

# Mountain Province State Polytechnic College

Bontoc, Mountain Province

## TERMINAL REPORT

**2014 PRE-ASSESSMENT MEETING OF  
THE DA-IRRI-PHILRICE HEIRLOOM RICE  
RESEARCH AND DEVELOPMENT IN  
MOUNTAIN PROVINCE**

October 30, 2014

Conference Hall, MPSPC, Bontoc

Mountain Province



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Republic of the Philippines

**Mountain Province State Polytechnic College**

Bontoc, Mountain Province

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**A TERMINAL REPORT ON THE  
2014 PRE-ASSESSMENT MEETING OF THE DA-IRRI-PhilRice HEIRLOOM RICE RESEARCH AND  
DEVELOPMENT IN MOUNTAIN PROVINCE held at the Conference Hall, MPSPC Bontoc,  
Mountain Province on October 30, 2014**

Attendance: See attendance sheet attached

**I. PRELIMINARIES:**

- The activity started with an opening prayer led by Ms. Karyl A. Po-or.
- Acknowledgement of the participants was given by Dr. Susan A. Lopez, the Vice President for Research Development and Extension.
- The opening remarks of the President, as he could not attend the meeting due to important matters, was read by the Vice President for Administration and Finance, Mr. Rogelio Balcita, Jr. He relayed the message of the College President saying that that the President fully supports the said project, and that the administration is in full support of such kind of endeavors that are beneficial to MPSPC as a whole.

**II. ACTIVITY PROPER:**

- The activity covered the following agenda:
  - Review of 2014 Work Plan;
  - Reporting per Component; and
  - Strategizing of Plans.
- Mr. Joel Faroden, the project leader, gave an overview about the Cordillera Heirloom Rice Project where he said that this project is a three year collaborative research venture. During the presentation, queries were raised by Mr. Rogelio Balcita Jr. He clarified if the project is intended to produce for export or for commercialization purposes. Mr. Faroden, together with one of the participants, said that the project intends to conserve, increase and restore all varieties of the Heirloom Rice because it is important in plant propagations. However, they added that the next is to plan on how to increase the production of these heirloom varieties.
- The reporting per component came after the overview.
  - **Component 1** – “Varietal Product Development through Characterization of Existing Heirloom Rice Climate-Resilient Varieties in Mountain Province”
    - As stated by Mr. Faroden, this component covers the collection, inventory, and cataloguing of existing varieties. This is where they undergo a varietal performance trial for characterization of the heirloom rice. Other activities like genetic profiling, establishment of demonstration farm for seed production, conduct of field day and visits, quality analysis of the varieties, and establishment of community registry are also part of this component.
  - **Component 2** – “Local Capacity Enhancement, Identification of Self-Help Groups”

- Mr. Elmer Pakipac, one of the study leaders, discussed on this component where he fully touched on the local capacity enhancement. He discussed on the things they did in Activity 1 and Activity 2 of Project Component 2 where they did site characterization, soil sampling secondary data collection, soil and biological analysis. He further presented their outputs when they did FGDs with the concerned local folks in the concerned project sites. He also presented the profile of the Self –Help Groups (SHGs) in Mountain Province. Other than this, Mr. Pakipac also presented the problems besetting the project such as weak management, irrigation problems and lack of farm implement among others, and also on the issues and concerns of the project such as issues on bio-physical characterization, soils samples in Barlig, pests and diseases, and the collection of data for control groups. In addition to these topics, he also said that MOA for the next cycle is being prepared.
- Component 3 – “Rapid Value Chain”
  - Ms. Genevieve L. Sagandoy, one of the study leaders too, presented on this 3<sup>rd</sup> component. She reported that the seminar-workshop on Rapid Value Chain for Heirloom Rice Project was conducted last Sept. 24-25, 2014 at the Ridgebrook Hotel with thirty (30) participants from the different cooperating agencies. She further reported that during the said seminar – workshop, problems of the farmers and the project team were presented. Actions to be done and recommendations were also identified.
- Component 4 – “Models, Knowledge Management”
  - Under this component, Mr. Joel Faroden gave a brief reporting on this where he said that the survey for the control group in Barlig and Bauko is still on going.

**P.M. SESSION:** The afternoon session which is on strategizing of plans started at 1:15

### III. STRATEGIZING OF PLANS

- The following are the initial plans of the group for each component in the said project:
  - Component 1:
    - a. Data gathering documentation
    - b. Come up with records of the dates of all farming activities
    - c. Needs
      - > Characterization of data sheets
      - > Carpenter meter/tape measure
      - > Photo documentation
    - d. Materials needed in the lamination of the document which consists of the Barangay, farmer’s name, variety name, and a sample number.
  - Component 2



a. Site characterization

\* For Banao, Bauko – this will be done on November 18-21, 2014

\* For Barlig - this will be done o November 2-28, 2014

- Component 3

a. To submit report on the extensive value chain analysis

- Component 4

a. On going survey of the control groups of Bauko and Barlig

b. Expected output: Interview for the control groups will be finished.

#### IV. Closing Remarks:

The meeting formally ended at 2:00 pm

Prepared by:



**Methuselah Magsino-Kollin**

Staff, RD Unit

Noted:



**ELMER PAKIPAC**

Extension Director





Title of the Program/ Training/Meeting:

2014 Pre-Assessment Meeting of DA-IRRI-PhilRice Heirloom Rice

Check  
Specify  
Type

Meeting  
Training  
Orientation

Date: October 30, 2014 Venue: Conference Hall, MPSPC, Bontoc, Mountain Province

Printed Name	Designation/ Position/ Department	Signature
1 SILDON, MARIN	OPACI	
2 Ayas, Felicidad C.	Science Aide	
3 Kollin, Mathewale M.	MPSPC	
4 Kmyl A. Poirer	MPSPC	
5 Joel Faroden	MPSPC	
6 MELANIE L. LAGASCA	MPSPC	
7 NGAYA-AN K. SIGCOP	Science Aid	
8 <del>CEFERINO C. ORYAN</del>	MPSPC	
9 SWAN LOPEZ	UP RDE	
10 Elme Palan	MPSPC	
11 GENOVINE L. GAGANDY	MPSPC	
12 MELANIE S. SUBILLA	MPSPC	
13 Mary T. Dumangla	MPSPC	
14 NORALYN B. CHINAGAL	MPSPC	
15 CARMEN A. MAMUET	MPSPC	
16 Arturo Balagon	MPSPC	
17 Linda L. Curingay	MPSPC	
18 SHANE BICASE MANGACHAO	MPSPC	
19 Shani Kumalao	MPSPC	
20 Alvin Ticanan	MPSPC	
21 ROCHELLE ANIN DALAY-ON	MPSPC	
22		
23		
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CERTIFICATION

This is to certify that the above is the true and correct attendance list of the participants/facilitators/secretariat of the **2014 Pre-Assessment Meeting of DA-IRRI-PhilRice Heirloom Rice**. This is to certify further that the meals/snack claimed for payment by the caterer was served to the above participants.

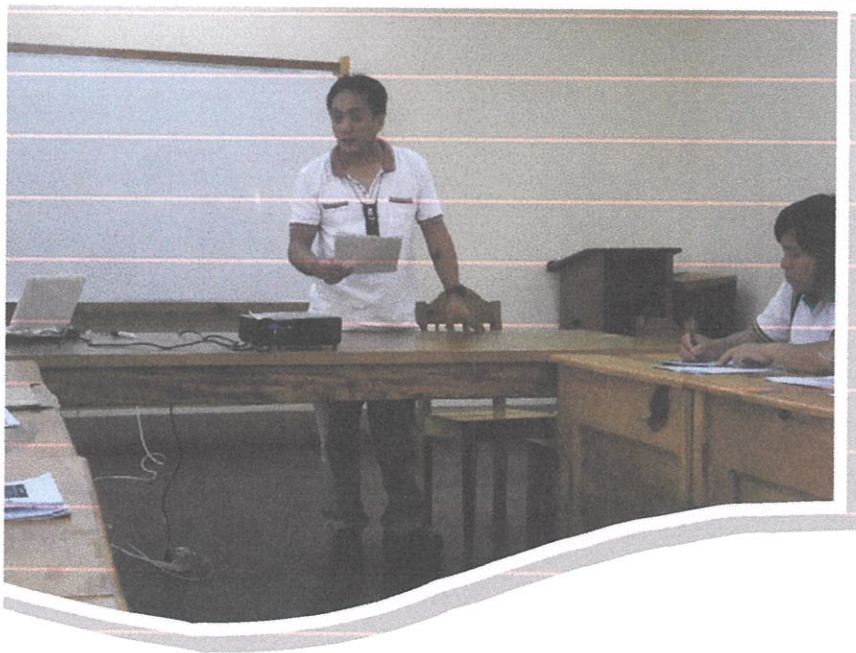
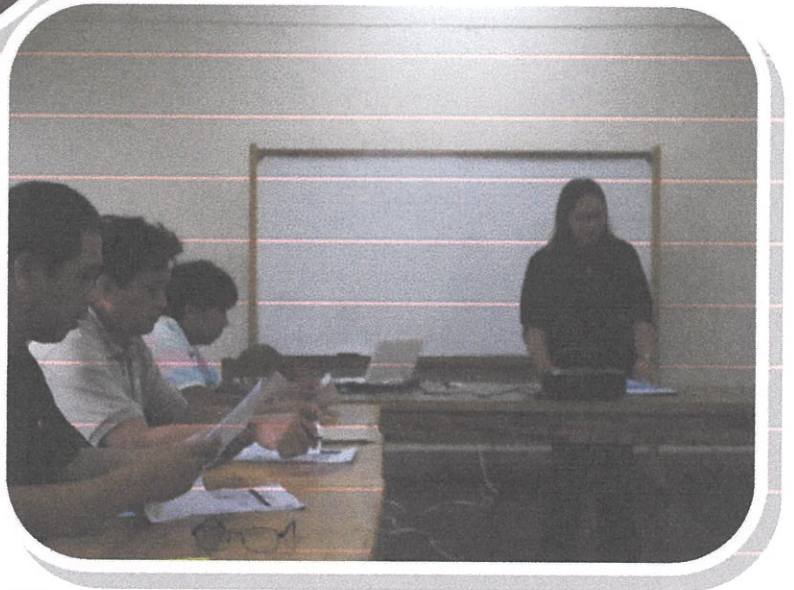
JOEL C. FARODEN  
Focal Person, HR Project





Methuselah Kollin, an Admin Staff of the RDE Sector, giving the sequence of the activity

The acknowledgment of the participants being done by Dr. Susan Lopez, the Vice President of the RDE sector



Mr. Rogelio Balcita, Jr., the Vice President for Administration and Finance representing the College President and delivering the president's message at the same time

CHRP Project leader Mr. Joel Faroden giving an overview of the project at the same time reporting its first component







Mr. Elmer Pakipac, one of the study leaders, discussing the second component of the project



Ms. Genevieve Sagandoy, giving a description about the Rapid Value Chain, the third component of the project



Closing remarks given by Dr. Susan Lopez after the group has discussed the plans they made for the next cycles of the project





# 2014 Pre-Assessment Meeting of DA-IRRI-PhilRice Heirloom Rice

*Research and Development in Mountain Province*  
*October 30, 2014 Conference Hall, MPSPC Bontoc*

## ACTIVITY SCHEDULE

Time	Activity	Person In-charge
8:00-8:30	Arrival	<i>Felicidad Ayeo</i>
8:30-9:30	Preliminaries	
	- Opening Prayer	<i>Karyl A. Po-or</i> SRA
	- Acknowledgment of Participants	<i>Dr. Susan A. Lopez</i> VPRDE
	- Opening Remarks & Message	<i>Dr. Rexton Chakas</i> College President
9:00-12:00	Activity Proper	
	Review of 2014 Work Plan	<i>Joel Faroden</i> Project Leader
	Reporting per Component	
	- Component 1	<i>Joel Faroden</i>
	- Component 2	<i>Elmer Pakipac</i> Study Leader
	- Component 3	<i>Genevieve Sagandoy</i> Study Leader
	- Component 4	<i>Loida Tibong</i> Study Leader
	Comments and Inputs from the different agencies	
	Issues and Concerns	<i>Joel Faroden</i>
12:00—1:30	Lunch Break	
1:30-3:00	Strategizing of Plans	<i>Elmer Pakipac</i>
	Closing Remarks	<i>Dr. Susan A. Lopez</i> VPRDE

*This serves as an invitation*





Republic of the Philippines

**Mountain Province State Polytechnic College**

Tadian Campus, Tadian Mountain Province

Extension Form 1

## ACTIVITY DESIGN

### I. ACTIVITY IDENTIFICATION

Training Title: 2014 Pre-assessment meeting of DA-IRRI-PhilRice Heirloom Rice Research and Development in Mountain Province

Extension Component: (please check appropriate box)

- ☒ Training/seminar/workshop/Meeting
- ☐ Technology Transfer and utilization
- ☐ Technical assistance and advisory services
- ☐ Information dissemination
- ☐ Community involvement/outreach activities

Extension Program: (please check appropriate box)

- ☒ Agricultural Extension
- ☐ Technical/Vocational
- ☐ Continuing Education for Professionals
- ☐ Others

Implementing Department : College of Forestry  
: Joel C. Faroden

Participants : Mountain Province HR Team  
3 members from MLGU-Barlig  
3 members from MLGU-Bauko  
4 members from PLGU-Mountain Province  
6 members from MPSPC  
1 VPRDE – MPSPC ✓  
1 Research Director – MPSPC ✓  
1 Accountant – MPSPC on VPRDE - Rogelio Bracio  
1 OP Staff - Dexter Lingbangan

Venue : Conference Hall, MPSPC Bontoc

Date : October 30, 2014

Budget Requirement : **PhP6,000.00**

Source of Fund  
MPSPC Heirloom Fund



## II. RATIONALE:

The Heirloom Rice R and D in Mountain Province is a three year collaborative research venture of MPSPC, IRRI, DA-CAR, PhilRice, PLGU-MP, LGU-Barlig, LGU-Bauko, and with technical assistance of BSU. MPSPC is the lead agency in the implementation of the project in the Province and was formally started on August 01, 2014. The research aims to the enhance productivity and livelihoods and conserve *in-situ* on-farm farmer-preferred heirloom/traditional, climate-resilient varieties and upland food crops by providing rice genetic resources and management options to smallholder groups and enterprises as models. Specifically, the objectives are to (1) Enhance on-farm conservation of diverse farmer-preferred (heirloom/ traditional and climate-resilient) varieties through "restoration" and promotion; (2) Improve farm productivity through sustained availability of clean, good quality seeds; (3) Enhance local capacity for organizing and developing entrepreneurial skills among farming communities for seeds and crop products development; and (4) Identify opportunities for value addition and market linkages for premium heirloom/traditional rice grown in unfavorable rain fed areas.

The project has four components namely; (1) Varietal product development through characterization of existing heirloom rice climate-resilient varieties in Mountain Province; (2) Enhancing local capacity and enterprise building in farming communities; (3) Identify opportunities for value addition and market linkages for heirloom/ traditional rice, using value chain analysis; and (4) Documentation of model, knowledge management, and participatory M&E of project activities

With just three months direct involvement in the project there is a need to assess the accomplished activities and find out strategies to comply with the remaining target for the next two months. Also, this assessment will renew the commitment of each team members from the different agencies to assure timely accomplishment of the targets.

## III. OBJECTIVES:

Specifically, the meeting wants:

1. To report status of activities per component;
2. To evaluate accomplished activities compare to the planned activities; and
3. To strategies methodologies on how to accomplish doable activities for the next two months (November-December 2014).

## IV. METHODOLOGIES

This meeting will be employing various strategies but not limited to the following:

1. Participatory lecture/discussions.
2. Reporting
3. Power point presentation
4. Question and answer
5. Workshop

## V. BUDGETARY REQUIREMENT



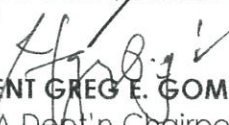




Quantity	Unit	Particular	Unit cost	Total cost
A. Meals and Snacks				
20	Pax	AM Snacks	75	1500
20	Pax	Lunch	150	3000
20	Pax	PM Snacks	75	1500
TOTAL				<b>6,000</b>

## VI. ACTIVITY SCHEDULE

October 30, 2014 Wednesday

TIME	ACTIVITY	Person In-charge
8:00 – 8:30	Arrival	Felicidad
8:30-9:00	Preliminary	Loida
9:00-12:00	Meeting proper <ul style="list-style-type: none"> <li>- Reporting per component</li> <li>- Comments and inputting from the different agencies</li> <li>- Review of 2014 work plan</li> </ul>	Joel
12:00 – 1:30	Lunch Break	
1:00– 3:00	Strategize planning for the remaining two months	Elmer

## VII. RECOMMENDATION AND APPROVAL

Prepared By:  <b>JOEL C. FARODEN</b> Project Leader	Noted By:  <b>SANTIAGO T. RECILE</b> Executive Dean, Tadian Campus  <b>BRENT GREG E. GOMUAD</b> DFA Dept'n Chairperson
Reviewed by:  <b>ELMER D. PAKIPAC</b> Extension Director	Funds Available:  <b>IMELDA D. GUIRANGON</b> Accountant
Recommended by:  <b>SUSAN A. LOPEZ Ph.D.</b> VP for Research Development and Extension	Approved by:  <b>REXTON F. CHAKAS Ph.D.</b> MPSPC President

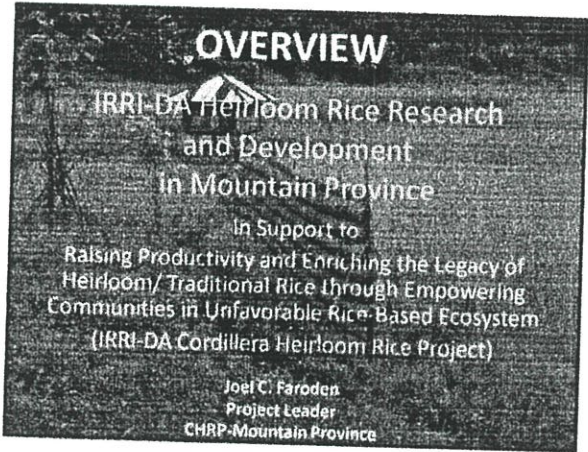


# OVERVIEW

## IRRI-DA Heirloom Rice Research and Development in Mountain Province





In Support to  
Raising Productivity and Enriching the Legacy of Heirloom/ Traditional Rice Through Empowering Communities in Unfavorable Rice-Based Ecosystem (IRRI-DA Cordillera Heirloom Rice Project)

Joel C. Faroden  
Project Leader  
CHRP-Mountain Province



Mountain Province Heirloom Rice Research Group		
1. MPSPC Research Team – Lead Agency team		
COMPONENT	NAME	DESIGNATION
1	JOEL C. FARODEN	Project leader/ Study leader
2	ELMER D. PAKIPAC	Study Leader
3	GENEVIEVE SAGANDOY	Study Leader
4	LOIDA ELAINE TIBONG	Study Leader
Assign in Bauko	FELICIDAD C. AYE	Science Aide
Assign in Barlig	NGAYA-AN SIGCOP	Science Aide

Heirloom Rice Research and Development in Mountain Province is a three year collaborative research venture of IRRI, DA-CAR, PhilRice, MPSPC, PLGU-MP, LGU-Barlig, LGU-Bauko, and with technical assistance of BSU.




2. PLGU – Mountain Province Team		
Component	Name	Designation
	John K. Likigan	Project Leader
1	Jovita K. Camso	Study Leader
2	Genevieve E. Falag-ey	Study Leader
3	Mary Frances Buansi	Study Leader
4	Mario T. Sildon	Study Leader

### What is Heirloom Rice?

- ✓Traditional rice cultivars passed down through generations, and are normally grown in small family farms.
- ✓They are normally in demand locally and internationally due to their exceptional cooking quality, flavor, aroma, texture, color, and nutritional value.
- ✓They are also resilient, with resistance to biotic stress and tolerance to abiotic stresses.

CM Vera Cruz, 2014. CHRP General Proposal



3. MLGU – Barlig Team		
Component	Name	Designation
	Ceferino Oryan	Project Leader
	Marilyn Fogayong	Study Leader
	Ruth Dacusol	Study Leader

4. MLGU - BaukoTeam

Component	Name	Designation
	Caroline B. Wandalen	Project Leader
	Melanie L. Lagasca	Study Leader
	Ely Rose P. Payacda	Study Leader

- 3. To enhance local capacity for organizing and developing entrepreneurial skills among farming communities for seeds and crop products development; and
- 4. Identify opportunities for value addition and market linkages for premium heirloom/traditional rice grown in unfavorable rain fed areas.

The research aims to the enhance productivity and livelihoods and conserve *in-situ* on-farm farmer-preferred heirloom/traditional, climate-resilient varieties and upland food crops by providing rice genetic resources and management options to smallholder groups and enterprises as models.

Four Project Components and Activities

- 1. Varietal product development through characterization of existing heirloom rice climate-resilient varieties in Mountain Province;
  - 1.1 Collection, inventory, cataloguing of existing varieties
  - 1.2 Establishment of varietal performance trial for characterization of traditional/heirloom varieties and participatory varietal selection (PVS).
  - 1.3 Genetic profiling/DNA fingerprinting of farmer-preferred heirloom/traditional /improved varieties
  - 1.4 Establishment of demonstration farm for seed production of farmer-selected and characterized varieties.
  - 1.5 Conduct of Field Day, farm walk and Cross-site visits for knowledge sharing among farmers

Specifically, the objectives are:

- 1. To Enhance on-farm conservation of diverse farmer-preferred (heirloom/traditional and climate-resilient) varieties through "restoration" and promotion;
- 2. To Improve farm productivity through sustained availability of clean, good quality seeds;



*1.6 Nutrition and grain quality analyses of premium heirloom/traditional varieties sold under Fair Trade and other markets.*

*1.7 Establishment of community registry of indigenous varieties to retain community ownership*

**3. Identify opportunities for value addition and market linkages for heirloom/ traditional rice, using value chain analysis.**

*3.1 Conduct of value chain analysis*

*3.2 Identification of market opportunities, and production gaps that need intervention and packaging of business plans.*

## **2. Enhancing local capacity and enterprise building in farming communities**

*2.1 Organizing or strengthening existing community self-help groups (SHGs) of men and women farmers/indigenous people for better Market linkages*

*2.2 Participatory Needs and Opportunities Assessment (PNOA), baseline surveys, and gender analysis of the farming activities and rice-based systems*

## **4. Documentation of model, knowledge management, and participatory M&E**

*4.1 Documentation and sharing of knowledge through information, education and communication (IEC), and information and communication technology (ICT)*

*4.2 Establishment of M & E mechanism*

*4.3 Assessment of outcomes/benefits*

*2.3 Identification of priority interventions*

*2.4 Conduct of Farmer Field Schools (FFS) and other capacity enhancement activities at farmers' level focusing on identified needs*

## **TARGET SELF-HELP GROUPS**

Municipality/ Brgy	Name of SHG	Existing members
Barlig Chupak	Kadaklan Heirloom Rice Org.	80
Poblacion	Barlig Heirloom Rice Org.	30
Bauko		
Bila	Blooming Hills RTFC Bauko Organization	25
Banao	Blooming Hills RTFC Bauko Organization	6



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Identified Heirloom Rice Varieties	
Location	Variety
Barlig	
Chupac	Ominio, Akangan, Puliki, Fiagsang
Poblacion	Chorchor-os, Kulli, Enngoppor, Chinannay
Bauko	
Bila	Balatinaw, Gilgilang, Uhkil, Getbaw, Makalaniag,
Banao	Wadingan, Balahangey, Balatinaw old, and Lantiko

2014 Consolidated Work Plan

Please see separate copy

Thank You!

**List of Farmers, Varieties for DNA Analysis**  
**As of September 23, 2014 (samples consolidated at IRRI)**

**Mountain Province**

Municipality/ Barangay	Variety*	Farmer	Samples collected	Notes
Barlig Kadaclan	Ominio (5)	1. Eliza Yawan	15	<b>TOTAL OF 75 envelopes submitted</b> (11 September 2014, Azalea Residences)  #2,3: non-RTFC
		2. Belonia Tenaynan	15	
		3. Josefina Achaol	15	
		4. Yulieren Ogasna	15	
		5. Ursula Mundo	15	
	Pulliki (1)	1. Lucia Pudlao	15	<b>TOTAL of 15 envelopes submitted</b> (11 September 2014, Azalea Residences)
	Akangan (9)	1. Norton Lanusa	15	<b>TOTAL OF 75 envelopes submitted</b> (11 September 2014, Azalea Residences)  #1-2: from Sitio Og-og #3-9: from Sitio Chupac  #1-2,5,7-9: non-RTFC
		2. Florence Joseph	15	
		3. Ling-ngay Hubbog	15	
		4. Diego Tagtagon	15	
		5. Elma Machuli	15	
		6. Marcelyn Basuel	15	
		7. Cercile Fiaryon	15	
		8. Ines Ayawan	15	
		9. Amelita Sin-od	15	
Barlig Poblacion	Chor-chor-os (10)	1. Leonida Nginsay	10	<b>TOTAL of 100 envelopes submitted</b> (11 September 2014, Azalea Residences)  #1: from Sitio Fianno, Latang #6: from Sitio Charan, Latang #2-5,7-8: from Chator, Macalana #9-10: from Kinnasor, Macalana & non-RTFC
		2. Dalen Fagyen	10	
		3. Petra Acierto	10	
		4. Imelda Pangowon	10	
		5. Rosalie Witawit	10	
		6. Salonica Ayasao	10	
		7. Taning Ayuga	10	
		8. Matilde Aticor	10	
		9. Angelica Andawey	10	
		10. Evelyn Areola	10	
	Kuli-i (10)	1. Taning Ayuga	10	<b>TOTAL of 100 envelopes submitted</b> (11 September 2014, Azalea Residences)  #1: from Sitio Fianna, Gawana & RTFC member (the rest are non-RTFC) #2,7: from Sitio Kialling, Macalana #3,8: from Sitio Kinnao Macalana #4: from Sitio Fialli, Fiangtin #5: from Sitio Kusat, Macalana #6: from Sitio Tagpaya, Macalana #9-10: from Sitio Kachattay, Latang
		2. Tirso Arud	10	
		3. Margareth Cario	10	
		4. Rita Chuliyao	10	
		5. Angelica Andawey	10	
		6. Levina Ngaya	10	
		7. Evelyn Areola	10	
		8. Eriqueta Aggac	10	
		9. Rosita Espilan	10	
		10. Jane Lamtocon	10	
	Enggoppor (10)	1. Rosa Cogan	10	<b>TOTAL of 100 envelopes submitted</b> (11 September 2014, Azalea Residences)  #1: from Sitio Kinnasor, Macalana #2: from Sitio Lubfon, Macalana #3,6,8,10: from Sitio Fialli, Fiangtin #4: from Sitio Fianna, Gawana #5: from Sitio Arak, Latang #7-9: From Sitio Seneget, Fiangtin  #1-4: RTFC members (the rest are non-RTFC)
		2. Severino Ligyasi	10	
		3. Merilyn Fogayong	10	
		4. Caridad Lagkeo	10	
		5. Alpha Sumilao	10	
		6. Annabel Ngaya	10	
		7. Marites Balongyad	10	
		8. Fidela Agpad	10	
		9. Brent Namingsan	10	
		10. Virginia Puyao	10	



Barlig Poblacion	Chinnannay (10)	1. Leonida Nginsay	10	<b>TOTAL of 100 envelopes submitted</b> (11 September 2014, Azalea Residences)  #1: from Sitio Kachattay, Latang; RTFC member #2: from Sitio Fiayfiay, Latang; RTFC member #3: from Sitio Payossi, Gawana #4: from Sitio Maanamam, Fiangtin #5: from Sitio Kiattiw, Latang #6: from Sitio Fiallok, Fiangtin #7: from Sitio Kialling, Macalana #8: from Sitio Charuya, Fiangtin #9: from Sitio Kinnasor, Macalana #10: from Sitio Finna, Gawana
		2. Dalen Fagyan	10	
		3. Tito Ayongchi	10	
		4. Lazaro Lamaton	10	
		5. Mila Chammag	10	
		6. Perlita Sigcop	10	
		7. Jessica Tawiyon	10	
		8. Serafin Cawacao	10	
		9. Evelyn Areola	10	
		10. Alejandra Mawini	10	
	Fiagsang (2)	1. Tiberia Chil-ang	10	<b>TOTAL of 100 envelopes submitted</b> (11 September 2014, Azalea Residences)  #1,4,9: from Sitio Kialling, Macalana #2: from Sitio Chator, Macalanana #3,6: from Sitio Fiallok, Fiangtin #5: from Sitio Fianno, Latang #7-8: from Sitio Fialli, Fiangtin #10: from Sitio Kusat, Macalana  #1-3: RTFC members (the rest are non-RTFC)
		2. Taning Ayuga	10	
		3. Carmen Losaona	10	
		4. Clemente Pinos-an	10	
		5. Fresca Tawiyon	10	
		6. Buenaventura Matib J	10	
		7. Kenyo Marcelo	10	
		8. Linda Kunayon	10	
		9. Marina Balilis	10	
		10. Bonifacio Kunayon	10	
Bauko Bila	Balatinaw (10) <i>existing</i>	1. Theodora Ayban	15	<b>TOTAL OF 150 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
		2. Estela Engke	15	
		3. Prima Langway	15	
		4. Benedicto Payacda	15	
		5. Elena Cawa-it	15	
		6. Luz Lapinas	15	
		7. Onil Wadingan	15	
		8. Rudy Punasen	15	
		9. Saturnina Wadingan	15	
		10. Marina Dumal-in	15	
	Gilgilang (9) <i>existing</i>	1. Felicidad Kibad	15	<b>TOTAL OF 120 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)  #7: no samples submitted
		2. Narciso Wadingan	15	
		3. Manuela Dona-ayan	15	
		4. Dominica Patil-ao	15	
		5. Rosita Pinkiyen	15	
		6. Jerome Lumabas	15	
		7. Ignacia Payacda		
		8. Caridad Payacda	15	
		9. John Wadingan	15	
Bauko, Banao / Lagawa  <i>decreasing / diminishing</i>	Okhil (2)	1. Martinez Damayan	15	<b>TOTAL OF 30 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
		2. Julia Damayan	15	
	Wadingan (1)	1. Rosita Wagsis	6	<b>TOTAL OF 6 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
	Makalaniag (2)	1. Maura Lacwasan	15	<b>TOTAL OF 28 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
		2. Rosita Wagsis	13	
	Getbaw (2)	1. Rosita Wagsis	15	<b>TOTAL OF 30 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
		2. Felipe Wagsis	15	
	Balahangey (2)	1. Rosita Wagsis	15	<b>TOTAL OF 30 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
		2. Felipe Wagsis	15	
	Balatinaw K (old)	1. Rosita Wagsis	14	<b>TOTAL OF 24 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
		2. Peter Gawec	10	
	Lantiko (2)	1. Rosita Wagsis	15	<b>TOTAL OF 25 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)
		2. Felipe Bugtong	10	
	Mantika (1)	1. Rosita Wagsis	11	<b>TOTAL OF 11 envelopes submitted</b> (8 July 2014, Mt. Data Hotel)


Numbers in parenthesis - number of farmers who

**\*LEGEND:**

Green font - with market  
Blue font - with potential  
Red font - near extinction



**Progress Report**



**Component 1:**  
Varietal product development through characterization of existing heirloom rice climate-resilient varieties in Mountain Province

Joel C. Faroden  
Project Leader  
CHRP-Mountain Province

**MAJOR ACTIVITIES UNDERTAKEN**

1. Inventory and collection of existing varieties - 3 criteria
2. Submitted farmer-preferred heirloom rice varieties for genetic profiling/DNA fingerprinting at IRRI

Submitted heirloom rice varieties for genetic profiling/DNA fingerprinting at IRRI

Location	Variety
Barlig, Chupac	Ominio, Akangan, Puliki, Flagsang
Poblacion	Chorchor-os, Kulii, Enngoppor, Chinannay
Bauko, Bila	Balatinaw, Gilgilang, Ukhil, Getbaw, Makalaniag, Wadingan,
Banao	Balahangey, Balatinaw old, and Lantiko

Note: See separate sheet for details

**3. Morpho-Agronomic Characterization of Heirloom Rice:**  
Descriptors for data collection

Vegetative Stage

1. Auricle color\*
2. Leaf ligule color
3. Leaf collar color
4. Basal leaf sheath color
5. Leaf blade (anthocyanin coloration)
6. Leaf blade (distribution of anthocyanin)

**Descriptors for data collection**

Reproductive Stage (early Observation)

7. Heading: Number of days to Heading (80% of the plants with 50% of the spikelets within the panicle shed pollen\*)
8. Flagleaf: Attitude\*
9. Lemma: Anthocyanin coloration of the apex\*
10. Spikelet: Presence of awn\*
11. Spikelet: Color of the Stigma\*
12. Spikelets: color of apiculus
13. Awns: color of awns
14. Awns: length of awns

**Descriptors for data collection**

Reproductive Stage (late observation)

15. Flagleaf: Attitude\*
16. Culm: Color of the node\*
17. Panicle: Curvature of the main axis\*
18. Panicle: Type of Branches\*
19. Length of the Panicle\*
20. Panicle: number per plant
21. Days of maturity



**Descriptors for data collection**

Quantitative (Field measurements)

22. Culm: Length\*

Post-Harvest Stage

23. Spikelet Density of Pubescence of the Lemma\*

24. Panicle: Length of the Panicle\*

25. Spikelet: Grain length and Width (shape)\*

26. Spikelet: Decorticated Grain color\*

27. Spikelet: Decorticated Grain Aroma\*

**Descriptors for data collection**

28. Grain weight of 1000 fully developed grains by 14% MC

29. Decorticated grain: length

30. Decorticated grain: width

31. Decorticated grain: shape (lateral view)

**End of Report**

**Thank you  
and  
advance Merry Christmas**

IRRI-DA Heirloom Rice Research and Development in Mountain Province  
Raising Productivity and Enriching the Legacy of Heirloom/Traditional Rice through Empowering  
Communities in Unfavorable Rice Based Ecosystem  
2014 CONSOLIDATED WORKPLAN

Note 1: for component 1, it is the workshop out during the photo documentation training and heirloom rice project meeting held at Banaue on June 3-5, 2014.

Note 2: meeting Output of workshop of Socioeconomics Team (July 31-August 1) and to be integrated later with Consolidated Workplan for Component 2 (c/o PhilRice), component 3 (c/o market linkages and business model team), and component 4 to add knowledge management activities to be prepared by the KM Team

Note 3: For each activity, lead person is identified from SCU; IRRI, DA regional office, PhilRice is part of the team, together with LGUs, farmers' groups

Activity	Timeline	Persons involved	Budget (who will finance)	Notes, comments
<i>Component 1. Varietal product development through characterization of existing heirloom rice climate-resilient varieties in Mountain Province</i>				
1. Validation of standing heirloom rice with the names of farmers per variety and tagging of sample tillers	June 10 – 11, 2014	OMAg, RTFC Leader		
2. Submission of the list of RTFC members with the standing heirloom rice varieties and final list of varieties to be characterized (retain 13 and classify such if red, blue or green)	June 12, 2014	OMAg –Barlig and OMAg-Bauko		
3. Data gathering (Observation on Late Vegetative Stage & Early Reproductive /Maturity Stage) Bila, Bauko Banao, Bauko Kadaclan Cluster Poblacion Cluster	June 17, 2014 June 18, 2014 June 19, 2014 June 20, 2014	OMAg-Barlig, OMAg-Bauko, MPSPC, PLGU, DA, PhilRice, IRRI		
4. Observation on Late Reproductive/ Maturity Stage Characterization & Quantitative Field Measurements a. Banao, Bauko b. Bila, Bauko c. Kadaclan Cluster d. Poblacion Cluster	1 <sup>st</sup> week of July, 2014 3 <sup>rd</sup> week of June, 2014 3 <sup>rd</sup> week of June, 2014 3 <sup>rd</sup> week of July, 2014	OMAg-Bauko, OMAg-Barlig MPSPC, PLGU, DA, PhilRice, IRRI		
5. Preparation and labelling of packing papers for the panicles (name of variety, Name of farmer, Location of field, Barangay & Municipality, Sample No.	3 <sup>rd</sup> week of June, 2014	MPSPC		
6. HARVESTING (collection of panicle samples) a. Banao, Bauko b. Bila, Bauko c. Kadaclan Cluster d. Poblacion Cluster	2 <sup>nd</sup> week of July, 2014 Last week of June, 2014 Last week of June, 2014 Last week of July, 2014	Research team w/ farmers		



Activity	Timeline	Persons involved	Budget (who will finance)	Notes, comments
7. POST-HARVEST STAGE CHARACTERIZATION a. Banao, Bauko b. Bila, Bauko c. Kadaclan Cluster d. Poblacion Cluster	3 <sup>rd</sup> week of July, 2014 1 <sup>st</sup> week of July, 2014 1 <sup>st</sup> week of July, 2014 1 <sup>st</sup> week of August, 2014	OMAg-Barlig, OMAg-Bauko, MPSPC, PLGU, IRRI, PhilRice		
8. Submission of collected samples of Heirloom rice varieties to MPSPC	2 <sup>nd</sup> week of August, 2014	OMAg		
9. Data analysis, packaging and report preparation for submission to DA-CAR	3 <sup>rd</sup> week of August, 2014	MPSPC		
10. Submission of collected samples of heirloom rice varieties to IRRI	3 <sup>rd</sup> week of August, 2014	MPSPC		
<i>Component 2 Local capacity enhancement, identification of SHGs</i>				
1. Site characterization (biophysical) Soil sampling, secondary data collection, soil and biological analysis	Sept - December	Mr. Joel Faroden, Mr. Elmer Pakipak	SCUs - from funds provided by DA; and (if any) regular research work;	See Attachment A for list: In support of the varietal characterization and GI registration.  Any data not available from secondary sources and that will have additional costs will be identified by SCUs and reported to the management team; SCUs to check on available secondary sources from other projects, and what they can analyze as part of their research. BSWM, DOST secondary data collection - to be done by hired staff of Dr. Nollie Vera Cruz
2. Pre-implementation/ Social mobilization, with FGD	October 15 - 17  Report on FGD is due one month after the conduct of the activity	SCU lead, in tandem with Ruben Miranda and team of Philrice and LGUs; together with IRRI (Digna Manzanilla), DA regional office (Maggie Manawan and Virgie Tapat;  LGUs should be given major role during the activity  SCU lead persons	DA regional office will pay for Benguet and MP for 6 barangays; IRRI will also provide supplemental budget as necessary;  ~ PhP8000 for 50 pax snacks and lunch; SCUs will prepare materials for reproduction	See Attachment B: FGD Topical Guide - includes introduction about the project; as necessary some PNOA/RRA tools described  SCU to lead together with LGUs, IRRI, DA regional office and Philrice; for the logistics, SCU should be able to mobilize project teams.

Activity	Timeline	Persons involved	Budget (who will finance)	Notes, comments
<i>Component 3 Linking farmers to value chain</i>				
1. Rapid value chain assessment (7-10 days)	Itinerary, program to be arranged, to cover major actors  September 22 - 30	Team led by IRRI Dr. Matty Demont, Digna Manzanilla, Al Schmidley, Vicky Garcia, Maggie Manawan, Virgie Tapat, Philrice value chain expert, Joel Faroden and Mr. Elmer Pakipak	IRRI to cover the expenses on site; travel of SCU and DA staff included in their available budget releases.	The itinerary will be coordinated by DA regional office to be sent to all participants, members of the team.  Discussion will include visits to farmers' fields, market outlets, processing centers, machinery, NGO, other actors in the chain
2. Conduct of more extensive value chain analysis to assess both domestic and foreign markets				Other activities, to be determined after the cursory/rapid value chain assessment
3. Identification of market, value chain interventions				
4. Establishing, enhancing capacities of business models <ul style="list-style-type: none"> <li>Existing</li> <li>New models</li> </ul>				
<i>Component 4 Models, knowledge management, and M and E</i>				
1. Beneficiary profiling - RTFC	September-October	LGU and RTFC officers; IRRI, NGO for consolidation c/o Digna and Vicky, Jimmy	IRRI	See Attachment C: SHG Profiling Guide (for key informant interviews)
2. Profiling/characterization of SHGs	August 30	Ms. Loida Elaine Tibong	SCUs will cover the expenses for data collection.	See Attachment C: SHG Profiling Guide (for key informant interviews) Report is due month after the conduct of the activity
3. Variety registration under the Geographical Indication of DTI-IPO	2014- until the data is completed including the results of the characterization of sites and varietal profiling, socioeconomics data	IRRI and NGO will facilitate the registration and related activities; SCUs with strong participation of LGUs will support data collection and consolidation for the respective province Ms. Loida Elaine Tibong (MPSPC),	Financial support is included in the specific activities that produce the data requirements;	Guide to be clarified with DTI - IPO Need to know the process and costs of registration  See Attachment D for the list of varieties targeted for GI registration.  IRRI and NGO take the lead/overall integrating mechanism, but SCUs takes the lead in providing the data collection at provincial level.
4. Awareness campaign (Photo exhibit, Foodies, market place, etc combined in one event at IRRI)	November-December	IRRI to coordinate with partners	IRRI, DA, PhilRice	The KM group will provide coordination support;



Activity	Timeline	Persons involved	Budget (who will finance)	Notes, comments
				The event will include photo exhibit that can run for weeks but special events can be organized within 2-3 days to include farmers market place, Chef/restaurateur meeting with the farmers, promotion campaign
5. Baseline survey	1. draft copy of survey - August 4 to be given by IRRI for comments 2. Submission of comments to IRRI by August 11. 3. Finalization of Q- August 18 with guide in using the questionnaire 4. Pre-testing of Q - August 5. Baseline survey - September - December 6. Training of enumerators - first week of September (with IRRI)	Ms. Loida Elaine Tibong (MPSPC)  The team per province will include: SCU and PhilRice hired staff members; PhilRice staff, LGU-technician	Included in releases from DA to SCUs, IRRI can provide funds	<b>Sample sizes:</b> Mt. Province - 135 Stratified sampling  Please include -- 50 control group - no project interventions but with almost similar characteristics (village)  Please inform me (Digna) of your schedule of training of enumerators, so we can join and provide avenue for leveling off

ATTACHMENT A: For Varietal characterization

CHARACTERIZATION and/or EVALUATION SITE DESCRIPTORS

- 1.Site: (a) village, barangay, municipality, province; (b) latitude (degrees, minutes, seconds, hemisphere: north or south); (c) longitude (degrees, minutes, seconds, east or west); elevation (masl)
2. Ethnic group, indigenous knowledge, cultural practices (if available)
- 3.Site environment: plain, undulating, hilly, mountainous, others
- 4.Slope (degree) and direction of slope (e.g. W or SW)
- 5.Soil drainage (if available)
- 6.Soil pH
- 7.Soil texture: sandy, loamy, clay, silt, peat, highly organic, etc.
- 8.Soil taxonomic classification from soil survey maps (e.g. alfisols, spodosols)
9. Climate: (a) temperature (average daily/monthly temperature, maximum and minimum temperature); (b) rainfall (average daily/monthly); (c) solar radiation (average); (d) day length (average, minimum and maximum)

Attachment B: FGD Topical Guide - SEE SEPARATE E-FILE

Attachment C: SHG Profiling Guide (for key informant interviews) - SEE SEPARATE E-FILE FOR THE GUIDE

Attachment D: Baseline survey instrument - see separate e-file.

MAIN BENEFICIARIES: Rice Terraces Farmers' Cooperative (RTFC)

List of SHGs

1. Blooming Hills RTFC - Bauko -- Bila, Bauko
2. Kadaclan Heirloom Rice Organization - Chupac, Barlig
3. Barlig Heirloom Rice Organization - Poblacion, Barlig

LIST OF VARIETIES FOR Geographical Indication

Mountain Province	Ominio	Barlig
	Chorchor-os	Barlig
	Balatinaw	Bauko
	Gil-gillang	Bauko
	Chinnanay	Barlig
	Ohkil	Bauko
	Kuli-e	Barlig



RAISING PRODUCTIVITY AND ENRICHING THE LEGACY OF HEIRLOOM/TRADITIONAL RICE THROUGH EMPOWERING COMMUNITIES IN UNFAVORABLE RICE-BASED ECOSYSTEM

Project Component 2: Local Capacity Enhancement

Activity 1. Site Characterization (Bio-physical) Soil Sampling, Secondary Data Collection, soil and biological analysis

Activity 2. Pre-Implementation/ Social Mobilization with FGD

PROFILE OF SELF- HELP GROUPS IN MOUNTAIN PROVINCE

HISTORY		
Blooming Hills	Poblacion Baling HRO	Kadayan HRO
Organized in 2007	Organized in 2013	Organized in 2008
Facilitated by Dir. Abraham Akilit and Mr. Gawec	Facilitated by OMAG	Facilitated by OMAG
Cordillera Heirloom rice Project - Mr. Sevirino Tuaco as president	30 members Mr. Rodrigo Layao as President	15 members Mr. Donald Alubia as the first president
Rice Terraces farmer Cordillera in 2010		Present members: 71
Facilitated by Ms. Jovita Camso, Registered as Blooming Hills RTFC Bauko Cluster at DOLE	Exported more than 1 ton of chorchor-os variety in 2009	Exported 1,406 tons of Ominio rice in 2009
Mrs. Saturnina Wadingan as president		
28 members		

Blooming Hills	Poblacion Baling HRO	Kadayan HRO
Constitution and By-Laws	Constitution and By-Laws	Constitution and By-Laws
No Vision and Mission	Registered at SEC as association	Registered at SEC as association
Operational Procedure	Operational Procedure	Operational Procedure
• Marketing of heirloom rice	• Market Linkage	• Market Linkage
• Facilitate trainings on heirloom rice production enhancement	• Facilitate postharvest for export purposes	• Facilitate postharvest for export purposes
• Balatinaw, Kotinaw, Ukhil, Dalakan, Ladokan, Gligiang	Chorchor-os, chinannay, kullil	Ominio
• Pricing of heirloom rice ranges from 47- 80 pesos depending on the variety (retailers/middleman price)	Chorchor-os- 60 /kg (Rice Inc) Cash basis	Ominio - 80/kg (Rice INC) cash Basis

Blooming Hills	Poblacion Baling HRO	Kadayan HRO
Production Capacity	Production capacity	Production capacity
• 2 barangays	• 3 barangays	4 barangays
• 26 members	• 30 members	72 members
Technical Assistant provided to members (assistance from LGU, OMAG & OPAG)	Logistic and technical assistance	Logistic and technical assistance
• Organic farming	• OMAG, OPAG and LGU - Trainings, Postharvest	• OMAG, OPAG and LGU - Trainings, Postharvest
• Quality control	Facilities, Travelling expense	Facilities, Travelling expense
• Trainings on crop production		
Gender Perspective	Gender Perspective	Gender Perspective
• 5 males and 19 females	• Female dominated	• Female dominated
External support	External Support	External Support
OPAG and OMAG: Technical Assistance, Some materials and equipment	• OMAG, OPAG, DA Region, Rice INC, LGU	• OMAG, OPAG, DA Region, Rice INC, LGU
Except for export no marketing plan is established	Except for export no marketing plan is established	Except for export no marketing plan is established

Project Component 2: Local Capacity Enhancement

Activity 2. Pre-Implementation/ Social Mobilization with FGD

Initial Report

AREAS	SELF HELP GROUPS		
	BLOOMING HILLS	POBLACION, BARLIG HRO	KADACLAN HRO
Heirloom/traditional rice varieties Available in the area	<ul style="list-style-type: none"><li>Uslik, Balatinao K, Balahangey, Lantiko, Waray, Gilgilang, Makal ania, Mantika, Wadingan, Lablabi, Intan (Red&amp;white)</li><li>Apolog, Dalimas, Pokpoklo, Bokatot, Kotinaw, batikang, Pinpinta</li></ul>	<ul style="list-style-type: none"><li>Chorchor-os, waray, Kulii, Fagsang,</li><li>Chinannay, engg oppor</li></ul>	<ul style="list-style-type: none"><li>Ominio(diket), Akangan (red&amp;white), Tafiak (short variety), waray(diket), enufiag, Lommad</li><li>Pinawwid, intan and Agkoma (white delicious)</li><li>Tengorkiw (aromatic)</li></ul>

SEEDBED PREPARATION AND SOWING	November <ul style="list-style-type: none"><li>Pakde (a ritual before seed sowing)</li><li>Wet bed method</li></ul>	Mid-November-December <ul style="list-style-type: none"><li>Wet-bed method</li></ul>	Mid November-December- 1 <sup>st</sup> cropping <ul style="list-style-type: none"><li>Mid-May - June- 2nd Cropping</li><li>Wet and dry method (sowing with panicle)</li></ul>
LAND PREPARATION	October to February <ul style="list-style-type: none"><li>PACPAC</li><li>Alado, Sagad, Soysoy ( use of carabao)</li><li>Green manuring ( azolla, rice straw and weeds within the field)</li></ul>	December-February <ul style="list-style-type: none"><li>Repair of rice paddies</li><li>Chaychay</li></ul>	December-January June -July <ul style="list-style-type: none"><li>Plowing and harrowing( Use of carabao)</li><li>Green manuring (azolla, rice straw and weeds within the field)</li></ul>

Transplanting	Mid December to February <ul style="list-style-type: none"><li>Manual</li><li>Planting distance 10X10 cm at 1-3 seedlings /hill</li><li>Tenep/sugot- February</li><li>Leplepas de tuned (Ritual)</li></ul>	January-February <ul style="list-style-type: none"><li>Planting distance 15X15 cm at 2-3 seedlings/hill</li><li>Synchronous transplanting</li></ul>	January - February (1 <sup>st</sup> cropping) July- August (2 <sup>nd</sup> cropping) <ul style="list-style-type: none"><li>Planting distance 15X15 cm at 1-2 seedlings/hill</li><li>Synchronous transplanting</li></ul>
Care and Maintenance	March- May <ul style="list-style-type: none"><li>Ase Danum (water maintenance)</li><li>Kames</li><li>Panagillidas</li><li>Denet (ritual)</li></ul>	March-May <ul style="list-style-type: none"><li>Water management</li><li>Weeds management</li><li>Installation of scare crows and rat traps</li></ul>	March to April <ul style="list-style-type: none"><li>Water management (Muntugwang)</li><li>Weeds management</li><li>Installation of scare crows and rat traps</li></ul>

Harvesting	June - July <ul style="list-style-type: none"><li>Panicle harvesting- Rakem</li><li>Gapas- Sickle</li><li>Hauling</li></ul>	June -July <ul style="list-style-type: none"><li>Panicle harvesting- Rakem</li><li>Hauling</li></ul>	May-June-1 <sup>st</sup> cropping Nov-December - 2 <sup>nd</sup> cropping <ul style="list-style-type: none"><li>Panicle harvesting- Rakem</li><li>Gapas- Sickle</li></ul>
Postharvest	August to September <ul style="list-style-type: none"><li>Drying (sun drying and hanging)</li><li>Storage</li><li>Milling (when needed)</li></ul>	August to September <ul style="list-style-type: none"><li>Drying, storage (hanging method &amp; sun drying)</li><li>Milling (when needed)</li></ul>	July- August <ul style="list-style-type: none"><li>Drying, processing, packaging</li></ul>
Marketing	September (Rice Inc) <ul style="list-style-type: none"><li>Local Outlet</li></ul>	September ( Rice Inc)	September ( Rice inc)

Problems AREAS	SELF HELP GROUPS		
	BLOOMING HILLS	POBLACION, BARLIG HRO	KADACLAN HRO
SELF-HELP GROUP ORGANIZATIONS	Weak Management <ul style="list-style-type: none"><li>Limited organizational/leadership skills</li><li>Weak cooperation of members</li></ul>	Weak Management	Weak Management <ul style="list-style-type: none"><li>.Organization not registered</li><li>Limited Leadership Skills</li></ul>
Production Support	<ul style="list-style-type: none"><li>Poor irrigation system</li><li>Limited/no irrigation system</li><li>Eroded Irrigation system</li><li>Slippery pathway</li></ul>	<ul style="list-style-type: none"><li>Poor irrigation system</li><li>Limited/no irrigation system</li><li>Eroded Irrigation system</li><li>Slippery pathway</li></ul>	<ul style="list-style-type: none"><li>Poor irrigation system</li><li>Limited/no irrigation system</li><li>Eroded Irrigation system</li></ul>

Pre- Production ( Seed selection and seedbed preparation)	<ul style="list-style-type: none"><li>Birds, Rats and Kuhol</li></ul>	<ul style="list-style-type: none"><li>Low yield</li><li>Birds, Rats and Kuhol</li></ul>	<ul style="list-style-type: none"><li>Low Yield</li><li>Birds, Rats and Kuhol</li></ul>
Production	<ul style="list-style-type: none"><li>Water Shortage during dry season</li><li>Rats, birds, kuhol, earthworm/kal-is</li><li>Stem borer, leaf folder, Rice bug</li><li>Limited hired labor/lack of farm implement/ draft animals</li><li>Low yield</li><li>Difficulty in threshing and hauling</li></ul>	<ul style="list-style-type: none"><li>Water Shortage during dry season</li><li>Rats, birds &amp;house bird, kuhol, earthworm/crab</li><li>Stem borer, leaf folder, Rice bug</li><li>Limited hired labor/lack of farm implement</li><li>Low yield</li><li>Difficulty in threshing and hauling</li></ul>	<ul style="list-style-type: none"><li>Water Shortage during dry season</li><li>Rats, birds, kuhol, earthworm</li><li>Stem borer, leaf folder, Rice bug</li><li>Limited hired labor/ lack of farm implement</li><li>Low yield</li><li>Difficulty In threshing and hauling</li><li>Soil problem</li></ul>



Postharvest	<ul style="list-style-type: none"><li>No thresher and rice mill</li><li>Limited materials for drying</li><li>Lack/Limited seed storage</li><li>No customized rice mill</li></ul>	<ul style="list-style-type: none"><li>No thresher and rice mill</li><li>Limited materials for drying</li><li>No customized Rice Mill</li></ul>	<ul style="list-style-type: none"><li>High breakage of grains during milling</li><li>No Customized rice mill</li><li>Limited materials for drying</li><li>High cost of packaging materials</li></ul>
Marketing			<ul style="list-style-type: none"><li>Limited marketing Outlet</li></ul>

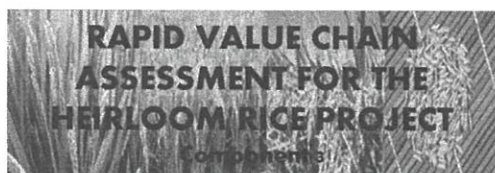
* Opportunities			
AREAS	SELF HELP GROUPS		
	BLOOMING HILLS	POBLACION,BARLIG HRO	KADACLAN HRO
SELF-HELP GROUP ORGANIZATIONS	<ul style="list-style-type: none"><li>Trainings on leadership, book keeping and coop management</li><li>Community meetings to strengthen community irrigator</li></ul>	<ul style="list-style-type: none"><li>Leadership trainings, Cooperative Management</li></ul>	<ul style="list-style-type: none"><li>Leadership trainings, Cooperative Management</li></ul>

Production Support	<ul style="list-style-type: none"><li>Rehabilitation of existing irrigation system</li><li>Construction of new Irrigation system</li><li>Concrete pathway</li><li>Construction of tramline</li><li>Construction of water reservoir</li><li>Reforestation</li></ul>	<ul style="list-style-type: none"><li>Rehabilitation of existing irrigation system</li><li>Construction of new Irrigation system</li><li>Provision of HDPE pipes</li></ul>	<ul style="list-style-type: none"><li>Rehabilitation of existing irrigation system</li><li>Construction of new Irrigation system</li><li>Provision of HDPE Pipes</li><li>Construction of tramline</li></ul>
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Pre- Production (Seed selection and seedbed preparation)	<ul style="list-style-type: none"><li>Trainings through FFS</li><li>Establishment of CSB</li></ul>	<ul style="list-style-type: none"><li>Trainings through FFS</li><li>Trainings on seed selection/ improve seeds</li></ul>	<ul style="list-style-type: none"><li>Trainings through FFS</li><li>Provision of rat trap, bird net</li></ul>
Production	<ul style="list-style-type: none"><li>Provision of knapsack sprayer</li><li>Training through FFS</li><li>Pedal Thresher</li><li>Provision of draft animal</li><li>Application of compost</li></ul>	<ul style="list-style-type: none"><li>Trainings through FFS/NFS</li><li>Training on organic farming</li><li>Electric Thresher for every barangay</li><li>Flow teller</li><li>Training on Pest Management</li><li>Brush cutter,</li></ul>	<ul style="list-style-type: none"><li>Provision of rat trap, bird net</li><li>Provision of knapsack sprayer</li><li>FFS/NFS Trainings</li><li>Threshers</li><li>Micro teller and brush cutter</li><li>Shredder</li><li>Soil Analysis</li></ul>

Postharvest	<ul style="list-style-type: none"><li>Provision of customized rice mill</li><li>Seed Dryer</li></ul>	<ul style="list-style-type: none"><li>Provision of dryer/drying facilities</li></ul>	<ul style="list-style-type: none"><li>Establishment of processing center with accessories like customized rice mill and dryer</li><li>Provision of packing materials</li></ul>
Marketing	<ul style="list-style-type: none"><li>Trainings on enterprise development</li><li>Rice product development</li></ul>		<ul style="list-style-type: none"><li>Develop other market outlet/market expansion</li></ul>

ISSUES AND CONCERNS	
1.	BIO-PHYSICAL CHARACTERIZATION
* SOIL SAMPLES - BARLIG	
* PEST AND DISEASES	
* COLLECTION OF DATA FOR CONTROL GROUP	



Genevieve L. Sagandoy



Dr. Digna Manzanilla gave an overview on heirloom rice project:

“Raising Productivity and Enriching the Legacy of Heirloom / Traditional Rice through Empowering Communities in Unfavorable Rice-Based Ecosystem.”



Seminar-workshop on  
**Rapid Value Chain Assessment  
for Heirloom Rice Project**  
September 24-25, 2014  
Ridgebrook Hotel, Bontoc

Thirty (30) participants from the  
different cooperating agencies:

- IRRI
- Phil Rice
- Department of Agriculture-  
Regional Field Office-CAR and  
Provincial Field Office
- Benguet State University
- MPSPC
- farmer representatives from  
Barlig and Bauko, Mountain  
Province



Dr. Matty Demont discussed the Rapid Value Chain Assessment



Dr. Susan Lopez for the welcome remarks

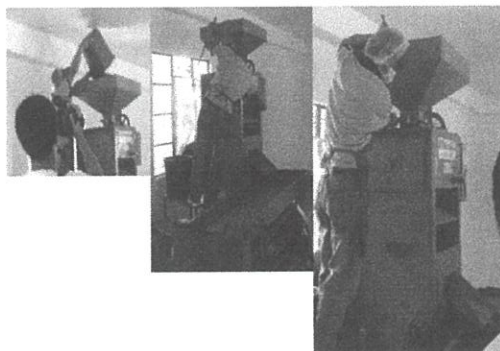
Dr. Demont presented the elements of a value chain.

1. end market – an integral determinant for the success of a product or service, it includes the **actors** in the value chain – from whom and for whom you deal and sell the rice
2. business and enabling environment – includes the difficulties in doing business as affected by laws, regulations and customs

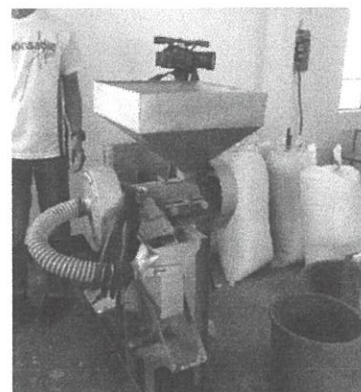
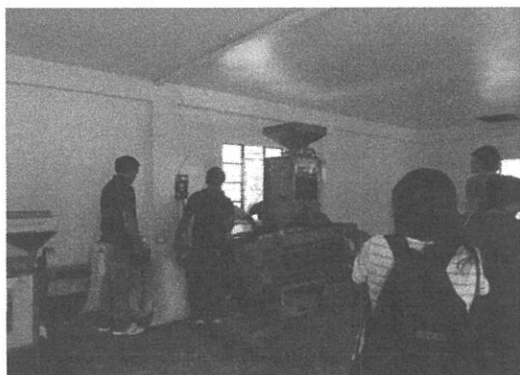


➤ Issues raised:

1. Moisture meter to be provided in the locality
2. Milling machine which can accommodate 100-150 kg/hr – what they have can only mill 70-100 kg/hr



- For the ocular observation and inspection of the milling place at the NIA compound, the group gathered there to witness the processing of the rice from palay to the polished or unpolished rice.



- 3. vertical linkage – the relationships of the actors (suppliers and the customers) in the value chain
- 4. horizontal linkage – the relationship between the actors (competitors or cooperators) in the value chain
- 5. supporting markets – help the suppliers to upgrade their machineries and equipment

On markets:

- 8th Wonder – a firm located outside the country, as a buyer of their product through the intervention of the PhilRice
- local market:
  - A stall located at the Office of the Provincial Agriculturist (OPAG) in Bontoc
  - Community / neighbors



Dr. Jovita Sim facilitated the identification of issues and problems met by farmers along the different areas in the value chain.

➤ Problems raised in production:

1. Labor
  - expensive
  - scarce
2. Irrigation facilities – scarce
3. Restoration of rice terraces – expensive
4. No government subsidy on fertilizers thus they use organic – dried weeds and hays, sunflower

- The farmers were interviewed regarding the value chain of their produce, starting from the time the palay is harvested up to its final output, the rice.

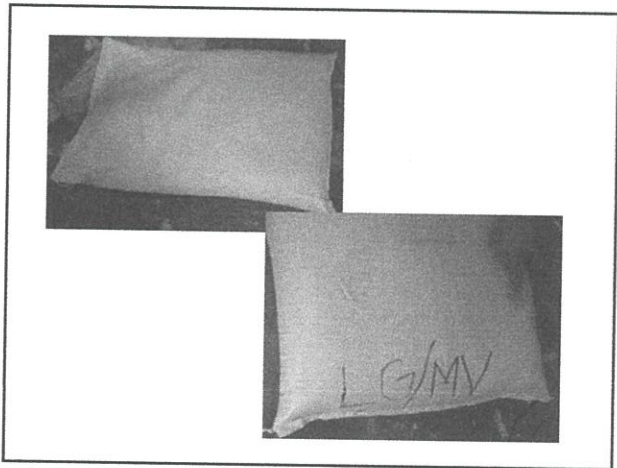
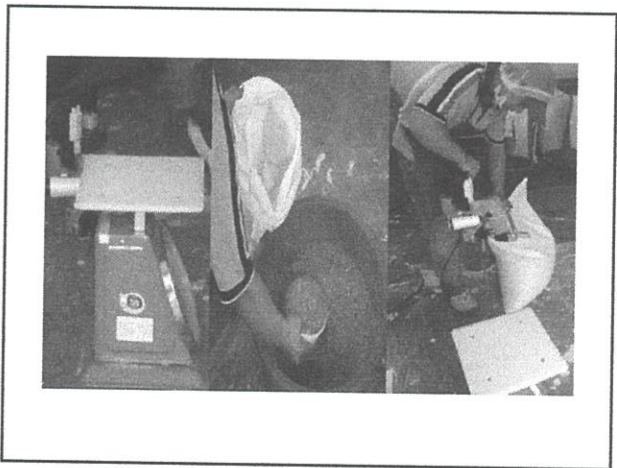
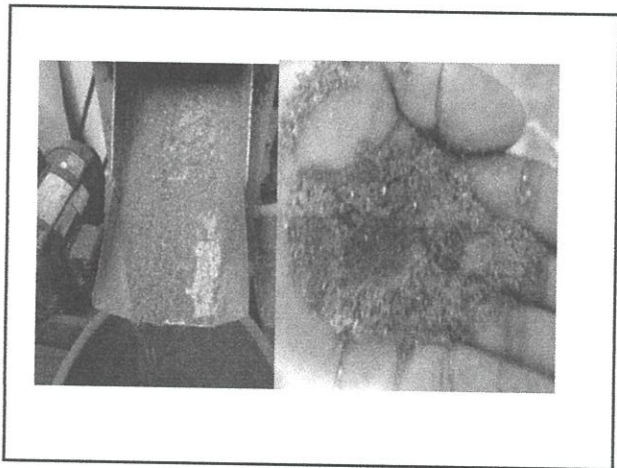
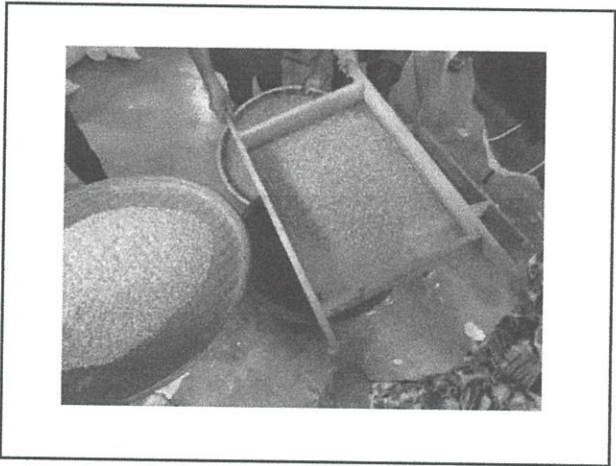
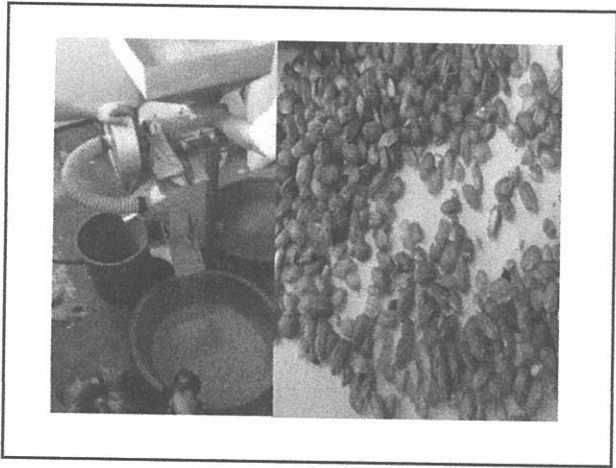
➤ volume sold:

- Barlig - 100 kilograms
- Bauko - 180 kilograms

➤ Problems identified in the selling of their produce:

1. the agreement on consignment wherein their produce will only be paid when sold
2. lack of training of the RTFC members
3. the price for the rice is minimal which is P60.00 per kilo
4. the presence of rats and birds in their fields
5. Broken grains are not for export, thus excluded and sold locally





- This was a re-enactment because at the time of the seminar, the work is off-season for the farmers. In the processing, it was observed that this is done step by step and after the milling, the rice are inspected and the broken grains are separated from the whole grains. Then these are put in generic sacks with 25 kilograms each, sewed and labeled.