SPISP

Seed Production and Input Storage Project

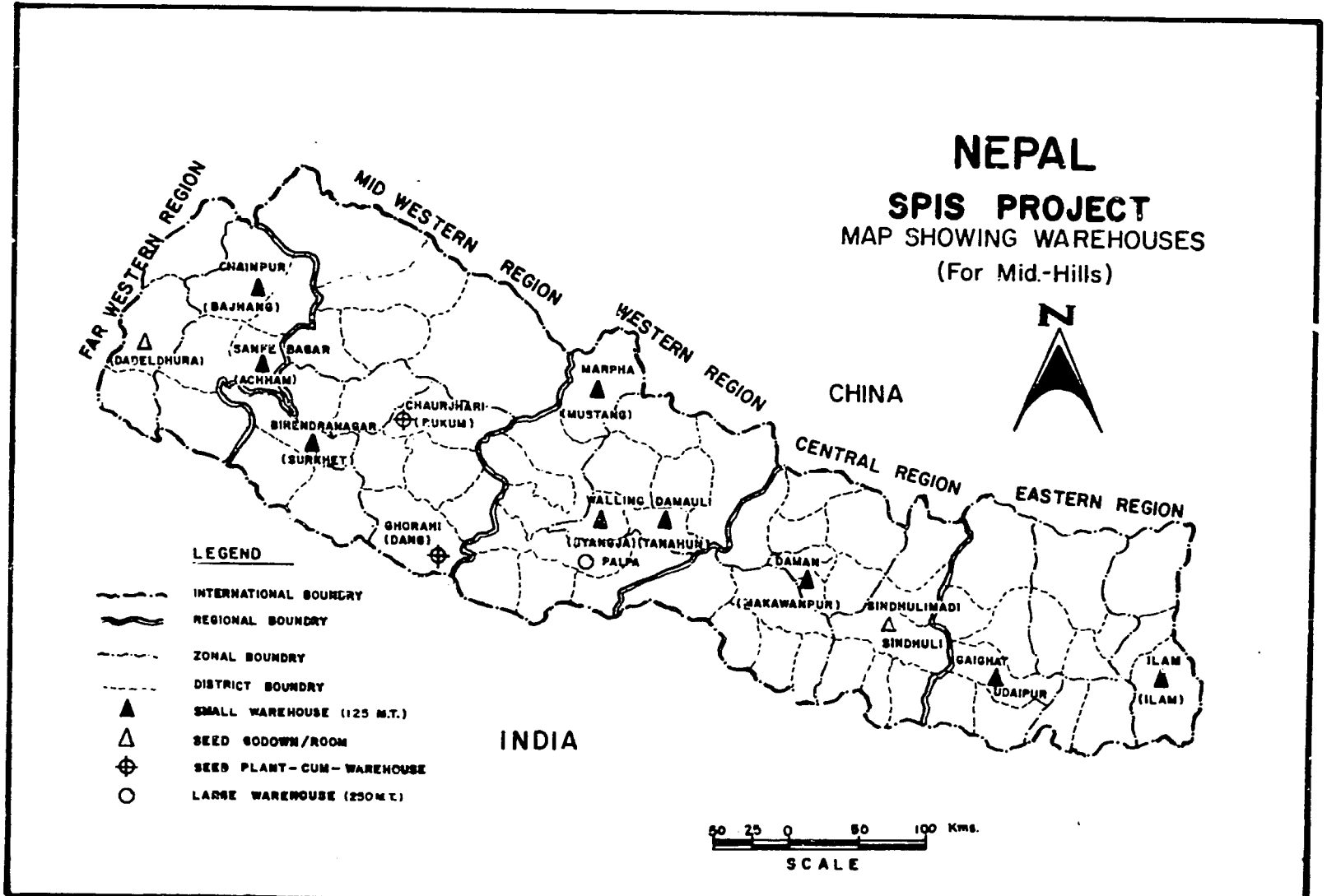
Agriculture Inputs Corporation

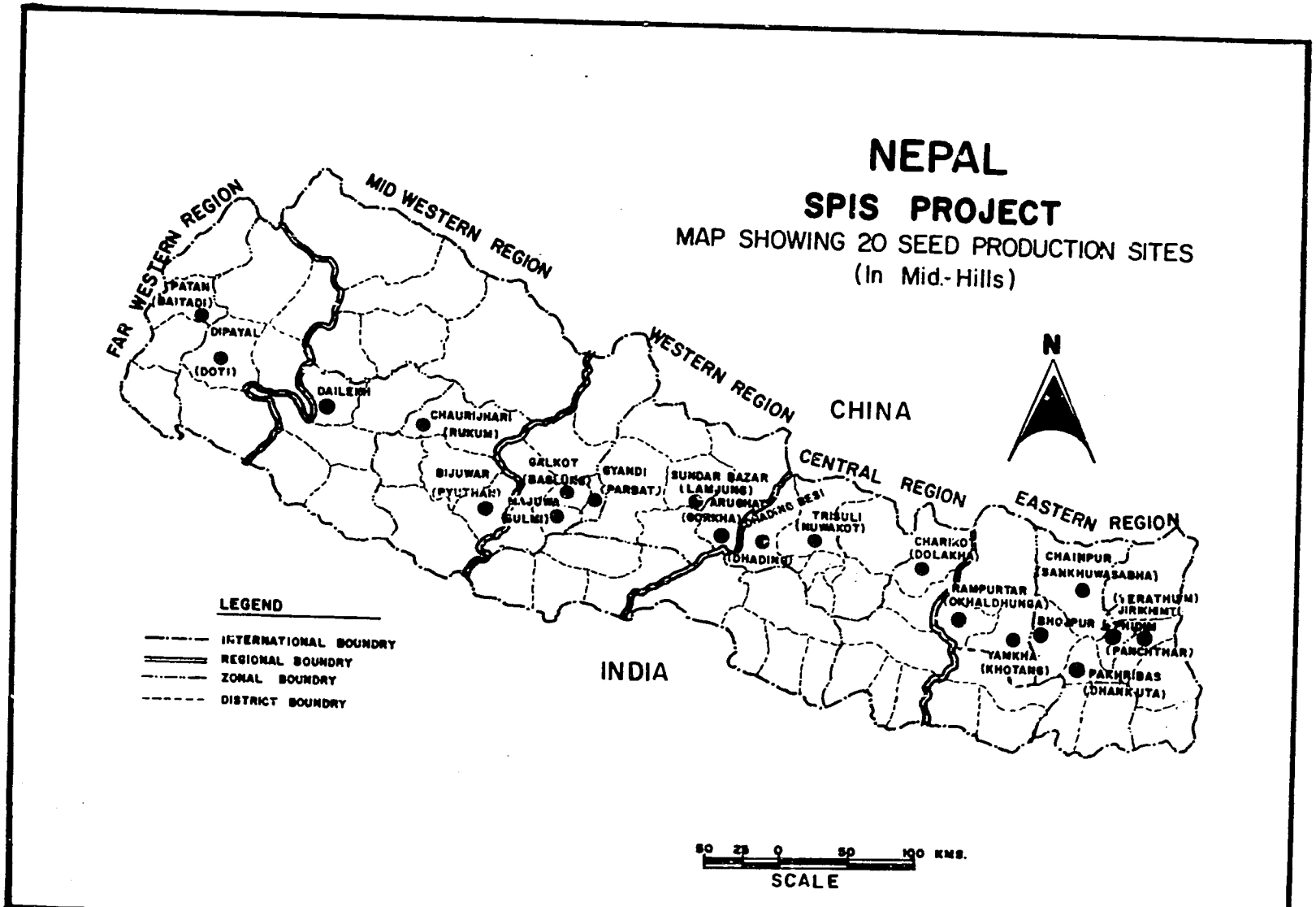
Kathmandu, Nepal

ANNUAL REPORT

1984

A Project of
HMG/Nepal and USAID/N
Being Executed by
Agriculture Inputs Corporation
and
International Agricultural Development Service


NEPAL
SPIS PROJECT
MAP SHOWING WAREHOUSES
(For Mid.-Hills)
N
CHINA
INDIA
FAR WESTERN REGION
MID WESTERN REGION
WESTERN REGION
CENTRAL REGION
EASTERN REGION
CHAINPUR
(BAJHANG)
(DADELDHURA)
SANFE BAGAR
(ACHHAM)
BIRENDRANAGAR
(SURKHET)
CHAURJHARI
(PUKUM)
MARPHA
(MUSTANG)
GHORAHI
(DANG)
WALLING
(TANAHUN)
DAMAULI
(TANAHUN)
PALPA
DAMAN
(MAKAWANPUR)
SINDHULIMADI
SINDHULI
GAIGHAT
UDAIPUR
ILAM
(ILAM)
LEGEND
INTERNATIONAL BOUNDRY
REGIONAL BOUNDRY
ZONAL BOUNDRY
DISTRICT BOUNDRY
SMALL WAREHOUSE (125 M.T.)
SEED GODOWN/ROOM
SEED PLANT-CUM-WAREHOUSE
LARGE WAREHOUSE (250 M.T.)
50 25 0 50 100 Kms.
SCALE


NEPAL
SPIS PROJECT
MAP SHOWING 20 SEED PRODUCTION SITES
(In Mid.-Hills)
FAR WESTERN REGION
MID WESTERN REGION
WESTERN REGION
CENTRAL REGION
EASTERN REGION
CHINA
INDIA
N
PATAN (BAITADI)
DIPAYAL (DOTI)
DAILEKH
CHAURIJHARI (RUKUM)
BIJUWAR (PYUTHAN)
GALKOT (BAGLUNG)
MAJUWA (GULMI)
SYANDI (PARBAT)
SUNDAR BAZAR (LAMJUNG)
ARUGHAT (GORKHA)
KHADKING BESI
(DHADING)
TRISULI (NUWAKOT)
CHARIKOT (DOLAKHA)
RAMPURTAR (OKHALDHUNGA)
YANKHA (KHOTANG)
CHAINPUR (SANKHUWASABHA)
(TERATHUM)
JIRIKHEMTI
BHOJPUR
(PANCHTHAR)
PAKHRIBAS (DHANKUTA)
LEGEND
INTERNATIONAL BOUNDRY
REGIONAL BOUNDRY
ZONAL BOUNDRY
DISTRICT BOUNDRY
50 25 0 50 100 KMS.
SCALE

CONTENTS

CONTENTS .....

* * *

1. BACKGROUND INFORMATION

The main focus area of the SPIS Project lies in the mid-hills somewhere between 400 to 2000 meters above sea level. Hills in general are under-developed and lack infrastructure such as buildings, roads, electricity and godowns. But 56 percent population lives there. Local production must increase as transportation difficulties do not favour portering of bulky goods from the Terai. Given this scenerio, HMG of Nepal attaches high priority to developing hill agriculture and thereby improving the peoples' economy. For this purpose, it is recognized that of all the things seed is most vital and low-cost ingredient for improving agriculture. Without an extensive coverage of area by high yielding seeds, production cannot possibly increase. In hill areas, where timely supply of bulky fertilizers is a difficult proposition, better seeds of improved varieties can boost production 30-40 percent even with moderate doses of fertilizer and application of compost.

Past attempts to supply improved seed from the Terai plains have not proved effective. Confronted with this problem, in the late seventies the government decided to do something about hill farmers' dependence on Terai-produced seed. After considerable thought a system of local production of seed in the hills was designed which eventually lead to the launching of this Seed Production and Input Storage Project. The Project's seed production activities cover 20 out of 40 hill districts. With continued support, it is possible to supply half of the cereal seed requirement of these districts by 1988 (rest by farmers themselves) and that should assure rapid introduction of high yielding crop varieties.

2. PROJECT INTRODUCTION

The SPIS Project was launched in the beginning of 1980 to assist in establishing a system of local seed production in the mid-hill areas of Nepal backed by arrangements for the storage

and supply of other inputs so as to enhance the production of food crops and improve the economic condition of the farmers.

The Project grant agreement between HMG of Nepal and the government of the United States of America was signed on August 31, 1978. However, the host country contract between the International Agricultural Development Service (IADS) and Agriculture Inputs Corporation (AIC) acting on behalf of HMG/N was finalized on January 14, 1980 i.e. after a lapse of more than 16 months. The original completion date i.e. August 1983 was extended by a year in line with the Revised Project Implementation Strategy of June 1981 and on May 13, 1984 it was extended by one more year to August 31, 1985. The Project is expected to end on this date. This means that nearly 59 operational months are over and 8 months remain in the life of the Project.

As stated, there was delay (though unavoidable) in starting the project operations. Even after its launching, the Project had experienced rather slow progress in the beginning. This had necessitated some restructuring of the original work plan. Following the first evaluation of April 1981, the project scope was revised as contained in the document entitled "Revised Project Implementation Strategy".

Thereafter, consistent improvement has been experienced. In September 1982, mid-term evaluation was carried out which revealed that the Project was accomplishing an acceptable job. Since then, more steady progress has occured as shown in this and previous reports. The Project Coordination Committee has held ten periodical meetings since inception and it continues to meet as often as necessary to review the progress and address problems if any.

3. PROJECT BUDGET

(USD 000)

		AID	HMG/N	Peace Corps	Total
1.	Technical Assistance	1,312	524	-	1,836
2.	Commodities	534	100	-	634
3.	Participant Training	607	42	-	649
4.	Extension Work	-	-	80	80
5.	Social/Physiological Research	60	5	-	65
6.	Construction	1,306	705	-	2,011
7.	In-Country Training	100	20	-	120
8.	Contingency	62	-	-	62
9.	Evaluation	50	2	-	52
	Total	4,031	1,398	80	5,509

4. OBJECTIVES AND SCOPE OF WORK

4.1 Primary Objective

In accordance with the contract, the main objective of the Project is to assist the Ministry of Agriculture to establish in the mid-hills a responsive and labour-intensive system for producing, testing, processing, storing and distributing seeds of major food crops; and for stocking and distributing all inputs (used in the production of these crops) to the small hill farmers as cheaply and effectively as possible.

4.2 Related Objectives

These are summarized below:

- to establish a seed production and supply system for the hills,
- to pave the way for the development of private seed producing and marketing enterprises,
- to create seed processing, treating, packaging and storage facilities at selected sites,
- to promote greater use of improved seeds in the hills,
- to ensure manpower development for future needs,
- to work towards qualitative improvement in seeds supplied to farmers,
- in addition, to assist HMG/N to improve all facets of the national seed production and distribution system.

4.3 Scope of Work

In order to pursue the said objectives, the following activities were identified for implementation under the project:-

- Socio-economic and baseline surveys for the selection of sites for launching the project activities,
- establishing 16 mini-seedhouses (actual achievement 20),
- construction of 12 warehouses (actual achievement 14),
- providing support for social and physiological research,
- a long-term storages unit for germ plasm,
- establishment of the central seed testing laboratory at Khumaltar,
- expert consultancies covering about a dozen areas of technical specialization,

- to organize 26 in-country training sessions (actual achievement so far is 28),
- overseas degree courses for eleven participants, non-degree training program for 20 and need-based study tours of seed industry operations in other countries,
- supply and installation of equipment in the listed facilities, and
- organizing seed production storage and marketing in the operational sites.

5. AGRICULTURAL SITUATION

Like the previous year, 1984 also turned out to be a favourable year for crop production. Monsoon rains arrived early in May and continued throughout the season. Caught in unseasonal rains, timely harvesting and threshing of wheat seed, especially in the hills, received a setback and, as a result, less quantity of seed could be collected by AIC.

Record wheat production (also in India) depressed the market price to an unremunerative level. On the other hand there were reports of an exportable surplus of foodgrains after years of bare sufficiency.

Departing from the practice of regional prices, AIC announced a uniform sale price for wheat seed throughout the country (Rs. 425/q). For the hill areas this price turned out to be even lower than the grain price causing fears that the private seed business could suffer by such a policy.

Special production programs were launched during the year. They had good impact but the farmers could not realise a fair price for their produce. Consequently, suitable support prices were introduced for the main crops.

6. PROJECT REPORT

Everything considered, the Project made good progress during the year. For this purpose, the information given in the Semi-annual report of July 1984 is relevent being an integral part of this report. Following is the supplementary information:

6.1 Technical Assistance

IADS continued to provide technical assistance for implementing the Project. The new Field Supervisor who

joined in December 1983 teamed up with a locally-recruited Seed Technologist to assist the mini-seedhouses in their smooth functioning. The Project Supervisor and Project Coordinator provided back-up assistance and regularly visited the Project sites to monitor progress and resolve the field problems. Logistic support was available from the Project office as usual.

Two specialists of APHOSC completed a study on seed marketing and presented a seminar on the subject. They were able to identify snags and weaknesses in the present system which have been highlighted in their report alongwith specific recommendations.

In the month of July a seed pricing consultant from Mississippi State University, USA arrived to advise on this vital aspect. He submitted a useful report titled "Seed Pricing" in which various policy options were presented. The consultant stressed that for a policy on seed pricing to succeed simultaneous attention ought to be paid to internal and external quality control system, foundation seed program, development of superior varieties, seed storage and handling facilities and manpower development.

6.2 Construction

Early onset of monsoons hampered on-going construction work in several remote sites. Despite efforts to pick up the slack some construction remained incomplete at the close of the year. Construction at Chaurijhari (Rukum) lagged behind schedule and became a source of concern. Because of default on the part of the contractor, retendering appeared necessary and action to do so was underway in AIC office. Construction at Chainpur (Sankhuwasabha) and Bhojpur also experienced delays and continued to

proceed on snails' pace. Elsewhere, however, this activity was either completed or was close to completion.

Ironically, at some of the seedhouses the JTs discovered faults in design or work quality by the time they started to use the buildings. These were brought to the attention of Engineering Division for rectification. Also funds were made available for minor repairs whereever this was necessary. Most of the faults could be attributed to factors such as lax supervision by overseers, low bidding to win a contract or sheer lack of good masons for the job. Occasionally, cement curing remained inadequate for want of water. In some cases contractors showed a tendency to cut corners on wooden frames, doors and windows. However, given that the construction work had to be executed in remote areas, the accomplishment in a majority of the sites is of an acceptable quality. Construction of retaining walls being essential was approved at several of the sites. However sometime in the future AIC will still need to budget for a guard room and toilet facility as they do not exist in many seedhouses.

6.3 Procurement of Commodities

As funds were left even after completing the original plan of procurement, new items of need were identified and their purchase initiated. This included spare parts for vehicles and equipment, motorbikes, seed cleaners, maize shellers, gensets, seed bags and tarpaulins. The seed cleaners are motorized to be run by kerosene generators. They form a part of the second generation equipment to supplement hand-operated cleaners already supplied to the sites. Plans to import two field vehicles were kept in abeyance as the government announced austerity measures including a ban on vehicle importation for one year. Equipment already in stock was moved to Project sites, installed and demonstrated for regular use.

6.4 Out-of-country Training

Under masters degree program eleven candidates were sent to the U.S.A. and Philippines. They all have successfully completed their studies and returned home to make a contribution in their respective positions. Non-academic training opportunity was availed by 26 persons in the course of the year which makes a total of 68 since beginning. Two different groups consisting of eight and fourteen persons from AIC and DOA, mostly field JTs, went to India for observation tour of seed program facilities. Whereas the first tour went to south India the second one visited relevant institutions in the north such as National Seeds Corporation, U.P. University of Agriculture and Technology, Pantnagar and Haryana State Seed Corporation. In addition, correspondence with FTS Seed Enterprise Development Program revealed the possibility of training 1 or 2 persons with U.S. seed companies during 1985.

6.5 In-country Training

Under this activity, a variety of training courses were arranged for the benefit of official staff and private farmers who have interest in seed production program under the mini-seedhouse system. At each site, 40-45 seed growers attended one-day training sessions conducted by the concerned ADO, AIC Branch Manager, ADB Manager and site JT. In August a special course for 31 AIC and DOA staff members was organized at Hetauda for 2-weeks. It was presented by three specialists who came from Mississippi State and Kansas State Universities under USAID contracts. The course was entitled "Nepal Seed Quality Control and Storage Workshop" and it proved highly beneficial for those who attended.

To date 298 officials and 1200 farmers have attended courses organized by the Project, not to mention one-day sessions repeated from time to time as a regular activity. The training component under the Project has made a clear impact. Knowledgeable persons are now available for program appreciation, implementation and periodical evaluation.

6.6 Social and Physiological Research

The storage trial conducted at Chandipokhari, Trishuli, in June 1983, was continued for one more season to find out which storage container holds good for two seasons to maintain the germinability of wheat seed.

Samples were drawn from every container in November 1984 and checked for seed moisture content, germination and pest infestation. Average seed moisture content had risen to 14 percent in the plain ghyampo and in the ghyampo with cowdung or mud and husk plaster. It was 13 percent in the ghyampo with white enamel paint while it stayed below 12 percent in the case of biscuit tins and polylined hessain bag. However, the polylining was found to be slightly torn as the gauge was below the recommended standard of 250. Visually, there were no weevil infestations and fungal development in the biscuit tins, polylined hessain bags and in all types of ghyampos except in the cracked ones. Yet the viability of seed went down to 0 percent in the case of the plain and cowdung or mud plastered ghyampos. It was found to be 96 percent in polylined hessain bags, 94 percent in the tins and 85 percent in the case of ghyampos with single coat white paint.

As is obvious, modified ghyampo with two coats of white enamel paint is a proper type of container for the safe storage of seed for Trishuli and similar environment. They are locally made in almost all the villages and are comparatively cheap. However, the initial moisture should not exceed 12 percent and the container should be protected from floor dampness.

6.7 Mini-Seedhouse Operation

Seed production of wheat, maize and rice continued at all the sites as planned. The site JTs were in place most of the time. Except for Patan (Baitadi), Dipayal (Doti) and Dailekh, other seventeen sites showed satisfactory performance. Galkot site in Baglung district, which had problems before, has also turned the corner. The new JT Mr. D.R. Sharma and PCV Mr. Mike Ransom brought a lot of improvement. Among the best-run seedhouse were Sundar Bazar (Lamjung), Majuwa (Gulmi) and Chainpur (Sankhuwasabha). The concerned JTs have been awarded with letters of appreciation.

Integration of seedhouses with AIC's management structure is a significant gain of the year. Each seedhouse has now become a part of the local AIC Branch office such that regular supervision has been facilitated. Seed production plans under the Project are harmonized with AIC's annual plan of work. Thus, Branch Managers have specific targets to fulfill as a part of their work and so they take more interest in the success of the seedhouses.

A persisting constraint was experienced in non-availability of foundation seed (or even certified seed) for multiplication. Somehow for 1984-85 wheat (RR-21) crop AIC had no foundation seed for the hills and the program had to rely on make-shift arrangements. For similar reasons, maize program had to be curtailed from 138 ha to 77 ha only. The Seed Division of AIC has recognized the problem and taken it up with DOA for a resolution in the future.

Following recommendations of the 11th winter crops workshop, a new wheat variety Triveni has been introduced in seed multiplication. Despite good reports from trials, the variety's performance is to be carefully watched. If successful, it might replace the aging HR-21. In case of rice, the variety Himali introduced last year is liked by farmers of several sites like Okhaldhunga, Khotang and Lamjung and is likely to spread.

In respect of seed storage, two problems were noticed viz. rat havoc in rented godowns and damage to fumigation covers, again by rats. The first problem may not be the case next year for seed stored in a regular seedhouse. As for rats damage to fumigation covers steps are being taken to repair them and also to provide light polyethylene covers that can be tucked into a box when not in use.

As mentioned in other reports, the dual control of JTs by DOA and AIC remains a weak point in-so-far as management of seedhouses is concerned. During the year there were atleast four occasions when DOA "transferred" JTs witout notice or consultation - of course in exercise of their prerogative. AIC recognizes this lingering flaw in the system and is willing to move towards having its own staff for SPIS Project activities.

The farmer-run system at Arughat (Gorkha) has stablized and is set for growth except that its interest is hurt by AIC's policy of subsidizing seed. For instance in Nov. '84 the Seed Growers Association at the site had to ask for financial assistance to offset the adverse effect of a low wheat seed price in the country. By implication it means the private sector has to be treated on an equal footing in the matter of subsidies if it is to survive.

The efforts made to sell the slogan of private management were successful in converting (partially) three more sites into a farmer-run system. These are Charikot (Dolakha), Bhojpur and Bijuwar (Pyuthan). At Bijuwar, a women farmers' group has taken the lead in organizing seed production. A local leader Mrs. Shanta Verma is acting as co-Manager. The group has decided to produce 3 m.t. of wheat seed during the current season.

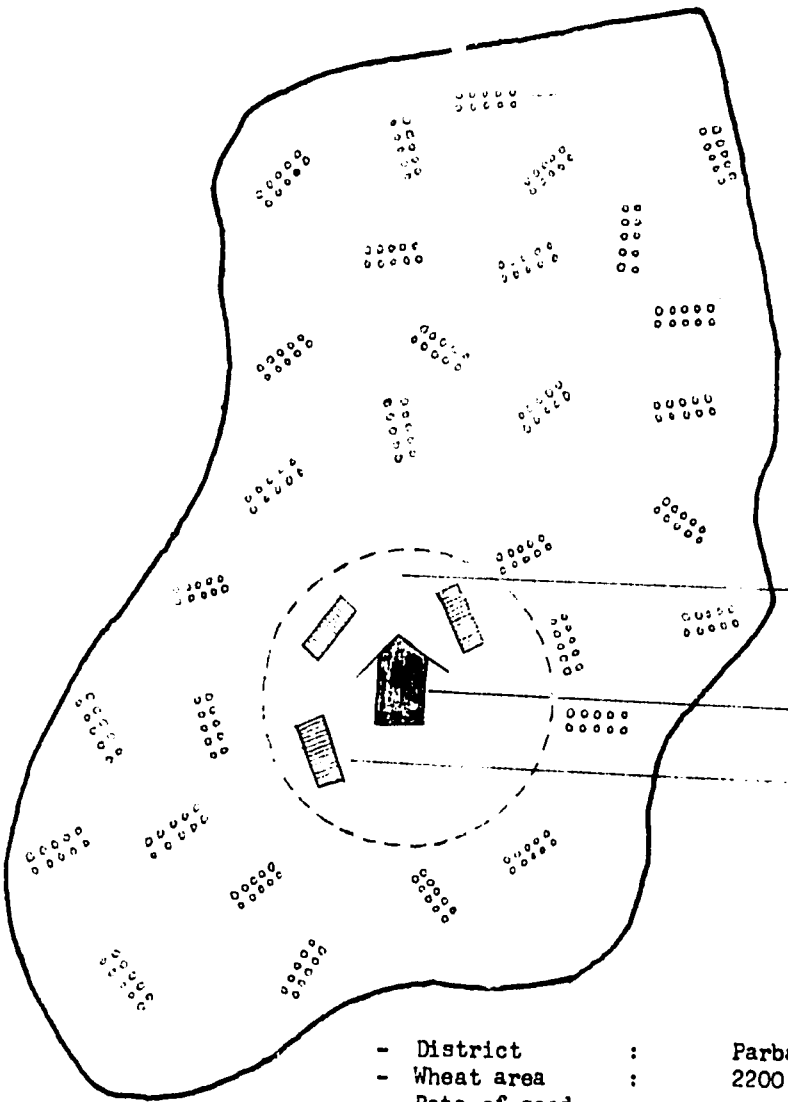
At the close of the year, eight volunteers from Peace Corps were in position at different sites and continued to make a valuable contribution in extension work and seedhouse operation. While 4 PCV completed their assignment and left, new ones came in on schedule. The present team includes two women volunteers.

The Project brought out a document named "Mini-Seedhouse Operation for Hill Seed Production and Supply" which provides an insight into the hill seed system being developed to serve the small hill farmers. Besides dealing with the present operation of the system, the document also sheds light on future seed development strategy. A plan for future management of the system has also been discussed.

The initial success in seed production is leading to ideas on expanding the scope of work in the coming years. Thus a blue print for satellite bin program has emerged. With its implementation, it should be possible to cover entire districts in the hill region for improved seed supply. This is illustrated in an accompanying diagram using Parbat district as an example.

SPIS Project

Plan for wheat seed supply in a hill district



- District : Parbat
- Wheat area : 2200 ha
- Rate of seed multiplication : 1:15
- Total seed used : 265 m.t.
- Annual seed supply under mini-seedhouse system.
  a. Certified - 8 m.t.
  b. Improved - 20 m.t. (by SGA)
  c. Improved -100 m.t. (by satellite producers)
- Foundation seed required every year -500 kg.

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7. SUMMARY OF EVENTS

1.	Workshop meeting with PCVs regarding prospects of a farmer-run system	Jan 1-2, 1984
2.	Field Supervisor, Mr. Peter G. Rood departs	Jan 9
3.	1983 Annual Report published	Jan 17
4.	Second observation tour to India leaves	Jan 23
5.	Summer crops workshop at Parwanipur begins	Jan 30
6.	Tenth meeting of the FCC	Feb 10
7.	Farmers training at Dhktel	Feb 14-17
8.	Project Director leaves for Bangkok for Fertilizer Marketing Workshop/Meeting	Feb 20
9.	JTs training at PAC, Pakhribas	Mar 5-8
10.	Mr. B.D. Pathak returns from AVRDC, Bangkok on completion of Second Vegetable Production Training course	Mar 11
11.	Charikot farmers visit Arughat	Mar 11-17
12.	IADS Vice-President arrives	Mar 18
13.	Four PCVs complete their assignment	Apr 16
14.	Mr. N.B. Shrestha starts officiating as GM/AIC	Apr 19
15.	Mr. R.R. Sharma, participant returned from the Philippines	May 12
16.	Mr. K.B. Malla leaves for USA to attend management course	May 13
17.	Contract amendment for PACD extension signed	May 13
18.	Seed marketing seminar by AFROSC consultants	May 16-21
19.	Revised field guidelines issued	May 23
20.	Two new PCVs sworn-in	May 25
21.	Bhojpur farmers visit Arughat farmer-run system	Jun 12-16

22.	Mrs. R. Basnyat, participant, returned from the U.S.A.	June 14
23.	JTs training at Charikot	July 1-4
24.	Mini-Seedhouse Operation Report published	July
25.	FY 41/42 work schedule and semi-annual report published	July
26.	Dr. W.C. Couvillion, Seed Pricing Consultant arrives	July 16
27.	Mr. R.P. Singh, participant, returned to Kathmandu on completion of MBA degree program from U.S.	July 17
28.	Dr. Baldev Prasad of IARI, India arrives for lectures	July 28
29.	Seed Storage Quality Control Workshop held at Hetauda	Aug 1-12
30.	Mr. A.M. Tamrakar leaves for India for fertilizer conference	Aug 12
31.	New Seed Testing Laboratory becomes operational	Aug 17
32.	Mr. R.K. Misra, participant, returned to Kathmandu from the U.S.A.	Aug 21
33.	Project Supervisor attended Wheat Workshop at Bhairahawa	Sep 3-5
34.	IADS Vice-President arrives	Sep 6
35.	JTs meeting held at Kathmandu	Sep 24-25
36.	Project Supervisor proceeds on home leave	Sep 29
37.	Five new PCVs sworn-in (but on had to go back)	Sep 29
38.	Third batch left for India observation tour	Oct 11
39.	Dr. K.B. Rajbhandary appointed as the new General Manager of AIC	Nov 1

40.	Meeting with BYS held at Sundarbazar for turbine operation	Nov 23
41.	Messers K.L. Shrivastava and S.B. Shrestha, AIC officials left for Bangkok to attend IFDC Fertilizer Marketing Program for the Asian Region	Nov 25
42.	Second instalment budget allocated to SFISP sites	Dec 23
43.	Informational brochure up-dated	Dec 24
44.	Paper on SFIS Project prepared for FAO seminar at Islamabad	Dec 30
45.	Mr. R.N. Ultis's assignment terminates	Dec 31

8. PARTICIPANTS TRAINING POSITION AS ON 31 DECEMBER 1984

Participant	Subject	Country	Period of Study	Remarks
ACADEMIC (Target 10, Achievement 11)				
B.D. Parajuli	MBA	Philippines	May 81 to Feb 83	
C.D. Acharya	MS	USA	Aug 81 to Aug 83	
G.L. Shrestha	MS	USA	Aug 81 to Nov 83	
R.P. Singh	MBA	USA	Sep 81 to Jun 84	
S.K. Shrestha	MS	Philippines	Nov 82 to Aug 84	
R.R. Sharma	MS	Philippines	Nov 82 to May 84	
M.N. Shrestha	MS	Philippines	Oct 82 to Aug 84	
B.R. Shakya	MS	Philippines	Oct 82 to Aug 84	
C.B. Shrestha	MS	Philippines	Oct 82 to Aug 84	
R.K. Mishra	MA	USA	Aug 83 to Aug 84	
R. Basnyat (Ms)	MA	USA	Aug 82 to Jun 84	Originally under non-academic training.
NON-ACADEMIC (Target 28, Achievement 62)				
G.B. Chand	Rice Production	Philippines	Mar 81 to Nov 81	
G.B. Chand	Vegetable Seed Production Tech.	Philippines		
H.B. Malla	Seed Production Inspection	USA	Mar 82 to Aug 82	
B.P. Parajuli	FAO/CIDA Conference	Kenya	May 81 to Jun 81	
T.B. Karki	Irrigated Wheat Production	Mexico	Apr 82 to Dec 82	

Participant	Subject	Country	Period of Study	Remarks
C.M. Manandhar	Seed Improvement	Columbia	Oct 82 to Dec 82	
P. Gautam	Marketing Mgmt.	Indonesia	Nov 3 to 24, 82	
B.P. Regmi	Seed Technology	Philippines	Jan 84 to Jul 84	
B.D. Pathak	Veg. Production	Thailand	Oct 83 to Mar 84	
G.B. Pandey	Marketing Mgmt.	U.S.A.	Aug 83 to Sep 83	
R.B. Singh	Conference	India	Dec 80	
R.B. Singh A.M. Pradhananga B.N. Kayastha K.L. Rajbhandary (Ms) G.B. Thapa	" Observation " tion " Tour "	India, USA, Japan, Korea, Philippines, Hongkong, Bangkok	2 Jan 81-30 Jan 81	
G.R. Shrestha S.R. Pant	" Conference "	India	26 Jan 81-1 Feb 81	
B. Pradhan(Ms)	IFDC/Fertilizer Marketing Seminar	USA	Aug 82 to Sep 82	
K.L. Rajbhandary (Ms) H.B. Shrestha S.S. Bal	" 20th ISTA " Conference "	Canada	Jun 17 to Jun 25	
A.R. Mathema	Observation Tour	India	Jan 22 to Feb 6, 83	
P.N. Rana S.S. Bal B.K. Sharma K.R. Rajbhandary G.D. Misra N.P. Nain	" " Observation " Tour " " "	India, Thailand, Philippines, South Korea	Mar 3,83 to Mar 23,83	
P.N. Rana	Fertilizer Seminar	Bangkok	22-25 Feb 83	

Participant	Subject	Country	Period of Study	Remarks
B.N. Kayastha P.G. Rood J.B. KC M.B. Shrestha H.P. Neupane N.R. Sapkota L. Thakya S.P. Phynyal Ram Shrestha	Observation Tour by 9 participants	India	15 Mar 83 - 1 Apr 83	
P.N. Rana	Conference	India	19 Apr 83-24 Apr 83	
C.M. Manandhar S.C. Gurung N.R. Silwal K.N. Chapagain J.P. Mishra B.N. Tripathi B.N. Sharma B.B. Karki	Observation Tour by 8 field staff	India	23 Jan to 8 Feb 84	
K.B. Malla	Management of Govt. Organizations in Developing Countries (USDA Course No. 140-23)	USA	21 May 84-13 Jul 84	
A.M. Tamrakar	Fertilizer Conference	India	12 August	
B.P. Parajuli S.L. Bajracharya D.K. Karki B. Shrestha B.L. Shah G. K.C. S.D. Bhattarai H.K. Prasain L.L. Khatri S.D. Mandal B.K. Raj D.K. Bhattarai D.R. Budathoki	Observation Tour by 14 participants	India	Oct 10-Oct 23, 1984	
K.L. Shrivastava S.B. Shrestha	IFDC Fertilizer Marketing Program for the Asian Region	Bangkok	Nov 26-Dec 8, 1984	

9. (a) INCOUNTRY TRAINING COURSES

No.	Subject	Date	Participants	Venue
1.	Crop Seed Production	Aug 3-5 Sep 1980	25 Officials	Kathmandu
2.	Maize Production	Jan 5-8 1981	28 Farmers	Rampur
3.	Veg. Seed Production	May 15-20	25 Farmers	Marpha
4.	Trainers Training	Aug 2-12	10 Officials	Kathmandu
5.	Wheat Seed Production	Oct 19-22	25 Farmers	Sundarbazar
6.	Wheat Seed Production	Nov 6	23 Farmers	Trishuli
7.	Grain and Seed Storage	Nov 9-19	20 Officials	Khairenitar
8.	Seed Quality and Field Inspections	Jan 17-22, 1982	17 Officials	Khumaltar
9.	Seed Storage and Handling	Mar 11-14	22 Officials	Biratnagar
10.	Seed Production and Handling	Mar 14-17	25 Officials	Nepalgunj
11.	Seed Production	March 26	28 Farmers	Dhadingbesi
12.	Seed Production, Seed Storage and Handling	Mar 29-1 April	22 Officials	Bhairahawa
13.	Seed Production and Handling	Aug 9-11	30 Farmers	Charikot
14.	Seed Production and Handling	Oct 3-5	40 Farmers	Baglung
15.	Seed Production	Nov 7-9	35 Farmers	Gorkha
16.	Seed Production and Handling	Jan 2-7, 1983	30 Officials	Trishuli

No.	Subject	Date	Participants	Venue
17.	Seed Production	Feb 2-3	38 Farmers	Gulmi
18.	Seed Production and Handling	April 10-11	35 Farmers	Pyuthan
19.	Seed Production and Handling	June 13-15	45 Farmers	Dandeldhura
20.	Seed Handling and Storage	Aug 15-17	25 Officials	Janakpur
21.	Seed Production Technology (for JTs)	Sept 14-16	12 Officials	Trishuli
22.	Seed Handling, Storage and Marketing	Oct 9-11	27 Officials	Khairenitar
23.	Seed Production and Handling	Feb 24-27, 1984	30 Farmers	Dikhel
24.	Seed Production Workshop	March 5-8	15 Officials	Pakhribas
25.	Observation Tour	March 11-19	20 Farmers	Arughat
26.	Observation Tour	June 12-16	5 Farmers	Arughat
27.	Seed Production	July 1-4	17 Officials	Charikot
28.	Seed Quality Control Workshop	Aug 1-12	31 Officials	Hetauda

Total : Officials - 298

Farmers - 407

Also, program orientation sessions were held at Kathmandu with the JTs on September 18 and September 24.

A conference was held with PCVs on December 23.

9. (b) ONE-DAY FARMERS TRAINING ORGANIZED AT DIFFERENT SITES IN 1984

	Site	District	No. of Farmers	Date
1.	Doti	Doti	*	Jan 31, 1984
2.	Jirikhimti	Terathum	*	February 8
3.	Chaurijhari	Rukum	*	February 23
4.	Phidim	Panchthar	*	February 25
5.	Jirikhimti	Terathum	*	March 11
6.	Dailekh	Dailekh	*	March 25
7.	Yamkha	Khotang	*	April 13
8.	Chainpur	Sankhuwasabha	*	April 12
9.	Charikot	Dolakha	*	April 23
10.	Galkot	Baglung	*	May 4
11.	Doti	Doti	*	April 6
12.	Galkot	Baglung	47	Oct 21
13.	Gyandi	Parbat	43	Oct 22
14.	Trishuli	Nuwakot	46	Oct 22
15.	Doti	Doti	46	Nov 1
16.	Charikot	Dolakha	49	Nov 4
17.	Yamkha	Khotang	18	Nov 13
18.	Dhadingbesi	Dhading	44	Nov 8
19.	Chainpur	Sankhuwasabha	29	Nov 23
20.	Pakhribas	Dhankuta	22	Nov 26
21.	Jirikhimti	Terathum	32	Nov 27
22.	Majhuwa	Gulmi	64	Nov 30
23.	Rampurtar	Okhaldhunga	57	Nov 30
24.	Phidim	Panchthar	*	Dec 11
25.	Bhojpur	Bhojpur	51	Dec 13
26.	Sundarbazar	Lamjung	35	Dec 25
27.	Patan	Baitadi	14	Dec 25
28.	Arughat	Gorkha	26	Nov 13

* On an average, 35 farmers participated.

10. TECHNICAL CONSULTANTS STATUS

No.	Name	Field	Date
1.	Dr. J.F. Harrington	Veg. Seed Production	11 Apr - 31 May 1981
2.	Mr. Paul Koostra	Seed Technology	19 Jun - 18 Jul 1981
3.	Mr. E.D. Perdon	Extension and Communication	1 Jul - 28 Aug 1981
4.	Dr. Paul Kaplan	Socio-Economic Survey	11 Sep - 11 Dec 1981
5.	Dr. A.H. Boyd	Humidity and Temperature Control in Seed Storage	3 Nov - 13 Nov 1981
6.	Dr. J.R. Pedersen	Field and Storage Pest Control	9 Nov - 19 Nov 1981
7.	Dr. C. Hurd	Storage Management	9 Nov - 19 Nov 1981
8.	Dr. P.R. Mezynski	Seed Production and Seed Storage	13 Apr - 9 May 1982
9.	Dr. A.H. Boyd	Seed Drying Packaging and Storage	13 Apr - 9 May 1982
10.	Mr. R.G. Griffiths	Field Inspections and Seed Analysis	5 Jun - 4 Jul 1982
11.	Dr. J.C. Delouche	Seed Technology and Research	26 Sep - 12 Oct 1982
12.	Dr. Bill Gregg	Seed Drying, Packaging and Storage	14 Feb - 19 Feb 1983
13.	Dr. J.E. Douglas	Seed Program Development and Management	21 Feb - 12 Mar 1983
14.	Mr. Binod Sijapati Mr. K.B. Hamal	Seed Handling and Marketing	1 Jun - 1 Sep 1983
15.	Dr. A.H. Boyd Dr. J. Pedersen Dr. Charles Vaughn	Seed Storage and Quality Control Workshop	26 Jul - 17 Aug 1984
16.	Dr. Baldev Prasad	Biological Control of Insects	28 Jul - 4 Aug 1984
17.	Dr. W.C. Couvillion	Seed Pricing	16 Jul - 28 Jul 1984

11. CONSTRUCTION REVIEW

No.	Site	Project	Contractor's Name	Contract Date	Contract Amount (Rs)	Work in Progress %
1.	Damauli	Small Warehouse	Standard Construction	040.4.23	450,697.20	100
2.	Waling	Small Warehouse	Gorkha Construction	038.3.23	486,632.33	100
3.	Ghorahi	Small Warehouse	Anna Nirman Sewa	038.10.5	793,830.60	100
4.	Dhadingbesi	Mini Seedhouse	Annapurna Construction	038.1.9	350,070.50	100
5.	Trishuli	Mini Seedhouse	Dhana Shrestha N. Sewa	038.1.4	252,779.97	100
6.	Sundarbazar	Mini Seedhouse	Santosh & Laxman N. Sewa	038.1.31	335,884.66	100
7.	Arughat	Mini Seedhouse	Dhan Nirman Sewa	038.7.4	247,554.85	100
8.	Gyandi	Mini Seedhouse	Muktinath Nirman Sewa	038.12.24	531,155.25	100
9.	Galkot	Mini Seedhouse	Siddiganesh Lama Nirman	038.6.4	388,659.62	100
10.	Marpha	Small Warehouse	Narendra Nirman Sewa	038.12.22	1,242,115.76	100
11.	Chaurijhari	Small Warehouse	Swarnadwari Const. Sewa	039.1.9	899,430.86	70
12.	Surkhet	Small Warehouse	Dhruba Const. Sewa	039.2.19	530,437.90	100
13.	Chaurikot	Mini Seedhouse	Thosetapu Nirman Sewa	039.2.19	424,989.38	100
14.	Majhuwa	Mini Seedhouse	Tribeni Construction	039.4.10	323,819.74	100
15.	Ilam	Small Warehouse	Jaya Santoshi Ma Nirman	039.9.15	408,834.17	100
16.	Sindhuli	Attached Seedroom	Sudhami Builders	039.10.6	97,898.50	100
17.	Daman	Seed Godown	Shankar & Trishul Const.	039.12.17	191,650.64	100
18.	Okhaldhunga	Mod. Seedhouse	Star Construction	039.11.26	427,124.00	100
19.	Diktel	Mod. Seedhouse	Tanmar Construction	040.1.15	546,862.50	90
20.	Phidim	Mod. Seedhouse	Khagendra Const.	040.2.9	466,305.60	100
21.	Pakhribas	Mini Seedhouse	Dibya Construction	040.2.30	227,975.80	100
22.	Patan	Mini Seedhouse	Aniruddra Nirman Sewa	040.3.21	371,200.35	100
23.	Sanfebagar	Small Warehouse	Tanmar Construction	040.3.31	1,317,723.00	90

Contd...

No.	Site	Project	Contractor's Name	Contract Date	Contract Amount (Rs)	Work in Progress %
24.	Chainpur (B)	Small Warehouse	Star Construction	040.4.26	1,358,247.60	100
25.	Chainpur ( )	Mini Seedhouse	DP Construction	040.4.9	278,711.19	70
26.	Dyuthan	Mod. Seedhouse	Rishi Shanti Const.	040.3.21	384,324.60	95
27.	Dipayal	Mod. Seedhouse	Swar Construction	040.4.16	602,237.5h	100
28.	Dadeldhura	Seed Store	Muktinath Nirman Sewa	040.4.26	212,067.00	100
29.	Tarathum	Mod. Seedhouse	Ganga Pd. Dhungana Nirman	040.4.8	689,083.60	90
30.	Bhojpur	Mod. Seedhouse	Gulsilaxmi Construction	040.3.21	316,320.18	70
31.	Palpa	200 MT Seedspdown	Rambha Construction	040.5.12	412,976.39	100
32.	Udaipur	Small Warehouse	Yak & Yeti Construction	040.5.2	931,125.96	90
33.	Khumaltar	Seed Laboratory	Narayan Lal & Brothers	039.7.26	973,761.06	100
34.	Sundarbazar	Chaukidar Qtr	Shankaman Shrestha	039.12.9	24,883.06	100
35.	Dhadingbesi	Chaukidar Qtr	Shyamkaji Kadel	040.2.30	25,065.64	100
36.	Dailekh	Mod. Seedhouse	Purbeli Nirman Sewa	040.4.26	535,009.20	100
37.	Galkot	Chaukidar Qtr	Siddhi Ganesh Nirman Sewa	039.11.12	17,226.45	100
38.	Gyandi	Chaukidar Qtr	Muktinath Nirman Sewa	038.12.24	20,480.03	100
39.	Chariket	Chaukidar Qtr	Those Tapoo Nirman Sewa	039.10.27	20,645.94	100
40.	Majuwa	Chaukidar Qtr	Tribeni Construction	040.3.9	18,092.07	100
41.	Khumaltar	Genetic Seed Storage Covering Shed.	Narayanlal & Brothers	040.4.12	89,630.00	100

NB: Contract cost of Chaukidar Quarter of Galkot, Gyandi, Chariket and Majuwa is included in the total activity of respective sites.

12. COMMODITY PROCUREMENT (Major items only)

12.1 Procured till December 31, 1984

Items	Quantity Received
Honda motor bike with spare parts	12
International Harvester Scout II vehicle with spare parts	9
Clay barn ventilator	41
M2B Clipper Cleaner with screens	10
Dole Portable Moisture Tester	37
Voltage Stablizer	8
Hand Operated Seed Drum Treater	40
Model 30 Seed Cleaner	17
Tarpaulins	56
Cenco Const. Temp. Oven	1
Sprayer	40
Avery Plaform Scales	28
Fumigation Cover	20
Model 76 FG 3M" 107" Coper 90	1
Spare parts for crippen cleaner Model A-342LH Serial No. 2300-467	
Cyclone Sample Mill, 220/50 Belt driven	1
Model A Z/434ON Electric Automatic Steroclave 220V 50 cycle	1
UNA Dyn Dehumidifier 220V	1
Bag Closer	10
Clipper CV Winnover	1

Items	Quantity Received
Overhead Projector	2
Slide Projector with zoom lense	2
B 100 x Blacklight lamp 220 V	2
Van Chevrolet, Eng. No. T 1015 (Grant from AID)	1
Universal Moisture Testers	10
Seed Plant Vaccum Cleaning System	5
Bally Case & Coller Genetic Seed Storage Unit	1
Water Turbine & Generating set	1
Diesel Generator 15 KV	1 (USA)
Diesel Generator 5 KW	1 (NEPAL)
Picup-up Chevrolet (USAID Grant)	1
Automatic Voltage Regulator	1
Refrigeration System for Germination Room One special remote RU-100-1 Condensing unit with 1-BA 100 A-1 Evaporator	1
Control Box for 20° Germination Room	1
Control Box 30° Germination Room	1
Axial Fans: 220 CFM	2
Single Phase Heater	2
Maize Sheller	21
Honda Generator (Portable)	1
Suzuki Generators	2
Yamaha Generator 5000 T 3 phase	1
Dole 400 parts	-
Calculators	20

12.2 Ordered for Procurement

Items	Quantity
Trail Bikes	2
OSAW moisture meters	4
Hygrometers	25
2.5 KVA Genset	7
M2B Seed Cleaners	5
Bag Closers	5
Parts for JH Scout	-

13. STATUS OF SEED PRODUCTION SITES

No.	Site	Supervising AIC Office	Seedhouse Status	Name of JT	PCV	Remarks
1.	Chariket	Chariket	In use	N.R. Lapkota	-	
2.	Trishuli	Trishuli	In use	R.C. Poudel	Served by R. Iltis	IHDP cooperating & a farmer run system.
3.	Dhadingbasi	Dhading	In use	R.N. Shrestha	Served by Larry	
4.	Gurkhot	Gorkha	In use	D.K. Shrestha	Served by Rick	Solar dryer installed
5.	Sundarbazar	Besisahar	In use	J.B. KC	Served by R. Iltis	Farmer run Pilot site
6.	Galkot	Baglung	In use	D.R. Sharma	Being served by Mike	
7.	Gyandi	Kusma	In use	R.C. Bhusal	Served by Jarel	
8.	Majhuwa	Tamghas	In use	K.N. Chapagain	Served by Bill	
9.	Bijuwar	Pyuthan	Nearing Completion	B.K. Sharma	Being served by Cheryl Browning	Womens' organization formed
10.	Rampurtar	Okhaldhunga	In use	R.L. Mandal	Being served by Jayne	
11.	Dipayal	Doti	In use	N.B. Dhami	Being served by John	Potential for farmer-run system
12.	Patan	Baitadi	Completed	J.C. Bista	Being served by Steve	
13.	Yankha	Diktel	Completed	S.L. Khatri	-	
14.	Chainpur	Khandbari	Under construction	H.K. Prasain	Being served by Mark Wickenheiser	
15.	Phidim	Phidim	Completed	B.K. Raj		
16.	Pakhribas	Dhankuta	In use	O.K. Shrestha	Being served by Jim	Potential for a cooperative centure
17.	Jirikhimti	Terathum	Completed	D.R. Budathoki		PAC cooperating
18.	Bhojpur	Bhojpur	Under construction	D.K. Bhattarai	Being served by Richard Rosecrance	Potential for farmer-run system
19.	Dailekh	Dailekh	Completed	S.D. Mandal	-	Farmer organization set-up
20.	Chaurijhari	Chaurajhari	Under construction.	K.P. Pokharel		ICF cooperating

Note 1. Seed production is on-going at all these sites.

2. Chaurijhari site combines both mini-seedhouse and warehouse functions.

14. SEED PRODUCTION PROGRAM (1984-85)

14.4. Wheat

NO.	DEVELOPMENT REGION	SITE	DISTRICT	AREA (ha)	ESTIMATED PRODUCTION (m.t.)
1.	EASTERN	Rampurtar	Okhaldhunga	11	16.50
2.	DEVELOPMENT	Phidim	Panchthar	12	18.00
3.	REGION	Chainpur	Sankhuwasabha	17	25.50
4.		Pakhribas	Dhankuta	16	24.00
5.		Jirikhimti	Terathum	9	13.50
6.		Yonkha	Khotang	9	13.50
7.		Bhojpur	Bhojpur	17	25.50
8.	CENTRAL	Trishuli	Nuwakot	22	33.00
9.	DEVELOPMENT	Charikot	Dolakha	10	15.00
10.	REGION	Dhadingbesi	Dhading	7	10.50
11.	WESTERN	Aruchat	Gorkha	11	16.50
12.	DEVELOPMENT	Sundarbazar	Lamjung	27	40.50
13.	REGION	Gyandi	Parbat	16	24.00
14.		Galkot	Baglung	7	10.50
15.		Majhuwa	Gulmi	27	40.50
16.	MID-WESTERN	Bijuwar	Pyuthan	10	15.00
17.	DEVELOPMENT	Chaurijhari	Rukum	11	16.50
18.	REGION	Dailekh	Dailekh	9	13.50
19.	FAR-WESTERN	Patan	Baitadi	5	7.50
20.	DEVELOPMENT REGION	Dipayal	Doti	4	6.00
	TOTAL			257	385.50

Varieties: RR-21, UP 262 (in lower elevations), NL 30 (in Bijuwar) and Tribeni

14. B. Maize*

NO.	DEVELOPMENT REGION	SITE	DISTRICT	AREA (ha)	ESTIMATED PRODUCTION (m.t.
1.	EASTERN	Rampurtar	Okhaldhunga	10	15.00
2.	DEVELOPMENT	Phidim	Panchthar	3	4.50
3.	REGION	Chainpur	Sankhuwasabha	3	4.50
4.		Fakhribas	Dhankuta	10	15.00
5.		Jirikhimti	Terathum	2	3.00
6.		Yamkha	Khotang	2	3.00
7.		Bhojpur	Bhojpur	5	7.50
8.	CENTRAL	Trishuli	Nuwakot	5	7.50
9.	DEVELOPMENT	Charikot	Dolakha	5	7.50
10.	REGION	Dhadingbesi	Dhading	4	6.00
11.	WESTERN	Arughat	Gorkha	6	9.00
12.	DEVELOPMENT	Sundarbazar	Lamjung	5	7.50
13.	REGION	Gyandi	Parbat	2	3.00
14.		Galkot	Baglung	2	3.00
15.		Majhuwa	Gulmi	5	7.50
16.	MID-WESTERN	Bijuwar	Pyuthan	4	6.00
17.	DEVELOPMENT	Chaurijhari	Rukum	2	3.00
18.	REGION	Dailekh	Dailekh	1	1.50
19.	FAR-WESTERN	Patan	Baitadi	1	1.50
20.	DEVELOPMENT REGION	Dipayal	Doti	0.5	0.75
	TOTAL			77.50	116.25

Varieties: Khumal yellow, Arun, Rampur composit, Hetauda Composit and Sarlahi Seto.

* The original program curtailed from 138 ha to 77.5 ha.

14. C. Rice *

NO.	DEVELOPMENT REGION	SITE	DISTRICT	AREA (ha)	ESTIMATED PRODUCTION (m.t.)
1.	EASTERN	Rampurtar	Okhaldhunga	2	4.0
2.	DEVELOPMENT	Phidim	Panchthar	1	2.0
3.	REGION	Chainpur	Sankhuwasabha	1	2.0
4.		Pakhribas	Dhankuta	2	4.0
5.		Jirikhimti	Terathum	1	2.0
6.		Yamkha	Khotang	-	-
7.		Bhojpur	Bhojpur	1	2.0
8.	CENTRAL	Trishuli	Nuwakot	1	2.0
9.	DEVELOPMENT	Charikot	Dolakha	1	2.0
10.	REGION	Dhadingbesi	Dhading	1	2.0
11.	WESTERN	Kurshat	Gorkha	2.5	5.0
12.	DEVELOPMENT	Sundarbazar	Lamjung	1	2.0
13.	REGION	Gyandi	Parbat	1	2.0
14.		Galkot	Baglung	1	2.0
15.		Majuwa	Gulmi	1	2.0
16.	MID-WESTERN	Bijuwar	Pyuthan	1	2.0
17.	DEVELOPMENT	Chaurajhari	Rukum	1	2.0
18.	REGION	Dailekh	Dailekh	1	2.0
19.	FAR-WESTERN	Patan	Baitadi	4	8.0
20.	DEVELOPMENT REGION	Dipayal	Doti	2	4.0
	TOTAL			26.50	53.00

Varieties: CH-45, Himali and Mansauli.

* The original program curtailed from 47 ha to 26.5 ha

15. IADS FINANCIAL STATEMENT

(US Dollars)

1	2	3	4	5	6	7	8
Budget Line	Budgeted 1/14/80 to 8/31/85	Expenditure 1980	Revised Budget 1/14/80 to 8/31/85	Cumulative Expenditure Till 1981	Cumulative Expenditure Till 1982	Cumulative Expenditure Till 1983	Cumulative Expenditure Till Nov 1984
I. Technical Assistance							
1. Salaries and Post Differential	324,000.00	50,285.76	398,000.00	150,165.12	244,999.37	334,629.79	413,919.42
2. Staff perquisites	153,000.00	23,540.57	155,000.00	53,533.23	77,952.30	95,213.42	115,404.44
3. Travel & Per-diem	144,000.00	8,172.81	151,000.00	29,103.94	45,537.96	61,629.68	73,334.77
4. Miscellaneous	20,000.00	1,762.00	20,000.00	4,992.66	7,175.03	11,382.04	15,122.03
5. In-Country Logistic Support	167,000.00	35,993.53	250,000.00	95,928.90	165,656.72	259,934.04	355,564.85
6. Contingencies	130,000	-	104,000.00	-	-	-	-
Total Technical Assist.	938,000.00	119,755.43	1078,000.00	333,723.85	541,321.38	762,788.97	973,345.51
IADS Overhead	168,000.00	21,555.99	227,000.00	65,518.48	109,113.96	161,843.60	193,647.07
Total	1106,000.00	141,311.42	1305,000.00	399,242.33	650,435.34	924,632.57	1166,992.58
II. Overseas Training							
1. Training Cost	430,000.00	-	502,000.00	53,455.71	146,469.80	303,102.10	390,741.32
IADS Overhead	77,000.00	-	105,000.00	10,918.14	30,451,11	66,963.75	77,893.82
Total	507,000.00	-	607,000.00	64,373.85	176,920.91	370,065.85	468,635.14

	1	2	3	4	5	6	7	8
III	Commodities							
	1. Cost of Commodities	721,000.00	168,300.91	485,000.00	243,040.79	371,049.90	431,585.74	464,457.99
	I/DS Fees	72,000.00	16,830.09	49,000.00	24,304.07	37,105.09	43,158.67	46,445.89
	Total	793,000.00	185,131.00	534,000.00	267,344.86	408,154.99	474,744.41	510,903.88
IV.	In-Country Training							
	1. Direct Cost	98,000.00	2,155.43	98,000.00	18,543.69	26,503.27	39,959.26	46,795.64
	I/DS Fees	2,000.00	43.11	2,000.00	370.88	530.08	799.19	935.91
	Total	100,000.00	2,198.54	100,000.00	18,914.57	27,033.35	40,758.45	47,731.55
V.	Social & Physiological Research							
	1. Direct Cost	98,000.00	-	59,000.00	1,947.55	27,045.37	34,238.39	38,332.69
	I/DS Fees	2,000.00	-	1,000.00	38.95	540.91	684.78	766.67
	Total	100,000.00	-	60,000.00	1,986.50	27,586.23	34,923.17	39,099.36
	Total Direct Cost and Fees	2606,000.00	328,640.00	2606,000.00	751,862.11	1290,130.87	1845,124,45	2,233,362.51
VI.	Pre-Contract Expen.	7,000.00	7,000.00	7,000.00	7,000.00	7,000.00	7,000.00	7,000.00
	Total	2613,000.00	335,640.96	2613,000.00	758,862.11	1297,130.87	1852,124.45	2,240,362.51

16. FINANCIAL REPORT (IN-COUNTRY LOGISTIC SUPPORT)*

(U.S. Dollars)

Budget Line	1980 Expenditure	1981 Expenditure	1982 Expenditure	1983 Expenditure	1984 Expenditure
Local Staff Support	11,151	17,290	22,000	28,250	17263
Office Operation	14,761	8,743	11,110	9,910	7,593
Travel & Per Diem	639	1,827	6,616	12,062	13,229
Housing & Utilities	8,573	9,649	9,458	8,428	6,621
Vehicle Operation & Ins.	3,541	8,997	12,394	16,467	15,676
Pilot Project	-	177	8,488	13,327	40,593
Miscellaneous	2,033	519	852	1,090	-
Total	40,698	47,202	74,926	90,534	101,975

* Rounded figures as per local records

17. HMG EXPENDITURES FROM JANUARY 1980 TO DECEMBER 1984

	Item	Budget 1980-85	Cumulative Expenditure till Dec 82	Cumulative Expenditure till Dec 83	Cumulative Expenditure till Dec 84	Remarks
A.	Personnel/Office Assistance					
1.	Technicians	Rs 750,000	Rs 86,000	Rs 121,000	Rs. 200,000	Includes part-time service of - Project Director, Project Coordinator and members of coordinating committee
2.	JTs	Rs 386,800	Rs108,000	Rs 250,000	Rs. 400,000	Includes 20 HMG JTs working at 20 Project sites.
3.	Office & Services	Rs 500,000	Rs144,000	Rs 192,000	Rs 240,000	Working note: Rs. 3,000 per month office rooms and Rs. 1,000 per month office facilities.
4.	NIC Field Staff	Rs 196,000	Rs 20,000	Rs 50,000	Rs. 150,000	Working note: Considered 3 staff (1) Manager (2) Storekeeper (3) Watchman engaged in 20 different sites.
5.	Seed Plant & Lab	Rs2800,000	Rs1680,000	Rs2030,000	Rs2270,000	Includes: Khumaltar lab (Botany Division) and the seed plants handling foundation seed.
6.	Vehicle Operation/ Miscellaneous Support cost	Rs500,000	Rs 300,000	Rs 400,000	Rs 450,000	Includes: Vehicles used by NIC and HMG for project work including trucks for haulage of inputs
		Rs6234,000 1/ $ 413,000	Rs2336,000 1/	Rs3043,000 1/	Rs.3580,000 1/ $ 237,000	1/ Convertion rate $1 = Rs. 15.10
B.	Commodities HMG Seed Plants and Seed Lab. equipment in existing new facilities (not US granted) pesticides	$ 100,00	60,000	80,000	100,000	Includes: Seed Lab. Equipment (1) Khumaltar (2) Hetauda (3) Bhairahawa (4) Tarahara (5) Nepalgunj Seed Plant: (1) Khumaltar (2) Hetauda (3) Bhairahawa and Itahari Use of pesticides, chemical and seed dressing material

	Item	Budget 1980-85	Cumulative Expenditure till Dec 82	Cumulative Expenditure till Dec 83	Cumulative Expenditure till Dec 84	Remarks
C.	Participant Training	$ 42,000	16,920	35,000	63,000	Includes 11 academic and 62 non-academic
D.	Social physiological Research Personnel	$ 5,000	3,000	4,000	4,500	Includes indirect support of personnel, labs and other resources.
E.	Construction					
1.	Seed Lab.	$ 45,000	27,000	35,000	41,000	
2.	Genetic Store	"				
3.	Small Warehouse	" 162,000	97,200	130,000	150,000	Warehouses include, Damauli, Waling Surkhet, Narpha, Palpa, Dandeldhura, Sindhuli, Udaypur, Chainpur (b), Sanfebagar, Chaurijhari, Gorahi, Ilam and Taplejung.
4.	Mini Seed houses	" 400,000	240,000	325,000	380,000	
5.	Land	98,000	72,000	85,000	85,000	Includes 23 AIC sites and Khumaltar site of DOA.
F.	In-Country Training Personnel and Facilities.	20,000	8,850	15,000	20,000	Includes 298 officials for the training courses their salaries, per per diem and also other training expenses. Also training centre facilities.
G.	Evaluation	2,000	1,000	1,500	2,000	Includes: Assistance provided for external and internal evaluations.
		$1398,000			1192,500	

APPENDIX - I

MINUTES OF THE TENTH MEETING OF THE SPIS-PROJECT COORDINATION COMMITTEE (PCC) HELD ON FEBRUARY 10, 1984 AT AIC CENTRAL OFFICE.

Decisions/Observations

1. That the release of construction funds is going to be in accordance with pre-approved contracts or amendments implying that any excess of expenditure should be taken care of by AIC from own resources.

2. The question of time extension for Chaurijhari and Surkhet where construction has lagged behind was also discussed. It was decided that reasons for delay in construction completion and the justification, if any, for time extension should first be examined by the Engineering Division of AIC, and in the event of a case for consideration, a report thereof be made to AIC Chairman for necessary decision.

3. It was noted that the new seed testing laboratory and genetic storage unit at Khumaltar, though completed, are awaiting taking-over by the Department of Agriculture. Therefore, early action on this aspect was emphasized alongwith a plea for regular utilization of the laboratory as well as the genetic store.

4. The committee desired careful planning of the seed improvement training course to be organized in July 1984 with the help of Mississippi State University and Kansas State University so as to ensure participation by about 30 suitable candidates and selection of an appropriate training centre for the purpose.

5. On the question of loan to seed growers the consensus of opinion was to avoid recommending defaulters as a matter of rational policy. However, the AIC Chairman offered to intervene if the seed production plans are hampered in future due to non-availability of ADB loan to farmers at the project sites.

6. The committee was informed that the mini-seedhouses and small warehouses created by the project are, by and large, being utilized properly as envisaged. Since seed production has begun at all the sites, the mini-seedhouses are commissioned, as and when completed, to cope with the cleaning, handling and storage of improved seed.

In the end, the Chairman, Dr. T.N. Pant made a reference to the current PACD i.e. 31 August 1984 and advised that, in view of the short time left, steps should be taken to fully integrated the SPIS activities into AIC without disturbing the on-going work. If necessary, an action plan to achieve this goal should also be developed.

Thereafter the meeting dispersed hoping to meet again before August next.

APPENDIX - II

Reports and Publications

1. Semi Annual Report - 1980
2. Annual Report - 1980
3. Semi Annual Report - 1981
4. Annual Report - 1981
5. Semi Annual Report - 1982
6. Annual Report - 1982
7. Semi Annual Report - 1983
8. Annual Report - 1983
9. Semi Annual Report - 1984
10. Annual Report - 1984
11. Baseline Survey Schedules
12. Training manual for in-country training (in Nepali)
13. Revised Project Implementation Strategy
14. Technical handouts for training courses
15. Seed Program Development Strategy
16. Report of Dr. Paul F. Kaplan on "Social/Economic Factors Influencing Seed Production, Storage Distribution and Usages in Hill Areas of Nepal".
17. Report of Dr. J.F. Harrington, on "Vegetable Seed Production"
18. Report of Mr. R.G. Griffiths, on "Field Inspections and Seed Analysis".
19. Suggestions for improving the production and quality of food crop seed under Agriculture Inputs Corporation - by S.S. Bal
20. Report of Dr. J.E. Douglas on "National Seed Program".
21. Report of Mr. P.R. Mezynski on "Seed Production and Storage".
22. Course Syllabus for Seed Production, Processing and Storage - by Dr. E.D. Perdon
23. Report of Mr. Paul Koostra on "SPIS Project".
24. "Towards a Stronger Seed Program" - a paper by Mr. S.S. Bal
25. Technical commentaries - by Dr. Russell H. Bradley

APPENDIX-II

26. "Experience in Reaching Improved Seed to Small Farmers in the Hills of Nepal" - a paper by Mr. S.S. Bal.

27. Report of mid-term evaluation - September 1982.

28. Report on seed marketing - by Binod Sijapati and K.B. Hamal (ARROSC).

29. "Mini-Seedhouse Operation for Hill Seed Production and Supply in Nepal" - by S.S. Bal.

30. Report of Dr. W.C. Couvillion on "Seed Pricing".

31. "To Serve Hill Farmers with Improved Seeds and Farming Inputs" - Informational Brochure, Jan 1985.

32. "Hill Seed Supply in Nepal" - a paper by Mr. S.S. Bal.

33. Report on drying procedures and facilities for maize in the hill areas of Nepal by Dr. A.H. Boyd.

34. Report on seed and grain storage management workshop by Dr. A.H. Boyd.

35. Report on Nepal seed quality control and storage workshop by Dr. A.H. Boyd, Dr. J. Pedersen and Dr. C. Vaughan.

36. "Seed Technology Research Needs in Nepal" by Dr. J.C. Delouche.

APPENDIX-III

Field trips (by Project Supervisor and Field Supervisor) in the last one year

(From Jan-Dec 1984)

No	Dates	Site visited
1.	Jan 18-20	Gorkha, Hetauda, Janakpur & Lahan.
2.	Jan 27-Feb 1	Bhairahawa, Bharatpur and Narwanipur.
3.	January 30-2 Feb	Malekhu, Damauli, Sundarbazar
4.	February 16	Trishuli
5.	February 4-9	Chaurijhari
6.	February 22-29	Khotang, Okhaldhunga
7.	March 7-14	Pakhribas & Chainpur
8.	March 12-15	Arughat
9.	March 26-27	Bhairahawa
10.	April 2-12	Dipayal, Baitadi & Dandeldhura
11.	April 9-15	Dang, Pyuthan
12.	April 20-22	Hetauda and Pattepur
13.	April 24-29	Phidim
14.	April 27	Phidim
15.	April 29-4 May	Gyandi and Baglung
16.	May 7-11	Phidim
17.	May 21-2 June	Phidim, Pakhribas, Jirikhimti
18.	June 6-15	Rampurtar
19.	June 24-27	Dhangadhi, Mahendranagar
20.	July 10-11	Dhading
21.	Aug 4-5	Malekhu, Narayangarh, Hetauda
22.	Aug 7-8	Hetauda
23.	Aug 21-22	Gorkha
24.	Sept 3-5	Bhairahawa

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No.	Dates	Site visited
25.	Aug 13-Sept 2	Charikot, Rampurtar, Pakhribas.
26.	Sept. 13-16	Bhairahawa/Hetauda
27.	Nov 12-13	Trishuli
28.	Nov 14-19	Bijuwar
29.	Nov 22	Sundarbazar
30.	Dec 9-16	Khotang
31.	Dec 11-20	Tansen, Majuwa, Bijuwar, Dang etc.