ELEVENTH ANNUAL REPORT

APRIL 1, 1972

to

MARCH 31, 1973

INDIAN INSTITUTE OF MANAGEMENT, AMEDARAD

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PART I

THE INSTITUTE

PROGRESS 1962-1973

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PROGRAMES AND ACTIVITIES 1972-1973

Post-Graduate Programmes Two-Year Post Graduate Programme in Business Administration

One-Year Programme for Management in Agriculture

Fellow in Business Administration Programme

Executive Development Programmes

Management Development Programme for Senior Officers in Uttar Pradesh Government

3-Tier Programme for Management Development

Changing Patterns of Industrial Relations

Programme on Production and Operations Management

Marketing Information and Decision Making

Applications of Operations Research

Workshop on Design and Implementation of Management Planning and Control Systems

Agricultural Management Programme

Programme for Trade Union Leaders of Gujarat

Rice Mill Management Programme

Research

15 research projects were completed and 21 were in progress

Consulting

7 projects were completed and 24 were in progress

SOCIETY AND DONOR DIMEERS

The 16th meeting of the Indian Institute of Management Ahmedabad Society, held on Apr. 15, 1972, approved the award of certificates to the seventh batch of 119 students and two students of the sixth batch of the Post-Graduate Programme in Business Administration at the 7th Annual Convocation. The Society empowered the Director to award the Post-Graduate Diploma in Business Administration to two of the Post-Graduate Programme students of 1970-72 batch when they complete all the required formalities.

The Society, also approved the award of certificates to the second batch of 33 students of the Programme for Management in Agriculture at the 7th Annual Convocation.

The 17th meeting of the Society, held on July 22, 1972 adopted the 10th Annual Report and the accounts for the year ending March 31, 1972.

The membership of the Society at the end of the year was 87.

DONATIONS FROM INDUSTRY

Donations were received from Aryodaya Ginning & Manufacturing Co. Ltd. (second instalment for Rs. 18,000) and Apurva Containers Pvt. Ltd. (Rs. 10,000). The first company contributed Rs. 25,000 in two instalments and accordingly has been enrolled as a member of Indian Institute of Management Ahmedabad Society.

POARD OF GOVERNORS

The Board held five meetings on Apr. 15, 1972; Nay 5, 1972; July 22, 1972; Oct. 9, 1972; and Jan. 23, 1973.

Dr. Samuel Paul was nominated by the Chairman to the Board on May 31, 1972 from the Institute's faculty.

Mr. M.D. Rajpal was on the Board during July-November, 1972, representing the Government of Gujarat. Mr. L.R. Dalal, Chief Secretary, Government of Gujarat, replaced Mr. Rajpal in November, 1972.

The Government of India nominated to the Board the following persons from Sept. 1, 1972, for five years as representatives of Commerce, Industry, Labour, and other interests:

- 1. Ifr. Kasturbhai Lalbhai
- 2. Mr. J.J. Hehta
- 3. Mr. Natwarld Shah
- 4. Pr. C.P. Srivastava

The terms of the following members expired during the year:

- 1. Mr. V. Isvaran
- 2. Mr. Arvind Marottam
- 3. Mr. Rohit C. Mehta
- 4. Fr. J.J. Ehabha
- 5. Mr. Hanohar Bandiydekar

The following committees of the Board functioned during the year:

The Budget Committee met on Nov. 2, 1972, the Personnel Committee on May 10, 1972, Oct. 9, 1972, Oct. 17, 1972 and Mar. 23, 1973, and the Building Committee on July 22, 1972, and Jan. 23, 1973.

FACULTY AND RESEARCH STAFF

At the end of the year, there were 57 faculty and 77 research staff members. Four new faculty and 37 research staff joined the Institute during the year. Three faculty and 31 research staff members left the Institute.

Faculty Development

The following faculty members continued to work for doctoral degree:

Name	Area	<u>University</u>
Meenakshi Malya	Production and Quantitative lethods	Harvard
M.N. Vora	Marketing	Harvard
K. Balakrishnan	Finance and Accounting	Harvard

The following faculty members were sponsored for doctoral programme:

<u>Name</u>	Area	<u>University</u>
R. Belachandra	Production and Quantitative lethods	Columbia
L.R. Bhandari	larketing	Columbia
C.K. Prahalad	Business Policy	Harvard

Research Staff

The following research staff members continued to work for doctoral degree:

Name	Area	University
Y.P. Aneja	Production and Quantitative Methods	Johns Hopkins
A.K. Banerjee	Production and Quantitative Lethods	Wisconsin
B.M. Desai	Agricultural Economics	Cornell
J.L. Saha	Operations Research	Casewe stern
V. Jailmar	Finance and Accounting	Columbia

PGP Students

The following graduates of the Post-Graduate Programme continued to work for doctoral degree:

Name	1 4	Arca	University
G.K. Jayaram		Organizational Behavior	UCLA
N. Dholakia		Narketing	Northwestern
Ravi Sarathy		Control Systems	Northwestern
R.K. Sarin	×	Production	UCLA
A.K. Vora		Finance	Northwestern

Visiting Faculty

The honorary position of faculty associates was awarded to the following persons:

K.K. Anand Chief Personnel and Organisation Manager Larsen & Tubro Ltd.

Prafull Anubhai Managing Director Rustom Jehangir Vakil Mills Ltd.

P.W. Bhalla Finance Director State Trading Corporation

Kanla Chowdhury
Programme Adviser in Public
Planning and Management
Ford Foundation
New Delhi

T.S. Nagarajan Sales and Marketing Director Brooke Bond (India) Ltd.

H. Marasimham Secretary Reserve Bank of India

N.M. Pai Director (Finance & Administration) Batliboi & Co.Pvt.Ltd.

V.H. Patil Professor Bajaj Institute of Management Studies Subir Chowdhury Manager Management Services I.C.I. (India) Ltd.

S. Sen Cupta Regional Director Clarion—cCam Advertising Services Itd.

S.Y. Gupte Assistant Commissioner Incometan Poona

N.K. Jaiswal Institute of Defence Studies and Analyses

Phiroze B. Medhora Deputy General Manager I.C.I.C.I. J. Sudarsana Rao Manager Coca-Cola Export Corporation

P. Sadanandan Tata Institute of Fundamental Research

P.A. Saleem All India Soles Manager Voltas Ltd.

H.D. Shah Manager Arvind Mills Ltd.

G. Sundaram President All India Petroleum Federation

Robert L. Williams Professor & Chairman Industrial & Systems Engg. Dept. Ohio University.

Director's Resignation

Prof. Ravi J. Natthai who took over as the first fulltime Director of this Institute in 1965 stepped down from the Directorship of ITMA on Sept. 7, 1972. Although a firm foundation had been laid down under the imaginative leadership of Dr. Vikram Sarabhai, the academic structure was yet to be built up. The task was by no means an easy one because we were still groping for the best way to achieve our objectives, and there was no precedence which we could depend on. Our road was rough and our goal was distant, and the challenge of the task demanded all the qualities of imagination, foresight, tolerance, and perseverance. During seven years of his

brilliant leadership, Prof. Natthai provided all these and much more. He provided a sense of missionary zeal which unfolded before ourselves a whole vista of activities and programmes in the field of management education. The position of eminence which this Institute has achieved is, in every sense of the term, due to his brilliant leadership. Prof. Natthai put Ahmedabad on the educational map of the world. This aptly sums up Prof. Natthai's contribution to the management education in general and to the development of this Institute in particular.

The Institute community and the public paid rich tributes in a function organized to honour Prof. Matthai for his valuable services. P. of. Matthai continues to be a member of the faculty.

Dr. Samuel Paul, took over charge on September 3, 1972 from Prof. Matthei.

FORD FOUNDATION

In June 1972, the Ford Foundation gave a grant of \$775,000 for financing expansion of Institute facilities and activities in research, publications, acquisition of books, and training of faculty abroad.

PART II

POST-GRADUATE PROGRAMMES

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POST-GRADUATE PROGRAME IN BUSINESS ADMINISTRATION

ADMISSION (1973-75 Session)

The selection procedures for 1973 were more or less the same as in 1972 with some modifications in the eligibility clause. The minimum requirement of 50% marks for seeking admission stipulated in 1972 was maintained. However, the number of examinations for consideration was reduced from three to two.

5,325 filled in applications were received this year as against 4,900 in 1972 (an increase of 9%).

As in the past all the eligible applicants were called for a written test. On the basis of the application evaluation and scores in the test, 630 candidates were called for group discussion and personal interviews. The final selection was made in April 1973 on the basis of application evaluation and performance in group discussions and interviews.

Salient features of applicants and selected candidates are given below:

Applicants

•	1971 Number	3–75 Percentage	<u>1977</u> Number	2 <u>-74</u> Percentage
Educational Background				
Arts	660	12.4	7ز5	11.36
Connerce	810	15.2	644	13.14
Engineering	2029	38.1	2236	45.63
Science	1825	34-3	1463	29.87
4 4	5324	100.0	4900	100.00
Work Experience			,	
With work experience	1343	25.2	931	19.00
Without work experience	3981	74.8	3969	£1.00
	5324	100.0	4900	100.00
Age				
Upto 20 years	1717	32.1	1621	33.1
21 to 25 years	3191	60.0	298	60.7
26 to 30 years	326	6.1	230.	4.7
31 to 35 years	46	0.9	34	0.7
36 years and above	44,	0.8	35	0.8
•	5324	100.0	4900	100.0
Sox				
Male	5135	96.4	4754	97.02
	189	3.6	146	2.9 3
Female	5324	100.0	4900	100.00

Selected Candidates

	<u>197</u> First 125	3 <u>-75</u> <u>Next: 45</u>	<u>197</u> First 125	<u> 2-74</u> <u>Next 55</u>
Educational Background				
Arts	11	2	17	,
Commerce	S	". 5	10	4 2
Engineering	77	28	76	
Science	29	10	22	<i>35</i>
	125	45	125	14. 55
Monte Western	Constitution to the same			
Work Experience	* #			ř
With work experience	48	15	<i>55</i>	14
Without work experience	77	30	70	41
	125	45	125	55
Age				
,	x			
Average Age	21.7	20.7	22.4	22.1
Fodel Age	21	21	23	22
Sex .	. ·	9 × 5	j.e.	
Male	116	45	114	54
Pemale	9	***	11	1
	125	45	125	<u>55</u>

NINTH SESSION (1972-74)

The 9th session of the PGP started on June 30, 1972, with 126 students in the first year and 110 in the second year. Then there were 6 dropouts from the first year.

Under an academic arrangement between the Institute and the Institute of Management Development, Tanzania, three students were admitted to the programme. The 1972-74 batch also included three scheduled caste/schedule tribe students.

At the request of Case Western Reserve University, USA, one Indian student who could not complete his MBA course requirements at that university was permitted to study a few courses at the Institute. Case Western Reserve University has accepted the academic credit earned by the student at the Institute and awarded him its MBA degree.

Curriculum 1972-73

The first year course package remained unchanged except the addition of a few sessions on computer programming for the students to learn basic computer programming and to use the Institute's time shared computer facility in their academic work.

In the seond year, 44 elective courses and 20 project courses were taught during the three terms in addition to the two-term compulsory course in Business Policy. Four guest

faculty members drawn from professional fields were involved in the second year teaching.

Students | Exchange Visit

During the last few years, the students of the Indian Institutes of Management, Ahmedabad and Calcutta, have been paying goodwill visits to each other every alternate year. A group of 19 students from this Institute visited IIM, Calcutta, from Jan. 9 to 17,1973. The IIMA students participated in various cultural programmes and benefitted from the exchange of views with the IIMC students and faculty.

Curriculum Planning

A Committee of our faculty members reviewed the first year course package and submitted a report for designing an integrated first year curriculum.

Another faculty committee reviewed the use of computers in the Post-Graduate Programme. Subsequently, a new course on computers and computer programming with 15 class sessions was added to the first year course package of 1973-74 academic year.

The responsibility to deal with the planning, design, and approval of specific courses was entrusted to a "Course Committee" consisting of area Chairmen and the Chairmen of the Post-Craduate Programme, Fellow in Business Administration

Programme, and Programme for Management in Agriculture.

7th Annual Convocation

The 7th Annual Convocation was held on Apr. 15, 1972.

Fir. G. Subramanian, Minister of Planning, Science and Technology, delivered the Convocation address. 121 students of the 1970-72 class were awarded the Post-Graduate Diploma.

The following four students received the Institute's Gold Medals for outstanding scholastic performance.

- 1. Mr. S. Ramakrishan
- 2. Mr. V.S. Krishnan
- 3. Ir. Vijay Sagar
- 4. Mr. S. Umapathy

FINANCIAL AID

TIMA Loan Assistance Scheme

Based on need, 50 students of the first year and 43 students of the second year were awarded total financial loan assistance of Rs. 1,75,500.

ITC Loan Fund

India Tobacco Company Itd. donated Rs. 50,000 to institute a loan fund called the "ITC I Toan Fund." Interest on this amount was utilized for awarding loan assistance.

Loan Fellowships (Industry)

The following organizations offered loan fellowships (Rs. 2,500 cach per annum):

- 1. Binny Ltd.
- 2. Brooke Bond India Ltd.
- 3. Century Spinning & Manufacturing Co.Ltd.
- 4. Chesebrough-Pond's Inc.
- 5. Coca-Cola amort Corporation
- 6. Esso Standard Eastern Inc.
- 7. Gotez (India) Ltd. (Subsidiary of Escorts Ltd.)
- 8. IBM World Trade Corporation
- 9. Indian Oil Corporation
- 10. Industrial Cables Public Charitable Trust
- 11. International Tractor Company of India Ltd.
- 12. Kirloskar Oil Engines Ltd.
- 13. L.D. Charitable Trust (2 Fellowships)
- 14. Larsen & Toubro Ltd.
- 15. Ladras Rubber Factory Itd.
- 16. Seth Purushottambhai bagambhai Demorial Trust
- 17. Shardaben Bangubhai Mafatlal Public Charitable Trust
- 18. Tara Vati Ram Gopal Mehra Foundation
- 19. The Bombay Burmah Trading Corporation Ltd.
- 20. United Commercial Bank
- 21. Warner Hindustan Itd.

State Bank of India Lean Assistance Scheme

The State Bank of India agreed to give loan assistance up to Rs. 2 lakes every year to our students as per the terms and conditions of their loan scheme. Under this scheme, financial assistance of Rs. 1,34,700 was given to 39 first year students and 39 second year students.

Scholarships for PMA

The Gujarat State Fertilizer Co. Ltd. has instituted two scholarships for the Programme for Management in Agriculture students. The value of the scholarships is . Rs. 3,500 per annum.

The Bank of Baroda gave loan assistance of Rs. 68,500 to 25 atudents of the Programme for Management in Agriculture.

The Institute is grateful to the Government of India, Commercial organizations, State Bank of India, and Bank of Baroda for their help and support to the Financial Aid Programme of the Institute.

PROGRAMME FOR MANAGEMENT IN ACRICULTURE

Admissions

The Admission work for the 1972-73 batch was initiated as early as November 1971. About 400 request were received for applications, and about 250 candidates finally applied for the programme. A main feature of the admission procedure for this batch was that the admission was restricted only to candidates having Masters! Degree in Agriculture, Animal Science or allied subjects or B.Sc. Degree in Agricultural Engineering. The applicants were divided into three broad categories, Agriculture and Animal Science, Agricultural Engineering, and Humanities and Social Science with specialization in Agricultural Economics or Rural Sociology. There was also an upper age limit of 30 years for admission.

Based on the composite scores of previous academic record, work experience, extra curricular activities, admission tests, group discussion and interviews, 35 candidates were selected.

Further details are given below:

	<u>Candidates</u> No.	selected %
Educational Background	2100	P
Agricultural Engineering	. 14	35 . 0
Agricultural Sciences	25	62.5
Humanities and Basic Science .	1	2.5

	Candid	ates Selected
	No.	H
Work Experience	22	<i>55</i> .0
Without work experience	18	45.0
<u>Age</u>		
20	5	12.5
21	3	7.5
22	5	12.5
23	6	15.0
24	6	15.0
25	5	. 12.5
26.	3	7.5
27	5	12.5
26		s-148
29	1	2.5
30	_1_	2.5
Average age		23.8

Course contents

The courses on Agricultural Technology and Research lethodology offered in 1971-72 were dropped.

The new courses, Marketing Communication and Marketing Research, were introduced. The participants were also exposed to two other courses, each with 10 sessions, on Computer and Written Analysis and Communication. The Computer course was

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offered during the first term to familiarize the participants with theuse of the computer facilities. The Written Analysis and Communication course was offered in the second term to improve the skills of analysis and written communication in management situation.

The regular courses were over by March 20, 1973, and the participants worked on research projects for about a month under the supervision of faculty members.

The 1973-74 batch

Admission work for 1973-74 batch had begun by November 1972. About 400 applications were received. The selection criteria for the 1973-74 batch remained more or less unchanged, except for slight variations in the weightages on different components.

The faculty agreed to offer the same courses as in 1972-73.

PGP-PMA Merger

The Institute's faculty had earlier decided to integrate the present Post-Graduate Programme and the Programme for Management in Agriculture. A Committee of faculty members has been appointed to work out the details.

FELLOW IN BUSINESS ADMINISTRATION PROGRAMME

The year 1972 began with a class of 11 students. Of the four students admitted in the previous year, one has completed the qualifying examinations and is working on the dissertation. Three other students have completed their course requirements.

To formalise the various details of the programme, the FBA Committee prepared a comprehensive note for the first year admission, promotion from first year to second year, placement of students at the end of first year, second year courses, qualifying examinations, and dissertation requirements. The faculty, in its meeting of Nov. 27, 1972, agreed in general with the recommendations made in the note.

The Committee paid special attention during the year to the development of the advanced courses to be offered during the second year of the programme. Consequently, 16 courses were developed during the year.

On the basis of written tests and application ratings, the committee interviewed 55 candidates and finally selected 11 persons for admission to next year. Information on the number of applications received, persons called for interview, and persons finally selected is given below:

Area of specialization	No. of applications received	No. of persons called for interview	No. of persons selected	
Organizational Behaviour	7 8	1£	2	
Marketing	2 7	B	1	
Economics	40	8	1	
Production and Quantitative Methods	173	19	6*	
Finance and Accounting	47	8	1	
Agriculture	25	<	-	
Area not mentioned	4	-	-	
· ·	454	55	11.	

^{*}including two candidates placed on the waiting list.

PART III

EXECUTIVE DEVELOPMENT PROCRAMMES

EXECUTIVE DEVELOPMENT PROGRAMMES

The Institute conducted ten executive development programmes - two in general management, five in functional management, and three in sectoral management. To these ten programmes, 331 organizations sent participants. Of these, 207 were from the public sector and 124 from the private sector. The number of participants in these programmes was 499 -- 35% from the public sector/government and 65% from the private sector.

The new executive development programmes committee appointed in October 1972, for a term of two years, consists of the following members:

Prof. Keshav Prasad .	. Chairm
Prof. S.K. Bhattacharyya Prof. V.K. Gupta	Member "
Prof. Ravi J. Matthai	11
Prof. C.N.S. Nambudiri	p. p
Mr. S. Sreenivas Rao	· • H

A four weeks training programme for Trade Union

Leaders conducted on the campus with the financial support

of Government of Gujarat needs special mention. The programme was designed for active trade union leaders with a

view to help them in the management of trade unions as viable
social organizations. The Institute received excellent

response from trade unions as well as industrial enterprises from which the leaders participated in the programme. It is intended to continue this activity as an integral part of the plan to develop a full scale research and training centre for trade unions at the Institute.

Information on the number of companies, public and private, and the number of participants from these two sectors in the various programmes are given below:

• To see the second second				
Name of programme	No. of	companies	No of p	articipants
	Public	Private	Public	Private
Management Development Frogramme	Uct .	* *		w **
for Senior Officers in Uttar			4	
	^{fur} 21		30	<u></u>
Pradesh Government	2.1	· -Tuly,	- LAS	
	e my "r			
3-Tier Programme for Management	0.1	7. F	49	164
Development	21	//	49	104
			•1 E	
Changing Pattern of Industrial				4.6
Relations	9	15	9	16
	i i	1. P	50· =	
Programme on Froduction and			_	
Operations Management	4	- 8	4	8
	œ			
Marketing Information and		: · · · · ·	. w	
Decision Making	3	14	[†]	14
F.	,	•		
Applications of Operations Research	14	a 12	20	17
Applicacions of spectation	For a	* · · · · · · · · · · · · · · · · · · ·		
Agricultural Management	21	. 13∗	23.	. 15
Wellcalcardi Hambenon				
Programme for Trade Union Leaders		, u	-	
	19	, c	18	11
of Gujarat				
The state of the s		17 17:		
Workshop on Design and Implementa-		* 3		
tion of Management Flanning and		41	o ·	51
Control Systems	9.	41.	7	
		3.0	10	19
Rice Mill Management Programme	10	18	18	17

GENERAL MANAGEMENT

Management Development Programme for Senior Officers in Uttar Fradesh Government (April 23 - May 6, 1973)

Objectives: To provide the participants an introduction in basic concepts of management; skills and attitudes for assessing the working of industrial organizations; giving a general direction and bringing about change in these organizations; a degree of familiarity with modern management techniques used in key functional areas of business organizations.

Content: Operations Management, Marketing Management, Financial Management, Managerial Accounting, Organizational Behaviour and Management of Change, and Business Folicy.

3-Tier Programme for Management Development (Jan. 7-Mar. 3, 1973)

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Objectives: The 3-TP is a programme for management development aimed at improving the analytical abilities and managerial competence of participating executives. The concept of the 3-Tier Programme is based on the realization that management development in organizations is more effective and useful when change is initiated simultaneously at different levels in the organizations. The programme objectives and

content are different for each tier. While the emphasis in Tier I (Middle Management Course) is multi-functional and integrative in its approach to management tasks, in Tier II (Senior Executives Seminar) the focus is on the problems of operational planning and control in management. In Tier III (Top Management Seminar) the accent is on the appraisal of relevant factors in the environment and corporate planning with regard to the formal process of review of strategy and organizational structure.

Content: Tier I: Business Policy, Finance, Management, Accounting and Control, Marketing, Managerial Economics, Industrial Relations, Organizational Behaviour and Production Management.

Tier II: Business Policy, Finance, Management Accounting and Control, Marketing, Managerial Economics, Industrial Relations, Organizational Behaviour, and Production Management.

Tier III: Business Policy, Environmental Scanning for Corporate Planning, Industrial Relations, Organizational Behaviour, Long Range Planning, Managerial Economics, and Finance.

FUNCTIONAL MANAGEMENT

Patterns of Industrial Relations (Apr. 27 - May 6, 1972)

To help the participants in improving their effectiveness in dealing with industrial relations problems.

Content: Inter-group conflict and its resolutions, Dynamics of Labour-Management Relations, Government Labour र विश्वचार्य अनुसन्धि 🛴 Policy and Industrial Relations, Industrial Relations and Indian Society, Technology and Industrial Relations, Wage vo atmospherical and Technology and Industrial Relations, Wage Policy and Wage Determination, Collective Bargaining, Inter-Union Rivalry, Discipline and Grievance Handling and Workers ^{. ម}ទេសិកសម្ព័ត្រមុំ ដោយសំរយៈទ Participation in Management.

Programme on Production and Operations Management (Apr. 30 - May 20, 1972) $a_{i}^{2}a$

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ch i na bh siderc bei Objectives: To acquaint the participants with a The Salarda Basic Fell William Tale of a perfect for system approach to complex production problems; impart Politika dara beritan saksimat ayek kompeksi esiketa ayek iyo kompeksi iyo skills in the application of relevant methods of analysis to specific production problems; and familiarize them with tools and techniques for analysis of operational problems.

Content: Operations Efficiency, Costs for Decision
Making and Control, Operations Research and Analysis, Operations Planning and Control, Human and Industrial Relations,
Manufacturing Policy, and Comporate Strategy.

Marketing Information and Decision Making (June 4 - 24, 1972)

Objectives: To help decision makers in marketing to formulate answers to the following questions:

- 1. What information is needed to understand the marketing environment better?
- 2. How could the marketing opportunities and risks be identified?
- 3. How to obtain relevant information for the purpose of improving the quality of decision making within the organization?
- 4. How to collect, analyse, and use information?
- 5. What cost is worth paying for new or additional information?

The Programme was designed to:

- Develop an understanding of the changing marketing environment and the opportunities it offers;
- Explore new ways of thinking about the inter-related and complex nature of the problems and decisions in marketing;
- 3. Sharpen the analytical skills of the participants by introducing them to new concepts and techniques as

- . 4. Highlight the role of information in decision making including improved ways of using judgement;
- 5. Expose the participants to issues of marketing planning and control bearing upon short and long-term strategies; and
 - 6. Gain greater insights into marketing problems through their involvement in the analysis of real-life marketing cases.

Content: The Planning Process in Marketing, Marketing opportunity and Environment, The Concept of Segmentation,

Behavioural Approaches to Segmentation, Information and

Research in Marketing, Demand Analysis, Consumer Behaviour,

Decision Theory Applications in Marketing, Decisions and information relating to: Product Policy, Pricing Distribution,

Sales Management, Advertising and Promotion, and Formulating and Implementing the Marketing Plan.

Applications of Operations Research (Sept. 20 - Oct. 4, 1972)

Objectives: To acquaint the participants with the fundamental principles of O.R.; demonstrate the applicability of these techniques to a variety of real-life complex problems; familiarize the participants with the methods of solution by the above techniques with the use of computers; and provide a common forum for the exchange of views from the experience of participants and discussion of problems from their organizations.

Content: Linear Programming and Applications, Transportation Problems and Related Topics, Integer and Mixed-Integer Programming, Network Flow Theory and Application, Quantitative Approaches to Marketing, Decisions under Risk and Uncertainty, Applications of Queueing Theory, Production Flamming and Inventory Control, and Dynamic Programming and Applications.

Workshop on Design and Implementation of Management Planning
and Control Systems
(Dec. 10 - 16, 1972)

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design and implementation of management planning and control systems.

Content: Framework on Management Control, Organizational Objectives, Organizational Structure and the Management Control System, Identification of Responsibility Centres for Effective Management Control, Translating Organizational Objectives into Short-Term Plans and Budgets, and Formulation of Standards.

Programme for Trade Union Leaders of Gujarat (Dec. 10 - Jan. 6, 1973)

Objectives: To help the participants in developing the necessary awareness and skills to adopt a professional approach to their tasks as trade unionists.

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SECTORAL PROGRAMMES TENDED TENDER TENDER TENDER

SECTORAL PROGRAMMENT OF THE SECTION Agricultural Management Programme beams to associate the second section of second $\sigma \bar{u}$

nt rento Objectives: To Help the participants acquire greater depth in the management skills required for dearing with agricultural inputs; familiarize the participants with the agricultural environment in which the managers dealing with i (582) an ita-Antacleri i agricultural inputs have to work; make the participants aware of the process of consumer behaviour and the specific problems which farmers face in obtaining and using these inputs, fami-That I have liarize the participants with the rural social structure as a new and distinct market with increasing income and with the use of communication skills in designing rural sales promotion programmes; and make the participants aware of the interdependence between each input to plan an integrated system of supplies.

Content: Marketing, Economics and Quantitative Methods, Agricultural Finance and Organizational Problems

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Rice Mill Management Programme (Apr. 18 - May 6, 1972)

Objectives: The objectives of the programme were:

- Help participants to acquire decision-making skills in evaluation of proposals for modernising milling, parboiling and storage equipment.
- Familiarise the participants with problems of procurement and milling and ways and means of overcoming them.
- Develop skill in the use of modern management tools and techniques.
- 4. Help understand the technological implications of modernisation in rice industry.

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Contents: Production Enhancement and Procurement of Paddy, Processing, Marketing and Technological Aspects.

INTER_UNIVERSITY RELATIONS

Prof. S.C. Kuchhal was deputed as a member of the task force of the All India Board of Technical Studies in Management, Ministry of Education, to evaluate the performance and assess the needs of the university departments of management studies under the Fifth Plan. He visited eight universities for assessing their programme and requirements to determine their needs under the Fifth Plan.

Two programmes for university teachers are being planned for next year. One is in operations research and the other in general management.

PART IV
SECTORAL ACTIVITIES

:

CENTRE FOR MANAGEMENT IN AGRICULTURE

The Centre for Management in Agriculture continued its activities in the areas of research and teaching. During 1972-73, 10 research projects were completed and 13 projects were in progress. The teaching activities included the Programme for Management in Agriculture and two executive development programmes. The CMA faculty were also involved in a number of assignments with professional and government agencies as members of working groups and participants in research and training programmes.

RESEARCH COMPLETED

 Assessment of Requirements of New Seeds and Developing Seed Industry

Professors V.N. Asopa, D.K. Desai and Mr. B.C. Fatel

Sponsor: National Commission on Agriculture.

Objectives:

.::DTLATOT:

- To assess the requirements of high yielding seeds of major cereal crops in 1985 and the corresponding requirements of foundation and breeder seeds.
- To enquire into the current status and future projections of these seeds and identify areas that need improvements in respect of production and distribution of breeder, foundation, and certified seeds.
- To suggest an appropriate organization of the various agencies involved in the production and distribution of seeds.

The report was submitted to the National Commission on Agriculture and the Commission has released it for wider circulation.

2. Consumption Pattern and Preferences for Rice

Professor P.3. George, Dr. V.V. Choukidar, and Mr. M.5. Dave

Sponsor: Ministry of Agriculture, Government of India

Objectives:

- 1. To study the food habits and the consumption pattern of rice consumers.
- To analyse the sources of market information available to rice consumers and to assess their mass media habits.
- 3. To study their attitude towards the consumption of HYV paddy and to understand the consumers' perception of varietal characteristics.
- 4. To analyse the correspondence between the consumer preferences and the use pattern of different varieties of rice.

3. Growth of Fertiliser Use in Districts of India: Ferformance and Folicy Implications

Professor Sunvant M. Desai, and Mr. Gurdev Singh.

Sponsor: National Commission on Agriculture.

Objectives: Identifying fectors behind growth in demand for fertilizers in India.

The report was submitted to the National Commission on Agriculture, and the Commission has released it for wider circulation.

- 4. Financine an Area Development Programme through Area Approach
 Professor D.K. Desai and Mr. Hari Prakesh

 Sponsor: Ministry of Agriculture, Government of India
 Objectives:
 - 1. To understand the process of planning and implementing the financing of an agricultural development project through an ar a approach.
 - 2. To identify problems at each level of decision making.

The grange area.

- 5. Dynamic of Growth in Fertiliser Use at the Micro Level
 Professor G.M. Desai, Messrs F.N. Chary and S.C. Bandopadhyay

 Sponsor: Ministry of Agriculture, Government of India
 Objectives: Developing a methodology to examine demand for
 fertilizer using continuous cross-section data of fertiliser practices
 of a sample of cultivators from Guntur District, Andhra Fradech.
- 6. Small Farmers: Their Problems and Possibilties of Development Professor K.K.J. Chauhan, Messrs. S. Mundle, N. Mohanan, and D. Jadav

Sponsor: Ministry of Agriculture, Government of India

Objectives: The problem of making small farmers viable is at the core of the general problem of rural poverty in India. However, researchers in this field are still trying to arive at some consensus about the factors which constitute the major bottlenecks to the viability of small farmers and how non-viable small farmers can be made viable. This was the central concern of the study.

Specifically the study attempted:

- To derive a criterion for distinguishing between viable and non-viable small farmers.
- To identify the basic factors affecting the viability of small farmers.
- To examine the available possibilities and alternatives for the development of viable and nonviable small farmers.
- 4. To evolve a policy frame or strategy for the development of non-viable small farmers into viable units.
- To throw light on the impact of the intensive area development scheme (IAD) operating in the Sangli district of Maharashtra on the viability of small farmers.

7. Management of Technological Change in Dry Farming Areas

Professor M.S. Krishnaswamy and Mr. K.V. Patel

Sporsor: Ministry of Agriculture, Government of India

Objectives:

- To ascertain the nature and components of the recommended dry farming technology in the selected areas.
- To assess the nature and level of adoption of the recommended technology attained by the farmers.
- 3. To study the economic viability of the recommended technology as presently adopted by the farmers.
- 4. To study the institutional support presently available for the adoption of the recommended technology.

8. Organizational Set-up of ICAR

Professors Kamla Chowdhry, V.R. Gaikwad, and S.K. Bhattacharyya

Sponsor: National Commission on Agriculture.

Objectives: Examining the organizational structure of IGAR with different constituting and other institutions associated with agricultural research for helping the Commission in defining IGAR's role in promoting and facilitating agricultural research and education.

The report was submitted to the National Commission on Agriculture, and the Commission released it for wider circulation.

9. Role of Opinion Leaders in Accelerated Change in Agriculture in Kaipur District (Phase 1)

Professor V.R. Gaikwad, Mr. B.L. Tripathi, and Dr. G.S. Bhatnage

Sponsor: Ministry of Agriculture, Government of India

Objectives: The main objective of the study was to develop an understanding about interpersonal communication processes involved in adoption and diffusion of certain agricultural technologies in a given social system.

The study was taken up in two phases. The objectives of Fhase I were:

- To develop an understanding of the village setting and the agricultural setting.
- 2. The sources of information used by farmers.
- The leadership structure and its influence on inter-personal communication.

The major areas of enquiry for Phase I were as follows:

- 1. Relevant elements of the village social system.
- The agricultural setting; changes with reference to the use of fertilizer and improved variety
 of seed over a period of time.
- 3. Sources of information utilized by farmers at various stages.
- 4. Factors influencing interpersonal communication opinion leaders and their characteristics, heterophily and homophily between leaders and followers,
 nature of dependence of followers on leaders, and
 the role of opinion leaders in communication of
 new ideas.

10. Kole of Opinion Leaders in Accelerated Change in Agriculture in Kaipur District (Phase II)

Professor V.R. Gaikwad, Mr. B.L. Tripathi, and Dr. S.M.S. Haque

Sponsor: Ministry of Agriculture, Government of India

Objectives: Phase II of the study was an action programme.

The objectives were to understand the role of opinion leaders:

- In the communication of information pertaining to an innovation in a village community.
 - In decision making processes associated with the adoption of an innovation.

RESEARCH IN PROGRESS

1. Farm Mechanization Project

Professors C. Gopinath and D.K. Desai

Sponsor: International Bank for Reconstruction and Development

Objectives: This three year research project will study the effects of agricultural mechanization on productivity and employment.

Collection of data for 1971 kharif and rabi seasons were completed from the four cropping zones selected for the study.

The processing and analysis of data and report preparation are under way.

2. Systems analysis of Irrigation Agriculture in the Command Area of the Mahi-Kadana Dam Project

Professor V.N. Asopa and Mr. S. Mundle

Sponsor: Ministry of Agriculture, Government of India

Objectives: To study:

1. The optimal timing and amount of water for field crops.

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- The optimal distribution of a given volume of water to be provided, the timing of the availability of water, and the assurance of supply.
- 3. The effect on output of departing from the optimal policies constructed under 1 and 2.
 - 4. The optimal cropping patterns that are consistent with the soil, climate, and water availability in the region.

- The input requirements for optimal cropping patterns under 4.
- The adjustment of rural people and their institutions to changes in agricultural technology.
- The development of institutions for water management and their role in fuller utilization of irrigation potentials.

Sampling design has been finalized.

3. <u>Cultivators' Experience with High Yielding Varieties</u> of <u>Cotton</u>

Professor G.M. Desai, Messrs. Gurdev Singh and S.C. Bandopadhyay

Sponsor: Ministry of Agriculture, Government of India

Objectives:

- To examine the yield of local and HYVs of cotton at the farm level.
- 2. To examine the structure of inputs used on local HYVs of Cotton.
- 3. To compare the yield of HYVs under experiment station conditions with that under farm conditions and identify the major factors behind difference in yields under the two conditions.
- 4. To determine the preconditions necessary for the successful adoption of HYVs of cotton.

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5. To examine the implications of the HYVs of cotton for input requirements.

The study is undertaken in the Modasa Taluka of Sabarkantha district of Gujarat State and is confined to six villages selected in this taluka. Seventy hybrid cotton growers and 30 non-hybrid

cotton growers were selected at random from these villages.

Data is being collected.

4. Rice Economy of India

Professor P.S. George and Dr. V.V. Choukidar

Sponsor: Ninistry of Agriculture, Government of India

Objectives: To develop a commodity system for rice at the macro level. The system would attempt to synthesize the available information on the inputs going into production, procurement and processing of paddy, and distribution of rice. Attempts will also be made to analyse the role of different agencies involved in the system and the share of consumers' price retained at each level.

Data has been collected.

5. Project on the Management of Technological Change in Dry Farming Areas - Phase 11

Professor N.S. Krishnaswamy, Messrs. K.V. Patel, and D.K. Narayana Rao

Sponsor: Ministry of Agriculture, Government of India

This project is undertaken by the Institute in collaboration with the National Institute of Bank Management, Bombay.

This is a follow-up of the benchmark study on the Management of Technological Change in Dry Farming Areas conducted in 1971-72 in Bellary District of Mysore and Fancismahals District of Gujarat State.

Objectives:

- 1. To induce selected farmers in the selected villages in two districts to adopt a package of improved practices (These practices have already been evolved for the two districts in the workshops conducted in Bangalore and Ahmedabad in July 1971.)
- 2. To study the nature and relative importance of factors facilitating or inhibiting technological change.
 - 3. To study the economics of adoption of the package of improve practices and to evolve guidelines for financing the adoption of new technology by the farmers.

Data on the action programme of the dry farm research project from the participating farmers in the selected villages of Bellary district have already been collected for the kharif season. The data collection for the rab' season in Bellary district will be completed by June 1973.

The follow-up of action programme of the dry farm research project could not be implemented in Panchmahals district in 1972-73 because of serious drought conditions.

6. Investigation into the Employment Pomential for the Umskilled and Marginally Skilled in the Rural Sector

Professor S. Sambrani and Mr. B.S. Pathak

Sponsor: Ministry of Agriculture, Government of India

Cbjectives: A supply and demand analysis of specific activities for providing employment in para-agricultural and non-agricultural sectors in the rural areas, with a study of

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cet. par. factors affecting such a static analysis. This study will provide guidelines for formulating a dynamic policy.

Based upon the published census data and information collected from various government agencies, an index of progress in the various districts in Gujarat State was developed. On the basis of this index Panchmahals district was selected for study. A similar index was created for the taluka of Panchmahals district. A sampling design was then evolved for the study. Data collection and discussions with officials and non-officials have been completed.

7. Modernising the Wheat Industry System

Professor K.K.S. Chauhan and Mr. N. Mohanan

Sponsor: Centre for Management in Agriculture, IIMA

Objectives:

- To study the different types of wheat flour mills, flour milling firms, and their role in wheat processing.
- To examine critically the various integrated/integrable marketing functions performed by various flour milling firms such as procurement, assembly, transport, storage processing, and distribution.
- 3. To examine the new technological developments in the wheat flour milling industry affecting marketing functions, scale economies of different sized plants.
- 4. To examine the possibilities of modernization of the existing flour milling industry.
- To explore the possibilities of diversifying the flour product lines of the milling industry and to produce consumer packaged goods.

A questionnaire for collecting data has been prepared.

Data collection will start in May, 1973.

8. Agricultural Communication Through TV and Factors
Affecting Loss of Information

Professor P.M. Shingi and Miss Bella Mody

Sponsor: Centre for Management in Agriculture, IIMA

Objectives:

- To investigate the nature of degree of information loss that takes place when the farmer views television programming.
- To identify the factors responsible for this information loss and distortion, if any, viz.,
 - a) Source characteristics
 - Specific message characteristics of the two selected programmes
 - c) Channel (T.V.) Characteristics
 - d) Characteristics of the viewing situation in the village
 - e) Receiver (individual farmer-viewer) characteristics.
- 3. To suggest, based on this inquiry, ways and means to optimize agricultural television communication effectiveness, given the premium placed on conveying accurate timely information to large audiences for planned change efforts.

Discussions were held with the IARI scientist-writers of the two selected programmes, their AIR Krishi-Darshan producer, and 103 farmers. The data is being analysed.

9. <u>Flanning and Implementation of Modernization Programme in Rice Processing Industry</u>

Professor V.K. Gupta and Dr. F.V. Krishna

Sponsor: Centre for Management in Agriculture, IIMA

Objectives:

- To identify the socio-economic problems in the process of modernization.
- To assess the economic viacility of different stages of modernization.
- 3. To assess the economic performance of the modern units.
- 4. To identify the typical management problems in the selected modernized units.

A list of the modern rice mills in West Bengal and Orissa was collected and 15 mills were selected from them for the study. The field work was completed in February and March 1973.

10. Farm Power: Characterisation of Trends and Prediction of Future Demand

Professor G. Sharan, Mr. D.P. Mathur, and Alss Maya Viswanath

Sponsor: Centre for Management in Agriculture, IIMA

Objectives:

1 of 3

1. To determine the available farm (mechanical and biological) power level of the farms of typical sizes and growing typical combination of crops. The existing pattern of farm power use will be characterized by the total power used in a year, contribution of its three components (men, cattle, and machines), and the year round distribution of power need.

- 2. To determine the factors affecting the substitution of biological by mechanical source of power. Later it will be ascertained if the forces acting as prime mover in the process of substitution are the same for all catetegories (size of holding and combination of crops) of farmers and act with the same intensity. In particular relationship between the level of farm technology and mechanization will be established.
- 3. To describe the future behaviour of the above factors and forces. It will be possible to predict the course of mechanization and estimate the rate at which the biological sources (human and cattle) will be replaced by the machinical one. On the basis the potential farms which are likely to own a tractor or hire a tractor or depend entirely on the biological power will be identified and the demand for tractors (ownership, custom hiring) will be computed.
- To determine the operationwise requirement of farm power for each crop combination.

Data collection was completed in February 1973. The survey through structured questionnaires included a total of 150 farms drawn from three major crop zones of the State and five different sizes of holdings.

Report writing and analysis of the third zone data is underway.

11. Area Planning and Utilization of Ground Water Resources
(Phase I)

Prof. C. Gopinath and Mr. P.H. Chary

Sponsor: Centre for Management in Agriculture, IlMA

Objectives: 1) Making quantitative assessment of the capacity and recharge conditions of acquifers and 2) The control and regulation of numping from them so as to avoid over-exploitation.

The project visualizes undertaking studies in a "ground water watershed area" to:

 Assess the capacity and recharge conditions of acquifers in the watershed.

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- Examine the present pattern of ground water utilization from the watershed.
- Prepare in an integrated manner plans for the optimum development of water resources from the watershed.

This project which is expected to illustrate area planning of ground water resources, will help us in arriving at better management decision with reference to ground water utilization.

a part of the literature survey was completed.

12. A Study of the River-Bed Potato System

Professor P.S. George and Mr. S.N. Choksi

Sponsor: Centre for Management in Agriculture, IIMA

To study the economics of potato cultivation b ston a. itari in the Sabarmati river-bed for understanding the total system. In particular, the study aimed at:

- Understanding the production practices for potatoes in the river-bed.
- Analysing the patterns of storage, transportation, and disposal of potatoes. ,), j
- Understanding some of the structural aspects of the Ahmedabad potato market. and the second second

i si ka kasadi. The report is under-preparation.

The state of the second second Patterns of Interaction and Communication in a Village 13. Community

Professor V.R. Gaikwad and Mr. B.L. Tripathi

Sponsor: Centre for Management in Agriculture, 11MA المنظومات المنظور المنظور

Objectives:

- To get a deeper understanding of the village social system.
- To understand the pattern of interaction and communication in a given social system.
- To know the role of factors like caste and class in the pattern of interaction and communication;

The report is being written.

In addition to these 13 projects initiated during the year, the faculty members had also prepared tentative outlines for the following projects to be initiated in 1973-74.

- 1. Management of Agri-business System (0il seeds)
- Management of Agri-business System (Fruits and Vegetables)
- 3. An integrated Area for Development Strategy with particular attention to the Weaker Section of the Society
- 4. Impact of Institutional Finance on the Weaker Section of the Eural Sector
- The Economic of Conjunctive Use of Ground and Surface Water
- Area Planning and Utilization of Ground Water Resources (Phase II)
- 7. Poverty, Social Change, and Management of Communication
- 8. Management Problems in Sea Food Processing and Marketing
- Potential for Custom Hiring of Agricultural Machinery in Gujarat State
- 10. Gujarat Government Project on Agricultural Development Administration.

OTHER ACTIVITIES

Seminar on Rural Development for Weaker Sections

This seminar was conducted at the Institute from October 1 to 3, 1972 in collaboration with the Indian Society of Agricultural Economics. This was attended by 26 eminent economists from different Universities and Administrators from the Governments. Dr. B.S. Minhas, Member, Planning Commission, inaugurated the seminar and Professor M.L. Dantwala chaired the seminar. Many of the CMA faculty members presented papers at the seminar and also actively participated.

The faculty members had also been making preparation for offering two programmes - Rice Mill Management Programme (RMMZ) and Agricultural Programmes Management (APM) - during 1973 summer. The Rice Mill Management Programme is to be offered in collaboration with Rice Process Engineering Centre at Indian Institute of Technology, Kharagpur. The Agricultural Programme Management is organized in collaboration with the Lal Bahadur Sastri National Academy at Mussorie for IAS probationers.

PUBLICAT IONS

The following publications were brought out by the Centre:

- 1. Production and Marketing Pattern of Paddy (A Study of Local and High Yielding Varieties in West Godavari district by Prof. P.S. George and Dr.V.V. Choukidar
- 2. Consumption Pattern and Preferences for Rice by Prof. P.S. George, Dr.V.V. Choukidar, and Mr. M.S. Dave
- 3. Abstracts of Research Studies in Management in Agriculture (1966-72)
- 4. An Organization Study of the ICAR
 by Profs. Kamla Chowdhry, V.R. Gaikwad, and S.K.
 Bhattacharyya
- 5. Assessment of the Requirements of High Yielding Seeds and the Development of the Seed Industry by Profs. V.N. Asopa and D.K. Desai
- 6. Opinion Leaders and Communication in Indian
 Villages
 by Prof. V.R. Gaikwad, Mr. B.L. Tripathi, and
 Dr. G.S. Bhatnagar
- 7. Planning and Implementation of Financing Agriculture
 Through Area Approach
 by Prof. D.K. Desai and Mr. Hariprakash
- 8. New Opportunities in Changing Agriculture
 (Proceedings of the Seventh Alumni Conference, 1972)

Part V RESEARCH

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RES EARCH:

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A Note on Research Activity

The Research Committee, after it was reconstituted in November 1972, decided to play a more active role in stimulation of the research activity. As a first step in this direction, the committee identified ten topics for investigation. These topics were selected on the following considerations;

- They are of considerable interest to policy makers in government and to managers in the industrial sector, both public and private.
- Not enough research has been done on these topics.
- 3. Research on these topics is likely to make substantial contribution towards development of new concepts, besides providing answers to practical questions.
- Research on these topics will require skills in many disciplines.

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A list of these topics is given below:

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- State intervention in distribution of items for mass consumption
- Management of research and technology
- 3. Reporting and information for government agencies
- 4. Industrial management, employment, and technology
- 5. Policy and planning in selected government agencies
- 6. Cost competitiveness of India exports
- 7. Management of planning in India
- 8. Growth and distribution of income
- 9. Inventory decisions in the public sector
- 10. Scheduling problems.

The faculty response for undertaking research on these topics is satisfactory. Groups have been formed to formulate these problems in precise terms and to chalk out a course of action for resolving these problems.

The committee has also introduced a new technical report series for enabling faculty members to publish their research findings speedily. One report by Prof. A. Ghose and Mr. Anand S. Dhawle has been brought out under this series.

Two faculty seminars were organized by the committee to discuss the research work currently in progress. The papers presented in these seminars were:

- Regional Development and Multi-level Planning: A Proposal for Decentralization by Prof. S.K. Mukherjee
- Organization of Knowledge and Information by Prof. A. Ghose and Mr. anand S. Dhawle.

A. W. Charles and San Angles (1971).

Research Projects

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As on March 1973, there are 25 ongoing projects in hand. Out of these, 3 are "seed money" projects, 7 are sponsored by outside agencies, and 15 by the Institute. One project is under consideration of the committee for financial assistance.

The Director and the Chairman of the Research

Committee have started a drive to obtain grants from the industry for supporting the research activity at the Institute. The initial results have been encouraging.

A grant of Rs.10,000 from M/s kasiklal Maneklal, Bombay was received. Encouraged by this result, we are planning for an intensive effort during the coming year.

The Research Committee consists of the following

members:

Prof.	V.L. Mote		Chairman
Prof.	G.M. Desai		Member
Prof.	M. Kaghavachari		11
Prof.	B.G. Shah	1000	10
Prof.	B.K. Sharma		, y · · ·
	C D Wadhya	A 40	11

REPRINTS

The following reprints have been brought out:

- Effect of Fittingness, Type of Goods and Type of Slogan on Brand Awareness by Sasi Misra and Subhash Jain.
- Concept of Planning: A Case Study by V.L. Mote and B.G. Shah.
- 3. Mapping of Second-Generation Problems Related to Food Eroduction: Rice and Wheat in India by D.K. Desai.
- Government Securities Market in a Mixed Economy: A Study of India by C. Rangarajan.
- 5. Union Involvement by B.R. Sharma.
- 6. Occupational Values and Euriness by B.E. Sharma.

. .

7. Computers as Aids to Management Decisions:
Application to Linear Programming by E.G. Shah
and V.L. Mote.

CONSULTING

The Institute permits limited consultancy to its faculty members to keep in touch with the problems of industry. The faculty undertook 31 consulting projects for Government, Public sector undertakings and Private industry during the year under report.

PART VI

PLACEMENT

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PLACEMENT

In the graduating class of 1972-73 of the Post-Graduate Programme, there were 100 students for placement.

All of them have received one or more firm offers. As in the past, there was a high preference for career opportunities in the Marketing area.

From 162 companies and organizations, 275 permanent placement opportunities were announced. The job announcements in various areas were as follows;

A Market Land

		- F	
1.	Marketing	ल ^{िक} ासि, हुस किक	98
2.	Production	(* *o,;	36
3.	Finance	• •	41
4	Personnel	130 (4)	15
5.	0.R.		6
6.	lanagement Trainee		19 0 - Rossy 5.
	(unclassified)	1. 1. 1. 2	1 4
7.	General Administra-		so la .ok
	tion		<u>_60</u> 25-335-35-
			275

Summer Placement

There were 129 students (118 PGP and 11 F βA) to be placed on summer assignments. This was the largest first year

class so far. It was possible to finalize the placement of all the first year PGF and FbA students about one month ahead of the term-end examinations. Requests from many organizations for the first year students for summer assignments had to be turned down.

PMA Placement

The response for permanent placement of the PMA participants was quite encouraging. By the first week of April about half of the participants had received job offers and the rest were expected to be placed before the Convocation. A summary of the placement activities as of April 1, 1973, is given below:

MO. OI Students for processing	34
No. of employers announcing jobs	28
No. of jobs announced (approximate)	59
No. of organizations which have visited the campus for interviews	12
No. of organizations which have called the students for final interviews after the campus interviews actually the campus interviews.	5

No. of organizations which have called the students for off-campus interviews directly	
without visiting the campus	4
No. of companies which have offered jobs	7
No. of jobs offered	17
No. of jobs accepted	12
No. of jobs rejected/lost	4
No. of jobs under consideration	1
No. of organizations in which students have accepted jobs	7
No. of organizations whose job offers are now in the pipeline	14
No. of job offers in the pipeline	12-15
No. of organizations which are visiting the campus for placement for the first time and recruited the students or will be recruiting students.	15

PART VII
ALUMNI ACTIVITIES

ALUMNI ACTIVITIES

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The Eighth Annual Conference was held in Bombay on March 9 and 10, 1973. Management of Industrial kelations was the conference theme. The topics covered in the conference were: 1) The Indian Industrial Worker and Industrial Kelations, 2) Economics of Industrial Kelations, 3) Politics of Industrial kelations, and 4) Formulation of Industrial Kelations Strategy.

The followin; faculty members from the Institute and guest speakers took part in the conference:

IIMA Faculty

Prof. Baldev R. Sharma

Prof. N.R. Sheth

Guest Speakers

Mr. R.K. Talwar, Chairman, State Bank of India

Mr. Mahesh Desai, General Secretary, Hind Mazdoor, Bombay

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Mr. L.C. Joshi, Labour Adviser, Indian Merchants Chamber,

Dr. B.K. Madan, Chairman, Management Development Institute, New Delhi.

Mr. S.k. Mohan Das, Bombay

Mr. D.N. Khurody, Controller - Administration, Larsen & Taubro Ltd., Bombay

Mr. Vithal Chowdhry, Bombay

Mr. P.N. Krishna Pillai, Trivandrum

Mr. P.K. Mukherji, Director (Personnel) I.C.I.(I) Pvt. Ltd., New Delhi

79 participants attended the conference.

I. 524 x 1 244

Alumni Activities Committee at the Institute

j s

A new committee consisting of the following faculty members, was formed:

1. Prof. B.K. Hegde	* (*) (*) * *	Chairman
2. Mr. R.C. Chib 3. Prof. P.S. George	••	Treasurer
	• •	Member
	• •	ore <mark>h</mark> ioles ista se
5. Mr. S. Sreenivas Rao	**	
6. Prof. B.R. Sharma	• • .	t nekalit.i

PGP Alumni Reunion

The Second PGS Alumni Reunion was held at the Institute on April 13 and 14, 1972. The two-day conference was organized in three sessions as follows:

Session I: MBA in the Indian Business World - Career Development

Chairman: Dr. Kamla Chowdhry, IIMA
Speakers: Dr.Kirit Parikh, Atomic Energy
Dr. A.P. Paul, DCM
Mrs. Dilnawaz Varaiva, Grindwell Norton
Prof. B.K. Hegde, IIMA

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Session II: The IIMA Computer - Its Use in Business

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Chairman: Prof. R. Balachandra, IIMA Speakers: Faculty, Computer Centre, IIMA Session III: The PBA and the Community

> Chairman: Mr. K.R. Coorlawala, ACC

Mr. k.S. Ganapathi, Atomic Energy Mr. L.R. Bhandari Speakers:

Mr. Tilak Shankar, A.F. Ferguson & Co.

dr. S.V. Deshmukh, ISRJ Mr. T. Satyanarayanan, L & T

Fortynine alumni participated in the conference. The conference was followed by the Annual General Body meeting of the Alumni Association.

PART VIII

FACILITIES

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LIBRARY

This year 3,833 new books (bringing the total collection to 59,079) were added. Subscriptions to 51 new periodicals were entered, raising the total number of periodicals to 677. In addition, 75 periodicals were received as complementaries. A large number of backfiles of periodicals were obtained, and a large number of corporations were contacted for acquiring their annual reports for filling up the gaps in the Institute's collection.

COMPUTER CENTRE

Teaching

The use of computer was extensively made in various courses. The Production & Quantitative Methods area offered two new computer-oriented courses; Simulation and Cybernetic Models, in the Post-Graduate Programme. A course on "Computers and Information Systems" was also offered in the Fellow in Business Administration Programme. New computer oriented courses are also being developed in the Fellow in Eusiness Administration programme. About 10 sessions on computer programming were taught in the Post-Graduate Programme and Programme for Management in Agriculture.

Software Development

Basic Interpreter for TDC-12 8k machine was successfully tested at Hyderabad in the second week of February 1973. Basic for TDC-12 12K and 16K will be completed by the end of May 1973.

Software activities for improving (a) the facility of manipulating large data in Time Sharing System and (b) developing the Drur Operating System facility for large programmes and data banks have been identified.

The following reports were brought out by the Computer Centre faculty:

1_	TD0-12	Simulator	on	HP_2116B	Report	Ι
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- 2. An Approach Towards Optimal Internal Representation of BASIC Statements on TC-12 computers
- 5. Sample Problems for Programmers
- 4. Study Tour Report & Suggestions for IIMA Computer Centre
- 5. TDC-12 Simulator on HP-2116B Report II
- 6. TDC-12 Assembler on HP-2116B (HPEAL)
- 7. Analysis of Framed Structures

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states was be built for t

- 8. A User_oriented On_line Computer System J.G. Krishnayya to assist decision and analysis in 'Area'
- development planning.

 9. Technological Choices in Developing
- Country The Case of Airlines Reservations.

 10. Computerised Information Retrieval P. for Indian Airlines Flight Schedule J.
- 11. Education for Information Systems
 Development

N.R. Narayanamurthy Mohan Kaul Mohan Kaul

N.R. Narayanamurthy T.P. Rama Rao D. Ranga Rao (ECIL)

J.G. Krishnayya

Rishi Kumar

Mohan Kaul N.K. Narayanamurthy T.P. Rama Rao D. Ranga Rao (ECIL)

Mohan Kaul D. Ranga Rao (ECIL)

J.G. Krishnayya P.C. Gupta

J.G. Krishnayya

P.C. Gupta

J.G. Krishnayya

J.G. Krishnayya

Computer Usage

The following is the TSB and DOS usage for the Computer Centre in various activities:

er all a reflect of the ab

Time-Sharing BASIC

Teaching	••	5,037	Hours
Research	• • • •	1,870	11
Computer Centre Packages			•
		<u>7,300</u>	. 11

Disc Operating System

Software Development

701 Hours

LAND AND BUILDINGS

Buildings

Work on the completion of the Main Complex continued during the year. It is planned to complete the construction of the Faculty Block and two class room before the beginning of the next academic session.

Work is also in progress in finalising the requirements and design of a Kitchen-Dining Unit. The possibility of providing buildings for organising advance management programmes at Ahmedabad is being explored.

Land

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Our request for provision of additional land to IIMA is under active consideration with the Government of Gujarat.

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APPENDICES

APPENDIX A

SOCIETY MEMBERS

Chairman

Mr. S.L. Kirloskar Chairman Kirloskar Oil Engines Ltd. Foona

Members

Mr. J.J. Bhabha The Tata Iron & Steel Co. Ltd. Bombay

Mr. R.M. Bhandari Adviser (Finance) Bureau of Fublic Enterprises Government of India, Delhi

Dr. L.J. Chandrakant Joint Educational Adviser Ministry of Education Government of India Delhi

Mr. L.R. Dalal Chief Secretary Government of Gujarat Gandhinagar

Dr. G.R. Dalvi Executive Director National Productivity Council Delhi

Mr. S.M. Dudani Secretary Education and Labour Dept. Government of Gujarat Gandhinagar Mr. N.J. Kamath
Joint Secretary
Ministry of Industrial Development
and Internal Trade
Government of India
Delhi.

Mr. Kasturbhai Lalbhai Industrialist Ahmedabad

Mr. Harshvadan Mangaldas Chairman Aryodaya Ginning & Mfg. Co. Ltd. Ahmedabad.

Mr. A.N. Mafatlal Mafatlal Gagalbhai & Co. (P) Ltd. Bombay

Mr. J.J. Mehta Chairman Indian Petro Chemicals Corpn. Ltd. Baroda.

Mr. Rohit C. Mehta Rajesh Fextile Mills Ltd. Ahmedabad.

Mr. S.D. Nargolwala FA (EA & E) and Additional Secretary Ministry of Finance Government of India Delhi

Mr. Arvind Narottam Asoka Mills Ltd., Ahmedabad. Prof. S. Paul Director ITMA

Mr. V.G. Rajadhyaksha Hindustan Lever Ltd. Bombay

Mr. M.K. Raju India Pistons Ltd. Madras

Mr. Watwarlal Shah Chairman Gujarat State Road Transport Corpu. Ahmedabad.

Mr. C.P. Srivastava Managing Director & Chairman Shipping Corpn. of India Ltd. Bombay

Dr. M.S. Swaminathan Director General Indian Council of Agrl. Research New Delhi

Ahmedabad Jupitar Sog. Wvg. & Mfg. Co. Ltd., Ahmedabad.

Mr. Mahendralal Kanaiyalal Ahmedabad Kaiser-I-Hind Mills Co. Ltd. Ahmedabad.

Mr. Ramesh Chandulal Mr. Bipin Chandulal Mr. D.R. Desai Ahmedabad New Cotton Mills Co. Ltd., Ahmedabad.

Mr. Jaykrishna Harivallabhadas Mr. Balkrishna Harivallabhdas Ambica Mills Ltd. Ahmedabad. Mr. Chinubhai Manibhai Mr. Shrenik Kasturohai Anil Starch Products Ltd. Ahmedabad.

Mr. Surottam F. Hutheesing Mr. Deepak 3. Hutheesing Aruna Mills Ltd. Ahmedabad

Mr. Niranjan Narottam Lalbhai Mr. Sidharth Kasturbhai Arvind Mills Ltd. Ahmedabad.

Mr. Harshvadan Mangaldas Mr. Madanmohan Mangaldas Aryodaya Spg. & Wvg. Co. Ltd. Ahmedabad.

Mr. Ajay Chimanbhai Mr. Arvind Narottam Asoka Mills Ltd. Ahmedabad.

Mr. C.H. Choksy Director Asian Paints (India) P. Ltd. Bombay.

Mr. K.R. Coorlawala Associated Cement Cos. Ltd. Bombay.

Dr. N.S. Johary General Manager Atic Industries Ltd. Atul

Mr. R.P. Shah Mr. F.N. Shah Bakubhai Ambalal Pvt. Ltd. Ahmedabad. Mr. H.R. Batliwala Mr. J.N. Guzdar Bombay Dyeing & Mfg. Co. Ltd. Bombay.

Mr. F.R. Neelakantan Dy. Chairman & Managing Director Brooke Bond India Ltd. Calcutta

Mr. Suhrid Sarabhai Mr. S.R. Bastikar Financial Controller Calico Mills Ltd. Ahmedabad.

Mr. M.V. Arunachalam Carbonindum Universal Ltd. Madras

Mr. 3. Chaudhuri Commercial Manager Chemicals & Fibres of India Ltd. Bombay

Mr. Harshvadan Mangaldas Mr. Madanmohan Mangaldas The Aryodaya Ginning & Mfg. Co.Ltd. Ahmedabad.

Mr. Manubhai Bhikhabhai Mr. Jayantilal Bhikhabhai Commercial Afmedabad Mills Co.Ltd. Ahmedabad.

Lala Charat Ram
Dr. J.N. Thadani
Delhi Cloth & General Mills
Co. Ltd., Delhi.

Mr. C.K. Hazari Vice President Escorts Ltd. New Delhi

Mr. D.J.R. Farrant
Managing Director
Glawo Laboratories
Bombay

Mr. Shantila**l** K. Somaiya The Godavari Sugar Mills Ltd. Bombay.

Mr. V.G. Rajadhyaksha Hindustan Lever Ltd. Bombay

Mr. S. Chaudhuri Indian Explosives Ltd. Calcutta

Mr. B. Majumdar Indian Tube Co. Ltd. -Bombay

Mr. S.R. Bastikar Kalol Mills Ltd. Ahmedabad

Mr. A.N. Mafatlal Mr. Y.N. Mafatlal Mr. R.N. Mafatlal Mr. F.K. Shah Mafatlal Fine Spg. & Mfg. Co. Ltd. Bombay

Mr. L.D. Vasa Mafatlal Gagalbhai & Co. Pvt.Ltd. Bombay

Mr. J.3. Karkal Mahindra & Mahindra Ltd. Bombay.

Mr. Ramanlal C. Parikh Mihir Textiles Ltd. Ahmedabad.

Mr. Rasikhlal C. Nagri Mr. Bansidhar R. Hagri Nagri Mills Co. Ltd. Ahmedabad.

Mr. Raj Kochar National Machinery Mfrs. Ltd. Bombay. Mr. N.N. Wadia Mr. T.P. Barat Mr. J.N. Guzdar National Peroxide Ltd. Bombay

Mr. R.J. Chinai Managing Director National Rayon Corpn. Ltd. Bombay

Mr. V.C. Vaidya New India Assurance Co. Ltd. Bombay

Mr. Laxmanpresad D. Vasa New Shorrock Spg. & Wvg. Mfg. Co. Ltd. Ahmedabad

Mr. S.K. Agarwal New Swadeshi Mills of Ahmedabad Ltd.

Ahmedabad

Mr. Pratap Bhogilal Shree Ram Mills Charitable Trust Bombay

Mr. Gautam Shantilal Nanavaty Mr. Gautambhei J. Nanavaty Nutan Mills Ltd. Ahmedabad

Mrs. Lilavati Lalbhai Mr. Vijaysinh Chimanbhai Ra pur Mfg. Co. Ltd. Ahmedabad.

Mr. B.V. Bhatt Rajendra Dyeing & Pring Mills Ltd. Ahmedabad

Mr. Rohit C. Mehta Mr. S.G. Dakwala Rajesh Textile Mills Ltd. Ahmedabad.

. .

Mr. Ravindrabhai Chinubhai Mr. Arvindbhai Chinubhai Robit Mills Ltd. Ahmedabad.

Mr. Sakarlal Balabhai Mr. Nandkishore Sakarlal Mr. Navnitlal Sakarlal Sakarlal Balabhai & Co. Ltd. Ahmedabad

Mr. B.R. Deolalikar Sarabhai Management Corpn. Ltd. Ahmedabad.

Mr. Navnitlal Shodhan Mr. Saurabh Mavnitlal Mr. Nandkishore Sakarlal Sarangpur Cotton Mfg. Co. Ltd. Ahmedabad.

Mr. Chinubhai Chimanbhai Sheth Mr. Ashok Chimanbhai Saraspur Mills Ltd. Ahmedabad

Mr. Vadilal Lallubhai Sayaji Mills Ltd. Ahmedabad.

Mr. B.N. Balasaria Mr. S.K. Mundra Shree Digvijay Woolen Mills Ltd. Jamnagar

Mr. Handkishore Sakarlal Mr. Sarabhkumar Navnitlal Silver Cotton Mills Co. Ltd. Ahmedabad.

Mr. Suhrid Sarabhai Suhrid Geigy Ltd. Baroda

Mr. A.N. Mafatlal . . Mr. Y.M. Mafatlal Mr. R.H. Mafatlal Mr. Harshad H. Vasa Surat Cotton Sig. & Wwg. Mills, Bombay

Mr. M.D. Daver Svadeshi Mills Co. Ltd. Bombay

Mr. R. Ratnam T.V. Sundram Iyengar & Sons (P) Ltd. Madras

T.V.S. Charities Madurai

Mr. P.V.S. Manyam Mr. H.F. Shroff Tata Chemicals Ltd. Bombay

Mr. A.N. Maira Mr. R.D. Kulkarni Tata Engineering & Locomotives Go. Bombay

The Secretary
Tata Hydro Electric Power Supply
Co. Ltd.
Bombay

Mr. J.J. Bhabha Tata Iron & Steel Co. Ltd. Bombay. Mr. M.A. Wadud Mr. N.K. Bhada Tata Oil Mills Co. Ltd. Bombay.

Mr. M.Ct. Pethachi Travancore Rayons Ltd. Rayonpuram Kerala

Sheth Natvarlal Ramanlal Sheth Chandravadan Ramanlal Vikram Mills Ltd: Ahmedabad

Col. T.K. Mukherji (Retd.) General Manager Staff & Organization Voltas Ltd. Bombay

Mr. Surindar Singh Personnel Manager Warner Hindustan Ltd. Hyderabad.

Secretary

Mr. R.C. Chib Administrative Officer IMA

APPENDIX B

DONOR MEMBERS

Ahmedabad Cotton Mfg. Go. Ltd.

Ahmedabad Jupiter Spg. Wvg. & Mfg. Co. Ltd.

Ahmedabad Kaiser-I-Hind Mills Co. Ltd.

Ahmedabad New Cotton Mills Co. Ltd. Delhi Cloth & General Mills Co. Ltd.

Ambica Mills Ltd. Nos. I & II

Anil Starch Froducts Ltd.

Apurva Containers Pvt. Ltd.

Aruna . Mills Ltd.

Arvind Mills Ltd.

Aryodaya Ginning & Mfg. Co. Ltd.

Aryodaya Spg. & Wog. Co. Ltd.

Ashoka Mills Ltd.

Asian Paints (INDIA) P. Ltd.

Associated Cament Cos. Ltd.

Atic Industries Ltd.

Bakubhai Ambalal Pvt. Ltd.

Bharat Suryodaya Milis Co. Ltd.

Bombay Dyeing & Mfg. Co, Ltd.

Brooke Bond India Ltd.

Calico Mills Ltd.

Carborundum Universal Ltd.

Chemicals & Fibres of India Ltd.

Commercial Ahmedabad Mills Co. Ltd.

Escorts Ltd.

Glaxo Laboratories

Godavari Sugar Mills Ltd.

Hindustan Lever Ltd.

Indian Dyestuff Industries Ltd.

Indian Explosives Ltd.

Indian Tube Co. Ltd.

Kalol Mills Ltd.

Mafatlal Fine Spg. & Mfg. Co. Ltd.

Mafatlal Gagalbhai & Co. Pvt. Ltd.

Mahindra & Mahindra Ltd.

Mihir Textile Ltd:

Nagri Mills Co. Ltd.

National Machinery Mfrs. Ltd.

National Peroxide Ltd.

National Rayons Corpn. Ltd.

New India Assurance Co. Ltd.

New Shorrock Spg. & Mfg. Co. Ltd.

New Swedeshi Mills of Ahmedabad Ltd.

Nutan Mills Ltd.

Raipur Mfg. Co. Ltd.

Rajendra Dyeing & Printing
Mills Ltd.

Rajesh Textile Mills Ltd.

Rohit Mills Ltd.

Sakarlal Balabhai & Co. Ltd.

Sarabhai Management Corpn.

Sarangpur Cotton Mfg. Co. Ltd.

Saraspur Mills Ltd.

Sassoon Spg. & Wvg. Mills Co. Ltd.

Saurashtra Cement & Chemical Industries Ltd.

Sayaji Mills Ltd.

Shree Digvijay Woolen Mills Ltd.

Shri Ram Mills Charitable Trust

Silver Cotton Mills Co. Ltd.

Standard Mills Ltd.

Suhrid Geigy Ltd.

Surat Cotton Spg. Wvg. Mills (P) Ltd.

Svadeshi Mills Co. Ltd.

T.V.S. Charities

T.V. Sundaram Iyengar & Sons Pvt.Ltd.

Tata Chemicals Ltd.

Tata Engineering & Locomotive Co.Ltd.

Tata Hydro-Electric Power Supply Co.Ltd.

Tata Iron & Steel Co. Ltd.

Tata Oil Mills Co. Ltd.

Travancore Rayons Ltd.

Vikram Mills Co. Ltd.

Voltas Ltd.

Warner Hindustan Ltd.

AZPENDIX C

BOARD OF GOVERNORS AND ITS COMMITTEES

Chairman

Mr. S.L. Kirloskar Chairman Kirloskar Oil Engines Ltd. Poona

Members

Mr. J.J. Bhabha The Tata Iron & Steel Co. Ltd. Bombay

Mr. R.M. Bhandari
Adviser (Finance)
Bureau of Public Enterprises
Government of India, Delhi

Dr. L.S. Chandrakant
Joint Educational Adviser
Ministry of Education
Government of India, Delhi

Mr. L.R. Dalal Chief Secretary Government of Gujarat Gandhinagar

Dr. G.R. Dalvi Executive Director National Productivity Council Delhi

Mr. S.M. Dudani Secretary Education and Labour Dept. Government of Gujarat Gandhinagar Mr. N.J. Kamath Joint Secretary Ministry of Industrial Development and Internal Trade Government of India, Delhi

Mr. Kasturbhai Lalbhai Industrialist Ahmedabad

Mr. Harshvadan Mangaldas Chairman Aryodaya Ginning & Mfg. Co, Ltd. Ahmedabad

Mr. A.W. Mafatlal
Mafatlal Gagalbhai & Co. (P) Ltd.
Bombay

Mr. J.J. Mehta Chairman Indian Petro Chemicals Corpn. Ltd. Baroda

Mr. Rohit C. Mehta Rajesh Textile Mills Ltd. Ahmedabad

Mr. S.D. Nargolwala FA (EA & E) and Additional Secretary Ministry of Finance Government of India Delhi Mr. Arvind Narottam Asoka Mills Ltd. Ahmedabad

Prof. S. Paul / Director IIMA

Mr. V.G. Rajadhyaksha Hindustan Lever Ltd. Bombay

Mr. M.K. Raju India Pistons Ltd. Madras

Mr. Natwarlal Shah Chairman Gujarat State Road Transport Corpn. Ahmedabad

Mr. C.P. Srivastava / Managing Director & Chairman Shipping Corporation of India Ltd. Bombay

Dr. M.S. Swaminathan Director General Indian Council of Agrl. Res. New Delni.

Secretary

Mr. R.C. Chib Administrative Officer HIMA

Building Committee

Mr. Kasturbhai Lalbhai (Chaiman) Mr. S.M. Dudani Prof. S. Paul Mr. R.G. Chib (Secretary)

Budget Committee

Mr. S.L. Kirloskar (Chairman)
Dr. L.S. Chandrakant
Mr. Kasturbhai Lalbhai
Prof. S. Paul
Mr. S.D. Nargolwala
Mr. R.C. Chib (Secretary)

Personnel Committee

Mr. S.L. Kirloskar (^Chairman) Mr. Kasturbhai Lalbhai Prof. S. Paul Mr. V.G. Rajadhyaksha Mr. R.C. Chib (Secretary)

APPENDIX D

FACULTY AND ADMINISTRATION (As on March 31, 1973)

Director

Samuel Paul Ph.D. (Syracuse)

<u>Faculty</u>

V.N. Asopa Ph.D. (Illinois)

R. Balachandra M.E. (I.I.Sc., Bangalore)

K. Halakrishnan
A.I.C.W.A.
M.B.A. (Harvard)
(At Harvard, D.B.A. Programme)

L.R. Phandari Dip. Eus. Adm. (I.I.M.A)

S.K. Bhattacharyya F.C.A.

J.C. Camillus
D.B.A. (Harvard)

K.K.S. Chauhan Ph.D (Ohio)

D.K. Desai Ph.D. (Illinois)

G.M. Desai Ph.D. (Cornell) V.R. Gaikwad Ph.D. (Saugar)

Pulin K. Garg Ph. D. (Berkely)

F.S. George Ph.D. (California)

A.M. Ghose Ph.D. (Muenster, Germany)

C. Gopinath Ph.D. (I.I.T., Khargpur)

G.S. Gupta Fh.D. (Johns Hopkins)

V.K. Gupta
M.Com. (Lucknow)
M.J.S. (The Hague)

B.K. Hegde M.Tech. (1.1.T., Kharagpur)

A.M. Isaac Ph.D. (Lehigh)

Nandini U. Joshi Ph.D. (Harvard)

Sudhir Kakar Ph.D. (Vienna) (on leave)

Amarlal H. Kalro Ph.D. (Minnesota) Mohan Kaul Ph.D.

Rakesh Khurana Dip. Bus. Arm. (I.I.M.A)

M.S. Krishnaswamy Ph.D. (Kansas)

J.G. Krishnayya E.E. (M.I.T.)

Suresh C. Kuchhal M.Com. (Allahabad)

Arun Maheswari

M. Meenakshi Malya M.Sc. (Aberdeen) (At Harvard, D.B.A. Programme)

Ravi J. Matthai B.A. (Hons) (Oxon)

Subash C. Mehta M.A. (Panjab) M.D.P.A. (I.I.P.A) Cert. I.C.A.M.E. (Stanford)

P.N. Misra Bh.D. (Delhi)

Sasi B. Misra Ph.D. (UCLA)

Arun Monappa M.A. (Madras) M.Sc. (London)

V.L. Mote Ph.D. (N.Carolina) S.K. Mukherjee Ph.D. (Berkeley)

C.N.S. Nambudiri M.B.A. (De Paul)

> H.N. Pathak M.Sc. Econ. (London)

C.K. Prahlad Dip. Eus. Admn. (I.I.M.A.) (At Harvard, D.E.A. Frogramme)

Keshav Prasad M.A. (Patna) M.B.A. (Harvard)

M. Raghavachari Ph.D. (Berkeley)

C. Rangarajan Ph.D. (Pennsylvania)

Mirza S. Saiyadain , Ph.D. (Kansas)

Suresh A. Sesban . . A.I.C.W.A. M.E.A. (Harvard)

S. Sambrani Ph.D. (Cornell)

B.G. Shah M. Com. (Bombay)

A.C. Shamihoke Ph.D. (Delhi)

Baldev R. Sharma Ph.B.(Michigan State) N.R. Sheth Ph.D. (Baroda)

K.L. Varshneya M.B.A. (Delhi) Cert. I.C.A.M.E. (Stanford)

P.M. Shingi Ph.D. (Illinois)

> Pramod Verma Ph.D. (Manchester)

S. Sikdar (I.I.T., Kaharagpur)

M.B.A. (Pennsylvania)
(At Harvard D.B.A. Programme)

Kanti Swarup Ph.D. (Delhi)

> C.D. Wadhva Ph.b.(.ale)

Dwijendra Tripathi Ph.D. (Wisconsin)

RESEARCH STAFF

Anila Govindan

V.S.T.V. Anjaneyulu M.Sc. (Andhra

Anju Jerome M.Sc (Gujarat)

Anurag M. Stat. (I.S.I. Calcutta)

S.G. Bandyopadyay M.A. Econ. (Jadavpur)

A.K. Banerjee M. Stat. SQC (Dip) (On Leave)

Pik: Barthakur M.A.

S.K. Easu M.Sc. Agri. (B.H.U.)

Eella Mody
M.A. Communication (Pennsylvania)

F. Chakraborthy
M. Stat. (I.S.I., Calcutta)

P.N. Chary B.Sc., B.Ed. (Osmania)

B.S. Chauhan M.Com (Agra) H.A. (Jabalpur)

S.M. Chokshi B.Sc. (Gujarat) V.V. Chowkidar Ph.D (I.A.R.I.)

B.M. Desai M.A. (S.F. University) (On Leave)

K. Dinker Rao M.A. Ph.D

V. Ganapathi Rao M.A. (Andhra) M.Sc. (Andhra)

Gopalan M.R.

B.E. (Annamalai)

Dip. Ind. Engg. (Cn Leave)

P.C. Gupta M.Tech. (IIT, Kanpur)

Hari Prakash M.A. (Delhi) M.A. (Punjab)

Indira J. Parikh M.Ed. (Rochester)

Dilip Jadav M.A. (Karnatak)

A.K. Jain Dip. Bus. Admn. (I.I.M.A) (On Leave)

P.K. Joshi M.A. (Gujarat)

B. Kamala M.Sc. (Madras) P.V. Krishna Fh.D(Andhra)

P.K. Kikani B.Sc. Agri. (Saurashtra)

Madan Mohan M.Sc. (I.A.R.I)

D.F. Mathur M.A. (Rajasthan)

Mayaviswanath M.Stat. (I.S.I., Calcutta)

Meenakshi Sundaram E.Sc. (Madurai)

A.C. Mehta
B.Sc. (Youngstown State University)
M.B.A. (Biyant College)

B.D. Mehta M-S. (I.I.T., Chicago) M.B.A. (Loyola, Chicago)

N. Mohaman M. Cop. (N.C.R.H.E., Delhi)

S. Mookerjee M.A. (Calcutta)

S, Mundle M.A. (Delhi)

M.A. (Andhra) M.A. (Delhi)

V. Namboothiri B.Sc. (Kerala)

A.V.S. Narayanan M.Sc. Agri. (Banaras) (On Leave) D.K. Narayana Rao M.A. (Andhra)

V.K. Narayanan Dip. Bus. Admn.(I.I.M.A.)

Neelima Rami B.A. (Bombay)

B.S. Pathak M.Sc. Agri. (Maharashtra Krishi Vidyapeeth)

B M. Patel B.Sc. Agri. (Anand)

B.V. Patel M.Sc. (Gujarat)

D.M. Patel M.Sc. Agri. (Saurashtra)

H.V. Patel M.A. Econ. (Baroda)

I.T. Patel
M.Sc. (Gujarat)

J.M. Patel M.Sc. Agri. (South Gujarat Uni.)

J.J. Patel M.A. (Baroda)

K.V. Patel M.A. (Baroda)

M.S. Patel B.Sc. Agri. (S.P. University)

N.T. Patel M.Sc. (Earoda)

K.R. Pichholiya M.A. Econ. (S.P.U.) Dip. R.Sc. (N.C.R.H.E., Delhi) Piyali Mundle M.A. (Delhi)

K.S. Raman M. Com (Gujarat)

N.R. Rane M.A. (Karnatak)

T.P. Rama Rao M. Tech (I.I.T., Kanpur)

H.R. Ravalji B.Sc. Stat. (S.P. University)

A.K. Saha M. Stat. (Calcutta) Dip. Comp. Sc. (I.S.I., Calcutta)

J.L. Saha M. Stat (I.S.I) (On Leave)

Seethalakshmi Venkataraman M.A. (Delhi)

Shanti Seth
Ph.D. (Lucknow)
Cert. Demography (Princeton)

M.K. Shah M.Sc. (Baroda)

A.K. Shukla M.Sc. H.C. Shukla M.S.W. (Baroda)

Gurudev Singh M.Sc. Agri. (P.A.U)

Suri S.C. M.A. (Punjab) Cert. Quan. Econ. (I.S.I., Delhi)

1

T. Suryanarayana M.Sc. Stat. (Andhra)

Phillip S. Thomas Dip. Eus. Admn. (I.I.M.A)

B.L. Tripathi M.A. Econ. (Rajasthan) B.Ed. (Rajasthan)

S. Vastala M.A. (B.H.U.)

Vabiz Dhanjibhoy M.A. (FORDHAM)

S.P. Valvade Ph.D. (Gokhale Inst.)

Vijay Bhandari

S.K. Warrier M.A. (Gujarat)

ADMINISTRATIVE STAFF

R.C. Chib M.Sc.(Tech.) Panjab Administrative Officer and Secretary to the Faculty

S. Sreenivas Rao M.A. (Osmania) M.A. (Syracuse) Manager (Publications) and Member of the Faculty

P.K. Varkey Asst. Administrative Officer C. Ramdoss
E.Sc. Hons. (Bombay)
S.A.S.
Accounts Officer

S.V. Ramamurthy
B.Sc. (Madras)
L.L.R. (Delhi)
'Admissions Officer

S.K. Maraynan M.A. (Punjab) Asst. Warden

LIERARY STAFF

Anand S. Dhawle
M.L.S. (Pittsburgh)
Librarian and Member
of the Faculty

Jayendra F. Fandya
B.A. (Gujarat)
Dip. Lib.Sc. (Bombay)
Reference Librarian

R.M. Mehta
B.A., II.B. (Baroda)
Dip. Lib.Sc. (Raroda)
Head, Catalogue Dept.

· APPENDIX E
FACULTY AND RESEARCH STAFF APPOINTMENTS

		Transition of the second of th	
Маше	Designation	Area/Project	Date of joining
Faculty		e earling to the	,
Dr. Dalip S. Swamy	Professor	Economics	16-6-1972
Dr. Mirza Saiyadain	Asst. Professor	Organizational Behaviour Area	10-10-1972
Mr. Arun Maheswari	Asst. Professor	Marketing Area	1–1–1973
Mr. Rakesh Khurana	Faculty Research Associate	Marketing Area	13-3-1973
Research Staff	× .		8 P P
Mr. T.P. Rama Rao	Systems Programmer	ECIL Project	14-4-1972
Mr. S.C. Bhatnagar	Research Associate	Production & Quantitative Methods	1-5-1972
Dr. Dinakar Rao	Research Associate	Banking Studies Project	12-6-1972
Mr. B.T. Bhuva	Research Investigator	Farm Mech. Project	19-6-1972
Mr. A. Parasuraman	Research Associate	Marketing	26-6-1972
Mr. A.K. Sharma	Research Associate	Organizational Behaviour	26-6-1972
Mr. F.H. Parasara	Research Investigator	Farm Mech.	28-6-1972
Miss Kirtida Pandya	Research Assistant	Economics Area	1-7-1972

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	Mr. P.V. Desai	Research Assistant	Finance & Accounting	3-7-1972	
	Mr. B.S. Chauhan	Research Assistant	Economics Area	5-7-1972	ī
	Miss Maya Viswanathan	Research Assistant	CMA .	10-7-1972	•
	Mr. H.R. Ravalji	Research Investigator	Farm. Mech.	17-7-1972	
	Mr. S. Meenakshi Sundaram	Research Investigator	Farm Mech. Project	19-7-1972	
	Mr. J.C. Patel	Research Investigator	Rural Elec. Project	20-7-1972	
	Mr. K.R. Baldania	Research Investigator	Farm. Mech. Project	21 - 7 - 1972	
	Mr. D.M. Patel	Research Assistant	Banking Studies Project	24-7-1972	
	Miss Bella Modi	Research Associate	CMA	1_8_1972	
	Miss S. Vathsala	WAC Reader	Business Policy	1-8-1972	
	Mr. V.D. Desai	Research Investigator	REC Project	3-8-1972	
	Mr. Narayana Rao	Research Investigator	CMA.	4-8-1972	
	Mr. S. Mundle	Research Associate	CMA .	5-8-1972	
	Mr. K.R. Pichholiya	Research Investigator	REC Project	12-6-1972	
v	Mr. Srikrishna Srivastava	Research Assistant	Prod. and Quantitative Area	12-8-1972	
	Miss Vabiz Dhanjibhoy	Research Assistant	CMA	16-8-1972	
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Mr. Vishmu Nambudiri	Research Investigator	Farm Mech. Proj.	19 - 8-1972
Mr. S. Giridhar	Research Associate	Marketing Area	25-8-1972
Miss Amurag	Research Assistant	Economics	15-9-1972
Mr. A.K. Mehta	Research Associate	Urban Water Supply Systems Project	28-11-1972
Mr. T. Suryanarayana	Research Assistant	CMA	7-12-1972
Mr. Vijay Bhandari	Research Associate	Marketing	13-12-1972
Mr. A.K. Saha	Computer Programmer	Economics	18-12-1972
Mr. P.K. Barthakur	Research Assistant	Organizational Behaviour	21_12_1972
Dr. P.V. Krishna	Research Associate	CMA.	28-12-1972
Mr. V.G. Rao	Research Associate	Economics	B2-1-1973
Miss Weelima Rami	Research Investigator	REC Project CMA	12-2-1973
Miss Anila Govindan	Research Assistant	Computer Centre	15-2-1973
Mr. H.V. Patel	Research Assistant	Managerial/ Entrepreneur Problem to Small Units Project	1–3–1973

APPENDIX F
FACULTY AND RESEARCH STAFF RESIGNATIONS

Name	Designation	Area/Project	Date of leaving
		-	
Faculty			
Dr. Kamala Chowdhary	Senior Professor	Organizational Behaviour Area	30-9-1972
Ishwar Dayal	Senior Professor	Organizational Behaviour Area	16–1–1973
Dr. G.R. Kulkarni	Senior Professor	Business Policy Area	7–1–1973
Research Staff	* 246		
Mr. J.B. Mathew	Research Assistant	CMA	12-4-1972
Mr. Y.S. Shrimali	Research Investigator	Farm Mech. Project	13-4-1972
Mr. P.M. Patel	Research Assistant	Socio-Economic Survey Project	14-4-1972
Miss Aruna Pradhan	Research Assistant	CMA	15-4-1972
Mr. K.P. Ravi	Research Associate	Marketing	22-4-1972
Mr. Ambarish Kumar	Research Associate	Marketing	20_5-1972
Mr. S.C. Sharma	Systems Analyst	Computer Centre	31-5-1972
Mr. M.S. Patel	Research Investigator	Farm Mech. Project	15-6-1972
Mrs. Banani Roy	Research Assistant	ICSSR Project	30 -6-197 2

J			
Mr. S.C. Bhatnagar	Research Associate	Production & Quantitative Metho	30–6–1972 ods
Miss Minal Rindani	Research Assistant	Socio-Economic Survey	11-7-1972
Mr. B.T. Bhuva	Research Investigator	FMP	14-7-1972
Mr. B.S. Chauhan	Research Assistant	Economics	17-7-1972
Mr. R.S. Paul	Research Associate	CMA	29-7-1972
Mr. B.R. Bhatt	Research Associate	SEF Project	31-7-1972
Mr. A. Parasuraman	Research Associate	Marketing	7-8-1972
Mr. D.P. Srivastava	Research Investigator	CMA.	11-8-1972
Mr. J.K. Hakim	Systems ; Programmer	Computer	22-8-1972
Mr. Parasara	Research Investigator	CMA	29 – 8–1972
Mr. R.K. Anand	Research Associate	Marketing	31-8-1972
Mr. G.J. Singh	Research Associate	Computer	14-10-1972
Mr. Srikrishna Srivastava	Research Assistant	Froduction & Quantitative	4-11-1972
Mr. K.R. Baldania	Research Investigator	CMA	2-12-1972
Mr. M.B. Dave	Research Assistant	6MA	4–12–1972

Mr. S. Giridhar	Research Associate	Marketing	15-12-1972
Mr. VSTV Anjaneyulu	Research Assistant	CMA	5-2-1973
Miss T.R. Sukumari	Research Investigator	CMA	1-2-1973
Mr. B.M. Patel	Research Investigator	CMA . ,	6-3-1973
Mr. V.D. Desai	Research Investigator	CMA	21 - 3–1973
Mr. B.C. Patel	Research Associate	CMA	22–3–1973
Miss Minal J. Rindhani	Research Investigator	CMA	1-2-1973

APPENDIX G

RESEARCH

One of the primary objectives of the Indian Institute of Management, Ahmedabad, is research and contribution to knowledge, in the field of management. Members of the Institute's faculty are encouraged to undertake research in areas of interest to them, the results of which are likely to contribute to an improvement in the concepts, tools, and practices of management. Further, the Institute undertakes research projects sponsored by outside agencies which are in line with the research interests of the faculty.

The scope of research at the Institute is by no means limited to the industry sector in the traditional sense, but encompasses all areas where management is relevant.

The following narrative briefly outlines the range of research projects which have been completed and are under way at the Institute during the year 1972-73.

REPORT ON RESEARCH
JULY 1972 - JUNE 1973

I. RESEARCH COMPLETED

1. Arricultural T.V. Communication and Factors Affecting Loss of Information

Prof. P.M. Shingi and Miss. B. Modi

Sponsor: Centre for Management in Agriculture, IIMA

Objectives: 1) To investigate the nature and degree of information loss that takes place when the farmer views agricultural T.V.; 2) to identify the factors responsible for this information loss and distortion, if any, e.g. characteristics of the (a) source, (b) message, (c) channel - T.V., and (d) viewing situation; and 3) to suggest ways and means to optimize agricultural T.V. communication effectiveness.

2. Assessment of the Requirement of High Yielding Seeds and the Development of Seed Industry

Profs. V.N. Asopa and D.K. Desai, Mr.D.P.Mathur, Mr.B.C. Patel and Miss. Aruna Pradhan
Sponsor: National Commission on Agriculture

Objectives: The main purpose of the project was to assess the requirements of seed of HYV and hybrids of major cereal crops at a future point of time - 1985 - and then to indicate strategies for the development of the seed industry so that it can efficiently meet the estimated demand. The study was limited to five major cereal crops - wheat, paddy, maize, bajra and jowar.

3. <u>Consumption Pattern and Preferences</u> <u>for Rice</u>

Prof. P.S. George, Mr. V.V.Choukidar, and Mr. M.B. Dave

Sponsor: Ministry of Food and Agriculture

Objectives: 1) To study the food habits and consumption pattern of rice consumers; 2) to analyse the sources of market information available to rice consumers and to assess their mass media habits; 3) to study their attitude towards the consumption of HYV paddy and to understand the consumers' perception of varietal characteristics; and 4) to analyse the correspondence between the consumer preferences and the use pattern of different varieties of rice.

4. <u>Durable Goods: An Exploratory Study</u> of Consumer Behaviour

Prof. Subhash C. Mehta

Sponsor: IIMA

1) Studying the ownership pattern of Objectives: consumer durables in different economic and social segments of the population; 2) identifying consumer priorities in the purchase of household durables and examining their immediate intentions for the acquisitions of other durables; 3) delineating the market segments which offer ready potential for different types of consumer durables; 4) studying the replacement pattern of consumer durables as to product life expected and attitude towards obsolescence; 5) examining the brand switching behaviour of the consumer in regard to replacement demand; 6) investigating the product lines where consumers are upgrading their purchases and going in for higher priced models; and 7) studying the consumer attitudes towards. hire-purchase and other credit schemes.

5. <u>Dynamics of Growth in Fertilizer</u> Use at Micro Level

Prof. Gunvant M. Desai, Mr. S.C. Bandyopadhyay and Mr. P.N. Chary

Sponsor: Ministry of Food and Agriculture

Objectives: To gain as complete an understanding of the forces behind growth in fertilizer use as possible by analysing fertilizer practice of a sample of cultivators for three continuous years.

6. Growth of Fertilizer Use in Districts

of India: Performance and Policy

Implications

Prof. Gunvant M. Desai and Ar. Gurdev Singh

Sponsor: National Commission on Agriculture

Objectives: 1) To analyse available districtwise fertilizer use data, and bring out the main features of growth of fertilizer use in various districts from 1960-61 to 1963-69; 2) To examine the past growth patterns of fertilizer use by grouping districts according to major agro-climatic characteristicts; and 3) To seek for possible explanation behind slowing down of growth of fertilizer use during 1969-70 and 1970-71 by identifying the districts which were responsible for this phenomenon.

7. Joint Sector: Policy Guidelines

Profs. S.K. Bhattacharyya, S.C. Kuchhal, and Samuel Paul

Sponsor: IIMA

Objectives: To examine the policy issues arising out of the need for the Government and private business with divergent interests to work together in managing an enterprise which will have important organizational, financial, and socio-political implications.

8. Opinion Leaders and Communication in Indian Villages

Prof. V.R. Gaikwad, Mr. B.L. Tripathi and Mr. G.S. Bhatnagar

Sponsor: Ministry of Food and Agriculture

Objectives: The study was conducted in Raipur District (M) during March 1970 - June 1970. The objectives of the study were: (1) to understand the village setting and agricultural setting,(2) to identify the sources of information used by farmers with respect to agricultural innovations,(3) to understand the leadership structure and its influence on inter-personal communication. The study was conducted in two phases.

9. Pattern of Social Interaction and Communication in an Indian Village

Prof. V.R. Gaikwad, Mr. B.L. Tripathi and S.M.S. Haque

Sponsor: Centre for Management in in Agriculture, IIMA

Objectives: The study was conducted in Raipur District (MP) during October to December 1971. The objectives of the study were 1) to understand the leadership structure in the village community, 2) to get a deeper understanding of the pattern of social interaction and communication among farming families.

Planning and Implementation of Financing Agriculture through an Area Approach
(A Case Study in Bihar State)

Prof. D.K. Desai, Mr.D.A. Patel and Mr. Hari Prakash

Sponsor: Ministry of Food and Arriculture

Objectives: 1) To understand the process of planning and implementing the financing of an agricultural development project through an area approach, and 2) to identify problems at each level of decision-making.

11. Rice Economy of India

Prof. P.S. George, Mr. V.V.Choukidar, and Mr. M.B. Dave

Sponsor: Ministry of Food and Agriculture

Objectives: To analyse the dynamic factors influencing the paddy-rice system for understanding the current position of the industry and analysing the factors responsible for the present status.

The specific objectives are as follows:

- To analyse the changes in area, production, and productivity of paddy in different states and to identify the role of various inputs, price policies of paddyl, and the high yielding varieties programme.
- 2. To analyse the contribution of changes in area and productivity in increasing the total production of paddy.
- 3. To review the current state of post-harvest technology for identifying possible areas that might contribute towards higher rice output through increased efficiency at each level.
- 4. To analyse the market transactions, especially procurement of paddy, distribution of rice, and interstate movements.
- 12. <u>Pural Social Structure and Communication</u> in an Indian Village

Prof. V.R. Gaikwad, Mr. B.L. Tripathi and Mr. S.M.S. Haque

Sponsor: Ministry of Food and Agriculture

Objectives: 1) To understand the role of opinion leaders, 2) in the communication of information pertaining to an innovation in an Indian village community, and 3) in decision making process associated with the adoption of an innovation.

13. Sabarmati River-Bed Potato System

Prof. P.S. George and Mr. S.N. Chokshi

Sponsor: Ministry of Food and Agriculture

Objectives: 1) To understand the production practices of potatoes in the river-bed; 2) to analyse the patterns of storage, transportation, and disposal of potatoes; and 3) to understand some of the structural aspects of the Ahmedabad potato market.

14. Effectiveness of Post-Graduate Programme

Profs. B.K. Hegde, Baldev R Sharma, and C.N.S. Nambudiri

Sponsor: IIMA

Objectives: To find out (a) how well have our graduates been able to do in their first few years or months, both as viewed by themselves and their employers?; (b) what are the main problems our graduates face in typical work situations?; (c) what is the experience of the companies which have employed our students? and (d) what improvements can be made in terms of the programmes content and/or the methods?

15. National Loan Scholarship Scheme with special reference to Gujarat State

P of. S.C. Kuchhal and Dr. S.P. Valavade

Sponsor: Indian Council of Social Science Research

Objectives: Preparation of a synopsis of major research findings and the methodology used in administration of the National Loan Scholarship Scheme in Gujarat State.

II. RESEARCH IN PROGRESS

1. Alienation and Satisfaction on the Job
Profs. Sasi Misra and Ishwar Dayal
Sponsor: IIMA

Objectives: This study attempts to make a conceptual distinction between job satisfaction-dissatisfaction and job involvement-alienation by drawing upon two influential theories (Maslow Vs Herzberg et.al.) of human motivation at work. The following hypotheses are being tested:

1) As we move from lower to higher organizational levels, the ratio of job-involved to job-alienated employees will tend to increase: 2) For the job-involved employees at every level, the importance of job content factors (nature of work, recognition, achievement) will be greater than the job content factors (working conditions, company policy, etc.). The reverse will be true for the job alien ted employees. 3) For the job-involved employees,

the higher order needs (ego and self actualization) will be felt more strongly than the lower order (basic and security) needs. The reverse will be true for the job alienated employee. 4) For the job involved employee, the degree of satisfaction (or dissatisfaction) experienced on the job will be greater when the job fulfills (or frustrates) their higher order needs (ego and self actualization) than when it fulfills (or frustrates) the lower order (basic and security) needs. The reverse will be true for the job alienated employees.

2. Bus Scheduling Problem

Prof. V.L. Mote and Mr. J.L. Saha

Sponsor: IIMA

Objectives: To devise an algorithm for optimum scheduling of buses. The problem has been formulated as a problem of obtaining minimal decomposition of an acyclic set.

Two papers based on the work have been completed.

3. <u>Citrus Fruits:</u> A Micro Study on Agribusiness Structure

Prof. P.S. George, Mr. V.V.Choukidar, and Mr. P. Chakraborty

Sponsor: Ministry of Food and Arriculture

Objectives: 1) To study production aspects like input use and adoption of the package of practices in the cultivation of the three citrus fruit crops, i.e., sweet orange, mandarin orange, and limes; 2) to identify the reasons for growing specific varieties of each of these fruit crops in the selected regions; 3) to study the factors responsible for the changes in the area under different varieties of citrus fruits in the selected regions; 4) to understand the marketing aspects of citrus fruits in the major outlets and to examine the price spreads at different levels; 5) to analyse the processing facilities available for utilizing these varieties for understanding the cost structure, efficiencies, and utlization of capacities; and 6) to understand the rural and urban consumer's reaction towards fresh and processed citrus fruits.

Tabulation and processing of data is in progress.

4. <u>Gultivators! Experience with HYVs</u> of <u>Gotton</u>

Prof. Gunvant M. Desai, Mr. Gurdev Singh, and Mr. S.C. Bandyopadhyay

Sponsor: Ministry of Food and Agriculture

Objectives: To analyse cultivator's experience of growing Hybrid-4 variety of cotton in Sabarkanta district of Gujarat.

Data is being processed.

5. <u>Development of Committed Work-force in India</u>

Prof. Baldev R. Sharma

Sponsor: Indian Council of Social Science Research

Objectives: The scope of the project is to study, among other things, the impact of work technology upon commitment of industrial workforce. The sample of firms included eight factories -- four in the Western region and four in the Marth.

The first draft of the report is ready.

6. Economics of the Indian Cement Industry

Prof. G.S. Gupta

Sponsor: IIMA

Objectives: The study encompasses the following aspects of the cement industry: 1) Causes of regional imbalances in demand and supply, including the impact of controls on location; 2) production function, return to scale, elasticity of factor substitution, and factor productivities; 3) cost function, production economies of scale, optimum plant (firm) size and concentration ratio, size-cost relationship, and cost-price relationship; 4) demand function and demand forecasting; and 5) efficiency in Indian cement industry versus efficiency in some foreign (Pakistan, if permitted by data availability) cement industry. (The overall efficiency of the Indian cement industry and of the factors governing it in the light of the problems facing this industry will be studied.

Data has been collected. An article on "Production Function and Factor Productivity in the Indian Cement Industry" was published in The Indian Journal of Industrial Relations, VIII, 3, January 1973, and a preliminary report on the demand for cement in India is ready.

7. Entrepreneurial/Managerial Problems of Small Units

Prof. H.N. Pathak, Miss. Vabiz Danjibhoy, Mr. H. V. Patel, and Mr. H.T. Patel

Sponsor: Industrial Development Bank of India

Objectivies: Small scale units enrolled with the Director of Industries during 1967-71 are to be studied in terms of 1) inception stage and 2) operational stage. The problem they face offer an insight into three major areas of industrial development, viz., 1) growth of entreprenurship, 2) management of small enterprises, and 3) policies relating to industrial development. The problems are being studied on the basis of a 10% sample in selected districts of Gujarat.

8. <u>Impact of Mechanization on the Productivity and Employment in Gujarat State</u>

Prof. D.K. Desai, Prof. C. Gopinath, Mr.S.K.Basu, Mr. R.S. Chauhan and others

Sponsor: World Bank

Objectives: 1) To investigate into the profitability of tractor farming in relation to the investment on tractors, 2) to find out the impact of tractor utilization on employment of hired labour on farms, and 3) to find out the impact of tractorization on agricultural labour employment in the village or the area of operation of the tractors.

Final report will be ready by 1974.

9 <u>Industrial Relations in Metal</u> Based Industries

Prof. Pramod Verma

Sponsor: IIMA

Objectives: To understand the behaviour of workers and management in the context of industrial relations. Five medium sized engineering firms in Ahmedabad and Baroda were chosen for the study. A sample of 80 managers and 280 workers was covered by this study.

The report is being written.

10. <u>Location of Industrial Estates</u> <u>In and Around Ahmedabad</u>

Profs. D.S. Swamy, G.S. Gupta and P.N.Misra

Sponsor: Gujarat Industrial Development Corporation

Objectives: To work out the size of industrial estate and the pricing policy so that the sheds can be sold to private industrialists at minimum cost in time and otherwise to GIDC. This will involve studying the industrial potential of Ahmedabad forecasting the number of units, the type of units, and their sizes. It will also involve estimating the required infra-structure facilities for the proposed industrial estates.

11. Management of Industrial Conflict

Prof. N.R. Sheth and Mr. Padmanabh K. Joshi

Sponsor: IIMA

Objectives: To understand the nature of conflict in an organization, the point of departure being a major strike. The intention is to examine the various factors contributing the labour-management tensions over a period, culminating in the break-down of industrial relations. An attempt will be made to relate the conflict to the various forces operating inside as well as outside the organization.

The report is being written.

12. <u>Network Computer Model for Urban Water Supply</u>
System

Prof. S.K. Mukherjee and Mr. Ashok Mehta

Sponsor: IIMA

Objectives: 1) To develop a computerized network model for urban water supply system; 2) develop a methodology based on network flow theory to optimize the design of such a system on a least annual cost analysis; and 3) illustrate the methodology on a particular city (Ahmedabad).

13. Occupational Values and Professions

Prof. Baldev R. Sharma and Mr. S.K. Warrier

Sponsor: Indian Council of Social Science Research

Objectives: To examine the socio-economic back-ground of students undergoing training in different professions in India and the process of entry into different professions. The major focus will be on investigating the occupational values of students entering different professions. The findings of this study are expected to provide insights which should help better management of professional education in the country.

Library research and data collection is in progress.

14. P & T MIS Project

Profs. S.K. Bhattacharyya, and J.C. Camillus, and Mr. P.S. Thomas, with Mr. N.K. Sinha of

Sponsor: Posts & Telegraph Department

<u>Objectives</u>: Management development through introduction of a planning and control system in Telecommunication Branch.

The first phase report has been submitted.

15. People and Productivity

Prof. Baldev R. Sharma

Sponsor: IIMA

Objectives: To analyse data already collected from a large public sector corporation regarding the failure of its incentive bonus scheme.

Library research and analysis of data is in progress.

16. Scheduling Algorithms and Rate Structures for Time Sharing Systems

Profs. Mohan Kaul and Amar Kalro

Sponsor: IIMA

Objectives: To study through simulation the optimum allocation of the processor resources to the list of jobs demanding processing and to determine the effects of introducing 1) priority levels of jobs, 2, size (long and short) of the jobs, 3) variable quantum lengths of services to jobs, 4) study and formulate a rate structure for the various jobs in view of 1), 2) and 3).

The design of the simulation model and programming of 1), 2), and 3) has been completed. Approximately 30 simulation runs have already been completed and the data is being analysed.

17. Trade Union System of Organization

Profs. Ishwar Dayal and Baldev R. Sharma

Sponsor: Indian Council of Social Science Research

Objectives: To gain deeper insights into the functioning of trade unions as social systems. The study was conducted through interviews of trade union leaders and of rank-and-file members in and around Bombay. The unions covered were HMS and INTUC.

The report is being written.

18. Optimal Size and Use of Factors in Selected Indian Industries

Prof. P.N. Misra

Sponsor: IIMA

Objectives: The project aims at analysing empirically the structure of firms/industries under the most general situation when imperfections prevail simultaneously in product and factor markets. The measured structure will then be used to work out optimum size of profit maximising firms. Optimum levels of labour, capital, and product price will be obtained at the same time.

The report will be ready by September 1973.

19. Study of Framework, Structure and Funding of Tochnical Education System in India

Profs. Mohan Kaul, S.C. Kuchhal, and Kamla Chowdhry

Sponsor: Planning Commission (Education Division)

Objectives: The project would involve the study of the institutional framework of technical education and the linkages of planning technical education at the National, State and Institutional levels; the relationship between technical institutions and the Government agencies both at State and Central; the relative problems of funding of technical education and its allocation at Centre, State and Institutional levels; and the inter-faces between the different agencies concerned.

The report will be ready by July 1974.

20. Strategy for Family Planning in the Industrial Sector in India

Profs. S. Paul, C.N.S. Nambudiri, and Baldev R. Sharma

Sponsor: Family Planning Foundation

Objectives: The main purpose of the study is to formulate a strategy which will enable the Indian Industrial sector to play a more effective role in promoting family planning among industrial workers. The research methodology includes (1) review of published literature on the subject, (2) interviews of key informants, (7) conduct of case studies of a selected industrial units, and (4) study of selected organizations, active or potentially capable of being active in the family planning programme. Data thus gathered will provide the basis for formulating a national strategy for the family planning programme in the industrial sector.

Library research is in progress.

21. Rural Unemployment

Prof. Shreekant Sambrani, Mr. B.S. Pathak, Mr. M.K. Shah, and Mr. Pichholiya

Sponsor: Ministry of Food and Agriculture

Objectives: Any programme for the elimination of poverty must concentrate on tackling the rural employment situatiion on an urgent basis. The proposed study can be seen as a supply and demand analysis of specific activities for providing employment in para-agricultural and non-agricultural sectors in the rural areas, with a study of cet par factors affecting such a static analysis. It is proposed at present to look at three general areas of works. where employment does not require a high degree of skills. These are: a) housing construction - both for private needs and for infrastructure, such as school houses, b) soil conservation, and c) sinking wells, both surface and tube. The first part of data collection will be demand for employment. The second part will be essentially a costbenefit study of the three types of works mentioned above. Simultaneously, it can be determined if there will be any aggravation of existing bottlenecks, both among the materials and the skills required for such programmes. It will also be possible to forecast new bottlenecks that may arise due to the execution of the programmes and ways could be devised in advance to avoid them. The last part of the data collection will be about gauging the demand for such activities and means to stimulate this demand.

The report will be ready by October 1973.

III. SEED MONEY PROJECTS COMPLETED

- 1. Computerised Survey of Literature for Research (Prof. A. Ghose and Mr. A.S. Dhawle)
- Drug Price Control: An Analysis (Profs. V.L. Mote and H.N. Pathak)
- Personnel Practices in Industrial Organizations (Prof. Arun Monappa)

IV. SEED MONEY PROJECTS IN PROGRESS

- Flow of Funds (Prof. D.S.Swamy)
- 2. Regional Development and Multi-Level Planning:
 A Proposal for Decentralization (Prof.S.K. Mukherjee)
- 3. Role of Corporate Boards in India (Profs.C.N.S. Nambudiri, and C.K. Prahlad, Mr.K.S.Raman, and Mr. V.K. Narayanan)
- 4. A Study of Negotiation Behaviour (Profs. Sasi Misra and Amar Kalro)

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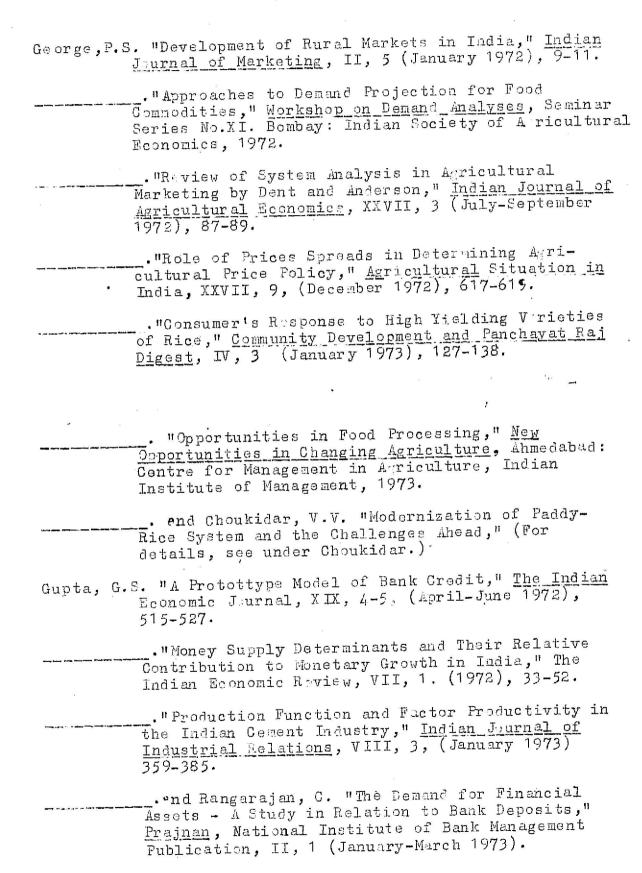
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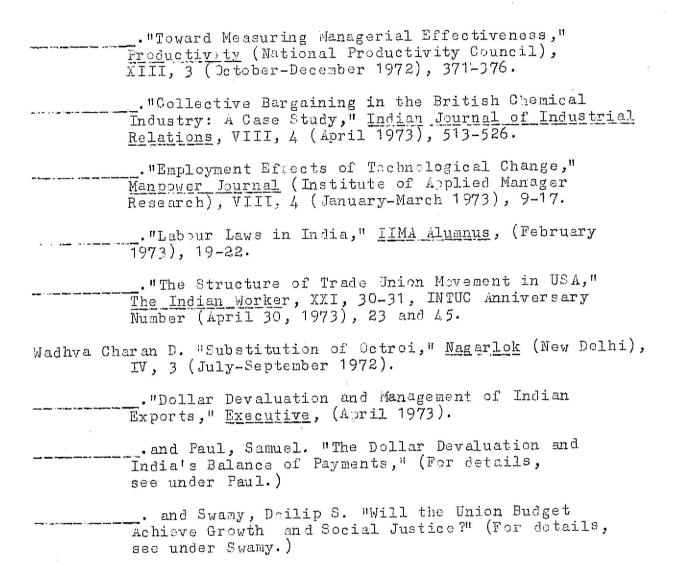
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V.R. Gikwad Ph.D.(Saugar)	Professor
P.S. George Ph.D. (Celifornia)	Professor
G.S. Gupta Ph.D. (John Hopkins)	Assistant Professor
A.M. Isaac Ph.D. (Lehigh)	Professor
Hohan Kaul Ph.D. (Paris)	Assistant Professor
S.C. Kuchhal M.Com. (Allahabad)	Professor
Subhash C. Mehta M.A. (Panjab) M.D.P.A.(I.I.P.A.) Cert. I.C.A.M.E.(Stanford)	Professor
P.N. Misra Ph.D. (Delhi)	Professor
Sasi Misra Ph.D. (U.G.L.A.)	Professor

*At Cornell, Ph.D. Programme

N. Mohanan M.Cop. (N.C.R.H.E., Delhi)	Research Associate
Arun Monappa M.A. (Madras) M.Sc.(London)	Assistant Professor
S.K. Mukherjee Ph.D. (Berkeley)	Professor
H.N. Pathak M.Sc. (London)	Professor
Samuel Paul Ph.D. (Syracuse)	Director
M. Raghavachari Ph.D. (Berkeley)	Professor
C. Rangarajan Ph.D. (Pennsylvania)	Professor
Baldev R. Sharma Ph.D. (Michigan State)	Professor
N.R. Sheth Ph.D. (Baroda)	Professor
P.M. Shingi Ph.D. (Illinois)	ssistant Professor
Gurudev Singh M.Sc. (P.A.U.)	Research Associate
D. lip S. Swamy Ph.D. (Pennsylvania)	Professor
Philip Thomas Dip. Bus. Adm. (IIMA)	Research Associate
B.L. Tripathi M.A. Econ: (Rajasthan) B.Ed. (Rajasthan)	Research Associate
Pramod Verma Ph.D. (Manchester)	Professor
Charan D. Wadhva Ph.D. (Yale)	Professor

PART IX
FINANCE AND ACCOUNTS

SORAB S. ENGINEER & CO. CHARTERED ACCOUNTANTS

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Ismail Building 381, D. Naoroji Foad Fort, Bombay-1.

AUDITORS REPORT TO THE DEFUTY CHARITY COMMISSIONER, AHMEDABAD REGARDING AUDIT OF ACCOUNTS OF THE INDIAN INSTITUTE OF MANAGEMENT FOR THE YEAR ELDING 315T MARCH 1973

Registered No.F/174 Abmedabad

- (a) The accounts are maintained regularly and in accordance with the provision of the Act and rules.
- (b) Receipts and disbursements are properly and correctly shown in the accounts.
- (c) The cash balance and vouchers in the custody of the Accountant on the date of the audit were in agreement with the Accounts.
- (d) All books, Deeds, Accounts, Vouchers, or other documents or records required by us were produced before us.
- (e) Inventories certified by the administrative Officer of the movables (except Library books) of the Fublic Trust and Certificate of Librarian in respect of books were produced before us.
- (f) The Accountant appeared before us and furnished the necessary information required by us.
- (g) No property or funds of the Trust were applied for any object or purpose other than the object or purpose of the Trust.
- (h) An amount of Rs.27,757.28 is outstanding from students etc. for a period of more than one year. Rs. 11,902.97 towards loss on sale of vehicles and Rs.928.96 dues from F.G.P. Students are written off during the year.
- (i) The net capital expensiture of w.1,45,97,916.76 on building on 31-3-1973 represents (a) advances to contractors against their running bills and (b) Miscellaneous expenses on building.
- (j) No money of the public trust has been invested contrary to the provisions of S ection 35.
- (k) No alienations of the immovable property contrary to the provisions of Section 36 have come to our notice.
- (1) We think necessary to bring to the notice of the Deputy Charity Commissioner the following special matters:-
 - (i) The Indian Institute of Management has been receiving grants from the Ford Foundation. A part of the grant received in India (including books and equipments) has been brought in the books of account of the Institute. The other part of the grant received direct by Institute of International Education, New York, would not be recorded in the books of Account of the Institute in India.
 - (ii) Frovision in respect of depreciation on assets for the period 1st January, 1962 to 31st harch 1973 has not been made in the books of account.
 - (iii) Net capital expenditure on building under construction amounting to Rs. 1,45,97,916.76 is arrived as under:
 - (a) Expenses

Rs. 76, 45,463.53 Rs. 69, 52,453.23

(b) Amount advanced against running bills subject to adjustment of final bills

Rs. 1,45, 97,916.76

(iv) On 28-3-1966 additional computer equipment was received by Physical Research Laboratory from the Fund from Ford Poundation Grant belonging to Indian Institute of Management. The value of computer amounting to Rs.1,19,808.00 was treated as Loan free of interest given by the Indian Institute of Management to Physical Research Laboratory, which is shown under the head in Balance sheet on Asset side; "Loan to Physical Research Laboratory, Ahmedabad for IIM Computer". The same is reduced to Rs.30,482.60 on 31st March 1973 (by the value of computer time used for Indian Institute of Management upto 31-3-1973).

CHARTERED ACCOUNTANTS Dt: 9th July 1973

S C H E D U L E . IX Vide Rule 17 (1)

NAME OF THE PUBLIC TRUST: INDIAN INSTITUTE OF MANAGEMENT, APMEDABAD INCOME AND EXFENDITURE ECCOUNT FOR THE YEAR ENDING 31ST MARCH 1973

			₩. ±2a	66,236,05	,	1,995,27			1 **)		-	26, 12, 824, 13		35.71.550.83		3	. 1		1,42,971.51							•		65,95,587,79
									30,22,000,00		2,09,175,87						1,42,671							.				v v
	INCOME			BY RENT REALISED	BY INTEREST REALISED *	On loans and advances to staff	BY DONATION IN CASH OR KIND		wrant from the Govt. of India, Ministry of Education, received during the year		shoet (representing expenditure on non-recuting items)		BY INCOME FROM OTHER SOURCES	AS EER SCHEDLE 3	BY TRANSFER FACH RESERVE	(1) Contribution to Research Projects	from Ford Foundation great for Rupee Budget	(441 Controller How From (NA True)	meeting other expenses on CMA	1237				4				
	Previous year 1971-72	2	n -	67,118.16		2,110,22			24,19,000,Co		1,19,040,78	22,99,959,22		34,68,136.95			95,202,01	07.205.0	1,05,199,50									39,42,524,05
	a.	Pe. Pa		900 900	m'an'a		34,96,903.12	1	·		15,44,394.06	500.00				4,802.00			12.831.93	¥	9,33,102,92			2.04.930.00		3,28,123.76	• 4	63,95,587.79
										8,24,651.00	7,19,743.06			4,500.00	302.00		,	958:826	11,902.97				1,36,580,00	68,350,00				
	EXPENDITURE		TO EXPENSES IN RESPECT OF PROPERTIES	Minicipal Tawas on Buildings		CI STABLISHERY EXPENSES	A PER SCHEDULE 1	TO LENT AND TAXES FOR EULDING	TO EXPENDITURE ON VARIOUS COURSES (RRANGED DURING THE YEAR)	(I) Post.Sraduate Course	(41) Short, term programmes	TO LEGAL EXPENSES	TO LEADINGSALLION TO AUDITORS	(i) Audit Foes	(ii) Foes for other services)	TO ALOUNT WRITTEN OFF	PGE Students	Lose on sale of vehicles	TO MISCELLANDUS EXPENSES	AS IER SCHEDULE 2	TO ZARINDITURE ON OBJECTS OF TRUST	(1) Educational Scholarships (F.G.P.)	(ii) Fellowships for PEA	TC MOUNTS TRANSFERRED TO RESERVE OR SPECIFIC RINDS	Furd from increased Earnings on Revenue Account	TO SURELUS CARRIED OVER TO BALANCE SHEET	-
1	Tevious year 1971-72	Es. Pa	***	65.000.00			75,16,829,37		p" p"	7,84,873,21.	6,35,293.36	250,00		3,000,00	307,00	3,307.00			693,62		7,711,347,02		. 1,38,460.00	11,870.97		3,13,959,50		59,42,524,05

* Interest on investments of donations of R.2,59,335.35 has been credited to 'DONATION FROM INDUSTRIES' in the Balance Sheet (Previous year R.1,53,515.20)

As per our report of even date

INDIAN INSTITUTE OF MANAGEMENT, ARMEDARAD SCHEDULES FORMING FART OF INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31-3-1973

	R. P.S	:	21,08,982,45			2,48,662,05	2,19,114,88	6. n8.33 n2	25,033,02		57,5m,m			90	8,734,48	35,71,560,83
	85. Ps	9,44,082,45 11,64,500.00		2,52,000,00	3,337.15							3,30,688,73		35,485,60	x 1	VI 2
	BY INCOME FROM OTHER SCURCES	Receipt from various courses arranged during the year:- (a) Fost_Graduate courses (b) Short_torm Frogrammes	Grant from Govt, of India Ministry of Food & Agri, for Agri, Co-op. (CMA) Frograme:	(a) Balance as on 1-4-72 (b) Received during the year Less:	(c) Amount transferred to bulance sheet (representing expenditure on non-recurring 1tems)		Sponsored Research Projects	Consultance Frolects	Miscellaneous Receipts	Chair from Hindustan Lever	Scholarship from Industries	Grant from USAID for Erogramme for Management in Aprilenting	Lass;	Amount transferred to Balance Sheet representing non-recurring items	Contribution from Research Projects	TOTAL
c c	BY INC	θ	(44)				(444)	(AT)	(1	(111)	(A111)	(1x)			(X)	
SCHEDULE 3 Frevious year 1971-72	R. Ps	9,59,321,84	2C,01,696.84	2,40,000,00		2,40,000.00	3,54,187,24	5.067	13,532,88	18,000,00	53,500,00	2,80,738.31	6	36,374,64	33,259.50	34,68,136,95
÷	Rs. FS				34,96,903.12						*		,		w L	9,33,102,92
	8조 *웨	14,63,740,41 1,30,056,39 1,62,035,39	1,62,410.62 19,18,242.21 8,44,182.06	61,971,30 6,02,457,40	70,050.15				1,18,606,46	5,32,220,55	: :	6,505,29	1,42,971.51		1,32,793.11	1
	TO ESTABLISHMENT EXPENSES	(1) Salaries: (a) Faculty & Staff (b) Agri. Goop. (OAA) Programme (c) Consultancy and Sponsored Research Frojects	(d) Programme for Management in Agriculture (ii) Allowences	(iii) Travelling Expenses (iv) Supplies, Services and Contingencies	(v) Maintenance of Estate TCTAL			IC MILCELLANDUS ET ENSES		(11) Uther expenses of Conformancy and sponsored Research Inclects	(111) Chair for Management Tractices	_	(v) Expenditure on Research Friects met from Ford Foundation Grant For Russo Balant	(vi) Other expenses mot from CMA fund for CMA	(vii) Tregramme for Manugement in Apriculture	TVLOI
SCHEDULE 1 Previous year 1571-72	is. F6	13,C7,470.71 1,39,675,45 2,08,913,CC	1,14,345.80	57,626.25 4,88,335.96	43,017.64		SCHEDULE 2		1, 0, 324,55	4,14,219,09	18,mo.m	4,185,01	95, 202,01	67*L55*6	1,30,017,87	7,71,547,19

NAME OF THE EUELIC TRUST: UNDAN INSTITUTE OF MANAGEMENT, AHHEDAEAD EALANCE SHEET AS AT 31ST MARCH 1973

egistration No.F.174

	8 4.	1,76,02,516,15	13,967.77	8 005							:	5,65,152,25			# 100 C	Car 50:1 (01) (c		42,905,00			,		•		e ^v		7,85,771.56	3,14,81,479,17
ASSETS	INMUVABLE FRADERTIES:	as per Juneure C. MOVALE PROFESTIES: As For Schedule 'D'	Stores at cost INVESTMENTS:	Fifty shares of Dorosil Glass Works Ed. received as donetin	(Market value 8,566/-) (Frevious year 8,248/-)	LOANS (UNSECURED); 1. Loan Scholarshirs (Good)		2. Loan to Physical Research		Less: Charges adjusted against 89,325.40	30,462.60	ADVANC ES:	To Employees (including One wear old Current of Corrections)	(Frevious year E.27,423) 56.00 66,502,60 86,598,60	To others 22775.65 190,714.21 2,21,490.86	DEFOSITS Security Deposits (more than one year old R.1655) 15.925.00		INCOME OUTSTANDING:	Interest 52,257,42 Other income 5,465,000	ut received after 31-3-1973	Ministry of Food & Agri.	(d) USAID for Frograms for 6,605,68	İ	Due from Post Graduate Students: (a) One year old (b) current	E	Due from FBA students 1,491.34	GASH AND BANK BALLANCES: As per Schedule 'R'	TOTAL
Frevious year 1971-72	Bs. Ps	44,99,771.25	7,505,52	500,00	P		2,69,724.92	4,58,711.55	1,19,308,00	87,207.65	32,600,35	7,74,311.3	42,718,60		2.18.565.15	14,100,00	13,120,00	27,220,00	23,611,35	3 19 000 00		1,41,916.95	4,60,916.95	2,799,36	28,313,22	1,158,36	47,34,548.97	27
	Ms. 78	2,36,37,146,51	62.13.740.03					***************************************										16 30 501 73						1			· r	3,14,81,479.17
TIES					3,47,282.08				,				2,60,300,95				000	10,14,926,10		ı	1	i	ı		1		10 1000	
IABILI						1,21,500.00		41,174,01			in 8,356,16	(C)	3,158.03		7,425,00 9,24,953.69	82,550.01					107			·				
FUNDS AND L	TRUST FUNDS OR CORDUS	As per Schedule 'A'	GRANT FROM FORD FOUNDATIONS AS DOT Schedule 'B8	LIABLITTES:	1. For expenses 2. For advances	(a) Short term Irogrammes	Frogrammes to be held in 1973-74)	(b) Lost Graduate Courses: (i) Due to Students	(#)	Application less received for admission for Fost	Graduate Courses (111) Due to Management in	ABE	(iv) Due to fish students	44	(a) Security Deposits (b) Sundry Credit	balances (c) Retention ancunt for building	contractors		INCOME AND EXTEND TURE ACCOUNT Dalance of rev last	Balance Sheet	Add: Surplus as per income and Expenditure Accounts	Loss: Amount appropriated:	Enrings on Revenue	Account.		9		TUTAL
revious year , 1971-72	88. ₽.	.1,56,462,90	40.45,696.87		3,71,537,74	42,000,70		33,336,35	55,536,36		6,679,37		1,48,525,85		9,025.00	1, 23, 143,00	0000	16 13 593 66		58,031,38		35,151,35	20.152,00		-		c	4,53,24,713,46

A, LAND AND B	OTHER EARMANKED FUNDS	Balance as on Ist April 1972	Amount credited during the year	Amount debited during the year	Balance as on 31st March 1973
LAND AND			The second secon		
	DILLDING	RsPB	*55	10 P.4	G. F.
	The material from the land down the the flower of the the				д Ч
	Contribution from Industries	25,43,919.76 39;30,548,41	28,000,00	T 4	25,43,919,76
ដ ត	Contribution from Industires - Interest	4.58,916.52	2 50 335 35	*	7
	Grant from Ministry of Education for Building expenses (Gayt. of India)	60 03 MM M	00.000.0v Pr		7,113,251.87
	The contract of the production of the contract	03.000 65.60	Service of the servic		00.00.00.00
	stant from ushin for building	9,13,000,00	41,000;00	1	9,54,000,00
6. FI	Funl from increased earnings on Revenue account	3,72,930,88	3,29,123.76	•	7,01,054,64
B. ACADEMIC AC	ACTIVITIES		* <u>*</u>		
I. h	heterve Fund (for special programmes) (To meet deficit in any programme)	1) 21,649,54	1	ı	21 640 56
2. L					t0.0t0.11
	are other teaching materials)		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	
	Dooks Teaching materials	3,97,681,02	36,478.02	i i	6,33,525.96 4,04:159.04
й . В	Donation from Dritish Information Service for Equipment (as per contra)		t		21.811.
4 . 7	First for OW Transformer	٢	(a) 20, 150, 16	(a) ", "" ".	
	The tax 1108 connes	57*0C+*0J*7	4,80°,452.80		7,46,532,64
	Fasepren and Eublication Fund	2,34,799.61	4,188.91	5,4mg,np	2,33,988,52
	Furd for Banking Studies Troject Research	1,39,460,49	· ·	2,011.17	1,37,445,32
7.	Donetion for Regional Management Study Centre	•	2,63,358,32	,	2,63,358,32
C. STIDENTS I			· * *		
1. 51	Special Denation to Fund for Assistance to Students	27,089,26		ļ	
	Fund For Loan Scholarships to Students	5.93,669.79	71,227,32	. 1	6 67, 007,11
	Experisi Tobacco Co. Students Loan Fund (interest only to be used)	30,000,00			20,000,005
4; 10	Logn Fellowships from Industries	1.52.500:00	20,000,00	ł	72.500.00
	Tand For Award of Medals	00,000,1			00.000.00
vi vi	S. Soft Memorial Auged Fund (Interset and to the Manual)	00.000 e	ı	ı	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	The form the second of the sec	20.000	ï	Į.	1
•	חות לונים דווהופיר סוו ניוופורינסו שוח	9,115,15		r	9,775.75
D. FURNITURE	FURNITURE LIE EQUIENENT				
1. •	Front in sid ifon Ministry of Kducation & Govt, of Gujarat (Representing expenditure on non-recurring items) (As per centre)	14,62,659,48	2,09,175,87	29,925,97	16,41,509.33
2. G1	Great from Ministry of Food and Agricultute for Agri. Co.op. Programme for Zeufsmant (Representing expenditure on non-recurring frees)	44,2rn.99	3,337.15	1	47,538.14
3 <u>6</u>	As you contra)	A2 100 66			17.000
4. 14	Amount to be adjusted to the Ministry of Education on Sale of Assets	19,517:89	9-110-6	1 1	50.251.24
5. No		15,598.90	1		15 508 00
S. S.	Sale and/or written off amount from assets purchased from the Govt. of India and Govt. of Gutarat	20,905.47	11,902,97	4 1.	32,808,44
7. 81	Find for expenses on Committee		(b)	(6)	
	Grant from USAID for non-recurring items for EMA (as yet control	1,51,329,42	1,31,276,46		2,60,640,38
	Non-recurring expenses for Equipment met from CMA Fund (As per contra)	3,332,96	ו ו ו ו	1:1	3,342,96
10. No	Non-recurring expenses met from other sources Amount to be adjusted to the Govt, of Gularnt on Sales of assets	66,486,99	7,360,40		73,847,39
E, MISCELLANEOUS	Sno				50° 510° 51
	Donation of Shares of Limited Company	.500;CO		,	50n.00
2. Fu	Fund for Conveyance advance to Faculty and Staff (Details for use of Funds as nor Balance Sheet)	1,76,000,00	1	12	1,76,000,00
3. Fa	Faculty & Staff Development Fund	39,477,49	18,627,37	্ব	58:104.86
	Total Schedule 'A'	1,98,65,402,90	38.42.944.70	71.281.09	2.36.37,146.51

INDIAN INSTITUTE OF MANAGEMENT, AMEDADAD SCHEDULE FORMING TART OF THE BALANCE SHEET AS AT 31ST MARCH 1973

SCHEDULE 'P'

	Balance as en Ist April 1972	Amount credited during the year	Amount debited during the year	Glosing balance as on 31st March 1973
GRANT TRUE ESAD ECUNIATION	B. P.	77. P. P. B.	3E -K	84 8
For Fuilding Expenditure & nir conditioning equipments Value of Boths received (as per contra)	14,44,291.CO 12,44,917.O2	21,45,096.01 85,315.65	" 75,591,34 ^(a)	27
Value of Equipment purchased from grent (as per contra)	36,220,65 37,567,70	Y 1		36,220,65
Grant for Rupee Expenses on Committee	5,469.71	1,58,313,00	1,42,971,51 (b)	5,469,71
Value of computer received (with IRL)	1,64,329,68 32,660;35	I I	2,117.75 (c)	1,04,329,68
Write off account for the books received from the Grant	11,04,187.50	, , , , , , , , , , , , , , , , , , ,	: k - 1°	11,64,187,50
Total Schedule B	40,45,696.87	23,80,724,66	2,20,680,60	62,13,740.93
SCHELLE . 'C'			T TANKLE I	
THENCYMELE PHOPERTYES	Balance as on 1st April 1972	Amount debited during the year	Amount credited during the year	Clostng balance as on 31st March 1973
Land at cost (Received as Donation from Government Land at cost (purchased) Capital Expenditure on Building and Advances to Contractors for work under construction	25,43,919,76 4,60,679,67 1,18,24,435,00	27,73,481,76		25,43,919.76 4,60,679,67 1,45,97,916.76
	1,48,29,034,43	27,73,481.76		1,76.02.516.19

⁽a) Transferred to Library Fund (Sale proceeds of some of books)

Samuel Faul DIRECTOR Luted: 9th July, 1973

TRUSTEE

C. Remdoss ACCOUNTS OF FICER

Sorab S. Engineer & Co. GHARTERED ACCOUNTANTS

R.C. Chib AIMINISTRATIVE OFFICER

⁽b) Transferred to Income and Expenditure account for meeting expenses on research projects

⁽c) Computer Time used for the year

SCHEDULE FORMING FART OF THE CALANCE SHEET AS AT 31ST MARCH 1973 INJULAN INSTITUTE OF MANAGEMENT, APPEDAGAD

SOUTDOLLE 101

	Ist April 1972	the year	the year	31st March 1972
MOVABLE INCIDENTES (AT COST)	B. Ps	E. PS	E. 18	B. Ps
Assats jurchased out of Grants-in-aid from the Government of India and Government of Gujarat (as per contra)				
Office equipment (including Typowritors and Staff Recreation Club Equipment and Library Equipment)	3,85,994.15	94,548,68	i	4,80,542,83
Office Furniture (including Library Furniture)	2,55,883,26	17,501.26	ī	2,73,704,52
Starf vehicles	73,058,22	23,939,M	29,925.97 (a)	67,071,25
3 toks purchased from Grant	3,69,095.71	50,000,00	1	4,19,099,71
Hastel Equipment (including students recreation club)	1,32,340,81	17,784.54	1.	1,50,133,35
Hostel Furniture	11,90,100,72	1,691.58		1,91,792,30
class room Equipment (including production equipment)	0,124,95	-1	1	8,124,95
Glass room Furniture	25,212;98	1,851.36	ŧ	27,064.34
Customs cuty on imported Equipment	22,836,68	1,459.45	•	24,296.13
	14,62,659,48	2,09,175.87	29,925.97	16,41,909,33
books received from Ford Foundation (as per contra)	12,44,917;02	85,315,65	75,591,34 ^(b)	12,54,641,33
Telipment received from Ford Foundation (as per centra)	36,220,65	1	•	36,220,65
Computer received from Ford Foundation (as per contra)	11,04,1,7,50	,	7	11,04,187.50
Equipment received from Laistab Information Service (as per contra)	13,11°.10		1	13,118.10
Rightment purchased from Ford Foundation grant (as per contra)	37,567.70	1	ŧ	37,567,70
Equipment purchased from Ford Foundation grant for CMA (as per contra)	5,469,71	i	ı,	5,469.71
Equipment purchased for computer in IIM	1,10,097,78	3.	I	1,10,097,78
Equipment etc. gurchased from Ministry of Food and Agri. grant (as per contra)	44,200.99	3,337,15	ı	47,538.14
Equipment purchased from CMA Fund (as per contra)	3,332.96	1		3,332,96
Equipment etc. purchased for IMA mat from USAIN grant (as per contra)	1,24,826,29	35,485,60	3	1,60,311,59
L-ulpment purchased from NIDS grant (as per contra)	15,595,90		ı	15,598,90
Equipment purchased from other sources	64,627.99	7,360,40	ť	71,968,39.
Books purchased out of Library Fund	2,32,946.18	7,117.79	t	2,40,063,97
Total Schedule 'D'	44,99,771.25	3,47,792.46	1,05,517,31	47,42,046,40

⁽b) Transferred to Library Fund

(a) Cost of vehicles sold

Samuel Paul DIRECTOR

Dated: 9th July, 1973

TRUSTEE

R.C. Chib AMINISTRAITVE CAFICER

C. Pendoss

Sorab S. Engineer & Gr. CHARTERED ACCOUNTANTS

SCHECULE FORMING FART OF THE EALANCE SHRET AS AT 31ST MARCH 1573 INDIAN INSTITUTE OF MANAGEMENT, AMEDIAEAD

SCIEDULE 'R'

B.Z S.	74,10,973.71	9,556,42	74,20,530,13	
P. P.	1,25,115,39 72,07,000,00 6,358,32 50,000,00 22,500,00 5,886.20 1,130.22 100.00 2,440.00			
CASH AND BANK BALANCES:	In current account with State Bank of India In short-term/fixed deposit with State Bank of India In fixed-term deposits (others) with State Bank of India In fixed-term deposits:- i. Imperial Totacco Company Loan Fund 2. Students Loan Pallowships from Industries Cash and cheques on hand Fostage stamps on hand (including balance in Franking Machine) Cash with Centre for Management in Agriculture Cash with Hostel Mess		Tetal Schedule 'E'	
As on 318t March 1972 R. Fs	1,61,717,67 44,35,000,00 12,000,00 50,000,00 35,000,00 35,549.58 4,541,75 668.25	5,681,52	47,34,948.97	

Dated: 9th July, 1973

TRISTEE

Semuel Paul DIRECTOR

C. Ramdoss ACCOUNTS OFFICER

Sorab'S. Engineer & Co. CHARTERED ACCOUNTANTS

R.C. Chib Then

Indian institute of management, amedaead Cantributery provident fund Balance shert as at 31st harch 1973

					•	•	
LIADILITI	i S	٠			ASSETS		
TWO YOUR TOUR	• हो. • हो.	22	Pa.				
				LNVESTMENT		2 .	, te
C pening belance as on Ist April 1972	•	7,76,289	289	12 Year National Defence Certificate at Eace value	cate at Eace value	004,66,9	
the year.			9	7 Year National Savings Certificate (II) Issue)	cate (II)I ssue)	000 FF 4	
Subscriptions	1,74,547			6% Gularat Industrial Develorment Bond 1063	nt Board Joes	D. Y. fr	
Interest	47,517 2,22,064)64		(face value 18,20,000)	**************************************	19,600	13,90,000
Lessi				INTEREST ACCRISE ON INTESTMENT	1		
Layment to employees leguing the	24,096	96,76,1	968 9,74,257				3,06,768
Institute dufing the year				LOAMS TO SUISCRIBERS			110.72
CHARLEUTION OF INSTITUTE				INDIAN INSTITUTE OF MANACRE NE ARREDANCE			776677
opening balance as on 1st April 1972		6,25,735	735	TANE TAY ANCTE	TOTAL		28,034
Additions during the year:			å	- 17			37 27
Contribution	1,38,020			(An current account with the State Bank of India, Almedabed)	te Bank of India, Almedabed)		101 11.
Interest	36,725 1,74,745	745		PA.			
Less: Faid during the year:-							
Amount transferred to Reserve Fund	5,456	b		i i			
Enyments to employees leaving the Institute	14,772 20,228	28 1,54,517	517 7,80,25	52			is and the second secon
THE SALES				-			
Falance as on 1st April 1972		43,093	:63				
Additions during the year		5,450	450 40.349	97			
TOWN AND EXCENTINE ACCOUNT				-			
Balance as on lst April 1972		24,096	060				
Lass: Amount of interest met during the year		3,334	134 20,756	95	2 ~		
TOIN			18,23,614	1211	TOIGH]F]	18,23,814
	INCON	(E AND EXP	ENDITURE AC	INCOME AND EXPENDIUME ACCOUNT FOR THE YEAR ENDING 31ST MARCH 1973			
BKFENDIT	TURE				INCOME		
In Entotact model durates at							
abad and farm the year.	# E		64,242	<u>. 2</u>	l a	80,908	
TOTAL:			84.242	Add Interest met during the year from the previous years' balance	from the	3,334	,
				* 4		1]	84,242

Exemined and found correct as per backs of accounts, vouchers etc. produced before us and as per information and explanations given to us.

Dated: 5th July, 1973