) General Administration Expenses - Departmental Summary
- e) General Administration Expenses - Departmental Cost Analysis
- f) Project Administration Expenses - Divisional Analysis by Object
- g) Project Administration Expenses - Activity Cost Analysis
- h) Project Expenses - Divisional Summary by Object
- i) Project Expenses - Divisional Summary by Activity
- j) Project Expenses - World Area Analysis by Activity
- k) Project Expenses - Divisional Analysis of Commitments by Purpose
- l) Project Expenses - Activity Summary by Object
- m) Project Expenses - Activity Summary by Project
- n) Project Financial Report
- o) Project Status Report
- p) Cash Management Plan
- q) Divisional Cash Requirements Forecast
- r) Projected Divisional Cash Flow
- s) Divisional Appropriation/Commitment Status
- t) Divisional Administration Cost Ratios by Activity
- u) Program Cost Ratios - Administration
  - Salary
  - Travel

**TITLE:** BALANCE SHEET

**PURPOSE:** To show the financial position of the Centre.

**FREQUENCY:** Monthly

**DESCRIPTION:** This report groups the assets and liabilities into contemporary accounting classifications and shows the comparative figures for the same month in the prior year.

## BALANCE SHEET

Period Ended

19731972ASSETS

CASH

MARKETABLE SECURITIES

ACCOUNTS RECEIVABLE

PREPAID EXPENSES

      
          
    LIABILITIES AND SURPLUS

ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

ADVANCES - C.I.D.A.

SURPLUS

**TITLE:** STATEMENT OF OPERATIONS

**PURPOSE:** To show the operating results of the Centre.

**FREQUENCY:** Monthly

**DESCRIPTION:** This report shows amounts for the year to date of:

- (1) revenue by principal sources,
- (2) expenses for projects and administration,
- (3) excess of revenue over expenses, and
- (4) surplus, including adjustments.

Comparative figures for the same period in the prior year also are presented.

## STATEMENT OF OPERATIONS

	Period	Ended
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	1972 - 1973	1971 - 1972
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**REVENUE**

GOVERNMENT GRANT

INTEREST

OTHER

	==	==
	==	==

**EXPENSES**

PROJECT

ADMINISTRATION

	==	==
	==	==

EXCESS OF REVENUE OVER EXPENSES

SURPLUS - BEGINNING OF PERIOD

SURPLUS - END OF PERIOD

	==	==
	==	==



TITLE: SUMMARY ANALYSIS OF EXPENSES

PURPOSE: To present an analysis of operating costs by major program and administrative area.

FREQUENCY: Monthly

DESCRIPTION: This report presents in summary form for the year to date the project expenses by program areas and the administration expenses by program area and administrative area (responsibility centre).

Comparison is made to the equivalent period in the prior year as well as with the current annual budget and the budget for the current year to date.

## SUMMARY ANALYSIS OF EXPENSES

Period Ended

	Budget		Actual To Date	
	Fiscal Year Ending March 31, 1973	Year To Date	1972- 1973	1971- 1972
<b><u>PROJECT EXPENSES</u></b>				
AGRICULTURE, FOOD AND NUTRITION SCIENCES				
SOCIAL SCIENCES AND HUMAN RESOURCES				
INFORMATION SCIENCES				
POPULATION AND HEALTH SCIENCES				
INTERNATIONAL ASSISTANCE				
CANADA AND DONOR AGENCIES	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<b><u>ADMINISTRATION EXPENSES</u></b>				
PROJECT ADMINISTRATION				
AGRICULTURE, FOOD AND NUTRITION SCIENCES				
SOCIAL SCIENCES AND HUMAN RESOURCES				
INFORMATION SCIENCES				
POPULATION AND HEALTH SCIENCES				
INTERNATIONAL ASSISTANCE				
CANADA AND DONOR AGENCIES	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
GENERAL ADMINISTRATION				
BOARD OF GOVERNORS				
CHAIRMAN OF THE BOARD				
PRESIDENT				
SECRETARY				
TREASURER				
DIRECTOR OF ADMINISTRATION	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
TOTAL ADMINISTRATION	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
TOTAL EXPENSES	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

TITLE: GENERAL ADMINISTRATION EXPENSES  
DEPARTMENTAL SUMMARY

PURPOSE: To present an analysis of the current status of  
departmental administration expenses.

FREQUENCY: Monthly

DESCRIPTION: This report presents for each non program  
administrative function or department the  
object breakdown of expenses. Budget  
and prior year's figures are also shown.

# GENERAL ADMINISTRATION EXPENSES

## DEPARTMENTAL SUMMARY

Department \_\_\_\_\_

Responsible Person \_\_\_\_\_

Period Ended \_\_\_\_\_

	Budget		Actual	
	Fiscal Year	Year	1972-	1971-
	Ending	To	1973	1972
	March 31, 1973	Date		
<b>SALARIES</b>				
<b>BENEFITS</b>				
<b>TRAVEL</b>				
<b>EQUIPMENT</b>				
<b>SUPPLIES</b>				
<b>OTHER</b>				

**TITLE:** GENERAL ADMINISTRATION EXPENSES  
DEPARTMENTAL COST ANALYSIS

**PURPOSE:** To present a detailed analysis of administration expenses for each functional cost centre within a department.

**FREQUENCY:** Monthly.

**DESCRIPTION:** This report presents for each departmental cost centre a summary by object of expenses for the current year to date. Total and year to date budgets and prior year's expenses also are shown.

## GENERAL ADMINISTRATION EXPENSES

## DEPARTMENTAL COST ANALYSIS

Function

Responsible Person

Period Ended

	Budget		Actual	
	Fiscal	Year	Year	
	Ending	To	1972-	1971-
	March 31, 1973	Date	1973	1972
SALARIES				
BENEFITS				
TRAVEL				
EQUIPMENT				
SUPPLIES				
OTHER				

**TITLE:** PROJECT ADMINISTRATION EXPENSES  
DIVISIONAL ANALYSIS BY OBJECT

**PURPOSE:** To present an analysis of project administration expenses in the division.

**FREQUENCY:** Monthly

**DESCRIPTION:** This report presents a divisional summary by object of the administration expenses which support program activities. Total and year to date budgets and prior year's expenses also are shown.

## PROJECT ADMINISTRATION EXPENSES

## DIVISIONAL ANALYSIS BY OBJECT

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 Division

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 Responsible Person

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 Period Ended

	Budget		Actual	
	Fiscal	Year	Year	
	Ending	To	1972-	1971-
	<u>March 31, 1973</u>	<u>Date</u>	<u>1973</u>	<u>1972</u>
SALARIES				
BENEFITS				
TRAVEL				
EQUIPMENT				
SUPPLIES				
OTHER				
	<hr/>	<hr/>	<hr/>	<hr/>
	<hr/>	<hr/>	<hr/>	<hr/>



**TITLE:** PROJECT ADMINISTRATION EXPENSES  
ACTIVITY COST ANALYSIS

**PURPOSE:** To present an analysis of administration expenses for each activity in the program area.

**FREQUENCY:** Monthly

**DESCRIPTION:** This report presents for each activity in the program area the year to date administration expenses by object. Total and year to date budgets and prior year's expenses also are shown.

## PROJECT ADMINISTRATION EXPENSES

## ACTIVITY COST ANALYSIS

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 Activity

---

 Responsible Person

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 Period Ended

SALARIES

BENEFITS

TRAVEL

EQUIPMENT

SUPPLIES

OTHER

Budget		
Fiscal Year	Year	
Ending	To	
March 31, 1973	Date	
_____	_____	
=====	=====	

Actual	
1972-	1971-
1973	1972
_____	_____
=====	=====

**TITLE:** PROJECT EXPENSES  
DIVISIONAL SUMMARY BY OBJECT

**PURPOSE:** To present an analysis of project costs by object within the division.

**FREQUENCY:** Monthly

**DESCRIPTION:** A separate report for each program division will show project expenses by object for the year to date compared to the expenses for the comparable period in the prior year.

# PROJECT EXPENSES

## DIVISIONAL SUMMARY BY OBJECT

Division			
Responsible	Person	Period	Ended
		<u>1972-</u> <u>1973</u>	<u>1971 -</u> <u>1972</u>
GRANTS			
SUPPLIES			
RENT			
EQUIPMENT			
TRAINING			
TRAVEL			
CONSULTANTS			
CONFERENCES			
OTHER			
		_____	_____
		=====	=====

TITLE:

PROJECT EXPENSES  
DIVISIONAL SUMMARY BY ACTIVITY

PURPOSE:

To present an analysis of the project expenses for each activity in the program area in terms of budget and actual expenses.

FREQUENCY:

Monthly

DESCRIPTION:

This report presents for each activity in the program area the expenses for the year to date. Total and year to date budgets and prior year's expenses also are shown.

# PROJECT EXPENSES

## DIVISIONAL SUMMARY BY ACTIVITY

Agriculture, Food And Nutrition Sciences

Division

J. Hulse

Responsible Person

Date Prepared**CROPS****FISHERIES****ANIMALS****FORESTRY****NUTRITION AND HOME  
SCIENCES****RURAL DEVELOPMENT  
SYSTEMS****DIVISIONAL ACTIVITY  
PROJECTS**

<u>Budget</u>		<u>Actual</u>	
<u>Fiscal Year</u>	<u>Year</u>	<u>1972-</u>	<u>1971</u>
<u>Ending</u>	<u>To</u>	<u>1973</u>	<u>1972</u>
<u>March 31, 1973</u>	<u>Date</u>		

_____	_____	_____	_____
=====	=====	=====	=====

TITLE: PROJECT EXPENSES  
WORLD AREA ANALYSIS BY ACTIVITY

PURPOSE: To provide an analysis of project costs and commitments by world area for the year to date.

FREQUENCY: Quarterly

DESCRIPTION: This report will present for each world area the dollars committed and spent to date in the current year by program area and activity.

# PROJECT EXPENSES

## WORLD AREA ANALYSIS BY ACTIVITY

World Area		
	<u>Commitment</u> <u>1972 - 1973</u>	<u>Expense</u> <u>1972 - 1973</u>
AGRICULTURE, FOOD AND NUTRITION SCIENCES		
CROPS		
FISHERIES		
ANIMALS		
FORESTRY		
NUTRITION AND HOME SCIENCES		
RURAL DEVELOPMENT SYSTEMS		
DIVISIONAL ACTIVITY PROJECTS		
POPULATION AND HEALTH SCIENCES		
_____		
_____		
SOCIAL SCIENCES AND HUMAN RESOURCES		
_____		
_____		
INFORMATION SCIENCES		
_____		
_____		
	_____	_____
	=====	=====



TITLE:

PROJECT EXPENSES  
DIVISIONAL ANALYSIS OF COMMITMENTS BY PURPOSE

PURPOSE:

To analyze by activity area within each division the purpose of commitments made during the current year.

FREQUENCY:

Quarterly

DESCRIPTION:

This report shows for each activity within a division the purposes for which the commitments during the current year were made.

# PROJECT EXPENSES

## DIVISIONAL ANALYSIS OF COMMITMENTS BY PURPOSE

Agriculture, Food And Nutrition Sciences

Division

J. Hulse

Responsible Person

Period Ended

TrainingResearchProductivity  
ImprovementEtc.Total

CROPS

FISHERIES

ANIMALS

FORESTRY

NUTRITION AND HOME SCIENCES

RURAL DEVELOPMENT SYSTEMS

DIVISIONAL ACTIVITY PROJECTS

TOTAL

TITLE: PROJECT EXPENSES  
ACTIVITY SUMMARY BY OBJECT

PURPOSE: To analyze the expenses by object for each activity in a program area.

FREQUENCY: Monthly

DESCRIPTION: This report will show for each program activity the project expenses by object for the year to date compared to the same period in the prior year.

**PROJECT EXPENSES**  
**ACTIVITY SUMMARY BY OBJECT**

Activity			
Responsible	Person	Period Ended	
		<u>1972-</u> <u>1973</u>	<u>1971-</u> <u>1972</u>
GRANTS			
SUPPLIES			
RENT			
EQUIPMENT			
TRAINING			
TRAVEL			
CONSULTANTS			
CONFERENCES			
OTHER			
		<u>          </u>	<u>          </u>
		<u>          </u>	<u>          </u>

TITLE:

PROJECT EXPENSES  
ACTIVITY SUMMARY BY PROJECT

PURPOSE:

To present for each activity area the status of each project in terms of commitment, and budgetted and actual expenses.

FREQUENCY:

Monthly

DESCRIPTION:

This report will present for each committed project in each activity area the committed amount of the project, the actual expenses for the current year to date and for the period from the project beginning to date and the budgetted expenses for the current year and for the period from the project beginning to date.

# PROJECT EXPENSES

## ACTIVITY SUMMARY BY PROJECT

Agriculture, Food And Nutrition Sciences - Crops  
Activity

J. Hulse

Responsible Person

Period Ended

	<u>Commitment</u>	<u>Expenditure To Date</u>		<u>Expenditure Current Year</u>	
		<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>
BREAD FROM COMPOSITE FLOURS					
SORGHUM BREEDING					
GRAIN LEGUMES					
TRITICALE OUTREACH					

TITLE: PROJECT FINANCIAL REPORT

PURPOSE: This report is intended to be used in conjunction with the Project Status Report to determine the qualitative and quantitative status of a project.

FREQUENCY: Whenever there is a change in financial information or at least every six months.

DESCRIPTION: This report will present a statement of project expenses by object showing the amount committed, the expenses for the year to date and the expenses from the project beginning to date. The budget figures for expenses to date and for the current year will be shown in total only.

## PROJECT FINANCIAL REPORT

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Project

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Responsible Person

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Period Ended

	<u>Commitment</u>	<u>Expenditure To Date</u>		<u>Expenditure Current Year</u>	
		<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>
GRANT					
SUPPLIES					
RENT					
EQUIPMENT					
TRAINING					
TRAVEL					
CONSULTANTS					
CONFERENCES					
OTHER					
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
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- TITLE:** PROJECT STATUS REPORT
- PURPOSE:** To indicate for all projects that have been identified the present status in terms of progress from identification to completion
- FREQUENCY:** At least every six months or when there has been any significant change in information concerning the project.
- DESCRIPTION:** The report is broken down into five categories:
1. The first section present information on the grantee.
  2. The second gives information on the project status as it proceeds through the IDRC process from identification to completion.
  3. The third section describes the project and states its purpose.
  4. The fourth category monitors information on the events in the project. These events may be in terms of project financial reports, project technical reports, project visits, workshops, or other significant events. The definition of the events will be determined for each project at the time of its commitment.
  5. The fifth category serves to monitor the anticipated schedule of disbursements.

Certain sections of this report will not be applicable until the project has reached the commitment stage.

[illegible]

**TITLE:** CASH MANAGEMENT PLAN

**PURPOSE:** To provide a basis for investment decisions in the ensuing twelve month period.

**FREQUENCY:** Monthly

**DESCRIPTION:** This report shows in summary form the cash requirements and resources, as well as excesses or deficiencies of cash over the ensuing twelve months. The reliability of the estimate is indicated by the breakdown of the requirements.

## CASH MANAGEMENT PLAN

January 1973

Date Prepared

	<u>FEBRUARY</u>	<u>MARCH</u>	<u>APRIL</u>	<u>MAY</u>	<u>JUNE</u>	<u>JULY</u>	<u>AUGUST</u>	<u>SEPTEMBER</u>	<u>OCTOBER</u>	<u>NOVEMBER</u>	<u>DECEMBER</u>	<u>JANUARY</u>
<b><u>CASH REQUIRMENTS</u></b>												
ADMINISTRATION	\$ 100,000	100,000	110,000	110,000	115,000	105,000	135,000	115,000	115,000	120,000	120,000	140,000
PROJECTS-												
COMMITTED	100,000	200,000	75,000	275,000	350,000	650,000	300,000	125,000	50,000	10,000	600,000	500,000
APPROPRIATED			30,000	45,000		10,000	20,000	55,000	60,000	400,000	25,000	50,000
UNAPPROPRIATED					5,000	10,000	40,000	60,000	15,000	25,000	35,000	
CONTINGENCY					5,000	10,000						50,000
TOTAL	<u>200,000</u>	<u>300,000</u>	<u>215,000</u>	<u>430,000</u>	<u>475,000</u>	<u>785,000</u>	<u>495,000</u>	<u>355,000</u>	<u>230,000</u>	<u>555,000</u>	<u>780,000</u>	<u>740,000</u>
<b><u>CASH RESOURCES</u></b>												
GOVERNMENT GRANT	4,200,000											
INVESTMENT MATURING		100,000	175,000	450,000	375,000	600,000	545,000	200,000	300,000	400,000	600,000	740,000
	<u>4,200,000</u>	<u>100,000</u>	<u>175,000</u>	<u>450,000</u>	<u>375,000</u>	<u>600,000</u>	<u>545,000</u>	<u>200,000</u>	<u>300,000</u>	<u>400,000</u>	<u>600,000</u>	<u>740,000</u>
CASH - EXCESS (DEFICIENCY)	\$ 4,000,000			20,000			50,000					
	<u><u>4,000,000</u></u>	<u><u>(200,000)</u></u>	<u><u>(40,000)</u></u>	<u><u>20,000</u></u>	<u><u>(100,000)</u></u>	<u><u>(185,000)</u></u>	<u><u>50,000</u></u>	<u><u>(155,000)</u></u>	<u><u>(70,000)</u></u>	<u><u>(155,000)</u></u>	<u><u>(180,000)</u></u>	<u><u>      </u></u>

TITLE: DIVISIONAL CASH REQUIREMENTS FORECAST

PURPOSE: To indicate by division and activity the future requirements for cash on projects committed, appropriated and under consideration.

FREQUENCY: Quarterly

DESCRIPTION: This report presents for each division and activity the current year's commitments from either current or previous appropriations, the prior year's commitments yet unpaid and the payments to date in the current year to yield the total of unpaid commitments. These, plus appropriations not committed in the current or previous years, plus projects yet unappropriated, determine the total cash requirements for the division.

### Division

***J. Hulse***

Responsible	Person
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January 1973

Date Prepared

[illegible]

TITLE: PROJECTED DIVISIONAL CASH FLOW

PURPOSE: To analyze for each division the expected flow of cash on projects committed, appropriated and under consideration and to compare the total requirements with the expected cash available during the same period.

FREQUENCY: Quarterly

DESCRIPTION: This divisional report indicates at the activity level the expected timing for disbursement of funds on projects. Separate totals are shown for projects committed, appropriated but not committed and under consideration. The total is compared to expected cash available for projects over this same time frame to indicate the extent to which further projects may be developed, appropriated and committed.

## PROJECTED DIVISIONAL CASH FLOW

Agriculture, Food And Nutrition Sciences

Division

J. Hulse

Responsible Person

Date Prepared

	Total Cash Requirements	1972-1973				1973-1974 Payment	1974-1975 Payment	1975-1976 Payment
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter			
CROPS- COMMITTED								
- APPROPRIATED								
- UNDER CONSIDERATION								
FISHERIES- COMMITTED								
- APPROPRIATED								
- UNDER CONSIDERATION								
OTHER- COMMITTED								
- APPROPRIATED								
- UNDER CONSIDERATION								
TOTAL- COMMITTED								
- APPROPRIATED								
- UNDER CONSIDERATION								
CASH BUDGET								
AVAILABLE								



TITLE: DIVISIONAL APPROPRIATION/COMMITMENT  
STATUS

PURPOSE: To identify the balance available for appropriation  
in the current year for each division and activity.

FREQUENCY: Monthly

DESCRIPTION: This report indicates the total of the current  
year's appropriation budget, the commitments,  
appropriations and projects under consideration  
and the balance available for new projects. This  
is presented by activity within the division.

## DIVISIONAL APPROPRIATION/COMMITMENT STATUS

*Agriculture, Food And Nutrition Sciences*

Division

*J. Hulse*

Responsible Person

Date Prepared

	1972-1973 Appropriation Budget	Commitments From 1972 - 1973 Appropriation Budget	1972 - 1973 Appropriations Not Yet Committed	Under Consideration	Balance Available
CROPS					
ANIMALS					
FISHERIES					
FORESTRY					
NUTRITION AND HOME SCIENCES					
RURAL DEVELOPMENT SYSTEMS					
DIVISION ACTIVITY PROJECTS					

TITLE: DIVISIONAL ADMINISTRATION COST RATIOS  
BY ACTIVITY

PURPOSE: To provide various measures of cost performance  
for activities within a division.

FREQUENCY: Quarterly

DESCRIPTION: This report will show for each activity the ratio  
of administration costs to project dollars com-  
mitted, appropriated and disbursed in the current  
year.

## DIVISIONAL ADMINISTRATION COST RATIOS BY ACTIVITY

Agriculture, Food And Nutrition Sciences

Division

Date Prepared

Project  
\$  
Com.

Project  
\$  
Approp.

Project  
\$  
Spent

Direct  
\$  
Admin.

Admin.  
Com.

Admin.  
Approp.

Admin.  
Spent

CROPS

FISHERIES

ANIMALS

FORESTRY

NUTRITION AND  
HOME SCIENCES

RURAL DEVELOPMENT  
SYSTEMS

DIVISIONAL ACTIVITY  
PROJECTS

OTHER

VTA

TOTAL


TITLE: PROGRAM COST RATIOS

PURPOSE: To provide for each division certain relevant cost ratios to program expenses as partial measure of performance.

FREQUENCY: Quarterly

DESCRIPTION: These reports show for each division the ratios of divisional administration costs, divisional salary costs and divisional travel costs to selected costs and other values.

## PROGRAM ADMINISTRATION COST RATIOS

Date    Prepared

	<u>Agriculture, Food And Nutrition Sciences</u>	<u>Population And Health Sciences</u>	<u>Social Sciences And Human Resources</u>	<u>Information Sciences</u>
<u>RATIO OF TOTAL ADMIN. COSTS TO</u>				
1. NUMBER OF EMPLOYEES				
2. NUMBER OF PROFESSIONALS				
3. NUMBER OF PROJECTS UNDER ADMINISTRATION				
4. NUMBER OF PROJECTS COMMITTED CURRENT YEAR				
5. VALUE OF PROJECTS COMMITTED CURRENT YEAR				
6. VALUE OF PROJECTS UNDER ADMINISTRATION				
7. VALUE OF PROJECTS APPROPRIATED CURRENT YEAR				
8. PROJECT CASH OUTLAY CURRENT YEAR				

# PROGRAM SALARY COST RATIOS

Date Prepared

	<u>Agriculture, Food And Nutrition Sciences</u>	<u>Population And Health Sciences</u>	<u>Social Sciences And Human Resources</u>	<u>Information Sciences</u>
<u>RATIO OF SALARY COSTS TO</u>				
1. NUMBER OF EMPLOYEES				
2. NUMBER OF PROJECTS UNDER ADMINISTRATION				
3. NUMBER OF PROJECTS COMMITTED CURRENT YEAR				
4. VALUE OF PROJECTS COMMITTED CURRENT YEAR				
5. VALUE OF PROJECTS UNDER ADMINISTRATION				
6. VALUE OF PROJECTS APPROPRIATED CURRENT YEAR				
7. PROJECT CASH OUTLAY CURRENT YEAR				

## PROGRAM TRAVEL COST RATIOS

Date Prepared

	<u>Agriculture, Food And Nutrition Sciences</u>	<u>Population And Health Sciences</u>	<u>Social Sciences And Human Resources</u>	<u>Information Sciences</u>
<u>RATIO OF TRAVEL COSTS TO</u>				
1. NUMBER OF EMPLOYEES				
2. NUMBER OF PROFESSIONALS				
3. NUMBER OF PROJECTS UNDER ADMINISTRATION				
4. NUMBER OF PROJECTS COMMITTED CURRENT YEAR				
5. VALUE OF PROJECTS COMMITTED CURRENT YEAR				
6. VALUE OF PROJECTS UNDER ADMINISTRATION				
7. VALUE OF PROJECTS APPROPRIATED CURRENT YEAR				
8. PROJECT CASH OUTLAY CURRENT YEAR				



### 3. FILES AND CODING STRUCTURES

The information necessary to produce the reports previously presented will be maintained in terms of three distinct functions:

- \* The General Ledger
- \* The Program Projects
- \* The General Journal

This section describes in general terms the purpose and content of the files to be maintained. A detailed data or file base structure will be developed at the time of detailed design.

Inherent in the maintenance of information on file are several coding structures. The purpose and structure of these codes are presented and, in some cases, a preliminary allocation of codes has been set out to serve as a basis for use in the later detailed design.

a) General Ledger File

PURPOSE: To store the information required for financial reporting on the affairs of the International Development Research Centre.

GENERAL DESCRIPTION:

The file contains one record for every General Ledger account number code. The account number code identifies the type and classification of the account. Additionally, it identifies for project expenses the program and activity to which the expense is to be allocated, and for administrative expenses the responsibility centre. It provides also for the identification of the expense by object.

Included in every revenue and expense account is the provision for recording the budget amount as well.

While the file contains the appropriation budget details by program and activity, it does not contain the amount appropriated. The actual amount appropriated is stored on the Program Projects File.

CONTENT:

<u>Element Name</u>	<u>Description</u>
Account Number Code	The unique identifier for a General Ledger File record.
Account Name	The name of the account record in the form it is to appear on the Trial Balance Report.
Financial Statement Line Indicator	The line of the financial statements in which this account balance is to be included.

<u>Element Name</u>	<u>Description</u>
Account Balance	<p>Assets and Liabilities: Contains the month-end balances for the current financial year and the first three months subsequent to the current financial year.</p> <p>Revenue and Expenses: Contains each month's revenues or expenses for previous and current financial years and the first three months of the next financial year.</p>
Revenue and Expense Budgets	<p>Revenues: The annual approved or planned budget for this and the next year (by quarter) and for the next five years by year. This may be revised periodically for the current year. It will reflect the budget approved by the Board for the current year and for next year when possible.</p> <p>Expenses: The annual approved or planned budget for this year and the next five years with the current and next year by month and the remaining by year. In the case of administration expenses, it is by responsibility centre and in the case of program/project expenses, by program and activity. In the second case, for program/projects, the actual expenses are not collected on this record but at a lower level of detail where the object is specified.</p>
Approved Appropriation Budget	The annual budget for appropriations for this year and the next five years by year. The details of the appropriation budgets are not recorded on the General Ledger File.
Actual Expenses Prior Years	The total expended for a project in the years prior to the last financial

Element Name

Description

year. This only applies to project expense accounts and is recorded by object.

Committed Amount

The amount committed by object in expenses for each project. It is the total dollars committed to the project as a result of a signed agreement. The actual dollars are accumulated at the same level for comparison against the committed amount.

b) Program Projects File

PURPOSE: To store the information required for the control of potential or signed projects.

To store information on the forecasted cash flows resulting from signed projects and the forecast of cash flows that could result from potential projects.

GENERAL DESCRIPTION

The file contains information on projects from the time of identification through the signing of an agreement, the disbursement period of the project, and up to the completion of any follow-up stage.

The information is both for descriptive and project control purposes. It provides the facility to report on the completion of events that are identified as being meaningful for project control purposes.

The facility is provided for storing financial data including forecasts of the cash disbursements for the project.

CONTENT:

<u>Element Name</u>	<u>Description</u>
Program/Activity	The primary program/activity within which the project is administered.
Project Number	A unique number that identifies the project.
Project Name	The abbreviated name commonly used to refer to the project.
Project Description	A brief description of the project.
Purpose	The major purpose of the project.

<u>Element Name</u>	<u>Description</u>
Term of the Project	The forecast number of years from agreement date to final disbursement date.
Type of Funding	A code identifying the type of funding that is being made available by IDRC e. g. External Grant
Other Funds	The amount of funds to be contributed by other agencies or the grantee.
Grantee Name	The name of the grantee organization.
Grantee Contact and Title	The name of the contact in the grantee organization and the title of the position.
Country of Grantee	A code identifying the country of the grantee.
Responsible IDRC Staff Member	The name of the staff member at IDRC who is responsible for the project.
Region/Office	A code identifying the region or office responsible for the administration of the project.
Project Status	A code identifying the stage the project is at: e. g.   Identified Approved Appropriated Committed Signed Completed
Termination Date	The date identified in the agreement by which the last disbursement must be made.
First Identification Date	The actual date the project was identified as ready to be entered into the system.
Appropriation Date	The actual date of the appropriation approval.

<u>Element Name</u>	<u>Description</u>
Commitment Date	The actual date on which the agreement is deemed to have taken effect.
Completion Date	The date on which the project was considered by IDRC to be completed or discontinued.

Subsidiary Project Control Information - one item per event to be controlled.

Event Number	The number that identifies the event. This number may be the same as that used in a planning document such as a critical path network.
Description	A brief description of the event.
Original Completion Date	The original planned completion date. This is not normally changed after the project reaches the committed status
Revised Completion Date	The revised completion date. This date is revised as required during the life of the project.
Actual Completion Date	The date on which the event was completed.

c) General Journal File

PURPOSE: To maintain a record of each entry posted to the General Ledger File.

GENERAL DESCRIPTION:

This file carries a complete record of all entries posted to the General Ledger File. The records are created at the time that a financial transaction enters the system.

CONTENT:

<u>Element Name</u>	<u>Description</u>
Account Number Code	The number of the account to which the entry was posted.
Effective Date	The effective date of the journal entry.
Amount	The debit or credit amount of the posting.
Description	A brief description of the transaction.
Entry Number	The document number on which the entry was recorded for input to the system.



d) General Ledger Account Number Code

**PURPOSE:** To identify a General Ledger Account.

**STRUCTURE:** The code is a numeric 12 position number.  
The code is made up of five sub-codes. The sub-codes are described in detail in the following pages of this Appendix.

X	XX	X	XXX	XXXXX
X				
	XX			
		X		
			XXX	
			XXX	
				XXXXX

Account Type

Account Classification

Expense Segment

Responsibility Centre  
(Administration expenses only)

Program and Activity Code  
(Project expenses only)

Project Number (Project  
expenses only)

d) i) Account Type Code

PURPOSE: To identify the type of account, i. e. ,  
asset, liability, revenue or expense.

STRUCTURE: It is a one position, numeric code, with  
the following codes allocated:

- |   |   |                |
|---|---|----------------|
| 1 | - | Asset          |
| 2 | - | Liability      |
| 3 | - | Revenue        |
| 4 | - | Expense        |
| 5 | - | Contract Funds |

d) ii) Account Classification

PURPOSE: To identify, within each account type, the nature of the account itself.

STRUCTURE: It is a two position numeric code.

<u>Account Type</u>	<u>Account Code</u>	<u>Account Classification</u>
<u>Assets</u>	1	01 Petty cash
		02 Bank general (Toronto Dominion)
		03 Bank overseas (Royal)
		06 Bank general (Hong Kong and Shanghai)
		07 Bank general (Royal Bank of Canada - Bogota)
		20 Federal government grants receivable
		21 Other grants receivable
		30 Accounts receivable - standing travel advance
		31 Accounts receivable - staff travel advance
		32 Accounts receivable - staff other
		33 Accounts receivable - deposit accounts
		34 Accounts receivable - projects
		35 Accounts receivable - other
		40 Short term investments
		41 Canadian Savings Bonds
		50 Long term investments
		60 Accrued interest
		65 Prepaid expenses
		70 Deferred charges program commitments
<u>Liabilities</u>	2	01 Accounts payable - trade
		02 Accrued rent
		03 Accrued travel

<u>Account Type</u>	<u>Account Code</u>	<u>Account Classification</u>
<u>Liabilities</u>	2	06 Wages payable
		07 Other payable
		09 Payroll clearing
		10 Columbian income tax
		11 Federal income tax
		12 Canada pension plan
		13 Unemployment insurance
		14 Quebec income tax
		15 Quebec pension plan
		16 Quebec health insurance
		17 Ontario health insurance
		18 Ontario Blue Cross dental plan
		19 Ontario Blue Cross foreign coverage
		20 Foreign hospitalization
		21 Supplementary death benefits
		22 Group surgical and medical plan
		23 Public service management insurance
		24 Long term disability insurance
		25 Supplementary retirement benefits
		26 Teachers Insurance Annuity Association
		27 Public Service Superannuation
		28 Civil Service Cooperative Society
	2	35 Program commitments
		45 Provision for contingencies
		50 Surplus
<u>Revenues</u>	3	01 Government grants
		02 Contract income
		03 Consulting income
		04 Investment income
		05 Endowment income
		06 Other income
		07 Prior years adjustments
<u>Expenses</u>	4	01 Salaries
		02 Employee benefits
		03 Casual help
		04 Honoraria

<u>Account Type</u>	<u>Account Code</u>	<u>Account Classification</u>
<u>Expenses</u>	4	
	05	Allowances - overseas
	06	Allowances - rental
	07	Allowances - other
	08	Professional and special services
	09	Travel
	10	Govenors meetings and travel
	11	Relocation expenses
	12	Utilities
	13	Telephone, telegram, telex
	14	Office supplies and expenses
	15	Office furniture and equipment
	16	Equipment rental
	17	Postage
	18	Translation services
	19	Printing and duplicating
	20	Insurance
	21	Publication
	22	Freight and express
	23	Bank charges and exchange
	24	Local mileage and parking
	25	Training
	26	Hospitality
	27	Public relations
	28	Membership fees
	29	Seminars, meetings and conferences
	30	Renovations
	31	Others
<u>Contract Funds</u>	5	
	01	Bank account
	02	Accounts receivable
	03	Short term investments
	04	Deferred charges
	10	Accounts payable
	11	Program commitments
	12	Surplus
	13	Contract income
	14	Investment income
	15	Program expenses
	16	Bank charges

d) iii) Expense Segment Code

PURPOSE: To identify whether an expense has been incurred for a project or for administration purposes. This code is only used with respect to expenses.

STRUCTURE: It is a one position numeric code:

- 1 - Administration
- 2 - Project

d) iv)a) Responsibility Centre Code

**PURPOSE:** To identify a position within the organization that has responsibility for control of administration expenses.

**STRUCTURE:** It is a three position, numeric code that identifies the position of an individual within the organization as having budget responsibilities. This code is used only with an expense not directly attributable to an approved project.

100	Board of Governors
110	Chairman
120	President
200	Secretary
300	Treasurer
400	Director of Administration
410	General Administration
420	Conferences
430	Publications
440	Purchasing
450	Registry
460	Personnel
500	Director, Agriculture, Food and Nutrition Sciences
600	Director, Population and Health Sciences
700	Director, Information Sciences
800	Director, Social Sciences and Human Resources
900	Vice-President - International Assistance
950	Vice-President - Canada and Donor Agencies

d) iv) b) Program and Activity Code

**PURPOSE:** To identify program areas and the activities within each program

**STRUCTURE:** This is a three position, numeric code, of which the first position identifies the program area and the second and third positions identify the activities. This code is used only with an expense directly attributable to an approved project.

1 Agriculture, Food and Nutrition Sciences	01	Crops
	02	Fisheries
	03	Animals
	04	Forestry
	05	Nutrition and Home Sciences
	06	Rural Development Systems
	20	Divisional Activity Projects
2 Population and Health Sciences	01	Fertility Regulation Methods
	02	Family Planning - Action Research
	03	Demography and Population
	04	Health Sciences
	20	Divisional Activity Projects
3 Information Sciences	01	International Information Systems
	02	International Development Research Centre Library
	20	Divisional Activity Projects
4 Social Sciences and Human Resources	01	Process of Modernization and Change
	02	Applied Social Sciences
	03	International and Regional Research Networks
	20	Divisional Activity Projects
5 International Assistance	01	Liaison
	20	Divisional Activity Projects



6 Canada and Donor  
Agencies

01 Liaison  
20 Divisional Activity Projects

d) v) Project Number Code

**PURPOSE:** To provide a unique code for projects or potential projects.

**STRUCTURE:** This is a five position, numeric code. The code is assigned at the time that the project is first identified and is retained throughout the life of the project.

xx	xxx
xx	
	xxx

Year of the project identification.

Serial from 001 for a given year.

e) Financial Statement Line Indicator Code

**PURPOSE:** To indicate in which line on the Financial Statements an account balance is to be included.

**STRUCTURE:** It is a three position numeric code.

f) Country Code

PURPOSE:

To identify each country with a specific code.

STRUCTURE:

It is a three position, numeric code. This code is arranged such that all countries in the same world area (region) will fall in the same block of numbers.

g) Region/Office Code

PURPOSE: To provide a code that identifies an IDRC administrative region or office.

STRUCTURE: The code is a two position, numeric with the first code (00) reserved for the Head Office in Ottawa and the remaining assignable as follows:

01 to 20	Canadian Offices
30 to 99	Overseas Offices

h) Project Purpose Code

PURPOSE: To provide a code to describe the end use or purpose of a project.

STRUCTURE: It is a two position. numeric code. The following is a preliminary list of what these purposes might be:

- 01 Training - Seminar
- 02 Training - Conferences
- 03 Training - Academic
- 04 Training - On the job
- 05 Research - Development of capability
- 06 Research - Studies in specific areas (e. g.  
Health, Agriculture)
- 07 Information collection and distribution
- 08 International coordination
- 09 External liaison
- 10 Project identification
- 11 Productivity improvement

i) Event Number Code

**PURPOSE:**

To identify the events in the life of a project that are to be monitored for project control purposes.

**STRUCTURE:**

A two position, numeric code, serially assigned to identify the events within a project that are to be monitored. The event number may be directly related to a project critical path network if desired. In any event, it is intended as a flexible tool for program management activity.

j) Project Status Code

PURPOSE: To identify the status of a project.

STRUCTURE: This is a two position, numeric code that is associated with a potential or actual signed project agreement. This is the standard IDRC status identifier which operates independently of individual event code patterns.

- 1 Identified by discussion or proposal submission
- 2 Recommended by Program Director
- 3 Approved in principle
- 4 Recommended to the President by the Project Committee
- 5 Recommended to the Executive Committee by the President
- 6 Recommended to the Board of Governors by the Executive Committee
- 7 Approved by the Board of Governors
- 8 Agreement signed by the Grantee
- 9 Agreement completed
- 10 Project not recommended
- 11 Project lapsed
- 12 Project rejected



k) Type of Funding Code

PURPOSE: To identify the type of funding being supplied to the project.

STRUCTURE: This is a one position numeric code.  
The following types of funding are currently in use at IDRC:

- 1 External grant
- 2 Centre partnership grant
- 3 Centre administered grant

#### 4. INPUT DATA

There are three types of input associated with each kind of input data. These are:

- a) descriptive
- b) file maintenance
- c) routine

Descriptive data provides such information as General Ledger Account name or project name. File maintenance data are concerned with adding, removing and correcting records on the file. Routine data are associated with journal entries and project control information of a regular operating nature. In this section of the Appendix, the nature and sources of all of these types of input data are identified.

##### a) Descriptive Information

	<u>Source</u>
General Ledger Account Name	Accounting
Project Names	Program
Responsible Program Officer Names	Program
Grantee Name	Program
Grantee Contact and Title	Program
Project Description	Program
Project Purpose	Program
Other Funds in the Project	Program
Event Descriptions	Program
Term of the Project	Program
Type of Fundings Provided	Program
Country Code of Grantee	Program
Region	Program
Project Status Code	Secretary, Program
Termination Date	Program

##### b) File Maintenance Information

New General Ledger Accounts	Accounting
New Projects	Program
Financial Statement Line Indicator	Accounting
Removal of General Ledger Accounts	Accounting
Removal of Projects	Program

c) Routine Operating Information

	<u>Source</u>
General Ledger Journal Entries	Accounting
Approved Cash Budget	Accounting
Approved Appropriation	President
Committed Amount	Accounting
Commitment Date	Program
Appropriation Date	Program
Date Project Identified	Program
Forecast of Cash Disbursement	Program
Actual Completion Date	Program

## B. DETAILED IMPLEMENTATION PLAN AND SCHEDULE

The detailed implementation plan and schedule presented in this Appendix identifies the tasks involved and the expected time frame for the implementation of the system. The program is divided into eight phases. Phases A to G are concerned with the design and implementation of the proposed computer system itself. Phase H is a short term phase designed to introduce immediate modifications to the current management accounting process. The short term modifications introduced in this phase will be consistent with the proposed computer system design.

The program schedule presents the estimated elapsed time for each task. The starting and completion points have been carefully interrelated to ensure that prerequisite tasks are completed. The time scale is shown as elapsed weeks from the start of the schedule. The chart scale is one week to each column. Adjustments to the schedule may be required following the selection of the staff for implementation of the plan, if the level of available resources falls short of the expectation upon which this plan is based.

# DETAILED SYSTEM DESIGN AND IMPLEMENTATION PLAN AND SCHEDULE

**P. S. ROSS & PARTNERS**

# DETAILED SYSTEM DESIGN AND IMPLEMENTATION PLAN AND SCHEDULE

**P. S. ROSS & PARTNERS**

# DETAILED SYSTEM DESIGN AND IMPLEMENTATION PLAN AND SCHEDULE

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## INTERNATIONAL DEVELOPMENT RESEARCH CENTRE

# DETAILED SYSTEM DESIGN AND IMPLEMENTATION PLAN AND SCHEDULE

REFERENCE		P R O G R A M       S T E P S	PROGRAM SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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F	STAFF SELECTION AND TRAINING  The additional IDRC staff requirements will be identified early. The process of selection and training will be ongoing through the project.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								



## C. A DISCUSSION OF COMPUTING POWER AND SPECIFIC APPLICATIONS

This Appendix discusses the nature of IDRC requirements for computer power in greater technical detail than is presented in the body of the report. The information is based on the discussions which P. S. Ross & Partners' staff conducted with the management and staff at IDRC, and on the Digital Methods Ltd. feasibility study report on the implementation of ISIS at IDRC. The requirements of the proposed management accounting and reporting system, as analyzed by P. S. Ross & Partners, form the final element of information.

Based on the discussions held, it appears that the computer power requirements of IDRC can be grouped into three categories:

- \* Batch business data processing
- \* On-line data entry
- \* Computational

The proposed management accounting and reporting system is a business data processing system that is most suited to being operated in a batch environment. The ISIS system, on the other hand, requires the capability of both on-line data entry and batch processing. The last type, computational power, is required for statistical analysis work in the various program areas.

In the design and implementation of any proposed system, we recommend that IDRC adhere to a philosophy that will enable the Centre to follow an orderly plan of computer power procurement. At this time, there does not appear to be sufficient justification for IDRC to have an in-house computer. However, this position could alter in the future. Accordingly, IDRC should pay careful attention in the design and implementation of any computer system to avoid closing off future procurement options. This can be done by imposing constraints on the design of the systems. Any constraints introduced must, of course, be reviewed to ensure that they do not seriously affect the efficiency of a system. However, at the present time, the nature of the computer requirements outlined in this Appendix are such that, by following the policy described above, the Centre can take three independent routes in satisfying the current computing power requirements, while, at the same time, retaining the flexibility of combining these at a later date.

## 1. Proposed Management Accounting and Reporting System Computer Requirements

The conceptual system design presented in this report should result in the creation of a series of programs that operate on a batch computer system. The computer system will be of medium size, with the capability of handling programs that use as many as seven files including card reader and line printer files. Since we recommend that the system be programmed in COBOL, the system must be capable of compiling and running COBOL programs with seven files. The mix of tape and disk input/output files is dependent upon the particular detailed system design that is actually developed. However, the constraints on the detailed system design should be such that the system will be capable of being operated on an in-house computer of the minimum configuration required by the present ISIS system. Though some modification undoubtedly will be required to achieve this, these should not add measurably to the costs of the design and implementation or to the operating cost of the system. The recommendations with regard to the computer configuration to be utilized is based on the possibility that at some time in the near future IDRC may decide to implement the ISIS system at a local computer utility, converting later to a medium size computer configuration located within IDRC. The computer configuration envisaged now must be capable of conversion to such an in-house system with a minimum of programming and system effort.

## 2. ISIS Computer Requirements

The Digital Methods Ltd. (DML) report recommends that IDRC install ISIS at Alphatext with a one year contract and that IDRC consider the option of re-coding the system for a small computer. In the event that the second recommendation led to budget savings, an in-house computer installation could become a possibility.

In our review we were concerned with the impact that the operation of the ISIS system would have on IDRC's requirement for computer power. The philosophy recommended by P. S. Ross & Partners to govern the procurement of computing power is similar to that presented by DML in their report. Hence, in reviewing the report, we were concerned with the DML recommendations with respect to the immediate acquisition of computer power and the likely configuration of the in-house computer that would result.

In terms of the DML recommendations for the procurement of computer power, we are satisfied with the validity of their approach.

While DML did not carry out an exhaustive study of the IDRC in-house computer requirements, the likely dimensions of the configuration were identified as:

- \* IBM 360/30 or equivalent
- \* 128K core
- \* 4 tapes
- \* 3 disk drives
- \* 1 line printer
- \* 1 card reader

Accordingly, we recommend that the detailed system design for the management accounting and reporting system take account of these dimensions as a design constraint.

### 3. Other Computer Usage Requirements

In the course of our discussions with the management of IDRC, one further requirement for computer power was identified, that of statistical analysis capability. The demands come from in-house projects and as the result of requests from the grantees on funded projects. The frequency of such work is spasmodic and of varying volume. The problems are capable of being solved on the in-house Hewlett-Packard computers, on any of the service bureaus or university computing centres in Ottawa, or at some site more convenient to the grantee. Accordingly, we recommend that IDRC treat each requirement on its merits and direct it to the most appropriate source of computer power. At such time as these requirements become more significant or IDRC considers the procurement of an in-house computer system, this policy should be reassessed.