REPORT OF THE

SECOND JOINT INDO_AMERICAN TEAM

ON

AGRICULTURAL EDUCATION, RESEARCH AND EXTENSION

Issued By

THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH

New Delhi, India

Juna. 1960

Dear Mr. Damle:

It is indeed a pleasure to transmit herewith the Report of the Second Joint Indo-American Team on Agricultural Education, Research and Extension.

Members of the Team visited most of the Indian States to discuss with Government officials, educators and others the diverse and complex problems related to these three activities. In connection with these discussions, they were privilegod to inspect facilities and review the work of many research institutes, Commodity Committees, agricultural and veterinary colleges and Community Development and National Extension Blocks.

The Team was guided by the terms of reference set forth in a Government of India Resolution.

Progress of work during the past five years is reviewed in the Report; supplementary recommendations are presented relative to support of agricultural cducation, research and extension in the Third Five Year Plan; and the Inter-institutional Agreement with five American universities is reviewed and recommendations made for its continuance.

The views of the Team, as projected in the Report, with one exception, have the unanimous approval of the members.

We believe that recommendations of the Team, if implemented, will strengthen agricultural education, research and extension, and contribute greatly to India's economic and social development.

Yours sincerely,

M. S. Randhawa Chairman Second Joint Indo-American Team

Shri K. R. Damle, I.C.S. Secretary Department of Agriculture Ministry of Food & Agriculture New Delhi

Contents			

.

<u>Chapter I</u> - Introduction	1
First Joint Indo-American Team	2
Second Joint Indo-American Team	3
Terms of Reference	4
Mode of Operation	4
Scope of Report	.5
Acknowledgement	6
<u>Chapter II</u> - Education	7
Summary of First Team's Report	. 7
Current Situation	8
Teaching Below College Level	8
Under-graduate Level	8
Post-graduate Level	9
Agricultural Universities	9
Indian Council of Agricultural Education	10
Basic Principles	10
Agricultural Schools	11
Education at Under-graduate Level	12
Agriculture	12
Veterinary	12
Animal Husbandry	13
Home Science	13
Extension	13
Post-graduate Training	14
Agricultural Universities	14

Goals	15
Administrative Organization	17
Duties of University Administrators	18
Chief Administrator	18
Division Heads	18
Department Heads	19
Teaching	19
Student Body	21
Research	- 21
Agricultural Education System - Discussion	21
High Schools	22
Under-graduate Colleges	23
Post-graduate Colleges	24
<u>Chapter III</u> - Research	25
Research Organizations and Agencies	25
Central Research Institutes	27
Indian Council of Agricultural Research	27
Commodity Committees	28
Ministry of Food & Agriculture (Department of Agriculture)	29
State Departments and Institutions	29
Other Institutions	30
Summary of First Team Report	30
Financial Support	31
Organization	31

Current Situation	32
Basic Principles of Agricultural Research	36
Identification of Problems	37
Building a More Effective Research Programme	38
Agricultural Research Policy	39
Agricultural Research	39
Organization for Effective Agricultural Research	40
Central Agricultural Research Organization	41
State Research Organization	45
Coordination of Centre-State Research	46
Increasing Incentives, Morale and Scientific Integrity of Agricultural Research Scientists	48
Integration of Education and Research	49
<u>Chapter IV</u> - Extension	51
Current Situation	51
Basic Principles	52
Objectives	53
Education	53
Organization and Administration	53
Financial Support and Control	53
Personnel	54
Programmes	54
Coordination	54
Community Development Organization	55
Central Ministry of Community Development	55

.

iv	•
Ministry of Food & Agriculture	-55
States	55
Identification of problems	56
Objectives	56
Education	56
Organization and Administration	57
At the National Level	57
At the State Level	59
Financial Support and Control	60
Extension Personnel	60
Selection	60
Adequato Numbors	60 [^]
Training	61
Incentivos	61
Programmo Participation	62
Home Science	62
Youth Work	62
Relation of Research, Education and Extension	63
<u>Chapter V</u> - Factors Common to Research, Teaching and Extension That Influence Food Production	64
Resources and Allocations	64
Administration	66
Chapter VI- Land and Livestock Relationships	69
<u>Chapter VII</u> - Inter-University Contract Programme	72

.

.

Chapter VIII - Summary of Principal Recommendations	78
Agricultural Education	78
Below College Level	78
Under-graduate Level	79
Post-graduato	80
Agricultural University	80
I.C.A.E.	.81
Genoral	81
Roscarch	82
Extension	84
Inter-University Contract Programme	86
Appendix I - A Minute of Dissont	88
Appondix II - Supplementary Note by Indian Members	91
Appendix III - Government of India Resolution constituting the Team - Terms of Reference	93
Appondix IV - Placos visited and Officials mot by the Team	96
Appendix V - Questionnaire issued to State Governments	107
Appondix VI - Questionnaire issued to Commodity Committees	115
Appendix VII - Questionnaire issued to Contral Institutes	119
Appondix VIII - Bio-data of Team Monbors	120

V