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	AN AGENCY OF THE	GOVERNMENT OF_	INDIA		
	The above-named parties here carry out a project in accordance w herein and the terms set forth in hereic, as checked below:	th the terrs set forth	1. PROJECT/ACTIVITY 386-11-190 2. лоякеемант но.	~367 143,	PAGE 1 OF PAGES
	ANNEX A	GN CURRENCY ARD PROVISIONS ATTNEX	Supplement		EAVISION NO. 19
	STANDARD SPECI	AL LOAN SIONS ANNEX			4
	This Project Agreement is furthe of the following agreement between as modified and supplemented:	r subject to the terms	Agricul	tural Inputs	Development
	GENERAL AGREEMENT FOR TECHNICAL COOPERATION	Dec. 28, 1950	E. PROJECT DEECHATI	ON AND ZAPLANATION	
	ECONOMIC COOPERATION	DATE		loo Hanes A allachs	-
-	S (stas) extended June	MasJan 5,1952 29, 1957.	6. AND APPROPRIATION Dollars 72-110 Rupees 72 F1	1004   054-	allotmert eyndol 50=386=00=69=01 50=386=00=69=00
	8. AID FINANCING	PREVIOUS TOYAL (A)	INCREASU (U)	Decneasy (C)	TOTAL TO DATE (D)
	(e) Total Dollars	0	290,410	0	290,410
	(D) Contract Services / P.A.S.A	0	33,160 <sup>a/</sup>	0	33,160
	(c) Commodities	0	0	0	0
	(d) Other Costs/Participa	ats O	257,250	0	257.250
F	D. COOPERATING AGENCY Rupe Einancing - Deriver Hotaracensi S1.00 = Rs. 7.60				
	(a) Total Rupse	0	782,800 (\$EC,103,000	0	(\$EO 103,000)
	(b) Technical and other Services	0	· 0	0	0
_	(c) Commodities	. 0	0	0	0
	(d) Other Costs	0	0	0	0
	10. SPECIAL PROVISIONS (WAS Additional Addi	560 600 160	n of Project s	ee Annex A,	
	11. DATE OF ORIGINAL AGREUMENT August 29, 1959	12. OATL OF THIS REVI Not applica		13. ESTIMATED MINAL March 3	CONTRIBUTION DATE
	14 FOR THIS COOPERATING COVERNM	ent or adency	15. FOR THE AGEN	Sd/-	AL DEVELOPMENT

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	AN AGENCY OF THE GOVERNMENT OF		
ANNEX _A	[ND]A	Agricultural Inputs	Development
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This Agreement is executed pursuant to the Technical Cooperation Programme Agreement entered into between the Governments of India and the United States of America on January 5, 1952, and is signed by the designated representatives of the two governments - R.K. Ganguly, Deputy Secretary, Ministry of Finance of the Government of India (hereinafter referred to as the "Representative") and John H. Funari, Director (Acting) of the U.S.A.I.D. Mission to India of the Agency for International Development of the Government of the United States of America (hereinafter referred to as the "Deputy Director").

## Description of Project

In furtherance of the purposes and objectives of Project Agreement No. 143 as supplemented and amended, continued U.S. technical assistance will be provided during FY 1970 by the U.S.A.I.D. to the Government of India. Ministry of Food and Agriculture in their efforts to rapidly increase the agricultural production inputs as described in the Operational Work Flan Annex B attached hereto as a guide to the implementation of the project.

The  $U_sS_sA_sI_sD_s$  technical assistance will cover the services of technical experts and consultants and  $U_sS_s$  training opportunities for Indian personnel as detailed herein.

The U.S.A.I.D. hereby agrees:

## 367.1 - Fertilizer

(a) To continue the services of one direct hire Fertilizer Promotion Specialist assigned to the Fertilizer Association of India. In addition four short-term fertilizer consultants
Two PASA and TWo Contract - for a total of 2 man-months will be provided to assist the FAI with their annual All-India Fertilizer Seminar. Estimated cost of consultants \$4,300 and Rs. 29,100 for two PASA consultants and \$3,560 and Rs. 29,100 for two contract consultants: Total Cost \$7,860 and Rs. 58,200.

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	DUMATER ADDRESS	1. Projace?/Activity No. 336~11-190+367	HADE OF 5 PAGES
	DETWEEN AND AND MINISTRY OF FINANCE	2. Agreement No. 143. Supplement No. 3	3. X Criginator the entring June 30 Revision No.
на	AGENCY OF THE GOVERNMENT OF	3. Project/Activity Title Agricultural Inpu	ats Development
	21 Indian participant.	and observation tours abress s for approximately 88 ma of fertilizer marketing. s. 210,000.	n~months
367.	2 - Seed Improvement		
	production and the of on board and provide complete the four-ma Seed Corporation. T under an AID contract the funds obligated in adequate for the serve funds to extend the co- accordance with US A	vices of two seed technici ther processing specialist two additional seed techn an team to work with the O These four technicians are at with the Mississippi Sta prior years for this cont vices during FY 1970; addi ontract through March 31, AID regulations will be pro- bur technicians are on be	) already icians to GOI's National being provided te University; ract are tional necessary 1971 in ovided later
	approximately 112 ma seed technology, mas	ning for 18 Indian particip in months in the various f recting and seed industry 800 and Rs. 180,000.	ields of
367.3	3 - Plant Protection		
	with another U.S. gov technician is expected assist the Central Pla Hyderabad, A.P., in training programs on methods. Estimated	ology Training Specialist ( 1 to Supplement No. 3) und vernment agency (PASA). d to be on board in the fall ant Protection Training In the organization and cond pest disease survey and v additional cost to cover fu 970: \$4,300 and Rs. 21,30	ler agreement This 1. He will stitute, uct of varning illy the
	(b) To provide one direct with the Posticide As	hire Pesticides Specialis sociation of India to assist	t to work

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·		INDIA	Agricultural Inputs I	Jevelopment
	(c)	for a total of annro	ng abroad for four Indian ximately 48 man-months Food and Agriculture. H ,000,	to be sponsored
	367.4 - Fa	rm Implements		
	(a)	Agriculture Engine assist the Ministry planning, and devel and distribution sys (This ProAg does n	ervices of one direct hir er (Ferm Machinery) in of Food and Agriculture oping farm equipment as stem in the public and pr sot at this time authorize of Agriculture Engineer 3.)	FY 1970 to , in evaluating, ad their supply ivate sector. the second
	(b)	for two months cert conducting en indus	a of five short-term con- h to assis: with the plann try seminar to stimulate arm machinery. Estima 000.	ing and interest
	(c)	abroad for 18 Indian 6 man-months in t	ng and observation tour f n participants for approx he production, servicing machinery. Estimated c 1,000.	im tely and market.
			nentioned above will be e eet hire project manager	
	USAID and Developmer	the GOI hereby make	ementing the above activ available \$270,410 from s. 782,800 from the GOI tributed as follows:	m the
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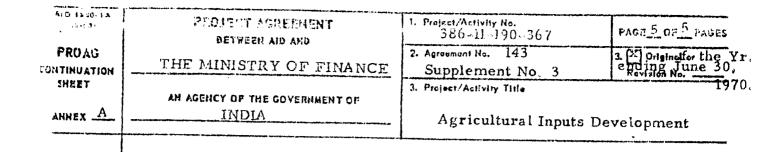
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PROAG	THE MINISTRY O	F FINANCE	1	enent No. 3	3. 5 A printer the Revision No.
SHEET	AN AGENCY OF THE GO	VERNMENT OF	3. Project/4	Activity Title	outs Development
	USAID Dollars:				
	Sub-Project No.	10 - 4 - 1	and the second s	/Conslts	
	Super roject 100	Total \$	Contract \$	PASA \$	Participants
	367,1	, 95,560	پ 3,560	⊅ 4,300	\$ 87, 700
	367.2	78,800	رب درب		78,800
1	367,3	30,700	19	4,300	26,400
	367.4	85,350	21,000	.7	64, 350
	Total:	290, 410	24,560	8,600	257,250
	GOI Trust Fund Ru	ipees:			
	0/ <b>D</b>	Rs.	Rs.	Rз.	Rs.
	367.1	268,200	29,100	29,100	210,000
1	367,2 367,3	180,000	**	с <b>л</b>	180,000
1	367.4	61,300	а,	21, 300	40,000
	JU1,4	273,300	93,300	<b>C</b> .)	180,000
	Total:	782,800	122,400	50,400	,610,0 00

It is agreed hereby that funds provided herein may be readjusted for the purposes of the project without a formal amendment of this agreement, among the subprojects and components, if such readjustment is found necessary because of subsequent re-estimation or revision of costs and changes in plans concerning numbers and durations of consultants and participants, subject to the proviso that the total funds may not be exceeded.

Recognizing the funds provided herein do not cover fully the participants for the Farm Implements subproject (No. 367.4), nor provide for forward funding the Seeds team (No. 367.2) through March 31, 1971 as normally required under AID regulations, it hereby is agreed to review the status of these activities later in the year for appropriate action.

It also is agreed that inasmuch as the funds provided for the PASA position at Hyderabad (subproject 367.3) do not cover the total one year assignment requested by the GOI, any funds remaining unutilized

For the Cooperating Government or Agency	For the Agency for International Development
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as of June 30, 1970 from those provided herein may be used to extend the PASA into FY 1971.

The USAID will provide the necessary dollar funds, in addition to those provided herein above, for the direct hire technicians for the project in accordance with its regulations; these dollar funds will be supplemented by rupees from the USAID-administered GOI Trust Fund for local support costs as appropriate.

The Government of India, from Fund B or other sources, will (a) for the GOI-requested technicians, provide office space, equipment, furnishings and supplies, stenographic, secretarial, translation and interpreting services, and pay the cost of official comminications in accordance with the agreement between the two governments dated May 9, 1956; and (b) for the participants selected for training in the U.S. pay their salaries while in training abroad, intra-India travel and transportation costs to and from New Delhi, and other pre-departure expenses.

The Ministry of Food, Agriculture, Community Development and Cooperation shall be responsible for the general administration and supervision of this project except for the participants from fertilizer industry and the related Ministry.

DATE:

#### OPERATIONAL WORK PLAN

For the Period July 1, 1969 to June 30, 1970 Agricultural Inputs Development

#### I. PREFACE

This Operational Work Plan provides a description of the activities contemplated under this Project. It is intended to be a guide to the implementation of the project and reflects joint preparation and the intent of signatories to this agreement. The Plan does not commit either Government until required administrative and financial clearances have been given by the appropriate authorities. Formal commitment by each Government to the specific actions required will be made by the execution of a project agreement.

#### II. BACKGROFIND OF CURRENT ACTIVITY & GOALS

This activity forms a part of the USAID agriculture activity to complement the efforts of the Government of India in the Ministry of Food and Agriculture to rapidly increase the availability and efficient utilisation of essential agricultural inputs for increased agricultural production. Specifically, this project provides direct support in the area of fertilizers, seed, plant protection and agricultural machinery.

## III. SPECIALIST SERVICES

A. Fertilizers

During the period covered by this Operational Work Plan, the following Government of India requested U.S. spacialists will be assigned:

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1. One Fertilizer Promotion Specialist will be provided to work with the Fertilizer Association of India, a non-official organization of fertilizer manufacturers. He will be stationed in New Dalhi but will work throughout the country with the Fertilizer Association of India His principal task will be to assist the Fertilizer Association of India's Fertilizer Promotion Program by working closely and in cooperation with various constituents of the Fertilizer Association of India. In particular, he will holp in developing statistical services, sales promotion, braining, and distribution and in identifying new problems and seeking their solution.

m: 2 :..

2. <u>Four short term Fertiliser Consultants</u> will be secured to assist the FAI with the annual All-India Fertiliser Seminar

B. Sead Improvement

During the period covered by this Operational Work Plan, four Government of Indis-requested seed specialists will be provided to work with the <u>National Seeds Corporation</u>, a public sector organization:

1. Two Sand Production Specialists, with practical experience in hybrid seed production and processing, will be assigned to regional stations of the National Seeds Corporation (Pantnager and Poons) to assist in building the NSC foundation seed production potential in each area. They will work with regional staff to develop affective seed certification agencies at the state level and help establish meaningful training programs for seed producers, processors, marketing personnel, equipment

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manufacturers and dealers, as well as assisting seed development, certification and seed law enforcement personnel at the state level.

2 One Seed Processing and Storage Specialist will be assigned to NSC and stationed at New Delhi to assist NSC in establishing and mainteining officient seed processing and storage units for its foundation seed production.

3 One Seed Marketing Specialist will be assigned to NSC and stationed at New Delhi to assist NSC in improving seed marketing channels and procedures, to enhance the flow of foundation seeds to certified growers, and develop technical skills important to efficient seed marketing

C. Plant Protection

1. <u>One Entomology Training Specialist</u> will be stationed at Hyderabad to advise and assist the <u>Central Plant Protection</u> <u>Training Institute</u>, <u>Hyderabed</u>, <u>A.P.</u> in the organisation and conduct of training programs on pest and disease survey and warning methods. To do this he will be required to:

a doliver lactures and hold practical training and field demonstrations on the methods of survey in plant pests and diseases and factors involved in their outbreaks;

b teach and demonstrate appropriate techniques of forecasting the occurrence and emergence of plant pests and diseases and plant spidemiology; and

c work with plant past and disease control personnel on efficient and safe uses of past control materials and equipment for hand and machine application by ground or serial means, BEST AVAILABLE COPY

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2. One Posticides Specialist will be provided to work with the Posticides Association of India, a trade association of posticides manufacturers. He will be stationed in New Delhi but will work throughout the country. His principal task will be to assist the Posticides Association and affiliated manufacturers with posticides formulation, distribution, marksting, sales premotion and use

Pres 1 Le 2 m

D. Agricultural Machinery

<u>One Agriguitural Engineer</u> will be attached to the Ministry of Food and Agriculture, and stationed in New Delhi, to assist with (a) evaluation plenning, and developing farm equipment and machines suitable . use on large and small farms with special regard for mechanication of multiple and intensive cropping programs; and (b) developing farm mechanismy supply and distribution systems in the public and private sectors, with special reference to Center and State sponsored Agro-Industry Corporations and private menufacturer - operated farm machinery custom services/supply centers.

2. One Agricultural Engineer - Training Specialist will be attached to the Ministry of Agriculture to assist with (a) the ostablishment of ferm mechinery utilization training centers proposed to be astablished in the Center and the States in the Fourth Plan, (b) the reorganization of training programs and schedules in the two existing centers (Hieser and Budni), end (c) the preparation of teaching materials, including training aids. The location of this specialist is to be determined.

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3 <u>Five short-term Consultants</u> who are specialists in farm machinery production, contracting, supply, distribution and servicing will be provided for a period of up to two months to (a) assist with a Ministry-sponsored All-India Farm Machinery Suminar-Workshop and (b) purticipate on an Indo-American Farm Machinery Study Team which will review and evaluate current problems of the Indian Farm Machinery industry

E. Sumary

Personnel to be provided by USAID are summarized in Table 1.

Table 7 Technicians

Agtivity	Type of Technician	Location	Period of Assignment Months
Fertiliser	Fertilizer Promotion	FAI, New Delhi	12
	Consultants (4)	FAT, New Delhi	ł
Seed	Seed Production	NSC, Pantnagar	12
Improvement	Saed Production	NSC, Poons	12
	Seed Processing & Storage	NSC, New Delhi	12
	Soad Marksting	NSC, New Delhi	12
Plant	Intomology Training	CPPTI, Hyderabad	12
Protection	Pesticides Specialist	PAI, New Dolhi	12
Agr	Agricultural Engineer	MFA, New Delhi	12
Engineering	Agr Engineer, Training	To be determined	12
	Consultants (5)	MFA, New Delhi	2

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## IV. PARTICITANT TRAINING

A. Goneral.

Contingent upon the availability of funds, suitaria candidates, Ani mutual agreement, USAID still finance the costs of training, including international travel, for the types and mashers of participants for the periods indicated in Table 2. Kitds and numbers of perticipants and duration of training may be changed as agreed upon to meet abanges in requirements.

E.

B. Selection of Participanta

Selection of participants will be made by the Department of Agriculture, Ministry of Food and Agriculture in consultation with USAID representatives concerned.

V. OINER U.S. INPUSS

A. Revilling Proportion

In order to entries MPA with the promotion and expansion of formalizer use. USAID will:

Autor in Arranging the annual, FAL-aponacred, All India Fartilizer Semicar (See fortilizer consultance in Section TIE); 2. Assist in developing one fortilizer promotion audiovisual truck to be used by the FCL's Troppey fortilizer plant field staff; and

3. Assist other activities as may be mutually agreed upon to increase fertilizer distribution and spice.

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-		49			24	4	×	
	Munber	3.0	Participants Arenoise	1D.US	Duration	Man-Months of	-	Depar-
Subject & Field of Training	MFA F		IVE	Total	in Months	Col 2roul 3	Location	Data
Fertiliser 1. Agrunary & Economics of Fartiliser Usa	- 19		2 -	~	ND.	12	USA	5/70
Agr. Commissions Course	er (5)	50	m 1	ter pris	-4 - 4	8 9	USA TCA	04/1
Market Research Course Institutional Training Course	5 1		(3 r-	ery 60	1-10 -3		USA USA Trsh	04/19 04/19
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Seed Improvement			1					
Seed Technology Saed Processing		ф с		90	12	72 -	USA	2/70
Const		s 64		N 69	o so	2 2 2	USA USA	2/70
organisation when willing ut		с¢	-	:00	CN	16.	USA	5/70
Sub-Total.		t0		13	1	112		
Plant Protection	HFA/S	HPA/Diatane Etc.	the state of the second	Total				
(Fields of training to be [determined]	-	4		4	25	48	USA	5/70
Sub-Total		7		7		.0,		

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		orbune manning		4 7		
the second s	*	A	4 Non Martha	5	6	
Number of Participan end Agencies MFA/State/ Minustry	rts Total	Duration of Training in Months	of Training Col 2xCol 3	Training Location	Depar- ture Date	
a	8)		51	701 9	- 100	
	J s		A. A.	Philippines	5/70.	
		6		USA	4/70	
7	7	44.	28	USA	1/70	
	end Agencies	Number of Participants and Agencies MFA/State/Modeling Total	end Agencies of Training	end Agencies of Training Training MFA/State/Theostry Total in Months Col 2xCol 3	Number of Participants     Duration     of       and Agencies     of Training     Training     Training       WFA/Siste/Choustry     Total     in Months     Col 2xCol 3     Location       3     3     6     No.     USA	

Table 2. Participant Training (Contd) -

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#### B. Seed Distribution and Marketing

USAID will provide assistance as may be mutually agreed upon to the MFA to improve and increase the distribution, including storage/processing and the marketing of high quality seeds.

~ 9 7 ...

C. General

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In addition to the above, USAID may provide, as required and mutually agreed upon, assistance in arranging seminars/conferences/technical meetings, demonstrations to popularize agricultural inputs; surveys and market studies; tochnical consultants; special training programs; and other requirements as may be needed during the Work Plan period.

#### VI. GOVERNMENT OF INDIA INPUTS

Standard provisions; office space, furnishings, secretarial services and counterparts for requested specialists

Office of Agricultural Development USAID/New Delhi

Date: 26 May 1969

DN. Su

Ministry of Food, Agriculture, Community Development and Cooperation, New Delhi

69 Date: 27-5-

## PROJECT AGREEMENT ANNEX II

## ADMINISTRATIVE PROVISIONS

- (A) The contract survices shall be produced by the A.I.D. or otherwise as may be agreed upon between the Deputy Director and the Representative.
- (B) Adjustments in the quantities and types of equipment, supplies and services may be made within the limits of available funds whenever the Representative and the Deputy Director agree that project plans, procurement, price or other changes in the circumstances warrant such adjustment.
- (C) The Representatives and the Deputy Director may make such provisions for and changes in this Agreement at they shall agree to be necessary for carrying out the project.
- (D) Any right, privilege, power or duty conferred by this Agreement upon either the Deputy Director or the Representative may be exercised by either of them, or by any other representative duly authorized by the Representative and/or the Director of the U.S. A.I.D. Mission to India Such delegation shall not limit the right of the Representative and the Deputy Director to refer any matter directly to each other for discussion and decision.
- (E) It is agreed that the dollar funds made available by the U.S. under this Agreement shall be withheld in the United States of America for payments to be made outside of India for procurement of equipment, supplies and services.
- (F) A.I.D. will furnish specialists, subject to availability of personnel, and training opportunities abroad as are agreed by the Representative and the Deputy Director to be necessary and for which funds are available.
- (G) Except as specifically authorized by A.I.D./W, or when local hire is authorized under the terms of a contract with a U.S. supplier, services authorized under this Project Agreement must be obtained from U.S. sources.
- (H) Except as specifically authorized by A.I.D./W, the purchase of commodities authorized under this Project Agreement will be limited to U.S. sources.
- 1) The cost of ocean transportation (Code 950) on U.S. flag vessels, and the costs of other services (Code 940) furnished in connection with the shipment of the commodities authorized herein, although not paid by the suppliers of the commodities, are also eligible for reimbursement

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The cost of ocean transportation on <u>other than</u> U.S. flag vessels (but not recipient country flag vessels) may be paid hereunder provided (i) U.S. flag vessels are ordinarily available for comparable movements (ii) the shipment was originally intended to be made on U.S. flag vessels, and (iii) the Resources Transportation Division, A.I.D., Washington 25, D.C. determines that no U.S. flag vessels are available for the shipment and said office grants specific written authorization for the payment of such costs. Any payment so authorized will constitu an advance of funds to the cooperating country to be refunded to A.I.D.

<u>Additional Documentation Required for Reimbursement</u>: A letter or photostatic copy thereof, signed by the Resources Transportation Division, A.I.D., authorizing payment of ocean transportation costs on other than U.S. flag vessels.

Invoices covering C&F or CIF shipments on other than U.S. flag vessels must show the ocean transportation costs and commodity costs separately when presented to banks and A.I.D. for payment of reimbursement.

J) Suppliers are required to certify that the commodities shipped hereunder are, with respect to both source and origin, from countries or areas included in the A.I.D. geographic code in this authorization. The definition of the term "source" is found in Section 201.1(M) of A.I.D. Regulation I. The term "origin" means the country or area in which a commodity is mined, grown or produced. A commodity is produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new commodity in purpose or utility from its components.

(K) Commodities financed by A.I.D., whether by loan or grant, under this Agreement are to further the objectives of the project and shall be used as mutually agreed by the GOI Project Leader and the chief A.I.D. technician assigned under this project, whether or not the title to such commodities is vested in the GOI pursuant to paragraph G of Project Agreement Annex III, Standard Provisions. When A.I.D. technicians are withdrawn from the project, the commodities shall continue to be used for project purposes under the control of GOI technicians assigned under the project, unless other use of them is specifically authorized

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#### PROJECT AGREEMENT ANNEX III

#### STANDARD PROVISIONS

- A. As used herein, the term "AID" refers to the Agency for International Development, any component agency, or any successor agency. References to "this Project Agreement" shall mean the original Project Agreement as modified by any revisions which have entered into effect.
- Β. (1) AID will make available the amounts, specified in Block 8 of this Project Agreement, as necessary for the project, for use for the designated purposes and as may be further described in Annex A, as required by Block 5 hereof. In addition, as may be further specified in Annex A, AID will, subject to the availability of funds and (where required by AID procedures) as provided for in Project Implementation Orders (PIOs) issued by AID in accordance with its procedures, make available funds (a) to pay costs of furnishing technical services to be performed by United States Government employees in connection with the project. (b) to pay a share of the costs of providing training outside the cooperating country in connection with the project for qualified persons from the cooperating country, and (c) to pay such additional costs as may be specified.
  - (2) The Cooperating Government Agency will make available, the amounts specified in Block 9 of this Project Agreement, as necessary for the project, for use for the designated purposes and as may further be described in Annex A. The Cooperating Government Agency will also make, or arrange to have made, additional contributions of property, services, facilities and funds required for carrying out the project as may be specified in Annex A, or as may subsequently be agreed upcoby the two parties.
- C. AID and the Cooperating Agency may obtain the assistance of other public and private agencies in carrying out their respective obligations under this Project Agreement. The two parties may agree to accept contributions of property, services, facilities and funds for purposes of this Project Agreement from other public and private agencies, and may agree upon the participation of any such third party in carrying out activities under this Project Agreement.
- D. AID shall not be required to make any contribution after the expiration of six months following the estimated final contribution date (Block 13 of the Project Agreement form AID 1330-1) or any amended final contribution date specified herein. Except as otherwise specified herein or subsequently agreed by the parties, all contributions of the Cooperating Agency pursuant to this Project Agreement shall be made on or before said estimated termination date, or amended date. A contribution of goods or services shall be considered to have been

made when the goods or services, provided or financed by the contributing party, are delivered in accordance with commercial practice.

- E. The procurement of commodities and contract services to be financed directly by AID or with GOI funds obtained through AID loans may be undertaken only pursuant to PIOs or Purchasing Orders issued by AID in accordance with its procedures.
- F. Unless otherwise specified in the applicable PIO, the procurement of commodities financed with the AID contribution referred to in Block 8 of this Project Agreement shall be subject to the provisions of AID Regulation 1.
- G. Unless otherwise specified in the applicable PIO, title to all property procured through financing by AID pursuant to Block 8(c) of this Project Agreement shall be in the Cooperating Agency, or such public or private agency as it may authorize. This provision is inapplicable to any property which may be used in connection with the project but is not financed pursuant to said Block 8(c).
- H. Any property furnished to either party through financing by the other party pursuant to this Project Agreement shall, unless otherwise agreed by the party which financed the procurement, be devoted to the project until completion of the project, and thereafter shall be used so as to further the objectives sought in carrying out the project. Either party shall offer to return to the other, or to reimburse the other for, any property which it obtains through financing by the other party pursuant to this Project Agreement which is not used in accordance with the preceding sentence.
- Ι.
- (1) If AID and any public or private organization furnishing commodities through AID financing for operations hereunder in the cooperating country, is, under the laws, regulations or administrative procedures of the cooperating country, liable for customs duties and import taxes on commodities imported into the cooperating country for purposes of carrying out this Project Agreement, the Cooperating Agency will pay such duties and taxes unless exemption is otherwise provided by any applicable international agreement.
  - (2) If any personnel (other than citizens and residents of the cooperating country), whether United States Government employees, or employees of public or private organizations under contract with, or individuals under contract with, AID, the Cooperating Agency or any agency authorized by the Cooperating Agency, who are present in the cooperating country to provide services which AID has agreed to furnish or finance under the Project Agreement, are, under the laws, regulations or administrative procedures of the cooperating

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country, liable for income and social security taxes with respect to income upon which they are obligated to pay income or social security taxes to the Government of the United States of America, for property taxes on personal property intended for their own use, or for the payment of any tariff or duty upon personal or household goods brought into the cooperating country for the personal use of themselves and members of their families (not including such personal or household goods as may be sold by any such personnel in the cooperating country), the Cooperating Agency will pay such taxes, tariff, or duty unless exemption is otherwise provided by any applicable international agreement.

- J. Any personnel (other than citizens and residents of the cooperating country), whether United States Government employees, or employees of public or private organizations under contract with, or individuals under contract with, AID, the Cooperating Agency or any agency authorized by the Cooperating Agency, who are present in the cooperating country to provide services which AID has agreed to furnish or finance under this Project Agreement shall be subject to the approval of the Cooperating Agency and AID, and shall be under the general direction of the Director of the Mission to the cooperating country.
- K. If any commodity is furnished to the Cooperating Agency, or any public or private agency authorized by the Cooperating Agency, on a grant basis through financing by AID pursuant to this Project Agreement under arrangements which will result in the accrual of proceeds to the Cooperating Agency or any authorized agency and if the applicable agreement between the two governments referred to on the first page of this Project Agreement does not provide for the establishment of a Special Account and the deposit therein of currency of the cooperating country, the Cooperating Agency will make such arrangements as may be necessary to establish a Special Account and to deposit therein currency of the cooperating country in amounts equal to such proceeds, in accordance with such terms and conditions as may be agreed upon. Funds in the Special Account may be used only as agreed upon by AID and the Cooperating Agency; provided, that such portion of the funds in the Special Account as may be designated by AID shall be made available to AID to meet the requirements of the United States.
- L. The Cooperating Agency will make such arrangements as may be necessary so that funds introduced into the cooperating country by AID or any public or private agency for purposes of carrying out obligations of AID hereunder shall be convertible into currency of the cooperating country at the highest rate which, at the time the conversion is made, is not unlawful in the cooperating country.

- M. AID shall expend funds and carry on operations pursuant to this Project Agreement only in accordance with the applicable laws and regulations of the United States Government.
- N. The two parties shall have the right at any time to observe operations carried out under this Project Agreement. Either party during the term of the Project and three years after the completion of the project shall further have the right (1) to examine any property procured through financing by that party under this Project Agreement, wherever such property is located, and (2) to inspect and audit any records and accounts with respect to funds provided by or any properties and contract services procured through financing by, that party under this Project Agreement, wherever such records may be located and maintained. Each party, in arranging for any disposition of any property procured through financing by the other party under this Project Agreement, shall assure that the rights of examinaticn, inspection and audit described in the preceding sentence are reserved to the party which did the financing.
- 0. Upon completion of the project, a Completion Report shall be drawn up, signed by appropriate representatives of AID and the Cooperating Agency, and submitted to AID and the Cooperating Agency. The Completion Report shall include a summary of the actual contributions by both AID and the Cooperating Agency to the project, and shall provide a record of the activities carried out, the objectives achieved, and related basic data. AID and the Cooperating Agency shall each furnish the other with such information as may be needed to determine the nature and scope of operations under this Agreement and to evaluate the effectiveness of such operations.
- P. The present Agreement shall enter into force when signed. Either party may terminate this Project Agreement by giving the other party 30 days written notice of intention to terminate it. Termination of this Project Agreement shall terminate any obligations of the two parties to make contributions pursuant to Blocks 8 and 9 of this Project Agreement, except for payments which they are committed to make pursuant to non-cancellable commitments entered into with third parties prior to the termination of the Project Agreement. It is expressly understood that the obligations under paragraph H relating to the use of property shall remain in force after such termination.

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	AN AGENCY OF THE	and the second s				
	The above-named parties here carry out a project in accordance w herein and the terms set forth in	386-11-190-	1. FROJEST/ASTIVITY NO. 386-11-190-367			
	neiero, as chischeo peipes	IGN CURRENCY DARD PROVISIONS ANNEX	2. AGREENENT NO. 1 No. 2 to Sup 4. PROJECT/ACTIVITY	plement No		
- Calmerter of Land		AL LOAN SIONS ANNEX	Agricultural Inputs Development 6. GEOJECY DESCRIPTION AND EXPLANATION			
and the second second	63 modified and supplomented:	Dec. 28,1950				
-	ECONOMIC COOPERATION	(350 Enzez & attached) 6. AID APPROPRIATION SYMBOL 7. AID ALLOTHENT SYMBOL				
and the second second	and the state of the second	DATE Jan. 5, 1952 June 29, 1957	Dollars 72-11 Rupees 72 FT	01004 0	47-50-386-00-69-01	
	C. AID FINANCING	in Year, ending	MCREASE (B)	DECRMASE (C)	E TOTAL TO BATE (D)	
and and	(s) Total Dollars	317,410	163,100	0	480,510	
	(b) Contract Services/PASA	60,160	19,940	0	80,100	
	(c) Commecities	0	5,000	0	5,000	
	(d) Other Costs/Participar	nts 257,250	138,160	0	395,410	
R	o. Coopenating Active upos financing . MEEESX EQUIVALENT SLOOSE Rs 7.60					
much	(a) Total Trust Fund Rs	910,300 (Eq.\$119,776)	413,800 (Eq.\$54,447)	0	1,324,100 (Eq.\$174,223)	
	(b) Services	(Eq. 300, 300 (Eq. 39, 513)	(Eq. \$3.800 (Eq. \$5.763)	0	(Eq. \$45,276)	
1	(c) Commedities	0	0	0	0	
	(4) Other Costs / Participan			0	980,000 (Eq.\$128,947)	
	A/Contract \$66,80 PASA \$13,30 For description of					
-	11. DATE OF CRIGINAL AGREEMENT August 29, 1969	12. DATE OF THIS REVIE December 16	6 ,1969	March	MAL CONTRIDUTION DATE	
S. Car	Sd/- S. Senthi	15 10	9 elenature John	sd/-	L DATE: 16 DBC. 19	

ALD 1820-1A (8-85)	PROJECT AGREEMENT	1. Project /Activity flo. 386-11-190-367	PAGE 1 OF 3 PAGES
PRO AG	THE MINISTRY OF FINANCE		3. Original or Revision No. 2 for year
SHEET	AN AGENCY OF THE COVERNMENT OF INDIA	3. Project/Activity Title Agricultural Diputs	ending June 30,1970 Development

This Agreement is executed pursuant to the Technical Cooperation Agreement entered into between the Governments of India and the United States of America on January 5, 1952, and is signed by the designated representatives of the two governments - S. Santhi, Deputy Secretary, Ministry of Finance of the Government of India (hereinafter referred to as the "Representative") and John H. Funari, Deputy Director of the U.S. A.I.D. Mission to India of the Agency for International Development of the Government of the United States of America (hereinafter referred to as the "Deputy Director").

#### Description of Project

In furtherance of the objectives and purposes of Project Agreement No. 143, the US AID will provide further assistance as follows:

- Development grant funds in an amount of \$5,000 for import of ammonia applicators and associated parts, for demonstration purposes pursuant to the activities described in Annex B to Supplement No. 3, signed on 26 May 1969; and
- 2. U.S. technical assistance to, and participant training for, Indian professionals and technicians from the fertilizer industry and the related Ministry as described in the FY 70 Operational Work Plan signed by the USAID and the Ministry of Petroleum, Chemicals, Mines and Metals (attached hereto as Annex B as a guide to the implementation of the project). Specifically this assistance will include:
  - (a) The services of two short-term consultants for up to four months each in the fields of management and ammonia production. The management specialist will be assigned to the FCI to advise on matters relating to management planning. The ammonia production specialist's activities will be coordinated by the Chief Project Officer, Department of Chemicals, Ministry of Petroleum, Chemicals, Mines and Metals and will be assigned to Fertilizer production units in the country to advise on efficient production of ammonia. Estimated cost \$18,800 and Rs 58,400.

For the Cooperating Government or Agency	For the Agency for International Development
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SGNATURE DATEL	SIGNATURE: DATE:
TITLE	TITLE

AIL- 1880-1A (8-63)	PROJECT AGREEMENT	1. Project/Activity No. 386-11-190-367 PAGES
PROAG	THE MINISTRY OF FINANCE	2. Agreement No. 143, Amendment 3. Original or No. 2 to Supplement No.3 Revision No. 2 for yes and ing June 30, 170
SHEET	AN AGENCY OF THE COVERNMENT OF	a request searchy ring
ANNEX A	INDIA	Agricultural Inputs Development

(b) U.S. training for up to 43 participants for a total of approximately 153 man-months in the various fields of fertilizer engineering and management including blending, in-plant training and high level observation and management study teams. It is estimated that 37 of these 43 participants will be from the public sector and approximately six from the private sector. It is understood that international travel cost (approximately Rs 60,000) of proposed participants from the private sector will be met by the sponsoring institutions. Estimated USAID and GOI cost: \$139,300 plus Rs 370,000 for international travel.

Toward the cost of the above mentioned commodities, consultants and participants, and subsequent readjustment of funds provided in Supplement No. 3 and its Amendment No. 1 for the activities listed therein, the USAID and the GOI hereby provide additional \$163,100 of Development Grant funds and Rs 413,800 of the GOI Trust Fund administered by the USAID.

The dollar and rupes funds provided under Supplement No. 3 to Project Agreement No. 143, through this Amendment No. 2, are distributed among the subprojects and components as follows:

U.S. DOLLARS

Sub-Project #	Total Cost	U.S.Per Contract		Direct Conmodities	Direct Participants	
367.1 Fertilizer AG	100,560	-	9,000	5,000	86,560	
lifg.	158,100	18,800	•	-	139,300	
367.2 Seeds	78,300		-	-	78,800	
367.3 Plant Protection		*	4,300	-	26,400	
367.4 Farm Implements	85,350	21,000	-	••	64,350	
367.5 Oilseeds	27,000	27,000	-			
Total:	4.80,510	66,800	13,300	5,000	395,410	
Less: Funds provided in Supplement No. 3 and Amendment No. 1	1					
thereto:	317,410	51,560	8,600		257,250	
Additional Funds			1			
provided herein:	163,100	15,240	4,700	5,000	138,160	
	HERE AND AND A			10000	Conductive sectors	

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	.a. 1997 (2.1. 1	Total.				
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	Sub-Trojoet #	Re	Res	Rs	Ra	s Other Costs
	367.1 Pertiliser 16				an a	Marine and a second sec
		<b>253,6</b> 00 • <b>428,4</b> 00	59 100	29,,000	210,000	14,600
	101. K . DEFUS	180,000		-	370,000	<b>1</b> 20
	367.3 Plant Protectio	$r_{1}$ 61,300	~~	21 300	180,000 40,000	8748
	307.4 Farm Emplement	g 273,200	93,300	an (1970)	180,000	<b>P</b> :#
	JO7.5 UILSGeds	127,500	127.500	**	<b>1</b> 1 <b>3</b>	54 54
			279,200	50,300	980,000	14,,600
	Less: Funds provided				-	.,
	in Supplement No.3					
	and Amendment No.1					
	theroto;	910,300	249,900	50,400	610,000	<b>7</b> 7
	Additional Funds	የህር ዓ አንግባ ያለተዋለ ይቻ ፋላቁ	PORTAL CALCULATE	r stante orang	But der the property of	read (b) - 11 - 21 - 15 for the shade
	provided herein:	413,300	29,300	(100)	00000000	
1	_			(100)	370,000	14,600
	It further is agreed (a) readjusted for the pu- without a formal anomaler necessary because of subs- changes in plans concernal and/or surveys, subject to may not be exceeded; and extension of consultant a	a posas of tof this equent ro- ng numbers o the prov (b) need to	agreement agreement estimatic and dury iso that	et among t, if such m or per tions of the total	the component h readjustme lsion of cos consultants l funds prov	nts thereof. At is found ts and/or , participants ided berein
	FY 1969. The Ministry of Petro responsible for the generation to this amendment No. 2. All provisions and con	leun, C 1 supervi: difions of	avor part homicals, sion of t	deipants bines he projec	training a and Hetals t described	will be In Annex B
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#### OPERATIONAL WORK PLAN

(July 1, 1969 through June 30, 1970)

Project No. & Title

386-11-190-367.1 - Agricultural Inputs Dev. -Fertiliser

Activity Field

Fertilizer Specialists Services and Participant Training in Fertilizer Management and Technology

#### Preface

This Operational Work Plan (OWP) provides a description of the activities contemplated under this project. It is intended to be a guide to the implementation of the project and reflects joint preparation and the intent of signatories. The Plan does not commit either government until required administrative and financial clearances have been given by the appropriate authorities. Formal commitment by each government to the specific actions required will be made by the execution of a Project Agreement.

#### 1. Background

This activity forms a part of the USAID program to assist in efficient and increased production of chemical fertilizers in the country to complement the efforts of the Government of India for higher food production. About 160 participants have visited the USA so far for observations and training in the fields of Fertilizer Management and Engineering production under the Indo-U.S. Technical Cooperation Program, and are contributing to the development of the fertilizer industry in India. It is falt that the continuance of this program can greatly help in raising the fertilizer production and thus assist in the country's efforts to attain self-sufficiency in food output.

## II. Goals and Preconditions

### A. <u>Goals</u>

Improved efficiency and increased production and availability of fertilizers for higher agricultural output.

## B. Praconditions

The Ministry of Petro-Chemicals, Mines and Metals agrees that, on return from abroad, the officials sponsored for training will be posted to jobs where newly acquired skills and knowledge will be fully utilised.

To ensure optimum utilization of the proposed USIID specialists, their scope of work will be lefined, and counter-parts selected, prior to the arrival of the specialists.

III Inputs

A U.S.

## 1. Specialists Services

During PI 1970, two Pertilizer Specialists - one in management. and the other in accords production - will be required to assist the fertilizer inductry is echleving better production. The management specialist will be assigned to the FOT, an important multi-unit multi-space corporation, and advise its Chairman and Managing Director on matters relating to management planning, development, information and control systems, atc. The specialist should be a person with experience of such problems in similar organisations in the U.C.A. The period of his assignment will be four months, and he should preferably be drawn from some management consultants firm in the U.C.A.

As regards the ammonia production specialist, he will be assigned to fertilizer production units in the country to advise on problems related to his field thus helping to schieve more efficient production. The duration of his stay will be four months, and his activities will be coordinated by the Chief Project Officer, Department of Chemicals, Ministry of Petro-Chemicals, Mines and Metals, Government of India.

## Technical advisory Services

Managerine, Barlagerine al., A resident contained at responsible for the	· · · · · · · · · · · · · · · · · · ·			
Type of Technicians	Number	Estimated duration of assignment (Months)	Work Location and GOI agency	Position of Counter- part(s)
ammonia Produc- tion Specialist	7	4	an a sharan a sharan An sh	a Ula - Anna Ald Andre Carrier (1999) (1999) (1999) Ann
Management Specialist (Multi unit Corp.)	1	4		~

2 Participanta

During FY 1970, participant training teams are proposed with the following conditions:

 (i) USATD will make arrongements for U.S. training and bear the dollar costs of such training, as well as international travel costs of government sector employees;

# (11) The Ministry of Febro-Ohemicals. Mines and Metals agrees that:

- (a) International travel costs to and from the U.S.A.
   for condidates from the private sector enterprises
   will be borne by the sponsoring organizations themselves;
- (b) "Local Costs including salaries for the duration of training and within-India travel will be borne by respective public and private sector sponsoring authorities;
- (c) It will be the coordinating Ministry and will send

Operational Work Plan

all the nominations, including those from the Ministry of Iron and Steel, to the Department of Economic Affairs.

The composition of the proposed teams is as follows:

(A) High Level Fertilizer Industry Management Team

The Teem will consist of senior management personnel of the ranks of General Manager, Deputy General Manager, and persons who are likely to be promoted to these positions in the near future, drawn from various fertilizer projects in the public and private sectors. The objective is to improve the managerial competence and effectiveness in the Indian fertilizer industry. The participants will have an opportunity to discuss the problems and latest developments in production and management with persons having the same responsibility in the host organizations.

The team will consist of eight participants and the period of training will be up to six weeks.

(B) High Level Fertilizer Engineers Team

The Team will consist of Chief and Senior Engineers drawn from the various fertilizer plants in the p blic and private sectors The participants will study the latest developments in technology and economics of fertilizer production. The emphasis will be on process technology, equipment, performance, maintenance and productivity.

The team will have eight members and the duration of training will be up to six weeks.

(C) Fertilizer Industry In-Plant Training Team

The objective under this program is to impart intensive in-plant training to the middle-level Indian Fertilizer Engineers in modern fertilizer plants. Training is proposed in different areas of fertilizer production, viz., naphthe reforming, ammonia synthesis, urea production, DAP production, maintenance and construction of fertilizer plants; production, planning and control in fertilizer industry, etc. The finalization of this program will depend, however, upon the facilities available for placing the participants as internees in the U.S. fertilizer plants.

The team will consist of 18 participants, and the duration of their internable will be up to 28 weeks each

(10) Fertilizer Bulk Bladdne Teem

Suitchly qualifies people from the fertilizer industry in Indie will visit important Bulk Blending plants in the USA and will study modern and scientific methods of Bulk Blending for the production of tailor-made NPF mixtures for meeting the specific sequirements of fermars.

The beam will consist of five persons and the duration of training will be up to five ceeks

(E) FACT Phosphorus Toam

It is proposed to send four ergineers from FACT to revelve training in the production of elemental phosphorus from rock phosphate by the electro-chernal mothod, and conversion of this phosphorus to phosphoric sold. After their return these engineers will help set up a similar facility for FACT, which has already been issued an industrial lifence for such a project.

The team will be comprised of four engineers, and the duration of training will be nine weeks.

This team will also visit the elemental phosphorus plant of

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Udhe in West Germany for about three weeks. The required funds will be provided by the Government of India.

A summerization of these training programs and the allocation of participants for various organizations follows:

(1) TRAINING

Field of Training	Number	Estimated duration of training (usels)	* Agoncy and	Estimated Departure Date
	2	3 	Прилонити и дани на року и на протити на пред и сели и И Прилонити и дани и прилока и прилока и пред пред Прилонити и прилонити и пред пред пред пред пред пред пред пред	nter ers er en en er en un um er en en en en er en Er en er e
. High Level Menega-				
menic Team	8	6 1		
. High Level Engineers	;			
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Training Team	18	28	•	
. Bulk Blanding Teme	3	ÿ	· ·	
. FACT Phosphorus Teer	<u> </u>	9		

Sae (2) below

# (2) ALLOCATION TO VARIOUS ORGANIZATIONS

Orgenitzation			Toat	n		Totel.
	ಕ	В	C	D	Е	
Mon/PGMB	t	-		**		٦
FOT	3	2	9	1		15
$F_{K}CY$	1	1	4	1	4	11
Rourkela	~	1	1	~	-	2
Neyvall	-	1	1	<b>1</b> 44	-	2
MPL	r	1	1		<b>*</b> *	3
IFFCO	1	1	-	٢	ana	3
Fal (other than public sector)	1	1	2	2	180 T	6
	8	8	18	5	4	43

B. <u>GOI</u> will provide the following:

- Office space, furnishings and equipment required
   by the Spacialists to perform their assignments;
- 2. Counterparts for each Specialist.

and C. Movely Devid C. Woody

Chief, Menufacturing Brench DSAID. New Delhi

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Act. Vasudevan Under Secretary Ministry of Fetro-Chawleals, Mines and Metals, GOI

ACLINCY OF ACTION OF THE CY OF THE C 2016's Long in accordance with a set forth in elow. Of Forest Special Spe	THENT OF STATE, I THE GOVERNMENT THE GOVERNMENT GOVERNMENT OF_ By mutuelly agree to the force set forth Fay summer standed Structure stand	T OF THE UNITED Y OF FINANC UNDIA L. PROJET/ACTIVITY 386-11-190 2. AGREEWERT NO. N.G. 3 to SUJ 3. U.GJETT/ACTIVITY	- 367 - 367 143, Amend. 201 No 3	SAGE E DEL PASE SAGE E DEL PASE S. EJ OLIVORAL OR REVINIGE HO. 3 (F
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AID 1350-TA (8-ea)	PROJECT AGREEMENT BETWEEN AND AND	1. Project/Activity No. 386-11-190-367	PAGE DE PAGES		
PROAG	THE MINISTRY OF FINANCE	2. Agreement No. 143, Amend. No. 3 to Suppl. No. 3	2. Original er Revision No. 3. (FY 70)		
SHEET ANNEX A	AN AGENCY OF THE GOVERNMENT OF	3. Project/Activity Title Agricultural Inputs Development			

This Supplementary Project A greement is executed pursuant to the Technical Cooperation Agreement entered into between the Governments of India and the United States of America on January 5. 1952 and is signed by the designated representatives of the two governments - S. Senthi, Deputy Secretary, Ministry of Finance of the Government of India (hereInafter referred to as the "Representative") and Clarence Gulick, Director( $A_{\rm O}$ ting) of the U.S. A.I.D. Mission to India of the Agency for International Development of the Government of the United States of America (hereinafter referred to as the "Director").

## Description of Project

In furtherance of the purposes and objectives of Project Agreement No. 143, as supplemented and amended, it is agreed hereby to continue through March 31, 1971 U.S. as sistance to improving the marketing and processing of high quality seeds of improved varieties and hybrids. Details of the activities covered by the seeds project are included in the Operational Work Plan for FY 71 attached hereto as Annex B as a guide to the implementation of the project.

During the period April 1, 1970 through March 31, 1971, the U.S. technical services for the seeds project are estimated to total 52 manmonths, comprising four long-term technicians and some short-term consultants to be provided under A.I.D. contract with the University of M ississippi.

Funds required for extension of the University of Mississippi contract through March 31, 1971, in addition to those carried over from prior years are estimated at \$83,500 of Development Grant funds and Rs 337,600 from GOI Trust Fund.

Mainly because of a shortfall in participant nominations for the current year, funds in the amount of \$27.731 and Rs 123,980 have remained unutilized from those provided by Supplement No. 3 and its Amendments No. 1 and 2. Therefore, to complete the funding for the University of Mississippi contract, A. I. D. hereby provides \$55,769 of Development Grant funds and Rs 213,620 from the GOI T rust Fund administered by A. I. D.

10 1330- A (8-33)	PROJECT AGREEMENT BETWEEN AND AND THE MINISTRY OF FINANCE AN AGENCY OF THE GOVERNMENT OF INDIA		1. Project/ 380 - U	1. Project/Activity fis. 380 - 11-190-357		PAGE 2 OF 3 PAGES		
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SHEET				to Suppl. Activity Title	No 3	Revision No. 3 FY		
инех			1	Agricultural inputa Development				
	Following tabulation gives the distribution of funds made available through Supplement No. 3, as amended hereby, for each sub-project:							
	U.S. Dollars							
			Tech. /	Tech. /Consite				
	Sub-Eroject	Total	Contract	<b>PASA</b>	Commodit	ies Participa		
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	No	Cost	U.S. Pur	and a second	<b>T N N N</b>	Other		
	an a		Contract	PASA	Participant	B Costs		
	367, 1	Rs 676, 300	29,200	29,100	(19 000			
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ANNEX	INDIA	Agricultural Input s De	velappoint
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Authorization and fundicy for tenhnical services and participants training proposed in the Operational Work Plea for FY 1971, attached hereis as Annex B. will be made available in FY 71, subject to the availability of funds

All provisions and conditions of Supplement N  $\alpha_{0}$  3 to Project Agreement No. 143 except those modified herein will apply to this amendment also.

#### ANNEX "B"

#### OFERATIONAL WORK FLAN

FROJECT TITLE	:	Agricultural Inputs Development
PROJECT NUMBER	:	386-11-190-367
PERIOD	:	July 1, 1970 to June 30, 1971

#### INTRODUCTION

This Operational Work Flan provides a description of the activities contemplated under this Project It is intended to be a guide to the implementation of the project and reflects joint preparation and the intent of signatories to this agreement. This Flan does not commit either Government until required administrative and financial - parances have been given by the appropriate authorities - Formal commitment by each Government to the specific actions required will be made by the execution of a Project Agreement

# I. BACKGHOUND OF CURRENT ACTIVITY AND GOALS

This activity forms a part of the USAID agriculture activity to complement the afforts of the Government of India in the Ministry of Food and Agriculture to rapidly increase the availability and efficient utilization of essential agricultural inputs for increased agricultural production. Specifically, this project provides direct support in the area of fertilizers, seed, plant protection and agricultural machinery.

# 11. SPECIALIST SERVICES

## A. Fertilizers

This Operational Work Flan will cover the following U.S. specialists to be assigned on Government of India request:

1 <u>One Fertilizer Promotion Specialist</u> will be provided to work with the Fertilizer Association of India through June, 1971. He will be stationed in New Delhi but will work throughout the contry with the F.A.I. He will assist in developing statistical services, soles promotion, training and distribution and in identifying new problems and seeking their solution

# B. Seed Improvement

Four Seed Froduction Specialists will be requested by Government of India - one each in Seed Froduction and Seed Marketing and two in Seed Frocessing/Storage through June 1971 Out of these four, three would be working with National Seeds Corporation and one would be required for processing and storage or marketing with Tarsi Development Corporation

Four short term consultants may be provided as requested and required by the GOI to assist with specialised programs or projects.

# C. Agricultural Machinery

One Agricultural Engineer will be attached to the Ministry through June 1971, and stationed in New Delhi, to assist with (a) evaluating, planning, and developing farm equipment and machines suitable for use on large and small farms with special regard for mechanization of multiple and intensive cropping programs; (b) developing farm machinery supply and distribution systems in the public and private sectors, with special reference to Center and State sponsored Agro-Industries Corporations and private manufacturer-operated farm machinery custom services/supply centers; and (c) organizing the Seminars and Training Workshops for staff of Agro-Industries Corporations and Organizations engaged in the manufacture, distribution of agricultural machinery and implements.

Four short-term consultants at the cost of USAID to be provided for 2-4 man-months each, who are specialists in different fields, for design specifications and mode of use of agricultural machinery for extensive land development; agricultural machinery custom highing and servicing operations; parts supply; management and organization, etc

D. <u>Ilait Protection</u>

<u>One Entomology Trainter</u> Specialist and <u>one Jesticides</u> <u>Specialist</u> are to be assigned on request through June 1971, Training Specialist will work at Central Plant Frotection Training Institute, Hyderabad, Andhra Fradesh and help in the organization and conduct of training programs on pest and disease survey and warning methods. He will have to deliver lectures; hold practical training and field demonstrations on the methods of survey in plant pests and diseases and other factors involved in their outbreaks; teach and demonstrate appropriate techniques of forecasting; emergence of plant pests, etc. and will work with plant pest and disease control personnel. Festicides Specialist will work with Festicides Association of India through June 1971, and although staying in New Delhi, will work throughout the country and help in pesticides formulation, distribution, merketing, sales promotion and use

#### 111. LARTICHANT TRAINING

#### <u>6 neral</u>

Contingent upon the availability of Eunds, suitable candidates, and mutual agreement, USAID will finance the costs of training for the types and numbers of participants for the periods indicated in Table 2. Einds and numbers of participants and duration of training may be changed as agreed upon to meet changes it requirements. A periodic review will be made to review current status and projections

#### delection of participants

Defection of participants will be made by the Department of Agriculture, Ministry of Food & Agriculture in consultation with ULAID representatives concerned — Estimated departure dates are indicated in the Table of participants. IV. OTHER U.S. INPUTS

#### 1. Fertilizer fromotion

In order to assist the Ministry of Food & Agriculture with the promotion and expansion of fertilizer use, USAID will assist in activities as may be mutually agreed upon to increase fertilizer distribution and sales

2. Seed Improvement

In order to assist the National Seeds Corporation with the improvement of seed production, processing and marketing, the USAID will (a) provide rupee project funds to in-service training programs, seminars, symposia and supporting demonstrations and (b) assist in preparing audio-visual materials; art work and printing

## 3. Farm Machinery

In order to assist the Ministry in the area of agricultural engineering, the USAID will (i) assist in in-service training through workshops, seminers and supporting demonstrations; (ii) assist in establishing a farm equipment data reporting service; and (iii) assist in preparing tractor training manuals and related visual aids. 4. Flant Protection

In order to assist the plant protection specialists in training and promotional activities, the USAID will (i) provide rupee project funds for production and marketing seminars for training of industry personnel (ii) assist with a pesticide marketing survey and (iii) assist in developing an Information Reference Service, News bulletin and Handbook for the pesticides industry.

7. 50 Q.

Ministry of Food, Agriculture, Community Development & Cooperation, New Delhi

said O llam

Office of Agricultural Development, U.S. Agency for Internationel Development, New Delhi

Date: 1211 May 1970

Date: 12 Men 19

# <u>Table 1</u>

TECHNICIANS

Activity	Type of Technician & No.	Location	FY 1971 No./Men-Months
Fertilizar	Fertilizer Fromotion Spec.	1 FAI, New Delhi	1/12
Seed Improvement	Seed Production Spec Seed Marketing Spec Seed Processing/Storage Spec Seed Processing/Storage Spec Consultants	1 NSC 1 NSC 1 NSC 1 TDC 4 NSC/MFA	1/12 1/12 1/12 1/12
Agricultural Machinery	Agricultural Engineer Consultants	i MFA 4 MFA	1/12 4/8-16
Plant Protection	Entomology Training Spec. Festicides Specialist	1 CHPTI, Hyderabe 1 FAI, New Delhi	d 1/12 1/12

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Project & Field of Training		Agenc		pants &	-	Duration of Training in		Training Location	Estimated Departure
	MFA	FCI	FAI	IFFCO	Total	Months	(Col. 2x.3)		· · · · ·
A. <u>FERTILIZERS</u>									
1.Agronomy & Economics of	-	_							
Fertilizer Use	3	1	1	1	6			USA	
2.Integrated Marketing Course 3.Fublicity, Advertising &	1	1	2	~	4			USA	
Extension	1	1	1	1	4			USA	
4.Market Research Course 5.Methods & Technique of Training in Fert, Market-		1	2	-	4 3			USA	1/71
ing & Sales Fromotion	1	1	1	1	4			USA	1/174
6. Cuality Control	2			,	2	5. 75. ]		UDA	4/71
7. Study Team for Eco. &	~	-			~				
Logistics of Fert, Distri.	1	1	1	-	3				
8, Soil & Plant Tissue Testing	1	-	-	-	1				
9.Cooperative Marketing	1	•	-	1	2				
0.Use of non-pressure						.e			
liquid fertilizers	1	-		-	1				
	12	6	8	4	30				
B. SEED IMPROVEMENT	MFA	NSC	ST	ATES	Total				
1.Seed Production	2				2	12	24	USA	2/71
$2_{2}$ Seed Processing (E)	4				4	6	24	USA	2/71
3. Seed Marketing	4				4	6	24	USA	2/71
4. Seed Storage & Fack	4				4	6	24	1'SA	2/71
5 Study Team (Survey)	6				6	2	12	USA	2/71
	20				20	108			

# Table 2 - Participant Training for FY 1970-71

- -

Subject & Field of Training No	of Participants	Duration of Training in Months	Man-Months of Training (Col. 2x3)	Training Location	Estimated Departure
C. AGRICULTURAL MACHINERY					
1. Farm Equips, Design &					
Testing	2	4	8	USA	
2. Farm E uip. Demonstration &	_				
Training	2	5	10	USA	
3. Farm Machinery Production	2	4	8	USA	
4. Servicing & Farts Menagement	3	4	12	USA	
5. Custom Hiring	3	4	12	USA	
6. Survey/Study Team		2	16	USA	
	20		66		
D. HLANT FROTECTION					
1. Pesticides Marketing & Sales	3	3	9	USA	
2. Pest. Formulation & Froduction	2	Ĺ	8	USA	
3. Surveillance & Control, etc. 4. Aerial P.P. Detection &	5	3	15	USA	
Control Frocedures	4	3	12	USA	
5. Survey/Study Tour	2	2	4	USA	
	16		48		

# Tebla 2 - Participant Training (Contd.)

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a above-named parties here out a project in accordance will and the terms set forth in , as checked below: MECY DESCRIPTION [] PORE LEX A [] SPECO WISTORS MENER [] SPECO	GOVERNMENT OF by mutually ogna 13 ith the terms set forth out any analysis strated which containers which a strategy terms	INDIA N. HOGUNOT/ASTRINY 326-11-190- 8. ASELENCEP ND. NO. 1 to Supp	 -367 /3, Amendmen lement No.4	DAGE TOEL AVAL
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	This Project Agraement is eve	couted ourguent to the Techni	a

This Project Agreement is executed pursuant to the Technical Cooperation Agreement entered into between the Governments of India and the United States of America on January 5, 1952 and is signed by the designated representatives of the two governments - S. Santhi, Deputy Secretary, Ministry of Finance of the Government of India (hereinafter referred to as the "Representative") and Leonard J. Saccio, Director of the U.S. A. I.D. Mission to India of the Agency for International Development of the Government of the United States of America (hereinafter referred to as the "Director").

Description of Project

In furtherance of the purposes and objectives of Project Agreement No. 143, as supplemented and amended, it is agreed hereby that the AID will provide further assistance as follows:

#### 367.1 - Fertilizor

1. Participant training for 36 Indian professionals and technicians for a total of approximately 93 man-months in the various fields of fertilizer engineering and management including blending, in-depth training, and high level observation and management teams from the fertilizer industry and the related Himistry as described in the FN 1971 Operational Work Flan signed by the AID and the Ministry of Patroleur, Chemicals, Mines and Metal, attached heroto as Annex B as a guide to the implementation of the project. Estimated cost: \$103,800 and Rs 360,000.

2. Three U.S. short-term consultants for approximately 2 weeks each to assist with the planning and conducting of a Seminar on Festilizer Plant Haintenance during November 1970. Estimated cost: 07,500 and Rs 46,000.

#### 267.2 - Seed Improvement

3. Technical services through June 30, 1971, for the seeds project, in accordance with the Operational Work Flan attached as Annex B with Amendment No. 3 to Supplement No. 3. Under the above-mentioned Agreement the U.S. A.I.D. provided funds to finance the services of U.S. technicians and consultants under a contrast with the Hississippi State University through Harch 3:, 1971. Additional funds are provided hereby for continuing these services through June 30, 1971. Estimated cost: \$32,000 and Es 330,400.

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## 367.3 - Plant Protection

4. The services of a Plant Pest Control Advisor on AlD staff under a contract with AID for a period of two years, who will advise AID on various programs relating to food and plant protection and rodent and pest control. He will also assist and work with the Central Government of India and the AID-sponsored Agricultural Production and Agricultural University Development teams with the State pest control programs. Estimated cost for two-year contract: \$55,400 and Es 229,200.

The following tabulation gives the distribution of funds made available through Supplement No. /, as amended hereby, for each sub-project:

#### U.S. Dollars:

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367.3	111,080	55,400	29,800	55,880
367.4	61,400	21,000	- Бай 	40.400
Total	567,480	108,400	40 <b>,10</b> 0	418,980
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	367.2	530	,200	330,400	**		000,000	
	367.3			229,200	**		20,000	
	367.4	234	,000	114,000	<b>F</b> <sup>2</sup> -a	1	20,000	
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# (July 1, 1970 through Juna 30, 1971)

Project No. and Title:

385-11-190-367.1 Agricultural Inputs Development-Fertilizer

Activity Field:

Participant Training in Fertilizer Management and Technology

#### Freface:

This Operational Work Plan (OWP) provides a description of the activities contemplated under this project. It is intended to be a guide to the implementation of the project and reflects joint preparation and the intent of signatories. The Plan does not commit either Govt. until required administrative and financial clearances have been given by the appropriate authorities. Formal commitments by each Govt. to the specific actions required will be made by the execution of a Project Agreement.

#### 1. Packground

This activity forms a part of the USAID program to assist in efficient and increased production of chemical fertilizers in the country to complement the efforts of GOI for higher food production. A recent survey conducted by this Mission reveals that there has been a marked contribution by the U.S.-Returned Fertilizer Farticipants in the development of the fertilizer industry in the country on modern and sound lines, but it is falt that India has still to achieve a lot in this direction. The continuance of this program therefore can greatly help in raising the fertilizer production and thus assist in the country's efforts to attain self-sufficiency in food output.

# II. Goals and Preconditions

A. Goals

Improved efficiency and increased production and availability of fertilizers for higher agricultural output.

B. Preconditions

The Ministry of Patro-Chemicals, Mines and Metals, GOI, agrees that, on return from abroad, the officials sponsored for training will be posted to jobs where newly acquired skills and knowledge will be fully utilized. III. Inputs

A. U.S.

#### Participants

During FI 1971, participant training teams are proposed with the following conditions:

- (i) USADD will make arrangements for U.S. training and bear the dollar costs of such training for all the participants under this project, and in addition bear international traval costs of government sector employees;
- (ii) The Ministry of Petro-Chemicals, Mines and Metals agrees that:
  - (a) International travel costs to and from USA for candidates from the private sector enterprises will be borne by the sponsoring organizations themselves;
  - (b) 'Local costs' including salaries for the duration of training and within-India travel will be borne by respective public and private sector sponsoring authorities;

-2-

П.,

(c) It will be the coordinating Ministry who will send

all the nominations, including those from the Ministry of Iron and Steel, to the Dept. of Economic Affairs.

The details of the different teams are as follows:

#### A. Kigh Level Fertilizer Management Team

The team will comprise of serior management personnel of the ranks of General Managers, Deputy General Managers and persons who are likely to be promoted to these positions in the near future, from various fartilizer projects in public, private and cooperative sectors. The objective is to improve the managerial competence and effectiveness in the Indian fertilizer industry. The participants will have an opportunity to discuss the problems and latest developments in production and management with persons having the same responsibility in the host organizations.

The team will consist of eight participants and the duration of training will be up to six week.

#### B. Righ Level Fertilizer Engineers Team

The team will consist of Chief and Senior engineers drawn from the various fertilizer plants in public, private and cooperative sectors. The participants will study the latest developments in technology and economics of fertilizer production. The emphasis will be on process technology, equipment, performance, maintenance and productivity.

The team will have eight members and the duration of training will be up to six weeks.

-3-

-4-

#### C. Fertilizer Industry In-Plant Training Team

Under this program, the middlo-level fertilizer engineers will be placed in modern fertilizer plants in U.S. for long periods and imparted intensive in-plant training. Training is proposed in different eners of fortilizer production, viz. synthesis gas, annonia, urea, DAS and other complex fertilizers; maintenance and construction of fertilizer plants; production-placening and control in fertilizer industry etc. The finalization of this program will depend, however, upon the facilities available for placing the participants as intervees in the modern fertilizer plants in U.S.

The team will consist of four participants and duration of training will be up to 28 weeks.

#### D. Fertilizer Bulk Flending Seam

A large scope exists for establishing Fertilizer Bulk blonding Flants in Indie, as a part of the Fertilizer Fertilizer Fertilizer Frequent. Where plants will cater to the requirements of the famers for custom-made blonds of NEV.

The team under this program will court of technical persons connected with fertilizer marketing, who will their important Bulk Edending Flants in U.S.A. and study modern and sciencific methods of Bulk Elending. Howay persons on their reduce to India will be able to sat up Bulk Elending Flants for the production of NEW mixtures in accordance with the specific requirements of the fermers.

The team will consist of four persons and the duration of training will be up to five weeks.

#### E. Rock Phosphate Mining and Beneficiation Team

GOI is very keen that the recently discovered rock phosphate deposits in U.P. and Rajasthan are mixed and beneficiated on modern and scientific lines at the earliest, so as to reduce the great outflow of foreign exchange which is being spent at present for the import of this essential required in the production of phosphatic fortilizers. In order to assist GOI in achieving this objective, it is proposed to send a beam of mining and matellargical engineers to U.S.A. to study the modern methods of rock phosphate mining and beneficiation.

The team will consist of four persons and the duration of training will be up to traine weeks.

# F. Fartilizer Machinery Ergineens Weem

The modern fortilizer plants already in production or which are being set up in India, contain a caber of sophisticated items of machinery viz. compressors, pumps, large h.p. electric motors, instrumentation, etc. which require docetant attention for aroubh running. It is proposed to send a team of middle level fortilizer maintenance engineers drawn from the factilizer industry in budia for practical training with the manufacturers of various machinery items in U.S.A.

The team will consist of four parsons, and the duration of the training period will be up to twelve weeks.

-5-

#### G. Corrosion/Water Treatment Engineers Team

Corrosion is a big problem in the fertilizer industry and can affect the production very adversely if it is not properly tackled. Similarly, the supply of hard and impure water can prove to be a big angoin achieving full production. In order to tackle these problems, it is proposed that a team of middle level engineers with necessary background from various factilizer plasts is sent to U.S.A. and placed in some modern fortilizer plasts to study these problems.

The team will consist of four participants, and the furation of the training will be up to twelve weeks.

A summarization of these training programs and the allocation of participants to various organizations follows:

	Field of Training	Number	Fstimeted duration of training (weeks)
A.	High Level Management Foom	8	6
B.	Eigh Lovel Ingineers Team	8	6
C.	Industry In-Plant Training	4.	28
D.	Bulk Blending Team	) <sub>1</sub>	5
E.	Phosphate Mining and Beneficiation	4	12
F.	Fortilizer Machinery	4	12
G.	Corrosion/Water Treatment	<u>4</u> <u>36</u>	12

Allocation to Various (	Organizations:
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Organization	А	B	C	D	E	F	G	
FCI	2	1	1	1	1.	'ı	2	9
FACT	-	Ĵ	1		-	1	2	5
Rourkela	1	-	-	_	_	-	<b>-</b>	1
MPL.	1	1	_	1	_	-	-	
FAI	-	-	_	1	-	-		3
Indian Explosives Ltd. (IEL)	1	1	-	*	-	*1	-	1
Gujarat State Fertilizers Corp.	1	1	-	-		-	<b>61</b> 1	2
(GSFC)	]	1	1	-		Т	A.3	4
Shriram Forbilizer (Kota)	1	1	Т		-	~		3
Zuari Agro-Chemicals Ltd. (Coa)	.1.		~	1		1	<b>-</b> ,	<u>6</u> <b>1</b>
National Metallurgical Laboratory	•• '	1	~	-	~	••	-1	1
Rajasthan Govt.	-	-	-	~	1	2	<b>18</b> -1	1.
	-	-	-	-	].	•		<b>]</b> .
Minee and Metals Department	-	-	-	-	1	-	•*	Ĵ.
-	8	8	4	4	ц.	ι. 	4	36i

Na C. Woorly David C. Woody 1

Chief Engineer Engineering Division USAID/New Delhi September 3, 1970

71 A.A. Vas arterat

A.A. the relevant Under Secretary Ministry of Petro-Chemicals, Mines and Metals, GO1 September 1, 1970

G			CT AGREEMENT	anna an an tha an tha an an a	ī	
	BETWEEN THE DEPAR AN AGENCY OF	THE GOVERNMEN	GENCY FOR INTE T OF THE UNITED MISTRY OF F	STATES OF	AMERICA	PMENT (AID). A, AND
	AN AGENCY OF THE					
	The above-named parties here carry ust a project in accordance wi berein and the terms set forth in	1. PROJECT/ACTIVIT 386-11-190	-367		PAGE I OF PAGE	
	Heroto, as checked below:	GN CURRENCY ARD PROVISIONS ANNES	2. AGREEMENT HO.] NO. 2 to Sup A. PROJECY/ACTIVIT	plement		2. CHIGHAL OR BEVILLON NO.2. (T
	This Project Agreement is further of the following agreement between	AL LOAN SIONS ANNEX r subject to the terms	Agricu	dtural D	nputs D	evelopment
-	of the following agreement between as modified and supplemented:	the two governments,				
+	SENERAL AGREEMENT FOR TECHNICAL COOPERATION	Dec. 28, 1950	5. PROJECT DELEPTP	ISON AND EXP	1. 1.	
1	CONOMIC COOPERATION	DATE Jan. 5,1952	i	N SYNBOL	OTMENT SYNSOL = 386=00=69-1	
-	as extended	June 29, 1957	7257300		147-50	-386-00-69-0
-	6. AID FINANCING	in" Veripus Tatatas Lines 317, 1971	INCREASE (19)		EACE	TOTAL TO DATE
1	(a) Total Dollars	567,480.00	52, 951. 87	45,74	7.59	574, 684. 28
-	(b) Contract Services / PA SA	148,500.00	50, 226, 87	0	)	198, 726, 87
	(c) Commodities	0	2,725.00	C	)	2,725.00
	(d) Other Costs/Participa	418,980.00	0	45,74	7.59	373, 232, 41
	S. COOPENATING AGENCY UDBE FINANCING - DEALLAR EDENRALINAK \$1.00 == Rs 7,60			e e		
-	(a) Total Rupees	1, 871, 900*	658, 714	480,0	000	2,050,614
-	(b) Services	751, 900	658, 714	0		I <sub>4</sub> 410, 614
-	(c) Commodities	0	0	. 0		0
	(d) Other Costs	1,120,000	0	480,0	00	640,000

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AID 1290+1A	PROJECT AGREEMENT BETWEEN AND AND	1. Project/Activity No. 386-11-190-367	PAGEL OF 5 PAGES
PROAG CONTINUATION SIZET	THE MINISTRY OF FINANCE AM AGENCY OF THE GOVERNMENT OF INDIA	2. Aproximate No.143, A mendment No. 2 to Supplement No. 4 3. Project/Activity Title Agricultural Inputs I	Revision No. 2 (FY 71)

This Supplementary Project Agreement is executed pursuant to the Technical Cooperation Agreement entered into between the Governments of India and the United States of America on January 5, 1952 and is signed by the designated representatives of the two governments - S. Senthi, Douty Secretary, Ministry of Finance of the Covernment of India (hereinafter referred to as the "Representative") and L. Faul Cechsli, Acting Director of the U.S. Agency for International Development of the Government of the United States of America (hereinafter referred to as the "Director").

# Description of Project

The purpose of this Amendment No. 2 to Supplement No. 4 to Project Agreement No. 143 is:

a. To authorize the extension of U.S. specialists services in the areas of seed production, processing and marketing under contractual arrangements with the Mississippi State University through June 30, 1972 as reflected in the Operational Work Plan for U.S. FY 1972 attached herewith as Annex "B".

b. To provide additional \$66,000 of Development Grant Funds and Rs743,000 from the GOI Trust Fund administered by the USAID to cover international travel and local support costs of the above mentioned U.S. technicians and consultants. This additional funding will carry the contract through March 31, 1972.

c. To make adjustments (From \$418, 980 and Rsl, 120, 000 to \$373, 232, 41 and Rs640, 000) in the funding of participant training authorized in Supplement No. 4 and Amendment No. 1 based upon nominations received and processed as of March 31, 1971.

d. To provide additional \$9,925 to cover shortfalls in the funding of commodities (\$2,725) pursuant to Amendment No. 2 to Supplement No. 3 to Project Agreement No. 143 and PASA Consultants (\$7,200) pursuant to Amendment No. 3 to Supplement No. 2 and Amendment No. 3 to Supplement No. 3 of Project Agreement No. 143.

AID 1327-14 (6-03)	PROJECT AGREEMENT	1. Project/Activity No. 386-11-190-367	PAGE 2 OF 5 PAGES
PROAG CONTINUATION SHEET	La	and the second and the second and the second second as the second s	3. Original or Revision No. 215 V 711
APRILEX A	AN AGENCY OF THE GOVERNMENT OF INDLA	3. Project/Activity This Agricultural Inputs	Development

e. To provide the services of two short-term consultants for approximately three-man-months each to assist in the preparation of training programs for Agro Services Centers and to prepare guidelines for the establishment of such centers. As requested by the Ministry of Agriculture, these consultant services are in lieu of a team of four consultants to assist in designing specifications and use of agricultural machinery provided for in Supplement No. 4 (Original) to Project Agreement No. 143. Accordingly, obligation of \$21,000 and Rall4,000 is now reduced to \$14,000 and Ra64,000.

f. To adjust the funding of other contract and PASA consultant services authorized by Supplement No. 4 and its Amendment No. 1 to conform to actual costs (reduction \$15, 973 and Rs 34, 286).

# Funding of Mississippi State University Contract

Forward funding of the Mississippi State University contract is limited to the period through March 31, 1972 according to AID regulations. It is understood that any part of the funds provided herein for extension of technical services under this contract for U.S. technicians and consultants which remains unutilized as of March 31, 1972 may be used toward their cost beyond March 31, 1972. Additional funds necessary to extend the contract beyond March 31, 1972, will be provided in FY 1972 subject to the availability of funds. During the period April 1, 1971 through March 31, 1972, the U.S. technician services under this contract are estimated to total four man-years.

# Participants Training

As a result of adjustments made in funding and numbers of participants in the participant training program, a total of 64 participants for a total of approximately 238 man-months have been accepted for training in the U.S. in FY 1971, distributed among the various subprojects as hereunder:

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PROAG		STRY OF FINANCE			Urreuila. On No. 4 Redak	
SHEET	1	de the government of <u>NDIA</u>	S. Project/Acti	very Firla	oputo Develo	
	Sub-Project	No. and Man-Month of Truining	8 <u>C</u>		Addl.cost fo prior yr. participants	Total (\$
	367.1	25/116	169,190	250,000	\$31.180.00	200,370.0
	367.2		<b>U</b> -	•**	\$4, 492, 41	4. 492. 4
	367 3	25/74	109, 470	<b>2</b> 50,000	۰.	109,470 )
	367.4	14/48	58,900	140,000	د,	58.900.0
	Total:	64/238	337,560	640, 000	\$35.672.41	373,232-4
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Authorization and funding for participants training proposed for FY 1972 as described in the attached Annex "B" will be made available in FY 1972 subject to the availability of funds.

Due to current difficulties experienced in the programming of fertilizer technology and seed participants and to avoid premature obligations of funds. 36 nominations received for training in these areas (22 in fertilizer and 14 in seeds) are being held over for processing and funding in FY 1972 subject to the availability of funds. These 36 participants will be treated as part of FY 1972 program.

#### Overall Project 1 ading:

The following tabulations give the distribution of funds made available through Supplement No. 4 and its amendments:

2	PROFECT AC BRIWERN		t.		r Metivity No. Metivity No.		PACE & OF SPACES	
	THE MINISTRY		MANC	E No. 2	te Suppler	Revision No. 21 FY 71		
	AN AGENCY OF THE	GOVERNME	NT OF	Contraction of the local of the	3. Project. Activity Title			
	IMD1	<u>A</u>			Agriculiu	ral Inputs f	Development	
<u>.u.s</u>	DOLLARS			an a grann a t-ruid ann an a grannanadh a	•••••••••••••••••••••••••••••••••••••••		الاران الاران الاران الاران الاران العامل العامل المراجع في المراجع العامل العامل العامل العامل الع	
Sab	weisheet	<b>1</b> 71 . J . <b>1</b>		Tech/Gons		Direct		
	<u>nroject</u>	Tolal		Contract	PASA	Farticipa	nts Commodities	
337. 367.	1 -Fertilizer 2 -Geed Improv. 3 -Plant Protec 4 -Farm Imple- meuts	102,29	2.41 0.00	98,000.00 44,700.00 14,000.00	29,800.00	200,370.00 4,492.4 109,470.00 58,900.00	1 ~	
	Total:	577,68	4.28	150,700.00	42,026.87	373,232.4	1 2,725.00	
Bup	s obligated by plement 4 & coment do.1ther	,	0.00	108,400.00	40,100.00	418,980.00	)	
	. Funds ided herein:	7,20	4.28 April 1	48,300.00	1,926.87	(45,747.59)	2,725.00	
	GOT TRUST FUND	RUPPES						
<u>Sub-</u>	project		Tot	<u>e1</u>	<u>Tech/Co</u> Contrac	<u>nsultents</u> t <u>PASA</u>	Direct <u>Participants</u>	
367.2 367.3	1 - Fertilizer 2 - Seed Improve 3 - Plant Protect 4 - Farm Impleme	stion	294, 1,073, 479, 204,	400 200	1,073,400 229,200 64,000	44,014 - -	250,000 250,000 140,000	
	Total:		2,050,	514	1,366,500	44,014	<u>био "соо</u>	
Supp	) obligated by Demen 4 & Edment No.1there	eto :	1,871,	<u>900</u>	<u></u>	<u>78,300</u>	1,120,000	
م م	1. Funds Provide	b.d.	178,	1341	693,000	(34,286)	(480,000)	

4147 1800-18 (60-3)	PROJECT AGREEMENT BETWEEN AIS AND	1. Project/Actions No. 380-11-190-263	PAGE 5 OF 5 PAGES
PROAG	THE MINISTRY OF FUNANCE	2. Agreement No. 143, A mendment No. 2 to Supplement No. 4	3. Criginal or Revision No. 2(FY 71
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	The Government of India will	for GOL-requested techni	cians

provide office space, equipment, furnishings and supplies, stenographic, secretarial translation and interpreting services and pay cost of official communications.

All provisions and conditions of Supplement No. 4 to the Project Agreement No. 143 and Amendment No. 1 thereto, except as modified above, will apply to this Amendment also.

Anner B!

#### OPERATIONAL WORK PLAN

PROJECT TITLE	8	Agricultural Inputs Development (Seeds)
PROJECT NUMBER		386-11-190-367-2
PERIOD	ŧ	July 1, 1971 to June 30, 1972

#### INTRODUCTION

This Operational Work Flan provides a description of the activities contemplated under this Project. It is intended to be a guide to the implementation of the Project and reflects joint preparation and the intent of signatories to this agreement. This Flan does not commit either Government until required administrative and financial clearances have been given by the appropriate authorities. Formal commitment by each Government to the specific actions required will be made by the execution of a Project Agreement.

I. BACKGROUND OF CURRENT ACTIVITY

This activity forms a part of the USAID agriculture activity to complement the efforts of the Government of India in the Ministry of Food, Agriculture, Gommunity Development and Cooperation to rapidly increase the availability and efficient utilization of essential agricultural inputs for increased agricultural production, Specifically, this sub-project provides direct support to production, processing and marketing activities for seeds of improved varieties as undertaken by the National Seeds Corporation. This Work Plan describes the program to be undertaken in the period July 1, 1971 to June 30, 1972 and indicates the project programs for the subsequent year.

## II. SPECIALIST SERVICES

Four <u>Seed Production Specialists</u> will be requested by the Government of India -- one each in (i) Seed Production (ii) Seed Processing and Packaging (iii) Market intelligence and (iv) Fabrication of equipment for large sized processing plants and for seed and seed storage. The respective assignments are expected to continue through FY 1974. All specialists will be assigned to the National Seeds Corporation, however, one Fabrication of equipment for large sized processing plants for seed and seed storage specialist would be deputed to assist the Tarai Development Corporation.

Two short-term consultants may be provided as requested and required by the GOI to assist with specialized programs for projects.

III. PARTICIPANT TRAINING

A. General

Contingent upon the availability of funds, suitable candidates, and mutual agreement. USAID will finance the costs of training for the types and number of participants indicated in Table III. These categories may be amended to reflect changing programs as mutually agreed to by GOL and USAID.

2

# B. Selection of Participants

Selection of participants will be made by the Department of Agriculture, Ministry of Food, Agriculture, Community Development and Cooperation in consultation with USAID. The selected individuals will be given a pre-departure briefing, time permitting, and where possible the programs will be developed to match advancement needs of the selected individuals.

#### IV. OTHER U.S. INPUTS

In order to assist the NSC with the improvement of seed production, processing and marketing; USAID will provide rupes activity funds to develop <u>in-service training programs in the</u> <u>seed processing and seed marketing and also establish a demong-</u> <u>tration unit for seed processing and pilot marketing familities</u>. Further assistance may be provided for (a) <u>meminars, symposia</u> and supporting demonstrations and (b) <u>sudio-visual material</u>, art <u>work and printing of training and promotional material</u>.

T GOVERNMENT OF INDIA INPUTS

Standard provisions; office space, furnishings, sectrarial services and counterparts for requested specialists.

#### TABLE T - SPECIALISTS

Subject	Regultred	Projected 1973	
Saed Processing & Packaging	1/12	1/12	
Fabrication of equipment for large size processing plants for seed and seed storage (TDC)	1/12	1/12	
Seed Market intelligence	1/12	1/12	
Seed Production	1/12	1/12	

# TABLE II - CONSULTANTS

Subject	Required 1272	Projected 1973
Seed Technology	2/4	2/4
TABLE III - PARTICIPANTS	<b>u</b>	

Subject	Required	Projected 1972
Seed Production	2/26	2/2/6
Seed Processing	4/21.	4/24
Seed Marketing	int 21.	4/240
Seed Storage & Packaging	4/24,	4/24
and the second	1.4/901	14/96

Russell O Alera Office of Agricultural Development

USAID New Dolhi

Dates 30 March 11

D.N. Suigh

Ministry of Food, Agriculture Community Development and Cooperation, New Delhi

Date: 30 Min. 1. 1971

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AN AGENCY OF THE	And the second se	INDIA (GOT)			
The above-named parties has easy cut a project in accordance warein and the terms set forth in hereto, as checked below:	reby mutually agree to with the terms set forth any encours attached	386-1-190	0-367	PAGE / OF LPAGE	
ANNEX A	UGN CURRENCY			BAU SALAN MO	
X STANDARD SPEC	IAL LOAN	1 1 1 1		lopment	
X GENERAL AGREEMENT FOR	DATE	B. PROJECT DESCRI	PTION AND REPLACEATION		
ECONOMIC COOPERATION	DATE	-	(See Annez & attached	U	
x ("bm) as extended J	ine 29, 1957	6, лів аргворнатіон бумеос 7. 254 72-1121004 254 72FT800 147		-50-386-00-69-0	
	in year ending	INCREASE (D)	DECRIMANE	TOTAL YO DATE	
at Total Dollars	0	532,600	0	532,600	
b) Contract Services/PASA	0	29,600	0	29,600	
Commodities	0	0	0	0	
	ts O	503,000	0	503,000	
COOPERATING AGENCY POB FINANGING - JOSINEY KONTRACIO					
) Total Rupees	0	1,114,800*	0	114,800*	
(echnical and other Services	0	45,300	0	45,300	
) Commodities	0	0	0	0	
Other Costs/Participari	ts O	1,069,500		1,069,500	
	AND STANDARD SALE AND	Image: A services       FOREIGN CURRENCY STANDARD PROVISIONS ANNEX         Image: A standard provisions annex       SPECIAL LOAN PROVISIONS ANNEX       SPECIAL LOAN PROVISIONS ANNEX         Image: A standard provisions annex       SPECIAL COMPANY ANNEX         Image: A standard provisions annex	386-1.190         arean and that terms set forth in any encares atbacked         berelo, as checked delow:         Image: A checked delow:<	And project in accordance with the ferms set forth hereid, as checked jeles:       386-1.1190-367         Image: A set of the instruction of the ferms set affacted hereid, as checked jeles:       386-1.1190-367         Image: A set of the instruction of the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as modified and supplemented in the following symmetry in the fermines as extended June 29, 1957       B. PROJECT DESCHIPTION AND EXTERNMENT IN AND EXTERNMENT is an extended June 29, 1957         AGREENT FOR AGREENT I DOLLARS       Date in the following symmetry in t	

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PRO AG		2 Agreement Ha. 143, Supplement No. 5	3. Orlyinat or Revision Mo.
SHEET	AN AGENCY OF THE GOVERNMENT OF	2 Frejsci/Activity Title	
ANNEX A	GIDIA	Agricultural Inputs Deve	elopment

This Supplementary Freject Agreement is executed pursuant to the Technical Cooperation Agreement entered into between the Governments of India and the United States of America on January 5, 1952 and is signed by the designated representatives of the two governments -- S. Santhi Director (TC), Ministry of Finance of the Government of India (hereinefter referred to a. the "Representative") and Howard E. Houston, Minister-Director, U.S. Agency for International Development Mission to India of the Government of the United States of America (hereinefter referred to as the "Director").

# Description of Project

In furtherence of the purposes and objectives of Project Agreement No. 143, as supplemented and emended, continued U.S. technical assistance will be provided during FY 1972 by A.I.D. to the Government of India, Ministry of Agriculture, in their effort to rapidly increase the agricultura) production inputs as described in the Operational Work Plans attached hereto as Armeres "B", "C", "D", and "E", which will serve as a guide to the implementation of the project.

The A.I.D. technical assistance will cover the services of U.S. techniciaus and U.S. training opportunities for Indian personnel as detailed herein. Here specifically, A.I.D. agrees horeby:

367.1 - Fertilizer

11

a. To continue the services of one direct-hire Fertilizer Promotion Specialist assigned to the Fertilizer Association of India.

b. To provide training abroad for 35 Indian participants for approximately 163 man-months in the various fields of fertilizer marketing and use. Estimated cost: \$232,000, and Rs 402,500.

c. To provide training abroad for 22 Indian participants for a total of approximately 62 men-months in the various fields of fertilizer management, engineering and technology. Nominations of these participants were received in FY 71 but were not processed due to difficulties experienced in the programming of these participants. Estimated cost: \$80,000, and Rs 253,000.

(3-70)	PROJECT AGREEMENT	1. Pretoct/Activity No. 386-11-190-367	PAGE OF 4 PAGE
PRO AG	THE MINISTRY OF FINANCE	2. Agreement No. 143, Supplement No. 5	3. Criginal or Revision No.
CONTINUATION	AN AGENCY OF THE GOVERNMENT OF INDIA	3. Project/Activity Title Agricultural Inputs Development	

#### 367.2 - Seed Improvement

d. To continue to provide U.S. technical assistance in the field of seed improvement through a contract with the Mississippi State University as agreed to between the GOI and A.I.D. in Amendment No. 2 to Supplement No. 4 to Project Agreement No. 143, signed May 20, 1971.

e. To provide U.S. training for up to 18 Indian participants for a total of approximately 132 man-months in the various fields of seed production, processing, marketing, storage, packaging, technology and industry organization. Nominations of these participants were received as part of FY 1970 (4 participants) and FY 1971 (14 participants) program but were not processed due to programming difficulties. Funds for the U.S. training of 14 participants included in Annex C will be provided in FY 1973 subject to their availability. Estimated cost \$119,000 and Rs 207,000.

#### 367.3 - Plant Protection

f. To continue the services of the Entomology Training Specialist under a participating agency service agreement to assist the Central Plant Protection Training Institute, Hyderabad, in the organization and conduct of training programs on pest and disease survey and warning methods. Estimated cost of extension through June 30, 1972: \$29,600 and Rs 45,300.

g. To continue the services of one direct-hire Pesticides Specialist to work with the Pesticides Association of India to assist in programs on pesticides formulation, distribution, marketing, sales promotion and use.

h. To continue the services of one Plant Pest Control Advisor on A.I.D. staff to advise on various programs relating to food and plant protection and rodent and pest control. This advisor will also assist and work with the Central Government of India and the A.I.D.-sponsored Agricultural Production and Agricultural Universities Development teams and with the State pest control programs. Funds for two years, under a contract, have been provided under Amendment No. 1 to Supplement No. 4 to Project Agreement No. 143.

i. To provide training abroad for up to 12 Indian participants for a total of approximately 36 man-months in the various fields of pesticides marketing formulation and production, pest surveillance, and control. Estimated cost \$49,000 and Rs 138,000.

ALL 1390-14 (2-70)	PROJECT AGREEMENT	1. 1. of Jos / Activity 50, 386-71-190-367	PASS 2 08.4. PAGES
PRO AG CONTINUATION SHEET AMNEX A	THE MINIGERY OF FINANCE	2. Agreement No. 143 Supplement No. 5 3. Froject/Activity Title Agricultural Inputs De	3. 7 Original or Revision Nr

# 361.4 - Farm Implements

To provide training and observation tour approximately for up to 1. 23 Indian participants for a total of approximately 62 man-months in the various fields of design and testing, production and management, demonstration and training, and servicing and custom hiring. Estimated cost \$89,000, Rs 264,500.

The several activities mentioned above will be coordinated by a direct-hirs project manager on behalf of A.I.D. He will be located in New Delhi.

Toward the cost of implementing the above activities, A.I.D. and GOI bereby make available \$532,600 from the Development Grant funds and Rs 1,114.200 from the GOI Trust Fund administered by A.L.D., distributed as follows:

# U.S. A.I.D. Dollars

Color Halls De MULLINAR			Cons	Dicect
Sub-Project	<u>lotal</u>	<u>Contract</u> /	PASA	<u>Participants</u>
367.4 - Fertilizer	312,000		-	312 000
367.2 - Ssed Improvement		•••		119.000
367.3 - Plant Protection	54,600	**	29,600	25,000
367.4 - Farm Implements	47,000		-	47.000
	männingen aussa Stellagen i minn auss allerannen.	· participation of the state of	ana ang ang ang ang ang ang ang ang ang	
Total:	532,600		29,600	503,000
		Land William Turban Michael	antes at the States of the Control of the	یک . سی که بیکار یک الما کند وی استخاصیت را میکود
G.O.I. Trust Fund Rupses				
		Techs./C		Direct
Sub-Project	Total.	<u>Techs./C</u> Contract/		Direct <u>Participents</u>
Sub-Project				Participents
<u>Sub-Project</u> 367.1 - Fertilizer	655,500			
Sub-Project	655,500 207,000			Participents 655,500
<u>Sub-Project</u> 367.1 - Fertilizer 367.2 - Seed Improvement	655,500 207,000		PASA	Participents 655,500 207,000
<u>Sub-Project</u> 367.1 - Fertilizer 367.2 - Seed Improvement 367.3 - Plant Protection	655,500 207,000 114,300		PASA	Participents 655,500 207,000 69,000
<u>Sub-Project</u> 367.1 - Fertilizer 367.2 - Seed Improvement 367.3 - Plant Protection	655,500 207,000 114,300		PASA	Participents 655,500 207,000 69,000
<u>Sub-Project</u> 367.1 - Fertilizer 367.2 - Seed Improvement 367.3 - Plant Protection 367.4 - Farm Implements	655,500 207,000 114,300 138,000		<u>PASA</u> 45,300	Participents 655,500 207,000 69,000 138,000

A12 344 1+ (3+70)	PRUJECT AGREEMENT BETWEEN ALD AND	1. Pr. Jun / And Vity 15- 386-11-190-367	PACE AL CHALLPACES
PRO AG COMINUATION SHEET	THE MINISTRY OF FINANCE	2. Agreement No. 143, Supplement No. 5 3. Prejoct/Activity Title	3, 3 Criginoi az Revision No
ANNEX A	IND) A	Agricultural Inputs Dev	alopment

Subject to their evailability, funds for inhydrous Anmonia Specialist (367.3), an expert in Toxicology (367.3), Agricultural Engineer (367.4) and consultants included in the attached Operational Work Plans will be provided later during the fiscal year; firm requests for these positions are yet to be received from the GOL. Due to current funding constraints for this project only partial funding, as reflected in the above table, has been provided for participants under subprojects 367.3 (Plant Protection) and 367.4 (Farm Implements). Subject to the availability of funds and the receipt of actual participants nominations for these two subprojects, additional funds will be provided later.

All provision and conditions of Supplement No. 4, as amended, will apply to this Supplement also, except as provided herein.

## TELLT. TAL MURY PLAN

Annex

PROJECT TITE : Agriculture inputs Hevelopment (Fertilizer) PROJECT NUMBER : 385-11-190-357.1 PERIOD : July 1, 1971 to June 30, 1972

## INTRODUCT IN

This Operational Work Plan privides a description of the activities contemplated under this Project. It is intended to be a guide to the implementation of the project and reflects joint preparation and the intent of signaturies to this agreement. This Plan does not commit either government until required elainistrative and financial clearences have been given by the appropriate authorities. Formal operations by each government to the specific actions required will be made by the execution of a Project Agreement.

## 1. BACKLARNE M C. RRENT ACTIVITY

This activity forms a part of the USAID agriculture activity to complement the efforts of the Government of India in the Ministry of Ford, Agriculture, Ormannity Development and Cooperstion and the Ministry of Petroleum and Chemicals to rapidly increase the availability and efficient utilization of essential agricultural inputs for increased agricultural production. Specifically, this sub-project provides direct support to production, marketing and promotion of fertilizer as undertaken by the Fertilizar Association of India and other agencies.

This Work Plan describes the progress to ce undertaken in the period July 1, 1971 to June 20, 1972 and indicates projected progress for the subsequent year.

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## 11. SPRCIALXST SKRVICES

One <u>Fortilizer Prosection Specialist</u> will be provided to work with the Fertilizer As constion of India through June 1973. He will be stationed in New Delhi and will work throughout the country as required to assist the activities of the F.A.T. He will assist in the development of marketing arvices, sales promotion, training and in identification of new problems and appropriate solutions.

A second <u>appart</u> would be necessary for a period of 12 months to advise the Hinistry and Indian Council of Agricultural Research on use of <u>anhydrogia apponia</u>.

Short targe consultants say be provided as requested and required by GOI to assist with the specialized programs of this sub-project.

## XII. CARTICIPANT TRAINING

SMR. C. R. R. L.

Contigent upon the evailability of funds, suitable condidates and untual agreement, USAIL will finance the costs of training for the participant training programs connected in Table III. These o tegories may be amended to relievt changing program as untually agreed to by GOI and USAID.

## Selection of Park alpente

Selection of participants will be made by the Department of Agriculture, Ministry of Food, Agriculture, Community Development and Cooperation or by the Ministry of Petroleum and Chemicals in consultation with counterpart specialists in USAID. The selected individuals will be given a predeparture briating, time permitting, and where possible, the program will be developed to match the advarcement meeds of the selected individuals.

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## IV. OTHER U.S. THETTE

USAID will assist the Fertilizer Association of India with the Fertilizer Seminar, a Fertilizer Domend Study and development of prototype farthizer marketing and promotional programs. In-service training programs, seminars, symposia and supporting demonstrations will be developed jointly to further accomplish project objective.

## . GOVSHOMMEST OF THDIA INPUTS

Standard provision: allies space, furnishings, secretarial services and counterparts for requested specialists.

Table I - SPECIALIST

Subject	Required	Projected
Perbilizer Promotion	2/24 *	2/24
Table TI CONSOL TANTS		
Sabieat	Required	Projected 1973
Fertilizer marketing	2/8	2/8
Ferilizer Production	2/8	2/8
	4/15	4/16

\* This includes provision for one specialist in use of anhydrous Annonia for a perior of 12 months which has been included at the request of J.C.A.R.

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TABLE DIT - PARTICIPANTS

Aubianh	Required	Projected	
igronous and Economics of Fortiliser Us	e 7/42	7/42	
Integrated Marketing Course	4/24	4/24	
Publicity, Advertising and Extension	5/20	5/20	
Marketing Research Course	3/18	3/18	
Methods and Techniques of Training in Fertilizer Marketing and Sales Promotion	5,120	5,/20	•••
Quantity Control	2/8	2/8	
Study Team for Economics and Logistics of Ferbilizer Dist.	3/6	3/6	
Soll and Flant Mesue Testing	2/8	2/8	
Geoperative Herketing	2/8	2/8	
Use of man-pressure liquid fortilizers	3/4	1/4	
Methodo of Dulk Manding of Fertilizer	1/6	1/6	
_	35/164	35/164	

U.S. Igency ix international Development

1971 Date:

Menistry of Food, Agriculture, Community Development & Cooperation

Date: 14.4.71

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#### Annex C

#### OPERATIONAL WORK PLAN

PROJECT TITLE	3	Agricultural Imputs Development (Seeds)
PROJECT NUMBER	8	386-11-190-367.2
PERIOD	8	July 1, 1971 to June 30, 1972

## INTRODUCTION

This Operational Work Flan provides a description of the activities contemplated under this Project. It is intended to be a guide to the implementation of the Project and reflects joint preparation and the intent of signatorios to this agreement. This Flan Jobs not consist either Government until required administrative and financial clearances have been given by the appropriate authorities. Formal commitment by each Government to the specific actions required will be made by the execution of a Project Agreement.

I. BACKGROUND OF CURRENT ACTIVITY.

This activity forms a part of the USAID agriculture activity to complement the efforts of the Government of India in the Ministry of Food, Agriculture, Community Development and Cooperation to rapidly increase the availability and efficient willization of essential agricultural inputs for increased agricultural production. Specifically, this sub-project provides direct support to production, processing and marketing activities for seeds of improved varieties as undertaken by the National Seeds Corporation.

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This Work Flan describes the program to be undertaken in the period July 1, 1971 to June 30, 1972 and indicates the project programs for the subsequent year.

## 11. SPECIALIST SERVICES

Four <u>Seed Production Specialists</u> will be requested by the Government of India -- one each in (i) Seed Production (ii) Seed Processing and Packaging (iii) Market intelligence and (iv) Fabrication of equipment for large sized processing plants and for soed and seed storage. The respective assignments are expected to continue through FX 1974. All specializes will be assigned to the National Seeds Corporation, however, one Fabrication of equipment for large sized processing plants for seed and seed abounge specialist would be deputed to assist the Taral Perelopment Corporation,

We should term consultants may be provided as requested and required by the GOT to assist with specifized programs for projects.

## III. PARTICIPANT TRAINING

A. Connel

Contingent upon the availability of finds, suitable candidates, and mutual agreement, USAID will findnes the costs of training for the types and number of participants indicated in Table III. These entegories may be amended to reflect changing programs as mutually agreed to by GOI and USAID.

## B. Selection of Participants

Selection of participants will be made by the Department of Agrieriture, Ministry of Food, Agriculture, Community Development and Cooperation in consultation with USAID. The selected individuals will be given a pre-departure briefing, time permitting, and where possible the programs will be developed to match advancement needs of the selected individuals.

## IV. OTHER U.S. INPUTS

In order to assist the NSC with the improvement of seed production, processing and marketing; USAID will provide rupee activity hunds to develop <u>in-service training morror in the</u> seed processing and seed marketing one also exhibition a demonsbration with for mark increasing and pilot marketing facilities. Further assistance may be provided for (a) <u>genineus, submain</u> and <u>supportions</u> and (b) <u>andle-viewel</u>, <u>arb</u> Mork and withdre of training and promotional material.

#### V. GOVERNMENT OF THIMA INFUTS

Standard provisions; office space, furnishings, sceretarial services and counterparts for requested specialists.

## TABLE I - SPECIALISTS

Subject	<u>Requir.d</u> <u>1972</u>	Projected 1973
Seed Processing & Packaging	1/12	1/12
Fabrication of equipment for large size processing plants for seed and seed storage (TDC)	1/12	1/12
Seed Market intelligence	<b>L</b> ,	1/12
Seed Production	1/12	1/12

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## TABLE II - CONSULTANTS

Subject	Required 1972	Projected 1973
Seed Technology	2/4	2/4
TABLE III - PARTICIPANTS		
Subject	Beguired 1972	Projected 1973
Seed Production	2/24	2/24
Seed Processing	4/24	4/24
Seed Marketing	4/24	4/24
Seed Storage & Packaging	4/24	4/24
	14/96	14/96

Russell O llson Office of Agricultural Development USAID/New Delhi

Dates\_ 30 March 1971

D.N. Singh

Ministry of Food, Agriculture Community Development and Cooperation, New Delhi

Duter 30 March, 1971

## OPERATIONAL WORK PLAN

Annor

PROJECT TITLE Agricultural Inputs Development (Plant Protection)

PHOJECT NUMBER : 386-31-190-367.3

PERIOD

July 1, 1971 to June 1972

## INTRODUCTION

This Operational Work Plan provides a description of the activities contemplated under this Project. It is intended to be a guide to the deplementation of the project and reflects joint proparation and the intent of signatories to this spreement. This Plan does not conmit ofther Government with required administrative and financial clearances have been given by the appropriate authorities. Formal consistment by each Government to the specific actions required will be made by the execution of a Project Agreement.

I. BACKGFOUND OF CURRENT ACT WITY

This activity forms a part of the USAID agriculture activity to complement the efforts of the Government of India in the Ministery of Food, Agriculture, Community Development and Cooperation to rapidly increase the availability and efficient utilization of casential agriculture) imputs for increased agricultural production. Specifically, this sub-project provides direct support for formulation, marketing and use of pesticides as undertaken by the Pesticides Association of India and for development of disease and

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insect surveillance techniques and related training programs as undertaken by the Contral Plant Protection Training Institute and the Directorate of Plant Protection.

This Work Plan describes the program to be undertaken in the period July 1, 1971 to June 30, 1972 and indicates the projected program for the subsequent year.

II. SPECIALNST SERVICES

One <u>Pesticides Specialist</u>, one <u>Toricology Expert</u> and one <u>Entomology Training Specialist</u> will be assigned on request.

The Pesticides Specialist will work with the Pesticides Association of India. He will be stationed in New Dethi and will work throughout the country as required to assist in programs on pesticides formulation, distribution, marketing, cales promotion and use,

The Entomology Training Specialist will be stationed at the Central Plant Protection Training Institute, Hyderabad, A.P. and will essist in the organization and conduct of training programs on pest and discuss survey and vacning methods. He will deliver lectures, hold practical training and field demonstrations on the methods of survey in plant peets and discusse; teach and demonstrate appropriate techniques of pest and discuss forecasting, and will work with plant pest and discuss control personnel. A Senior Toxicologist may also be assigned with the Central Plant Protection Training Institute, Hyderabad.

Short term consultants may be provided as requested and required by Government of India to assist with the specialized programs of this sub-project. BEST AVAILABLE COPY

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### III. PARTICIPANT TRAINING

#### A. General

Contingent upon the availability of funds, suitable candidates and mutual agreement, USAID will finance the costs of training for the participant programs enumerated in Table III. These categories may be amended to reflect changing programs as mutually agreed to by GOI and USAID.

## B. Selection of Part cipante

Selection of participants will be made by the Department of Agriculture, Ministry of Food, Agriculture, Community Development and Cooperation, in consultation with counterpart specialists in USAID. The selected individuals will be given a pro-departure briefing, time permitting, and where possible, the program will be developed to match the advancement needs of the selected individuals.

## IV. OTHER U.S. INPUTS

In order to assist the Plant Protection Specialists in training and promotional activities, the USAID will:

(1) provide rupse activity funds for a pesticide production and marketing seminar and coordinated regional workshops;

(2) assist in development of plant pest survaillance techniques and supplies; and

(3) assist in developing posticides information reference service, a news bulletin and bandbook for the posticides industry.

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Further assistance say be provided to?

(1) 'In-service training programs, seminars, symposia and supporting demonstration; and

(2) Breparation of audio-visual material, art work and printing of training and promotional material.

TABLE I - SPECIALISTS

Subjeut	Required 1972	Projected 1973
Pesticides Specialist	1/12	To be deter- minad
Expert in Toxicology	1/12	To be deter-
Expert in Entomology	1/12	To be deter- mined
TABLE 11 - CONSULTANTS		
Subjent	<u>Required</u> 1972	Projected 1973
		To be deter- mined
TABLE INL - PARTICIPANTS		
Subject	<u>Required</u> 1972	<u>Projected</u> 1973
Pesticides Marketing Formulation and Freduction	2/6	
Toxicology	2/12	The be deter-
Post Surveillance	4/6	mined
Biological Control	2/6	
Newatode Control	2/6	[ <sup>*</sup>
BEST AVAILABLE COPY	12/36	10 10
Russer O. Clesmi	X	Sam,~
Office of Agricultural Development USAID/Hew Delhi	Minipley of Food Community Develop Cooperation	pusat and
Date: 30 march 1971	Dates Apr	16-1971

#### OPERATIONAL WORK PLAN

Annex E

PROJECT	TITLE	8	Agricultural Inputs Development (Farm Implements)
PROJECT	NUMBER	8	386-11-190-367-4
PERIOD			July 1, 1971 to June 30, 1972

#### INTRODUCTION

This Operational Work Plan provides a description of the activities contemplated under this Project. It is intended to be a guide to the implementation of this project and reflects joint preparation and the intent of signatories to this agreement. This Plan does not commit either Government until required administrative and financial clearances have been given by the appropriate authorities. Formal commitment by each Government to the specific actions required will be made by the execution of a Project Agreement.

I. BACKGROUND OF CURRENT ACTIVITY

This activity forms a part of the USAID agriculture activity to complement the efforts of the Government of India in the Ministry of Food. Agriculture, Gommunity Development and Cooperation to rapidly increase the availability and efficient utilization of essential agricultural inputs for increased agricultural production. Specifically, this sub-project provides direct support for the Farm Machinery Section of the Department of Agriculture in development of programs to stimulate and assist the farm machinery industry.

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This Work Flaz describes the program to be undertaken in the period July 1, 1971 to June 30, 1972 and indicates project program for the subsequent year.

II SPECIALIST SERVICES

A Expert (12 men months) ,

One foreign Espert will be required to assist Government of India's programs of farm machinery demonstration and training programs at Tractor Training Centres Budni and Hissar and those related to Agricultural Machinery Hiring Centres/Agro Service Centres

The setting up of Agro-Service Centres and Machinery Hiring Centres has a high priority, and it is proposed to establish 30 Machinery Hiring Centres during the IV Plan period and about 500 Agro-Service Centres during 1971-72. The Expert will also essist in organising Seminare/Workshops on machinery hiring, agroservice centres and farm equipment production. He will also guide and assist in compilation of famining memuals and in carrying out case studies on the functioning of hiring and servicing centres.

B <u>Short-term Consultants</u> 6 (2 to 1 man months per Expert)

At the expense of USAID, 6 Consultants in batches of 2 to 3 nos. would be provided for a period of 2 to 4 months to study the existing facilities and improvements needed in;

(a) demonstration programs,

- (b) part supply and distribution, BEST AVAILABLE COPY
- (c) repair and maintenance facilities,
- (d) machinery hiring with special reference to program/s of custom services in machinery hiring and establishment of agro-service centres.

and also assist in organizing Seminars/Workshops on the above and related subjects at Budni, Hissar Centres and Agro-Industries Corporations.

III. FARTICIPANT TRAINING: 20 4 man-months each)

Training for 20 participants with emphasis on selected. programs of Agricultural Machinery and Implements having a high priority as par the following dotails are proposed:

A. Farm Equipment Deuten and Testing: 1(a man-months)

One participant from Tractor Training Centres, Budni/ Hissar, 3rd Training Centre

B. Farm Foulnment Demonstration & Trainings 1(4 man-months) One participant from Ministry of Food and Agriculture/ Budni and Hissar Centres.

C. Farm Machinery Productions 3(4 man-months each)

Out of the three one each will be from Govt. of India and Agro-industries Corporations handling production of agricultural machinery and the remaining one out of a leading manufacturer, who has done pioneering work in the manufacture of agricultural machiner (power tillers, seed-sum-fertilizer drills, threehers, potato machinery, etc.). The manufacture to be sponsored by Agro-Industries Corporations of their respective States

D. Servicing, Parts Management and Custom, Hiring/ Agro-Service Cantres: 10(3 man-months each)

The participants under this program will be nominees of Govt. of India, Agro-Industries Corporations mechanized farms,

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ate, the participants to be responsible for planning and organizing hiring, servicing, etc. of agricultural mechinery and may also include Govt of India a nominess from Training Centres, etc.

E Survey Study Teame: Soit to 2-man months)

Out of this, 5 nominees will be from Gost. of India/ Agro Industries Corporations and 3 will be from Agricultural Machinery Industry. The nominees of industry will be from small and medium sectors with foreign collaboration and are leading semufacturary in the small and medium sectors, who on their initiative have taken up design, development, production and popularisation of new agricultural implements and machinery. The Team will study face machinery production and after-sale services being relevance to indian conditions. Busides USA, the itinerary may include one or more other countries which would help in achieving the over-all objectives of the visit

IV OTHER U.S. INFUTS

in order to assist the Machinery Section with development of the farm machinery industry USAID will provide super project funds for a Farm Machinery Seminar, a demonstration service manual and an implement field trial program. Further assistance may be provided for in-service training programs, Seminare, Symposis and supporting demonstrations.

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## V. GOVERNMENT OF INDIA INPUTS

Standard provisions; office space, furnishings, secretarial services, and counterparts for requested specialists.

4

TABLE 1 - SPECIALISTS

Subject	Regultred 1972	Projected 1973
Agricultural Engineer (Ferm Machinery)	1/12	1/12 .
TABLE II - CONSULTANTS		
3860347 tosidue	Roquired 1972	Projected 1973
	6/2	6/2
TABLE 111 - PARTICIPANTS	~	
Subject	Required	<u>Frolected</u> 1973
Denign and Testing		
Production and Management	3/12	
Laonstantion & Training		To be deter- minsd
Servicing & Custom Hiring	0/30	
Surrey/Study Team	8/12	
Rume o aler	- Mist	2. 500 0D.
Office of Agricultural Development USAID New Delhi		Food, Sgriculture velopment and

Dates 30 march 1971

Cooperation, New Dolbi 2 mod April 1971 Dates

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Country:	PROJECT DATA	•	
Increased Agriculture Inputs	Agriculture and Natural Resources		TABLE III
PROJECT NUMBER 386-11-190-367	PRIOR REFERENCE Page 59, FY 1969 PDB	INITIAL OBLIGATION	TA . SCHEDULED FINAL OBLIGATION FY. 1973

Project Target and Course of Action: The Government of India has clearly recognized the crucial role of improved seeds and adequate supplies of fertilizer, pesticides and farm implements to support significant progress in agricultural output. The Indian farmers have eagerly purchased seeds and fertilizer when these are available and the prices are right. Continued increase of output can be realized if the quality and volume of these inputs are improved or increased.

The project is being extended until FY 1973 because the task of developing and improving programs in seeds improvement, plant protection, and farm mechanization is greater than was foreseen, and because the Government of India is planning expanded programs in some of these sub-activities.

<u>Progress to Date</u>: U.S. advisors have helped the Government of India, the Fertilizer Association of India (private) and the Fertilizer Corporation of India (FCI) (public) in various ways including: assisting in fertilizer seminars and conferences designed to stimulate industry distribution and marketing programs; serving on the expert committee conducting a study of fertilizer credit; and planning a comprehensive all India fertilizer demand and marketing study that the FAI will do under contract to A.I.D. A major effort in the next two years will be establishing and training a staff for a central marketing division in FCI.

In June 1968 A.I.D. signed a contract with Mississippi State University to provide a four-man team of seeds specialists to work with the National Seeds Corporation (NSC) for two years. The Chief of the group arrived in India in December and has begun his work. Initial efforts are being focused on upgrading seeds production, processing, storage and marketing capabilities of the NSC. An important longer run task will be to assist the Government in encouraging increased private sector participation by helping organize trade associations at the national and state levels.

The first annual meeting of the Indian Pest Control Association, supported by the Mission, was held in FY 1968. A program involving the use of locally fabricated steel bins to demonstrate effective rodent control storage at the farmer-village level has been prepared with the Food Department of the Government. U.S. technicians assisted the private sector with advice on the formulation of pesticides and on general matters relating to production, promotion, and use of pesticides. If the Government develops firm plans, additional U.S. advisors will be provided to assist in a country-wide education and demonstration program on rodent control.

	· · · · · · · · · · · · · · · · · · ·	1	U.S. DOLLA	R COSTS (In Thousan	ds)						1	<b>&gt;</b> c
	Obligations	Expenditures	Unliquidated		PRINCIPAL CONTRAC		PRINCIPAL CONTRACTORS/AGENCIES Mississippi State Univ.	<b>&gt;</b> 5				
Through 6/30/68	940	468	472		Est	imated FY	1969	Pro	posed FY	1970	U.S. Department of Agri-	0 2
Estimated FY 69	560	540		Cost Components	Direct AID	Contract/ Other	Total	Direct	Contract/ Other	Total	culture(USDA)	
Estimated hrough 6/30/69	1,500	1,008	492	U.S. Technicians	170	15/50	235	210	Agency 120/50	2 380	<b>4</b>	
	•	Future Year Obligations	Estimated Total Cost	Participonts Commodities	<u>320</u> 5		<u>320</u> 5	337 8	-	337 8		עץ
Proposed FY 70	725	1,800	4,025	Other Costs Total Obligations	495	- 65	- 560	 555	170	- 725		4

Country:	PROJECT DATA		TASLE III
PROJECT TITLE	ACTIVITY	······	FUNDS
Increased Agriculture Inputs	Agriculture and Natural Resources		TA
PROJECT NUMBER 386-11-190-367	PRIOR REFERENCE Page 59, FY 1969 PDB	FY: 1967	SCHEDULED FINAL OBLIGATION FY: 1973

At the request of the Ministry of Food and Agriculture, the farm machinery advisor prepared a list, including a catalogue of supporting information on U.S. manufactured agricultural machines and implements suitable for use in India. This list will be used in developing agricultural machinery imports for trial use and possible manufacture by the private sector.

Encouraging progress had been made in the development of new oilseeds processing plants in the cooperative sector. With the assistance of the U.S. technician, the oilseed processing plant at Sangli has improved its plant management, increased the efficiency of oil extraction, increased total production, and operated for the first time at a profit.

During FY 1969, some 80 participants are scheduled to receive training of 4-6 months each in such areas as fertilizer credit, fertilizer statistics, seed production, processing and marketing, rodent control, grain storage, and tractor use and testing.

<u>FY 1970 Program</u>: U.S. experts will continue to: assist in conducting demonstrations, seminars, and training r ograms for both public and private fertilizer organiations as well as provide advice to the Indian Government on steps needed to improve fertilizer production and distribution; work with the NSC in

increasing and improving the production, processing, storage and marketing of seeds; advise in the development of training and demonstration programs to improve grain and food storage facilities, plant protection surveillance and control activities and a nationwide training and mass education program for rodent control; and help develop and test new farm machinery and assist the nascent agricultural equipment industry. U.S. Technicians: A total of 12 U.S. technicians: 1 coordinator; 2 direct-hire fertilizer advisors; 14 contract seed production specialists; 1 PASA entomology advisor; 1 direct-hire entomology advisor; 1 direct-hire rodent control specialist; and 2 direct-hire farm machinery engineers; 8 short-term PASA fertilizer consultants and 8 short-term direct-hire farm machinery consultants; and 1 direct-hire advisor who coordinates the program.

<u>Participants</u>: A total of 85 participants will be brought to the U.S. for training and observation tours. Fiftyfive participants will receive 4 months training in fertilizer production, distribution marketing and sales services. Fourteen will receive 6 months training in seed production, certification, marketing and proces: ng. Ten participants will be training for 6 months in the testing of pesticides and grain storage; 6 will study tractor use and testing in the U.S. for 9 months each.

<u>Commodities</u>: Demonstration materials, prototype implements, training aids and materials not available locally.

<u>Contract</u>: A contract of \$120,000 to fund a one-year contract for a four-man seed team.

<u>PASA</u>: \$50,000 to fund one full-time entomology advisor and 8 USDA fertilizer consultants for 2 months each.

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AID 1850-1 (8-63)		DEPARTMENT OF STATE			eet 🕱	Issuance	PAGE 1	OF 7 PAGES	
	AGENCY F International de		r		ting Country	-	2. PIO/T	 No.	
PIO/T			┝	INDL 3. Project/	<u>A</u> Activity No.	and Title	386-	367.3-3-10087	
ACTION	PROJECT IMPLEN		•		11-190-3		PD-1	(AD - 115	
REQUEST	ORDER/TECH SERVICES					INPUTS		PMENT	
	4. Appropriation Symbol	5.	a. Allot	ment Symbo		tection		ds Allotted to:	
	Mixed - See Block								
	6. Obligation Status Administrative			_			7. 🕱 0	ricinal or	
	Reservation	Obligation		X by ]	is Oblig TroAg	ated	Amer	ndment No.:	
	8. No. of Technicians 그	9. Services Between: J			'r.) Feb <b>. '</b> 71		on (Months) ces24		
	11. o. Type of Action	Cooperating		Pa	rticipoting A	gency	ces	b. Of Financing_24	
	11. b. Authorized Agent	Country Con		Se	rvice Agreem	ent	Other		
	Finoncing				T		<u> </u>		
	$\$1.00 = Rs \cdot 7.60$ 12. AID Financing			B. Increose		C. Decrease		D. Total to Dote	
	a. Dollors			1	4,700			44,700	
	b. U.SOwned Local Currency			<u> </u>					
	13. Cooperating Country Contributions				<u> </u>				
	a. Counterpart								
	B. Other (\$ Eqv.)			Rs. 22	9,200 0,158)			Rs. 229,200 (30,158)	
14. Mission ' References	15. Objective for which the T	echnical Servi	ices are			<b>4</b>		(0)92909	
	India's steady	progress	in i	ncreasi	ng food	rain pr	oductio	n for the last	
AR #AG <b>-7</b> 0-09	3∞4 years has c	reated of	ptimi	sm that	she car	1 attain	selfes	ufficiency in	
oAg (Agrmt.	foodgrains duri	ng the m	id-19	70s. H	owever,	a consi	derable	amount of	
Am. #1 و143 Am.	foodgrain is lo Current losses	are esti	mated	ect pes at 15	to 20%.	Tt is.	and pla	nt diseases.	
o Supp. #4) - ev. 1 dtd.	that appropriat minimum.	e measure	es be	taken	to reduc	e these	high 1	osses to the	
/29/70	India needs organizational and taskates lines in a second								
	India needs organizational and technical know-how to develop and carry out coordinated, effective programs to prevent excessive losses of								
							(	Continued)	
	16. Mission Cleorances	1	Date		Mission Cle	aronces		Date	
	17. Date of Original Issuance January 12, 1971	<u>_</u>			of this Issuer Lary 12,			I	
19. For the Choperot	ing Country				·	LY L Internationa	Develop		
	nditions set forth herein are he	reby ogreed to	<b>:</b>				. Developme	3117	
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ND 1850-1 (8-63)	DEPARTMENT OF STATE	💭 Worksheet 🔀 Issuance	PAGE 2 OF 7 PAGES			
	AGENCY FOR INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	РЮ/Т №. 386-367.3-3-10087			
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.3 AGRICULTURAL INPUTS DEVELOPMENT (Plant Protection)				

21. Scope of Technical Services

A. Description

The Plant Pest Control Advisor should be experienced in all phases of pest control matters and programs. His primary duties will include:

- (1) Assist the Directorate of Plant Protection, Quarantine and Storage, with pest control programs.
- (2) Assist the Storage and Inspection Division, Department of Food and the Food Corporation of India with protecting and safeguarding foodgrains in transit and storage.
- (3) Assist the Farm Advisory Unit of the Extension Directorate with demonstrations and other educational programs for plant and food protection and pest control.

-				(Continued)	
E	3. Technicians (1) (a) Number	(b) Specialized Field	(c) Grade and/or Salary	(d) Duration of Assignment (Man-Months)	
·	1	Plant Pest Control Advisor	\$19,600 p/year	24	

(2) Duty Post and Duration of Technicians' Services

New Delhi, with travel to other points in the country as and when required - two years.

(3) Access to Classified Information

Through CONFIDENTIAL.

(4) Dependents 🛛 🖾 Will 🖳 Will Not 🛛 Be Permitted to Accompany Technician

C. Financing Costs of Technical Services

(1) By AID - \$ 44,700

(2) By Cooperating Country -

Trust Fund Rs. 229,200 (\$ equiv. 30,158)

AID 1250-1 (8-63)	DEPARTMENT OF STATE	Werksheet 🔯 Issuence	PAGE 9 OF 7 PAGES
	AGENCY FOR International development	Cooperating Country INDIA	PIO/T No. 386-367-3-3-10087
<b>PIO</b> /T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.3 AGRICULTURAL INPUTS (Plant Protection)	

22. Equipment and Supplies (Related to the services described in Block 21 and to be procured outside the Cooperating Country by the supplier of these services)

A. (1) Quantity

(2) Description

(3) Estimated Costs

## NONE

**B.** Financing Costs of Equipment and Supplies

(1) By AID - \$ and (2) By Cooperating Country -

23. Instructions to Authorized Agent

Appropriation 72-1111004	Allotment	Amount
•	154-50-386-00-69-11	\$44,700
72=FT=800	147 <b>-</b> 50 <b>-</b> 386-00-69-00	Rs. 229,220 (\$ eqv. 30,158)

AID/W will negotiate and execute a Personal Services Contract with a qualified technician for the services requested herein.

(Mr. C. R. Madsen, 3419E Alvord Road, A-5, Tucson, Arizona 85706, has been suggested for this assignment.)

#### 24. Special Provisions

A. This PIO/T is subject to AID contracting regulations.

B. Except as specifically authorized by AID/W, or when local hire is authorized under the terms of a contract with a U.S. supplier, services authorized under this PIO/T must be obtained from U.S. sources.

C. Except as specifically authorized by AID/W, the purchase of commodities authorized under this PIO/T will be limited to the United States under Geographic Code 000.

AID 1380-1 (8-68)	DEPARTMENT OF STATE	🗔 Werksheet 🛛 🛐 Issuence	PAGE 4 OF 7 PAGES			
	AGENCY FOR INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	PIO/T Ne. 386-367.3-3-10087			
<b>PIO/T</b>	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.3 AGRICULTURAL INPUTS DEVELOPMENT (Plant Protection)				

Quarterly Reports.

Semi-annual Reports and others as specified by the Chief, Agricultural Inputs Division, Office of Agricultural Development, USAID/I.

End-of-Tour Report.

26. Availability of Bockground Information (Additional Information useful to Authorized Agent and Prospective Suppliers; if necessary, cross reference Block 21.B(3) above)

USAID Agricultural Inputs Division and Tecnnical Library; Directorate of Plant Protection, Quarantine and Storage, Storage and Inspection Division, Department of Food and the Food Corporation of India in the Ministry of Food, Agriculture, Community Development and Cooperation; and the State Department of Agriculture will provide necessary background data required by the technician.

27. Relationships of Supplier to Cooperating Country and to AID.

A. Relationships and Responsibilities The technician will work closely with the GOI and the State Government officials concerned with pest control programs, and will coordinate his work with the Chief, Agric. Inputs Division, USAID/I.

B. Cooperating Country Lieison Official Officials of host country agencies mentioned in Block 26 and 27-A above.

C. AID Lielson Officiels

<sup>25.</sup> Reports by Supplier of Services (Indicate type, content and format of reports required, including language to be used if other than English, frequency or timing of reports and any special requirements)

AID 11	180-1 (8-63)	DEPARTMENT OF STATE AGENCY FOR	- Worksheet	· 🔀 Issuance	PAGE 5 OF	7 PAGES		
_		INTERNATIONAL DEVELOPMENT	Cooperating Cour INDIA	itry	PIO/T No. 386-367	<b>.</b> 3~3 <b>-</b> 10087		
P	PIO/T PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES		Project/Activity No. and Title 386-11-190-367.3 AGRICUL/TURAL INPUTS DEVELOPMENT (Plant Protection)					
	······		C SUPPORT					
<ul> <li>28. Provisions for Logistic Support</li> <li>A. Specific Items (Insert "X" in applicable column at right. If entry needs qualification, insert asterisk and explain below</li> </ul>			Kind lied By	From Local Currency Supplied By				
	in C. "Comm	enfs")	AID	Cooperating Country	AID	Trust Fund Cooperating Country		
	(1) Office Sp	ace	x					
	(2) Office Ed	quipment	x					
	(3) Housing	and Utilities	x			-		
	(4) Furniture		x		1			
		d Equipment (Stoves, Refrig., etc.)	x					
		tation in Cooperating Country	x			x		
	(7) Interprete							
		national Travel, RT, Econ.Cl.				x		
pecny)	(7) 22 10	s. Excess Baggage				x		
		iem in India				x		
	(11) A110					X		
		sportation of HHE, etc.	····			x		
	(13) Othe:	r Costs				X		
	(14)			ļ				
	(15)				1			

B. Additional Facilities Available From Other Sources

The following facilities will be authorized to the extent possible and subject to the rules and regulations applicable to USAID/India direct-hire employees:

- (1) Money Exchange facilities
- (2) Commissary privileges
- (3) State Department Pouch facilities

#### C. Comments

A total of Rs. 229,200 (equiv. of U.S. \$30,158) will be provided from the Trust Fund Account (72-FT-800, 147-50-386-00-69-00) to be used wherever applicable for payment of or reimbursement for authorized logistic support expenses.

D 1390-1 (8-63)	DEPARTMENT OF STATE	🔲 Werksheet 🛛 🗷 Issuence	PAGE 6 OF 7 PAGES			
	AGENCY FOR INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	PIO/T No. 386-367.3-3-10087			
P10/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.3 AGRICUL/TURAL INPUTS DEVELOPMENT (Plant Protection)				
	FINANC	AL AGREEMENT				

#### A. Cooperati

Rev. #1

\_of the X PROAG or C Other underlying document signed on September 29, 1970 Pursuant to Makatika and subject to the amount shown in Block 13.D obove, the Cooperating Country will provide all local currencies required for the expenditures within the country, during the period starting on the Date of this issuance (Black 18 above) and ending on the Final Contribution Date of the [PROAG or other enabling document]: \_\_\_\_\_\_ March 31, 1973 authorized under this Project Implementation Order, with the acception of the following types of expenditures, which AID hereby agrees to assume:

88

B. As of the effective date of any contract or agreement executed under this Order, the country will establish in the name of the supplier of the services described herein, a local currency advance in the amount of:\_\_\_\_

30. AID Financing

Pursuant to the provisions of the obove-referenced Project Agreement or other document, and subject to the limitation of the Total to Date as shown in Block 12.D above, AID will provide all U.S. Dollar Currencies required for expenditures, during the period starting on the Date of this issuance (Block 18 above), and ending on the Final Contribution Date of March 31, 1973 authorized under this Project implementation Order, with the exception of the following types of expenditures which the Cooperating Country hereby agrees to assume:

CONTINUATION - PIO/T

Page 7 of 7

INDIA 386-367-3-3-10087

386-11-190-367.3 AGRICULTURAL INPUTS DEVELOPMENT (Plant Protection)

#### Block 15 - Continued

foodgrains from insects, rodents, jirds and other pests. The objective of this request for technical services is to provide the USAID/India with necessary staff competence to initiate, catalyze and assist the GOI, State Governments, and private agencies with pest control programs.

#### Block 21-A - Continued

- (4) Assist and work with specialists on the USAID-sponsored Agricultural Production and Agricultural University Development Teams with State pest control programs.
- (5) Work with and assist the USAID Plant Protection Training Advisor with educational programs at the Central Plant Protection Training Institute, Hyderabad.
- ( $\epsilon$ ) Advise USAID officials on problems relating to rodent control and food protection.

#### Minimum Qualifications to be met by Technician

The individual selected for this assignment should have training in entomology and the biological sciences dealing with animal (insects, modents, binds, etc.) and plant pests (weeds, fungi, bacteria, etc.). Though a Bachelor of Science degree is a minimum requirement, a post-graduate degree is preferable. He must have adequately demonstrated competence in planning, supervising, and evaluating significant plant pest control programs at the State or National level in Government or at a comparable level in private industry. He must have the temperament, capacity and inclination to work with and influence high-level government officials in program development and be able to advise and assist with planning and executing technical programs, sometimes under difficult, often hardship conditions. Eact, pettance, imagination, perception, initiative, practicability, and an understanding of human relations are qualities which will contribute to his success.

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- (5-70)	drpartheny of staye Agency Pon	3. Cooperati	ng Country INDIA	Paper 1	Paper is of 2 Pages		
	INTERNATIONAL DEVELOPHENT	2. PIO/T No		3. [7]			
PIO/T		386-367.3-3-10087 Amendment No]					
	PROJECT IMPLEMENTATION	4. Project/Activity No. and Title 386-11-190-367.3					
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	7. Obligation Status Funds obl 198	ted by ProAg		Funding Period (Ma.			
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					Mr. Cyde		
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## Page 2 of 2 Pages

# PIO/T No. 386-367.3-3-10087, Amend. 1

386-11-190-367.3 AGRICULTURAL INPUTS DEVELOPMENT (Plant Protection)

## REVISED RUPEE BUDGET FOR 24 MONTHS

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I. U.S. PERSONNEL COSTS	-	_	
Allowances	Re.	Rg.	Re <sub>e</sub>
Quarters Allowance Post Differential	18,790 29.450	48,240	)
International Travel			
Post Assignment Separation	<b>15,</b> 960 <u>30<b>,</b>000</u>	45.960	94,200
II. COMMODITIES			
Equipment & Supplies			20 <b>,0</b> 00
III. DEMONSTRATIONS, SEMINARS, RESEARCH,	ETC.		30,000
IV. OTHER COSTS			
Within India Travol & Per Diem	Maker David		36,000
	Total Requirement		Rs.180,200
	Funds Provided i Original PIO/1	u uns	Rs.229,200
	Balanco Availabi		representation of the second second
	Deobligation		Rs. 49.000

AID 1350-1 (7-71)		MENT OF STATE	1.0	Cooperating	Country	<b>Maria Maria</b>	Paga 1	of <b>1</b> Fr		
		ENCY FOR NAL DEVELOPMENT		FIO/T Ne.	.3-3-1008	7	3. 0	Original or		
P10/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES (Plant Protection)									
OBTRIBUTION	5. Appropriation : Multaple -	6.A. M	6.A. Allotment Symbol and Charge 6.B. F				unds Allotted to:			
	7. Obligation Stat	e Roservation	and a constant	menting D	CORTAN AND A COMPANY OF AN	8. Funding	Period (28	A.I.D./V EIN , Day, Yr.; 		
	CONTRACTOR OF THE OWNER	18/71 (140., Day, Vr.)	and Depert	ed post	<b>3/15/</b> 73	9.8. Comple (Mo., 1				
	10.A. Type of Act A.1.D. Contruc 10.B. Authorized A	Cooperation	9 miract [	Particip ] Service	ating Agency Agreement	[] Olhar			Tokreigys	
		ALD/W								
	Estimated \$1.00= Rg.7.6	Pinoncing O	(1) Pravious 7	Fotul	(2) Increaso	Dec	(3) 10932	(?) Total to D	sacaren Seto	
	Moximum	A. Dellars	44,7(	00	1,600		2994) - 2007 - 220 W <u>2</u>	46,30	0	
	A.I.D. Financing	B. U.SOwned Local Curroncy			SCARLER STREET,	PUBLIC STRACTIONAL D	ar Púrik Back, 1°, 6041		1.1411/021211	
<b>N</b>	12. Cooperating	A. Countarport			Grandfrack i Juria (kryl) v 1974		анны алым атуу т, ж. н.	2	*****	
· · · · · · · · · · · · · · · · · · ·	Country Contributions	Trust Fund Bomer Rg.	180,20		LANDY CHYLE, BURGLES HILLE		TROCATION CLANICE	180,200		
12. 1813 A 100 614 A 200180 A	14. Instructions to	diana and a second and a second s		raffer f nongal series and series	nation i l'information annues anno 1	a turber installer in wir my ber	<b>reac</b> , alstrati et com	(23.71)	(, ) Néver m	
:oAg # 143,	2	rigtion		loimen		1 DA	mnt			
nendment # 1, plement # 4.	72-112 72FT80		,254,-50 1,4750	1-386-01 1-386-01	0-69-33 0-69-00		5,300 1.200 (	\$Eq.23,71	17)	
be adjusted	The purpose order to me	of this anen de final pays	dment is eat to th	to pro	ovido sho	rtfal] i	in doll	ar funds	in	
ilaterally.	order to make final payment to the contractor. Except as amended herein, all other provisions of the original FIO/T and its amendment #1 remain unchanged.									
	(Ref: Cont	ract AID/Nes	a-523)w	ith Mr	. Clyde I	R. Made	en.)			
15. Cloureness - 1	Shew Office Symbol,	Signature and Data for	COLUMN STREET,	Conversion and states and	THE PARTY OF A PARTY O			71 2: 515 1.2.35 ft	102001211428	
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16. For the constru- sot forth harain	ting country: The se tire horeby agreed to	ernititinos bro entiti o	17. For th	a Agoncý S	or Internationa	1 Dovelopmen	11 /1	8. Deta of Sig	n41 <b>1/0</b>	
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Signature and date:			Signature :		d E. Hous ter-Direc		<b>.</b>	June 29,	191	

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AIƏ 1350-1 (9-70)	AC .	MENT OF STATE	<b>1</b>	Cooperation INDIA	g Country		Page 1			
	INTERNATIO	INTERNATIONAL DEVELOPMENT		PID/T No.	× •) ~ ~~~	· · · · · · · · · · · · · · · · · · ·	3. 🖂	Original or		
PI0/T			Ļ		7.3-2-2007	-	Am	Indaiso Ho1		
		MPLEMENTATION R/TECHNICAL	~	365-11-	-1.90-367.3	" <b>" PD</b> -	AAD	- 115		
COURST		irvices			JTS DEV -		otecti	.cn		
DISTRIBUTION	1974-19 <sup>1</sup> 19-197 6-16-199 (197 19 <b>19)</b> 1974-19 <sup>1</sup> 19-197 6-16-199 (197 19 <b>19)</b> 1974-197 1974 6-16-1974 (1970)			A. Alialasa	it Symbol and Ci		4 8 6	3 Allotted to:		
		- See Block 14	54		le - See E		-	A.I.D./g G Mission		
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	an an ann an	AID/W thro	ugh De	partmen	t of Agri	culture	PASA	# NESA(AJ)-13-		
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mg # 145	72F1800					0-386-00-69-21				
and. # 2										
	ine purpose	of this PIO/T	9menai	ment is	to reduce	e dollar	and m	apes thinds		
	as per dece	if estimated re- Lis in the rev	yuurom isod ha	ents th Holger a	rouga 3/33 tuguhad.	L/72 (see	o neia i	BLHI 611)		
:	Except aner	as per details in the revised budget attached. Except amonded herein, all other provisions of the original PNO/T reprin								
	unohanged.	na fa mer av Statustikaj de mine jer tile žitel av ar	an di mara n' Saradi an	1.35 Mail: another Riverson		يى ئامىلا <sup>رى م</sup> ەربايەت تەربايەت	يه المحقوة والمهامين والمادية.	ارد. روار ویاری در از این میکوه وه مواهد که به مه به د		
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	elling country: The t era haraby agreed to		17. Fer 1	the Ageacy	for International	Developmen	¢	18. Delo di ispusica		
Signature and data			Signalur	Man L.	Paul Usch	ل 11		March 16, 197		
Construction of the local data	موجد عصاري بالشهر ليأت والمتشاقة عاقتهما									
Titles			Titlas	7H-	eotor (A)	4	•			

		16TXX	72 PASI	FY1972 PASA REVISED BUDGET - DOLLARS	<u> 10027 - D</u>	OLLARS	PIO/T: 386- 386- 10 I	386-267.3-2-2007. 386-11-190-367.3 40 INPUTS DEV - 1	PIO/T: 386-367.3-2-20079, Azend. 1 386-11-190-367.3 40 INPUTS DEV - Plant Protection	1 tection
Position	FC Grade	FC Grade Rate	R/H	Selary	Džf£.	Yotal	Pors. Benefits	Int' 1 Travel	Trans. of Things	
Extomology Advisor (SEP 3/31/72)	10/5	10/5 20,120	ទ្	16, 772, BJ	úī0°£	19,793	<i>342</i>	250	775	22,160
					Отегр	Overhead: 15%				105 5
					Tcta1	FY1972 R	Total FII972 Requirement			125.484
					Lggs:	Carryove	less: Caryover from prior year PIO/T 10011	Toar PID	LTOOL T	3,050
Trainder and	1				Frovi	ded under	Provided under this FIO/T Amendment	Amendment		767 737
pryment for accrued leave.	salary as save,	lungam							ło	<b>1</b> 22,500
		-	U.S. P	U.S. Fereomel	Connodities		<u>10;81</u> 8			
Inpute thru FI1971			26	56, 580	2,000	~ \	58 <b>,580</b>			
Accurad Expanditure thru 6/30/71	6/30/71		53	53,530	2,000		35°,530			
Pipeline as of 6/30/71			ŝ	3,050	1		3.050			

Page 2 of 3 Pages

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		U.S. Personnel	Comradities	<u>Tota</u> 1 8
Inputs thru FI1971		56, 580	2,000	58.580
Accuraci Expenditure thru 6/30/71		23,530	2,000	55,530
Pupeline as at 6/30/71		3,050	9	3,050
Indget for F11972		25,500	an Giren higher gart wa	25,500
·PARTNER BIDS BIDS AND		22,450	ð	22,450
	011	22,500	alla corrictionalera Laire Cantanna Cantanna	22, 500

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# Page 3 of 3 Pages

# PIO/T: 386-367.3-2-20079, Amend. 1

386-21-190-367.3 AG INPUTS DEV - Flant Protection

	SVIC	72 PASA REVIS	ED BUDGET - R	UPLAS		
I,	U.S. PERSONNEL COST	9		Rea		Re.
	Allowances					
	Quarters			8,600		
	International Trave	1				
	Separation			32,200		39,800
II.	OTHER COSTS					·
	Within India Tra Vehicle Maintena Printing & Suppl	nce	3	12 <b>,500</b> 9,000 5,000		
	Miscellancous		~	2,700	win good	29,200
	Totel	Requirement !	FY19723		Reof	69,000
		Cerryover from ce Frovided un	prior years; nder this PIO/I	. Amoriamour		<u>4.400</u> 24 <b>.600</b>
		U.S. <u>Personnel</u>	Convedition	DSR	Other Costs	Total
Cum. Cum.	Inputs thru FY71 Acc. Exp. thru	48,245	5,000	20,000	61,000	1.34,,245
F1 Pipe	71 Jine 6/30/71	53, <u>845</u> (5,600)	5,000	20,000	<u>36,000</u> 25,000	<u>39.845</u> 44,400
	sed Budget for FY72	39,800		ala 1977 - Maria Angelan, Angelan	29,200	69.000
	Funding Provided der this PIO/T endment	45,400	(5,000)	(20,000)	Å <b>,</b> 200	24,600

AID 1850-1 (8-63)	DEPARTMENT	OF STATE		Worksheet		ssuance		<u>D-115</u>
	AGENCY INTERNATIONAL D		ł	1. Cooperating		ssudnce	2. PIO/1	OF 9 PAGES
PIO/T			ļ	INDIA			386-	-367-4-3-00110
	PROJECT IMPLE			3. Project/Act 386-11-	ivity No. 1 190-36	and Title 7.上		
	ORDER/TECH			AGRICUL			DEVELOF	MENT
	SERVICE					ments)		
	4. Appropriation Symbol Mixed - See Bloc	:k 23   5. o	. Allot Aixeo	ment Symbol & 1 - See B	Charge Lock 2	3	5. b. Fun	ds Allotted to: W 🔯 Mission
	6. Obligation Status	Action F	Reque	est				Driginal or
	Administrative Reservation	Obligation		Funds by Pro	Oblig <b>a</b> Ag	ted		ndment No.:
	8. No. of Technicions 5	9. Services to Between: 1/	Start	(Mo., Day, Yr.)	/15/70		on (Months)	b. Of Financing2
	11. a. Type of Action	Cooperating			ipating Ag			U. Of Financing
	X AID Contract	Country Contr	act	Servic	e Agreeme	nt	🔲 Other	
	11. b. Authorized Agent	AID/	W					
	Financing \$1.00 = Es. 7.60	A. Previous	Total	B. Incre	a s e	C. De	creose	D. Total to Date
	12. AID Financing							
	a. Dollors			20,	000			20,000
	b. U.SOwned Local Currency							
	13. Cooperating Country Contributions					<u> </u>		
	o. Counterpart Trust Fund	·						
	b. Other (\$ Eqv.)			Rs. 93,				Rs. 93,300
. Mission	15. Objective for which the 1	Technical Servic	es ore	(12, to be used (Des				(12,276)
References								
g (Agrmt. • 143.	The Ministry of a high priority	r rood and r on the do	Agr. wol	iculture,	Gover	nment o	f India	, has placed
pp. #3)	ment industry.	At preser	nt.	tractor i	npleme	nt owne	rshin e	versues 72
D A <b>-</b> 433	implements per	tractor	- too	o low for	effic	ient ut	ilizati	on of tractor
	power. The exp	pansion in	cuT.	tivation (	of hig	h-vield:	ing var	ieties has
D A-1022	accelerated the the returns fro	emand ic	or mo	ore timel;	y and '	thorough	1 culti	vation while
O CIRC-	quired for inve	stment in	add:	itional m	wer a	od mach.	i the r inerv.	esources re-
143	-			P.		.u macii.	urci y •	
							(c	ontinued)
	16. Mission Clearances	Da	ite	Mis	sion Cleor	ances		Date
	· · · · · · · · · · · · · · · · · · ·							
	1			Í				
	17. Date of Original Issuance	- <u> </u>		18. Date of th	is Issuer		······································	
	January 26, 1970	0		18. Date of th Janua	is Issuence ry 26.			
	January 26, 1970	0			ry 26,	1970	Developme	int
For the Cooperc The terms and co	January 26, 1970	0		Janua	ry 26,	1970	Developme	unt
	January 26, 1970	0		Janua	ry 26,	1970	Developme	unt

AID 1380-1 (8-63)	DEPARTMENT OF STATE AGENCY FOR	🗌 Worksheet 🛛 Issuance	PAGE 2 OF 9 PAGES
	INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	PIO/T No. 386-367.4-3-00110
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.4 AGRICULTURAL INPUTS DI (Farm Implements)	
	SCO	PE OF WORK	

### 21. Scope of Technical Services

A. Description

The Consultants will be expected to tour the established farm equipment manufacturers to analyze current design, production and marketing capabilities and limitations. Their comments and recommendations will be presented and discussed during the seminar program. Each consultant will be provided a specific tour program and study assignment. The details of touring and study are presently in preparation. The Consultants' fields of specialization will be:

- (1) Combines and Grain Harvesting Machines
- (2) Potato Machinery
- (3) Seeding and Planting Machinery
- (4) Implement Demonstration and Sales Programs
- (5) Implement Parts and Service Programs

Specifically, the scope of work will be predicated on and include the following:

B. Technicians			(Continued)	
			(d) Duration	
(1) <u>(a) Number</u>	(b) Specialized Field	(c) Grade and/or Solary	of Assignment (Man-Months)	
5				
2	Farm Equipment Specialists	(See Contract)	2 each	

(2) Duty Post and Duration of Technicians' Services

New Delhi, with travel to other points in the country as and when required.

(3) Access to Classified Information

None required.

t	4)	Dependents	

🔲 Will 👘 🖾 Will Not

### Be Permitted to Accompany Technician

C. Financing Costs of Technical Services

(1) By AID - \$ 20,000

(2) By Cooperating Country. Trust Fund Rs. 93,300 (\$ equiv. 12,276)

AID 1380-1 (8-63)		Worksheet 🖸 Issuence	PAGE 3 OF 9 PAGES
	AGENCY FOR INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	PIO/T No. 386-367.4-3-00110
РЮ/Т	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.4 AGRICUL/TURAL INPUTS (Farm Implements)	DEVELOPMENT

22. Equipment and Supplies (Related to the services described in Block 21 and to be procured outside the Cooperating Country by the supplier of these services)

A. (1) Quantity (2) Description

(3) Estimated Casts

#### NONE

#### **B.** Financing Costs of Equipment and Supplies

()	) By AID	- \$	45	(2) By C	cooperating Country -	

23. Instructions to Authorized Agent

Appropriation	Allotment	Amount	
72-1101004	054-50-386-00-69-01	\$20,000	
72-FT-800.1	147-50-386-00-69-00	Rs. 93,300 (\$ Eqv. 12,	276)

AID/W will negotiate and executo a Task Order under the Contract with Agriculture Cooperative Development International (ACDI).

#### 24. Special Provisions

A. This PIO/T is subject to AID contracting regulations.

B. Except as specifically authorized by AID/W, or when local hire is authorized under the terms of a contract with a U.S. supplier, services authorized under this PIO/T must be obtained from U.S. sources.

C. Except as specifically authorized by AID/W, the purchase of commodities authorized under this PIO/T will be limited to the United States under Geographic Code 000.

DEPARTMENT OF STATE	🗀 Worksheet 🛛 🔀 Issuence	PAGE 4 OF 9 PAGES
INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	PIO/T No. 386-367.4-3-00110
PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.4 AGRICULTURAL INPUTS (Farm Implements)	
	AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT IMPLEMENTATION ORDER/TECHNICAL	AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES Cooperating Country INDIA Project/Activity No. and Title 386-11-190-367.4 AGRICUL/DURAL INPUTS

25. Reports by Supplier of Services (Indicate type, content and format of reports required, including language to be used if other than English, frequency or timing of reports and any special requirements)

A draft copy of the Final Report of the team will be submitted to and discussed with Mission officials prior to departure of the team from India.

26. Availability of Background information (Additional information useful to Authorized Agent and Prospective Suppliers; if necessary, cross reference Black 21.B(3) above)

The Inputs Division in the Office of Agricultural Development, USAID/I, the Technical Library, the Ministry of Food and Agriculture, and private industry will provide necessary background information.

27. Relationships of Supplier to Cooperating Country and to AID.

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A. Relationships and Responsibilities The consultants will work with the Inputs Division, USAID/I, the Farm Implements Section in the MFA, and the farm equipment manufacturing units in both public and private sectors.

B. Cooperating Country Lieison Official Officials of the host country organizations mentioned in A. above.

AID 1	880-1 (8-63)	DEPARTMENT OF STATE Agency for	Worksheet		PAGE 5 OF	9 PAGES
	INTERNATIONAL DEVELOPMENT		Cooperating Country INDIA		<b>РЮ/Т №.</b> 386-367.4-3-00110	
	PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES				
		LOGIST	IC SUPPORT			
	<ul> <li>Provisions for Logistic Support</li> <li>A. Specific Items (Insert "X" in applicable column at right. If entry needs qualification, insert asterisk and explain below in C. "Comments")</li> </ul>		In Kind Supplied By		From Local Currency Supplied By	
			AID	Cooperating Country	AID	Prust Fund Cooperating Country
	(1) Office Spa	c•		x		
	(2) Office Equipment			x	†=·	
	(3) Housing an	nd Utilities				
	(4) Furniture					
	(5) Household	Equipment (Stoves, Refrig., etc.)				
		tion in Cooperating Country	x			x
	(7) Interpreter			x		<u> </u>
Other: (Specify)	(8) Interna	attonal Chevrel, Mr. Rec. dt.				x
(Specity)	$\underline{m} \underline{z} \underline{z} \underline{z} \underline{u} \underline{s}$	· Excess Persare				x
		om in Todia				x
	(11)					
	(12)					
	(13)					
	(14)					
<u> </u>	(15)					

B. Additional Facilities Available From Other Sources

The foll wing theilition will be sutherized to the extent possible and subject to the restant regulations applicable to USAID/India direct-hire employees:

(1)

(2) (3)

Money exchange Commissary State Department Pouch facilities

C. Comments

In accordance with the Agreement dated May 9, 1956, between the Government of India and the United States of America, the Government of India is obligated to provide or finance the following itoms and facilities in support of the team's work:

(Continued)

AID 1880-1 (8-83)	DEPARTMENT OF STATE AGENCY FOR	🗆 Worksheet 🛛 Issuance	PAGE 6 OF 9 PAGES
PIO/T	INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	PIO/T No. 386-367-4-3-00110
	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 366-11-130-367.4 ACRIDULTURAL INPURS (Farm Inclements)	DEVELOPMENT
	FINANCI	AL AGREEMENT	

### 29. A. Cooperating Country Financing

Pursuant to paragraph \_\_\_\_\_\_ of the SPROAG or Other underlying document signed on <u>August 29, 1969</u> ond subject to the amount shown in Block 13.D above, the Cooperating Country will provide all local currencies required for the expenditures within the country, during the period starting on the Date of this Issuance (Block 18 above) and ending on the Final Contribution Date of the [PROAG or other enabling document]: <u>March</u> 22, <u>1970</u> authorized under this Project Implementation Order, with the exception of the following types of expenditures, which AID hereby agrees to assume:

\*\* ---

B. As of the effective date of ony contract or agreement executed under this Order, the country will establish in the name of the supplier of the services described herein, o local currency advonce in the amount of:

30. AID Financing

Pursuant to the provisions of the above-referenced Project Agreement or other document, and subject to the limitation of the Total to Date as shown in Block 12.D above, AlD will provide all U.S. Dollar Currencies required for expenditures, during the period starting on the Date of this Issuance (Block 18 obove), and ending on the Final Contribution Date of <u>March 31, 1972</u> authorized under this Project Implementation Order, with the exception of the following types of expenditures which the Cooperating Country hereby agrees to assume:

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CONTINUATION - PIO/T

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. Page 7 of 9

INDIA 386-367-4-3-00110

386-11-190-367.4 AGRICULTURAL INPUTS DEVELOPMENT (Farm Implements)

# Block 15 - Continued

A seminar on tractor implement development and production has been drawn up in support of this new agricultural priority. The purpose of this seminar will be to consider alternative courses of development and expansion in tractor implement production by established Indian farm equipment manufacturers, both public and private sectors. Investors interested in farm equipment manufacturing may attend the seminar if space permits. Short-term consultants will be utilized in this program to provide specialized analysis of some of the critical problems facing Indian Industry and to discuss solution alternatives that have been successfully used in the U.S. farm equipment industry.

The seminar is scheduled to be held March 16-21, 1970. This PIO/T provides for the services of five short-term consultants under contract for a period of about two months each. They will be expected to tour and study the current industrial situation and present their comments and recommendations in seminar papers. Specific topics to be presented by these consultants have been communicated to AID/W.

# Block 21-A - Continued.

(1) <u>Combines and Grain Harvesting</u> - Three manufacturers have begun resper development projects and several manufacturers are producing stationery wheat and rice threshers. Farmers now are asking for higher capacity harvesting machines and equipment. Manufacturers recognize this as a commercial potential equal to tractor manufacturing, but an entirely new field of operation. Froduction and marketing expertise will be required, but the immediate need is for guidance in the selection of designs for production.

The consultant should have experience in design and field development of tractor-drawn and small, self-propelled combines used in the harvest of small grains. Attention must be given to prototype design; field trial planning, execution and evaluation; and market projection based upon field trial results. Emphasis should be placed on simple techniques which are adaptable to a range of soil, crop and climatic conditions.

(Continued)

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CONTINUATION - PIC/T

Page 8 of 9

INDIA 386-367.4-3-00110

386-11-190-367.4 AGRICUL/TURAL INPUTS DEVELOPMENT (Farm Implements)

### Block 21-A - Continued

(2) Potato Machinery - Potato cultivation has become a profitable cash crop in the Northern Gangetic Plain. Farmers are limited in expansion of acreage by available planting and harvest season labor force. Many potato farmers are tractor owners and would like to use tractor power in both critical seasons. Indian know-how is minimal in both mechanized planting and harvesting.

The consultant should have experience in design and field testing of potato seeding and harvesting machines. Attention must be given to prototype design; field trial planning, execution and evaluation; and market projections based upon the results of field trials. Emphasis should be placed on simple devices and techniques which are adaptable to extensive field use.

(3) Seeding and Planting Machinery - Stress on better seeding and planting methods has been placed concurrently with the emphasis on the HYVs. Several Indian manufacturers have introduced local designs, but these have not become commercial successes. Improved machine performance is required -- necessitating design refinement and improvements in operational techniques. Demonstration and sales programs must also be developed to promote the proper operation and use of seeding machines. Primary interest is in wheat and maize, but interest is expected in sorghum and upland paddy.

The consultant should have experience in the design and field testing of seeding and planting machines, particularly for maize and small grains. Attention should be given to the development of feed-back communications to ensure that field problems are transferred to design modifications. The development of optional equipment and attachments for various soil, crop and climatic conditions is also an important problem area.

(4) <u>Implement Demonstration and Sales Programs</u> - Thus far, the typical approach of the farm equipment industry has been to concentrate on the building of manufacturing capacity while neglecting the organization of a coordinated sales capability. Dealers do not make significant investment in pre-season machinery inventories and manufacturers have not developed promotional programs to level the seasonal peaks in demand. Commercial banking institutions have shown some interest in expansion of financial assistance, but working agreements are few and limited in coverage. The result is that many good machinery designs are moving slowly for lack of adequate commercial infrastructure.

(Continued)

CONTINUATION - PIO/T

Page 9 of 9

INDIA 386-367.4-3-00110

386-11-190-367.4 AGRICULIURAL INPUTS DEVELOPMENT (Farm Implements)

### Block 21-A - Continued

The consultant should concentrate on introduction of sales programs which will produce volume sales for implements that have proven commercial potential. Attention should be given to demonstration, advertising and display, inventory management and market analysis. There is need for guidance in the training of sales personnel as well as guidelines for improved sales management.

(5) Farm Equipment Parts and Service Programs - An integral part of developing a reputation of reliability and ensuring high utilization of tractors is a good parts and service program. Most Indian manufacturers agree with this philosophy but are having difficulties in building their working organization. There is urgent need for workable business patterns of dealer franchising to improve the parts and service facilities.

The consultant should have experience in developing and supervising dealers parts and service programs. Attention must be given to dealer franchise megotiation, supervision and revision to accommodate new products and changing instructure. Dealers and manufacturers need guidance with improvement of parts and service facilities, management techniques, and promotional techniques to ensure good support for new products as they are instructured.

It is proposed that the consultants spend about four days in Turkey, prior to their arrival in India, which will provide them background on successful utilization of small-scale industries for fabrication of tractor implements.

### Block 28-C - Continued

Suitable office space, office equipment, furnishings and supplies, stenographic, secretarial, translation, interpreting services, and technical assistance required; and the cost of official communications.

To the extent that the Government of India does not adequately provide or make reimbursement for the items listed above, USAID/India will provide or reimburse for the same.

	DEPARTMENT OF STATE Agency for International development		T	Worksheet	Issuance	PAGE 1	OF 7 PAGES
			Þ	1. Cooperating Country		2. PIO/	Γ No.
PIO/T			┝	INDIA 3. Project/Activity No.	and Tisla		367-5-3-00096
				386-11-190-36	7•5	YD-1	AD- 115
	ORDER/TECH SERVICE			AGRICULTURAL (Oilseeds H		DEVELOP	
				ment Symbol & Chorge		1	ids Allotted to:
			<u>- See Block 2</u> st	3			
	Administrative				- da e e		Driginal or
	8. No. of Technicians	Obligation 9. Services to		E Funds Oblig			ndment No.:
	<u>1</u>	Between: 9/				ion (Months	) b. Of Financing_ <u>10</u>
	11. o. Type of Action	Cooperating Country Contr	oct	Porticipating /	gency		
	11. b. Authorized Agent	AID/W			16(1)	Other	
	Financing	A. Previous	Totol	B. Increase			
	\$1.00 = Rs. 7.60 12. AID Financing			D. meredse		ecreose	D. Total to Dote
	o. Dollors			07.000			07.044
	. U.S. Owned			27,000	-		27,000
	b. U.SOwned Local Currency						
	13. Cooperating Country Contributions						
	o. Counterport						
	Enust Fund b. Other (\$ Eqv.)			Rs. 127,500 (16,776)			Rs. 127,500
Mission References	15. Objective for which the T	echnical Service	es ore		<u> </u>		(16,776)
		(CLUSA). A request for these services has been received by the USAID from the Government of India.					
ATT-148016 V DEIHI- 12795	(CLUSA). A red from the Govern	under cont quest for ment of I	ract thes ndia	with the Coor e services has •	erative been r	League eceived	of the USA by the USAID
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V DELHI- L2795 L3459 For the Coopera	<ul> <li>Of ten months ( (CLJSA). A red from the Govern India is one of She is the larg rape, mustard a seed. Froducti</li> <li>16. Mission Cleorances</li> <li>17. Dote of Original Issuance September 18, 19</li> </ul>	inder cont quest for ment of In the major gest produce ind sesamum on and pro- 069	ract thes ndia r oi. cer ( m sec oces:	with the Coor e services has · lseeds produci of peanuts; se eds; and third sing of oilsee Mission Cle 18. Dote of this Issue September 1	erative been re ng count cond la: largest ds cont: oronces	League eccived tries of rgest pr productions tibute a	of the USA by the USAID f the world. roducer of cer of cotton significantly (Continued)
DETHI- L2795 .3459 For the Coopera	<ul> <li>17. Dote of Original Issuance September 18, 19</li> </ul>	inder cont quest for ment of In the major gest produce ind sesamum on and pro- 069	ract thes ndia r oi. cer ( m sec oces:	with the Coor e services has · lseeds produci of peanuts; se eds; and third sing of oilsee Mission Cle 18. Dote of this Issue September 1	erative been re ng count cond la: largest ds cont: oronces	League eccived tries of rgest pr productions tibute a	of the USA by the USAID f the world. roducer of cer of cotton significantly (Continued)
V DELHI- L2795 L3459 For the Coopera The terms and co	<ul> <li>17. Dote of Original Issuance September 18, 19</li> </ul>	inder cont quest for ment of In the major gest produce ind sesamum on and pro- 069	ract thes ndia r oi cer ( m sec oces:	with the Coor e services has · lseeds produci of peanuts; se eds; and third sing of oilsee Mission Cle 18. Dote of this Issue September 1	erative been re ng count cond la: largest ds cont: oronces	League eccived tries of rgest pr productions tibute a	of the USA by the USAID f the world. roducer of cer of cotton significantly (Continued)

AID 1380-1 (8-63)	DEPARTMENT OF STATE AGENCY FOR	🔲 Worksheet 🛛 🖾 Issuance	PAGE 2 OF 7 PAGES PIO/T No. 386-367.5-3-00096	
[	INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA		
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.5 AGRICULTURAL INPUT'S DEVELOPMENT (Oilseeds Processing Cooperatives)		

#### 21. Scope of Technical Services

A. Description

The technician provided under this PIO/T will be an oilseeds processing technological engineer who has worked with cooperatives and has risen to a managerial position. Managerial experience is essential. He will have the following duties:

- (1) Training counterparts at the national level to upgrade their competency in feasibility studies, plant design and specifications, etc. This leadership at the national level is essential to assist in the development of the cooperative oilseeds processing industry.
- (2) Providing practical in-service training for local cooperative management personnel.

(Continued)

B. Technicians			(d) Duration	
(1) <u>(a) Number</u>	(b) Specialized Field	(c) Grade and/or Salory	of Assignment (Mon-Months)	
1	Specialist with oilseeds processing technological background and managerial experience with cooperatives	(See Task Order)	lO	

(2) Duty Post and Duration of Technicians' Services New Delhi - with travel throughout the country. Mode of transportation will vary, with the use of airplanes, railroad, and automobiles, depending on the points of travel.

(3) Access to Classified Information

Through CONFIDENTIAL.

C. Financing Costs of Technical Services

(1) By AID - \$ 27,000

(2) By Cooperating Country - Trust Fun-(\$ equity-

AID 1888-1 (8-83)					
	DEPARTMENT OF STATE AGENCY FOR	🛄 Warksheet 🛛 🔀 Issuence	PAGE 3 OF 7 PAGES		
	INTERNATIONAL DEVELOPMENT	Cooperating Country INDIA	PIO/T No. 386-367.5-3-00096		
PIO/T	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Project/Activity No. and Title 386-11-190-367.5 AGRICULTURAL INPUTS DEVELOPMENT (Oilseeds Processing Cooperatives)			

22. Equipment and Supplies (Related to the services described in Block 21 and to be procured outside the Cooperating Country by the supplier of these services)

A. (1) Quantity (2) Description

(3) Estimated Costs

### NONE

B. Financing Costs of Equipment and Supplies

(1) By AID - \$	(2) By Cooperating Country -
23. Instructions to Authorized Agent	

Appropriation 72-1101004	Allotment	Amount
	054-50-386-00-69-01	\$27,000
72-FT-800.1	147-50-386-00-69-00	Rs. 127,500 (eqv. \$16,776)

AID/W will negotiate and execute a Task Order under the CLUSA Contract, AID/csd-267, for the services requested herein.

### 24. Special Provisions

A. This PIO/T is subject to AID contracting regulations.

B. Except as specifically authorized by AID/W, or when local hire is authorized under the terms of a contract with a U.S. supplier, services authorized under this PIO/T must be obtained from U.S. sources.

C. Except as specifically authorized by AID/W, the purchase of commodities authorized under this PIO/T will be limited to the United States under Geographic Code 000.

DEPARTMENT OF STATE	🗀 Werkshoot 🛛 😰 Issuence	PAGE 4 OF 7 PAGES	
INTERNATIONAL DEVELOPMENT PROJECT IMPLEMENTATION ORDER/TECHNICAL	Cooperating Country INDIA	PIO/T No. 386-367.5-3-00096	
	Project/Activity No. and Title 386-11-190-367.5 AGRICULTURAL INPUTS DEVELOPMENT		
	AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT IMPLEMENTATION	AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT IMPLEMENTATION ORDER/TECHNICAL Cooperating Country INDIA Project/Activity No. and Title 386-11-190-367.5 AGR TOULTUREAL INFORMATION	

25. Reports by Supplier of Services (Indicate type, content and format of reports required, including language to be used if other than English, frequency or timing of reports and any special requirements)

Quarterly, final, and ad hoc reports - as specified by USAID and GOI.

26. Availability of Background Information (Additional Information useful to Authorized Agent and Prospective Suppliers; if necessary, cross reference Black 21.B(3) above)

Mission Technical Library and files. Agricultural Attache. Reports, publications, books and files of the Ministry of Food and Agriculture. Cooperative League of the USA.

27. Relationships of Supplier to Cooperating Country and to AID.

A. Relationships and Responsibilities

To provide technical advice and training to the Department of Cooperation of the Ministry of Food and Agriculture, and cooperative organization processing oilseeds.

B. Cooperating Country Liaison Official

Key officials in the GOI and State Governments and personnel in the cooperative sector.

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and another state

C. AlD Lieisen Officiels Chief, Office of Agriculture Development - USAID/India.

AID II	AID 1900-1 (0-09) DEPARTMENT OF STATE AGENCY FOR		U Worksheet	2 Issuance	PAGE 5 OF	7 PAGES	
		INTERNATIONAL DEVELOPMENT	Cooperating Coun INDIA	itry	PIO/T No. 386-367.5	-3-00096	
	PIO. T PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES		Project/Activity No. and Title 386-11-190-367.5 AGRICULTURAL INPUTS DEVELOPMENT (Oilseeds Processing Cooperatives)				
			C SUPPORT		<u> </u>		
	<ul> <li>B. Provisions for Logistic Support</li> <li>A. Specific Items (Insert "X" in applicable column at right. If entry needs qualification, insert asterisk and explain below in C. "Comments")</li> </ul>		In Kind Supplied By		From Local Currency Supplied By		
			AID	Cooperating Country	AID	Trust Fund Cooperating Country	
	(1) Office Space		·········	x		- <u> </u>	
	(2) Office Equipment			x			
	(3) Housing a	nd Utilities				x	
	(4) Furniture		x			1	
		Equipment (Stoves, Refrig., etc.)	X			-	
		ation in Cooperating Country				x	
	(7) Interpreter			x			
Other: Specify)	(8) Intern	national Air Travel (Economy)				x	
	(9) Ter D:	iem in India				x	
		llowances and Post Differ-					
		ial, when allowable				x	
		portation of HHE				x	
		tion Allowance				x	
	(15)	ead Expenses in India				x	

B. Additional Facilities Available From Other Sources

The following facilities should be authorized to the extent possible and subject to the rules and regulations applicable to USAID direct-hire employees:

- (1) Commissary and Post Exchange
- (2) Money Exchange
- (3) State Department Pouch facility

### C. Comments

A total of Rs. 127,500 (equiv. of U.S. \$16,776) is provided from the GOI Trust Fund (72-FT-800.1 -- 147-50-386-00-69-00) to be used wherever applicable for payment of or reimbursement for authorized logistic support costs.

International travel will be provided in accordance with Agency regulations.

AID 1380-1 (8-63)	DEPARTMENT OF STATE AGENCY FOR	Workshoot 😰 Issuance	PAGE 6 OF 7 PAGES
	INTERNATIONAL DEVELOPMENT PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	Cooperating Country INDIA	PIO/T No. 386-367.5-3-00096
PIO/T		Project/Activity No. and Title 386-11-190-367.5 AGRICULTURAL INPUTS DEVELOPMENT (Oilseeds Processing Cooperatives)	
	FINANCI	AL AGREEMENT	

#### 29. A. Cooperating Country Financing

Pursuant to paragraph \_\_\_\_\_\_ of the 😨 PROAG or 🗌 Other underlying document signed on <u>Sept. 18, 1969</u> \* and subject to the amount shown in Block 13.D above, the Cooperating Country will provide all local currencies required for the expenditures within the country, during the period starting on the Date of this issuance (Block 18 above) and ending on the Final Contribution Date of the [PROAG or other enabling document]: <u>(See ProAg)</u> authorized under this Project Implementation Order, with the exception of the following types of expenditures, which AID hereby agrees to assume:

\*per NEW DELHI 13469

B. As of the effective date of any contract or ogreement executed under this Order, the country will establish in the name of the supplier of the services described herein, a local currency advance in the amount of:\_\_\_\_\_\_

30. AID Financing

-

Pursuant to the provisions of the above-referenced Project Agreement or other document, and subject to the limitation of the Total to Date as shown in Block 12.D above, AID will provide all U.S. Dallar Currencies required for expenditures, during the period starting on the Date of this Issuance (Block 18 above), and ending on the Final Contribution Date of <u>(See ProAg)</u> authorized under this Project Implementation Order, with the exception of the following types of expenditures which the Cooperating Country hereby agrees to assume: CONTINUATION - PIO/T

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INDIA 386-367.5-3-00096

386-11-190-367.5 AGRICULTURAL INPUTS DEVELOPMENT (Oilseeds Processing Cooperatives)

# Block 15 - Continued

to India's economic development. The importance of processing oilseeds properly cannot be overemphasized. This can be illustrated by the fact that the estimated annual production of 2 million tons of cotton seeds alone could yield about 350,000 tons of oil -- practically the entire requirement of the vegetable oil industry.

The cilseeds processing industry, therefore, should be given priority attention by the cooperatives. This is an industry in which the cooperatives have an opportunity to play a leading role in the development of the country and improve their position in the economy. Cooperative processing of oilseeds is bound to play a major role in the expansion of the industry in India, for the cooperative method itself will attract the cultivator into its fold and impel him to provide the essential impetus to the oil extraction industry.

The primary objective of this project is to provide assistance to the cooperative program in India in training national cooperative leadership and management personnel. Another objective is to conduct a study to determine the capability of existing organizations and the need for new ones to undertake mark sting support to the movement.

# Block 21-A - Continued

(3) Assisting a study to determine the capability of existing organizations or the need for new organizations that could undertake responsibility for marketing and making available to oilseeds cooperatives information on factors which affect prices of raw material, oil, and meal.