

3860366 (25)

PROJECT APPRAISAL REPORT (PAR) **PD-AAD-108-B1**

PAGE 1

1. PROJECT NO. <b>386-11-110,366.1</b>	2. PAR FOR PERIOD: <b>7/1/71 TO 9/30/72</b>	3. COUNTRY <b>INDIA</b>	4. PAR SERIAL NO. <b>FY73-6</b>
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6. PROJECT TITLE  
**TERMINAL PAR  
Agricultural Production - Tamil Nadu**

6. PROJECT DURATION: Began FY <b>1967</b> Ends FY <b>1973</b>	7. DATE LATEST PROP <b>6/24/69</b>	8. DATE LATEST PIP <b>-</b>	9. DATE PRIOR PAR <b>9/13/71</b>
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10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: <b>FY72 \$639,000</b>	b. Current FY Estimated Budget: \$ <b>-</b>	c. Estimated Budget to completion After Current FY: \$ <b>-</b>
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11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME	b. CONTRACT, PASA OR VOL. AG. NO.
<b>University of Tennessee</b>	<b>AID/nesa-319</b>

I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X)			B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
JS/AD	AID/W	HOST		

In-depth evaluation could not be carried out because of non-participation by the GOI. However, we have copies of the requested summary of team activities.

No action required as project phased out as of September 30, 1972.

D. REPLANNING REQUIRED	<input type="checkbox"/> REVISED OR NEW <input type="checkbox"/> PROP <input type="checkbox"/> PIP <input type="checkbox"/> PRO AG <input type="checkbox"/> PIO/T <input type="checkbox"/> PIO/C <input type="checkbox"/> PIO/P	E. DATE OF MISSION REVIEW <b>1/24/73</b>
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PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE <b>Ervin T. Bullard</b>	MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE <b>Howard E. Houston</b>
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02/09/73

AID 1020-23 (10-70)	PROJECT NO.	PAR FOR PERIOD: 7/1/71	COUNTRY	PAR SERIAL NO
PAGE 2 PAR	366-11-110-366.1	TO 9/30/72	India	FY73-6

A. INPUT OR ACTION AGENT	B. PERFORMANCE AGAINST PLAN							C. IMPORTANCE FOR ACHIEVING PROJECT PURPOSE (X)					
	UNSATISFACTORY		SATISFACTORY			OUT-STANDING		LOW		MEDIUM		HIGH	
	1	2	3	4	5	6	7	1	2	3	4	5	
1. University of Tennessee				X	X								X
2.													
3.													

Comment on key factors determining rating

The overall performance of the American team members was very good and much of the suggested program has been taken over by the State Department of Agriculture and the new Agricultural University.

4. PARTICIPANT TRAINING	1	2	3	4	5	6	7	1	2	3	4	5
		X	X							X		

Comment on key factors determining rating

Three FY70 participants trained in U.S. returned to Tamil Nadu during this period. All previously trained participants have either been promoted within their field of training or have gone on to higher positions. Overall accomplishments in the participant training program were below expectations. The complete suspension of training programs prevented the processing of future participants.

5. COMMODITIES	1	2	3	4	5	6	7	1	2	3	4	5
				X								X

Comment on key factors determining rating

Relevant commodity items were turned over to the Agricultural Department and to the Agricultural University on completion of this sub-project for the continuation of on-going activities.

6. COOPERATING COUNTRY	RATING											
	1	2	3	4	5	6	7	1	2	3	4	5
a. PERSONNEL					X							X
b. OTHER				X	X							X

Comment on key factors determining rating

The new Tamil Nadu Agricultural University was established on September 26, 1971 which caused changes in State Department of Agriculture responsibilities. Team relationships remained about the same with their counterparts except that their university counterparts could not travel as extensively as before. However, this change was counteracted to some extent by initiating a university training program for the technical assistants' program.

7. OTHER DONORS	1	2	3	4	5	6	7	1	2	3	4	5

(See Next Page for Comments on Other Donors)

Not applicable.

II. 7. Continued: Comment on key factors determining rating of Other Donors

Not applicable.

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					
		CUMULATIVE PRIOR FY 72	CURRENT FY 73		FY ____	FY ____	END OF PROJECT
			TO DATE	TO END			
1. Trained staff P-Participants (US Trained) L-Local staff	PLANNED	P-20	P-0	P-0			P-20
	ACTUAL PERFORMANCE	L-1200 P-9	*	*			L-1200
	REPLANNED	L-1000	L-*				
2. Field tests and demonstrations	PLANNED	600	*	*			600
	ACTUAL PERFORMANCE	600	43				
	REPLANNED						
3. Four FPUs upto 10/23/71 three FPUs from 10/23/71 to 4/27/72, and two FPUs from 4/27/72 to 9/30/72	PLANNED	5	2				5
	ACTUAL PERFORMANCE	4	2				
	REPLANNED						
4. Meetings of High Level Coordination Committee	PLANNED	20	1	1			21
	ACTUAL PERFORMANCE	7	-				
	REPLANNED						
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS		COMMENT:					
1. Prompt identification and solution of field problems		The team continued to identify problems and seek their solutions. Technical assistants and agriculture officers were utilized in reporting farmers' problems and carrying back information to them. Lines of communication between research agencies, fieldstaff and private industry have been fairly well developed. A new pattern is taking shape with the establishment of Tamil Nadu Agricultural University.					
2. Field Problem Units in farm machinery, plant protection, agronomy and water use and management.		The U. S. technicians with their Indian counterparts undertook effective programs for developing a local threshing machine and seed drill, and training of technical assistants in the best planting time of maize and correcting zinc deficiency in rice fields. Training was also imparted in integrated wells, quality of ground water, etc.					
3. High level coordination		COMMENT: Good coordination existed between the research staff and extension agency. This was ensured by frequent meetings among themselves and periodic meetings of the High Level Coordination Committee. With the establishment of Agricultural University new lines of communication are being developed.					

AID 1020-23 (10-70)	PROJECT NO.	PAR FOR PERIOD: 7/1/71	COUNTRY	PAR SERIAL NO.
PAGE 4 PAR	386-11-110-366.1	to 9/30/72	India	FY73-6

IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged.

2. Same as in PROP?  YES  NO  
Slightly rewarded

Assure continuing identification and solution of field production problems resulting from the introduction of HYV, use of associated inputs and farm level adoption of proven recommended practices.

B. 1. Conditions which will exist when above purpose is achieved.

2. Evidence to date of progress toward these conditions.

1. High level coordination exists among agricultural development institutions.

1. Good working relationship existed between the research staff of the Agricultural University and the Department of Agriculture. This was brought about by frequent meetings of the Field Problem Units and the periodic meetings of the High Level Coordination Committee to discuss programs, progress, problems and their solution.

2. Qualified researchers and field staff assigned.

2. The research staff of the Tamil Nadu Agricultural University and that of the Extension Agency is well qualified and experienced. The Indian associates of the U. S. technicians were competent.

3. Agricultural Research programs oriented toward problems retarding foodgrain production.

3. Increasing proportion of the University's research programs are directly related to current production problems, e. g. development and trial of new varieties, successive cropping of IR-8, best sowing time for maize, zinc deficiency in soil, quality of irrigation waters, etc. (Continued)

V. PROGRAMMING GOAL

A. Statement of Programming Goal

Help the State Government in achieving the goal of rapid increase in foodgrain production by maximizing output per unit area.

B. Will the achievement of the project purpose make a significant contribution to the programming goal, given the magnitude of the national problem? Cite evidence.

The team's efforts had a marked influence in the adoption of improved paddy variety IR-8 and its derivatives such as IR-5, IR-20, IR-22, and IR-24. The breeding program of Tamil Nadu Agricultural University, using these varieties in crosses with local varieties, has resulted in local development of HYV CO 33, 34, and 35. The area under HYV and production of foodgrains has sharply increased. In 1970-71 approximately three-fourths of the total rice area was under HYV as against only 18 percent in 1967-68.

## B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS (contd...)

## 4. Field tests and demonstrations.

**Comment:** Approximately 37,000 farmers were contacted in 612 meetings and 43 field demonstrations were conducted. Aerial application of pesticides was demonstrated. Dissemination of research conclusions was done by setting up booths at weekly markets.

## Page 4

## B. 1 (continued)

## 4. Established lines of communication between related research agency, field staff and private industry.

Well-established lines of communication exist between the various agencies. The subject-matter specialists of the Agricultural University train the field staff of the Department of Agriculture in upto-date research findings by organizing coordinated meetings and in-service training programs. Field trials of fertilizers and new implements, studies on water quality, well-integration, preparation of leaflets and demonstration of farm practices and implements have been arranged jointly.

## 5. Systematic interpretation and testing of research conclusions.

There is a regular program of testing new varieties of rice, pulses, soybean, etc. improved agricultural practices, implements, crops suited to rainfed areas by the research workers of the University and the Staff of the Agricultural Department at the government, farmers and cultivators fields. Results of rice varieties are compared with those of the All-India Coordinated Rice Improvement Program and conclusions are drawn after thorough consideration by the extension and research staff.

Page 4 B. 1 continued.

6. Dissemination to farmers of tested research conclusions and farmers acceptance of recommended practices.

Dissemination of information is done through distribution of HYV seeds with other inputs, arranging demonstrations in farmers' fields and at weekly village markets, printing leaflets and bulletins on important topics in local language and holding village meetings with farmers. During the period under report about 37,000 farmers were contacted by the Field Problem Units assisted by well-trained technical assistants provided with motor cycles.