

PROJECT APPRAISAL REPORT (PAR)

1. PROJECT NO. 386-11-120-368	2. PAR FOR PERIOD: 1/1/1970 TO 6/30/1971	3. COUNTRY India	4. PAR SERIAL NO. FY 72-9
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Soil and Water Management - Central Team

PD-AAD 116-G1

6. PROJECT DURATION: Began FY 1967 Ends FY 1975	7. DATE LATEST PROP 6/17/1969 ✓	8. DATE LATEST PIP 7/20/1970 ✓	9. DATE PRIOR PAR 12/31/1969 ✓
10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: \$ 1,851,000	b. Current FY Estimated Budget: \$ 528,000	c. Estimated Budget to completion After Current FY: \$ 358,000

5p

11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME	b. CONTRACT, PASA OR VOL. AG. NO.
Soil Conservation Service	PASA

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

A. ACTION (X)			B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
USAID	AID/W	HOST		
x1		x2	1. High level conference to resolve problem of vacancies in sanctioned GOI posts which reduces effectiveness of USAID technical assistance. Filling of vacancies in sanctioned posts of the Water Management Division and the Soil Conservation Division of the Ministry of Agriculture.	December 31, 1971
x			2. The project manager will undertake a detailed review of his project reporting and information gathering system to assure that more adequate data are being collected over the next year to measure the project outputs and conditions expected at the end of the project stated in the logical framework.	December 31, 1971

D. REPLANNING REQUIRES

REVISED OR NEW: PROP PIP PRO AG PIO/T PIO/C PIO/P

E. DATE OF MISSION REVIEW

10/14/72

PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE

Elwin D. Butler

MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE

Howard E. Houston

10/14/71

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

Not applicable to project

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					
		CUMULATIVE PRIOR FY	CURRENT FY 71		FY 72	FY 73	END OF PROJECT
			TO DATE	TO END			
1. 165-175 trained technicians officers.	PLANNED	50	48	-	42	23	175
	ACTUAL PERFORMANCE	51	44				
	REPLANNED			-	-	-	-
2. Procedure manual for soil and land resource inventory and guidelines for watershed delineation and coding.	PLANNED	30%	30%	-	20%	15%	100%
	ACTUAL PERFORMANCE	30%	40%				
	REPLANNED			-	-	-	-
3. Checklist and evaluation guidelines for evaluating new and existing irrigation projects for adequacy of soil and water management.	PLANNED	-	100%	-	-	-	100%
	ACTUAL PERFORMANCE	-	100%				
	REPLANNED			-	-	-	-
4. 3 sets of technical guides for Pilot Projects.	PLANNED	25%	25%	-	20%	15%	100%
	ACTUAL PERFORMANCE	20%	30%				
	REPLANNED			-	-	-	-
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS		COMMENT:					
1.							
2.		COMMENT:					
3.		COMMENT:					

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

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					
		CUMULATIVE PRIOR FY	CURRENT FY 71		FY 72	FY 73	END OF PROJECT
			TO DATE	TO END			
5. 15 technical bulletins and 5 technical releases as needed by State organizations.	PLANNED	4	5	-	4	4	20
	ACTUAL PERFORMANCE	4	6				
	REPLANNED			-	-	-	-
6. Hydrology handbook and procedures and guidelines for sedimentation evaluation.	PLANNED	-	45%	-	40%	15%	100%
	ACTUAL PERFORMANCE	-	40%				
	REPLANNED			-	-	-	-
7. Soil survey manual and other technical releases concerning modern soil and land use survey programs.	PLANNED	38%	12%	-	13%	12%	100%
	ACTUAL PERFORMANCE	40%	5%				
	REPLANNED			-	-	-	-
8. 7 technical reports on special studies concerning research programs, ground and surface water assessments and flood control.	PLANNED	1	2	-	1	2	7
	ACTUAL PERFORMANCE	1	2				
	REPLANNED			-	-	-	-
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS	COMMENT: Technical papers on Well Screens, and Gravel Packing Techniques presented to CGWB Training School, and made available for distribution. New Handbook on Rotary Drilling Operations complete.						
1. Technical releases and reports to provide guidance to tubewells drilling operations & maintenance to Central Ground Water Board and Irrigation Division of Ministry of Agriculture.	COMMENT: Papers prepared for improved drilling methods and well developed methods for Minor Irrigation Division. Only minor distribution completed to date, by the GOI.						
3.	COMMENT:						

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IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged.

2. Same as in PROP? YES NO

To develop within GOI Soil and Water Management agencies (Water Management Division, Soil Conservation Division, and Minor Irrigation Division within the Ministry of Agriculture, and the All-India Soil Survey Organization and Indian Agricultural Research Institute), the capability to bring about effective utilization of India's Soil and Water resources, both developed and undeveloped.

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

2. Evidence to date of progress toward these conditions.

1. Coordination among the several departments concerned with soil and water resource management.
2. Soil survey data from state and Central sources is being correlated by All India Soil Survey Organization.
3. Suitable procedures for hydro-logic and sedimentation studies are being used by the Soil Conservation Division.
4. Coordinated soil and water management research program in effect in Indian Council of Agricultural Research.
5. Additional pilot project in operation under GOI direction and management.
6. GOI Soil and Water agencies have adequate staff.

1. Irrigation project plans are sent to Ministry of Agriculture for review of agricultural aspects. Suggestions are considered by GWPC.
2. Soil correlators posted in various locations and are actively correlating soil surveys.
3. Procedure manuals about 40% complete. Delay in posting senior hydrologist and sedimentationist counterparts hampers training aspects of technical assistance.
4. Indian Council of Agricultural Research has several coordinated crop-wise soil and water management programs underway. Progress reports published annually.
5. Four additional state pilot projects sanctioned by GOI (Orissa, Gujarat, Rajasthan, Maharashtra). Staff not yet posted.
6. Positions sanctioned for several months but staffs not posted. Poor progress.

V. PROGRAMMING GOAL

A. Statement of Programming Goal

Continuing rapid growth in agricultural production in India.

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.

Modern programs of soil and water management are considered vital to continued agricultural growth in India. For this reason achievement of the project purpose will make a significant contribution to the programming goal.

Evidence exists which indicates that GOI has developed an increased awareness of the importance of soil and water management to continued agricultural growth. Among this evidence is increased inter-agency communication and cooperation, acceptance of modern techniques and programs of soil and water management, extension of pilot soil and water management projects to four additional states and reorganization of departments to carry out programs more effectively.