Improving Livelihoods of Small Farmers and Rural Women through Value-Added Processing and Export of Cashmere, Wool and Mohair

IFAD Grant 1107 – ICARDA

Workplan

1 January - 30 September 2013

ICARDA, NARS of Kyrgyzstan, Tajikistan and Iran and CACSA-RC-kg

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1 Summary of major activities planned for 2013

The project will continue the current activities at the target sites with emphasis on documenting results and preparing or revising extension material. The breeding programs will be consolidated and fully handed over to the national livestock research institutes. Product design, business development and marketing will be further enhanced for the women groups in Northern Tajikistan and Kyrgyzstan while in Badakhshan and Iran training of the women groups and test marketing of yarn and socks for Badakhshan will be the main emphasis.

In Naryn province in Kyrgyzstan the focus of the activities will continue to be on fully developing the skills of the artisan groups for designing higher quality felt products (component 2). The results from the test marketing in the US will be analyzed to assess if prices in the US can cover transport costs and still generate higher benefits than achieved at local and regional markets (component 3). The analysis of the profitability of different felt products and market channels will be completed (component 4). The links between women groups and Merino and Tian Shan sheep farmers with the best wool quality will be consolidated. The flock improvement program for Tian Shian sheep will be continued and its future discussed with the Pasture and Livestock Research Institute (component 1).

In Northern Tajikistan a major activity will be the analysis of the results from the breeding program with Texas Angora bucks, in particular evaluating the offspring from the Artificial insemination (AI) campaigns in October 2011 and 2012. The use of frozen semen after the project will have phased out will be discussed and planned. Another major effort will be on further expanding yarn processing and the shipping of yarn samples to the US to complete the production and market chain for mohair products. Weaving activities to make use of coarser Mohair fibers will be further strengthened through specialized training.

In Badakhshan, the efforts to improve the homogeneity and productivity of the village flocks will be continued and the future activities will be discussed with the Tajik livestock researchers and the village communities (component 1). The performance of the offspring from the Altay bucks will be assessed and documented. The cashmere/cashgora purchase campaign in spring through collection points will be repeated in 2013. Dehairing of the collected cashgora will be done for the first time in Faizabad/Afghanistan. Training of the newly formed village women processor groups on high quality yarn and knitwear production for the international market will be enhanced (component 2) and test marketing expanded (component 3).

In Kerman province in Iran the emphasis of the activities in 2013 will be on agreeing and organizing the future of the breeding program (component 1) with the Kerman Livestock Research Group, the Baft Livestock Department, and the cashmere producers. To make the breeding program cost-efficient and sustainable, laboratory analysis of fiber quality will be minimized. The feasibility of direct market channels for larger quantities of quality cashmere to make the breeding efforts economically attractive for the nomads will be fully documented. The training program of nomad women for processing of dehaired cashmere will be continued with remote backstopping from Liba Brent. The economic feasibility of cashmere processing will be analyzed as the dehaired cashmere is expensive. Alternatives for dehairing will also be explored.

2 Detailed workplans for the countries/research sites

The workplan for each country is presented below in table format to provide an easy overview of the planned activities, expected outputs and the associated costs. The activities are grouped by the five components of the programme that include:

- **Component 1**: Characterize production systems and improve fiber production of small ruminants in all target sites.
- **Component 2**: Work on formation and capacity building of women's groups to develop fiber processing and export of value-added fiber and products in all pilot sites. Encourage the development of women-led small businesses.
- **Component 3**: Develop sustainable market chains that link fiber producers and processors with buyers.
- **Component 4**: Research on changes of income of fiber producers and women processors and their effects on livelihoods and gender roles.
- **Component 5**: Linkages (business, scientific and cultural) between the pilot communities and the global communities of producers, processors and consumers of fiber and fiber products.

2.1 Detailed workplan for Kyrgyzstan from 1 January – 30 September 2013

Grant Comp	Activity Title/Objective	Description of Activity	Methods	Time Frame	Output/ Delivered by
C1	Monitoring of sheep flocks in households and contact farmers - suppliers of fine and semi-fine wool	- Examination of sheep flock - Identification of sheep breed structure - Determination of the breeding direction to improve wool quality	- marking of animals - visual inspection of sheep - survey of farmers	January-March	Continued collaboration with wool producers Ensured high quality wool supply. Asanbek Ajibekov
C1	Recording of offspring born in 2013, description of phenotypic traits	- Inspection of lambs - Assessment of lambs by phenotypic indicators - Determination of the correspondence to breed traits - Analysis of 2012 selection results	- tagging of lambs - weighing of lambs - measuring of the wool fiber length - assessment of wool productivity	April-May	Correspondence of obtained lambs to the desirable breed type determined Asanbek Ajibekov
C1	Classification of sheep	- Assessment of sheep according to the production and breeding indicators	- assessment of sheep in all age groups using zootechnical methods - collection of wool samples - procurement of rams	April-June	Monitoring of breeding results based on improvement of wool quality Improvement of wool quality and flock homogeneity Asanbek Ajibekov
C1	Assessment of wool quality	- Wool sorting - Wool sampling - Wool quality analysis using samples	- assessment of wool quality	May-July	Information on wool quality Asanbek Ajibekov

Grant Comp	Activity Title/Objective	Description of Activity	Methods	Time Frame	Output/ Delivered by
C1	Provision of farmers with veterinary supplies	- Support for the contact farmers with preventive agents against mange	- procurement and distribution of preventive agents to the contact farmers	January-August	- Sheep protected against mange and wool quality enhanced Asanbek Ajibekov
C1	Training of farmers on basic breeding	- Practical recommendations and trainings on sheep breeding	- training	April-June	Mastering of practical breeding skills on wool quality improvement Asanbek Ajibekov
C2	Increasing of competitiveness of products from pilot groups	- Fellowships, consultations - Development of new product samples and quality control	- consultations, practice on the sites and in the workshops of designers in Bishkek; - support from a designer on development and improvement of new product samples, quality control	April through-out the year	Competitive collection of handicraft products will be created Svetlana Balalaeva
C2	Provision of groups with wool, materials and equipment maintenance of equipment	- Procurement of fine and cross-bred raw wool for the groups - Procurement of silk, leather, dyes			Women groups provided with raw wool and materials Svetlana Balalaeva Asanbek Ajibekov
C3	Marketing support	- Sending the best samples to US and European markets - Work on expanding the outlets	- analysis and selection of samples for sending to the US and other markets - market survey and product promotion	through-out the year February-September	Test portfolio of orders Establishment of a database of felt product consumers Practical marketing

Grant Comp	Activity Title/Objective	Description of Activity	Methods	Time Frame	Output/ Delivered by
		- Organizing participation of the pilot group representatives in fares in Europe - Procurement of sample products from pilot groups	- exploring of new markets	August	Practical marketing Liba Brent Svetlana Balalaeva
C4	Product cost and profitability analysis of activity of women in pilot groups	- monitoring of the value added for products through analysis of production costs and local market prices - comparative analysis of income generation by women involved in the Project and their neighbors	- economic methods	January-August	Information on income of felters Dzhaik Isakov
	GeneralCosts				
	National Coordinator				
	CACSA staff	- Program and financial management, communication, using of equipment, office maintenance			
	Office Materials				
	Field days				
	Publication of brochures	- Project implementation results	- Dissemination of the project achievements	August	Asanbek Ajibekov
	Repair and maintenance of the IFAD project car				
	Total				

2.2 Detailed Work plan for Northern Tajikistan from 1 January – 30 September 2013

Grant Comp	Activity title/ Objective	Description of Activity	Methods	Time Frame	Output	Delivered by
C1	Monitoring of farmer's nucleus groups and super nucleus	- Monitoring of animal husbandry, feeding, and heath of goats in nucleus groups.	- Visual assessment of animals, specifically weight and health of females and recommendations for improvements.	Jan.-March	Improvement in the condition of animals	M. Kosimov, F. Kosimov, I. Chaitov
	Provision of feed and minerals for the nucleus goats	- Provision of feed and minerals for the nucleus does in winter (50 females in the supernucleus, 200 farmers' does) - 250 heads*0.5 kg *60 days = 7500 kg*0,40$= 3000$; - Minerals: 100$	- Procurement and delivery of feed and minerals for the nucleus does inseminated by the imported Angora goat semen	Jan - Feb	Improvement in the condition of animals	M. Kosimov, F. Kosimov
C1	Assessment of nucleus and supernucleus does inseminated by the imported Angora goat semen	- Assessment of wool quality, mohair sampling for laboratory analysis and monitoring of mohair productivity.	- Visual assessment, sample collection from blade-bone area and weighing of fleece	March-April	Data on mohair quality and productivity of nucleus does	M. Kosimov, F. Kosimov, E. Fozilov, I. Khaitov, L. Brent
C1	Data collection on offspring, including nucleus groups.	- Recording of birth and identification of kids, - Assessment of wool quality, mohair sampling for laboratory analysis and monitoring of mohair productivity.	- Tattooing and weighing (1-6 months)	March-May	Data on kids	M. Kosimov, F. Kosimov E. Fozilov, I. Khaitov, L. Brent
C1	Veterinary support of nucleus goats	- Prevention and treatment of CCPP (contagious caprine pleuropneumonia) of goats. - Provision of anthelminthics and antiparasitic medicines.	- Vaccines, antibiotics - Tablets, suspensions, injections	March-May	Improved animal health	M. Kosimov, F. Kosimov E. Fozilov, I. Khaitov
C1	Selection of goats in	- Selection of the best bucks and	- Discussions, trainings	March-April	Improved pedigree	M. Kosimov,

Grant Comp	Activity title/ Objective	Description of Activity	Methods	Time Frame	Output	Delivered by
	nucleus flocks.	does for nucleus flock, culling of inferior goats, recommendations on breeding, feeding and keeping, establishing contacts with farmers of the nucleus groups on new pilot site	and meetings (individual)		characteristics and increased productivity	F. Kosimov L. Brent
C1	Training for farmers.	- Trainings on selection of breeding goats, goats to be culled, and on conducting AI	- Selection of the best goats by productivity and mohair quality. Culling, castration of unproductive and inferior goats (groups)	March-April	10 farmers trained	M. Kosimov, F. Kosimov L. Brent
C1	Storage of semen.		- Filling by liquid nitrogen, storage	Jan.-August.	Semen storage	F. Kosimov
C2	Purchase of kid mohair.	Depending on the volume of yarn sale in 2012 year, mohair sale will be financed from income earned. (Purchase of 400 kg kid mohair for spinning – 4400$.)	- Cooperate with farmers and middlemen on selection and purchase of quality kid mohair.	March-May	400 kg of kid mohair	M. Kosimov, F. Kosimov L. Brent, T. Saidova
C2	Cleaning of kid mohair.	- Organize a group of women to dehair mohair (50 somoni/kg)	- Hire women to dehair mohair.	April-August	100 kg of dehaired and carded kid mohair	L. Brent, M. Kosimov, F. Kosimov
C2	Purchase of yarn.	- Purchase of 100 kg of yarn (100 somoni/kg).	- Yarn purchase	April-August	100 kg of yarn	L. Brent, M. Kosimov, F. Kosimov
C2	Dying of yarn.	- Dying of yarn	- Dying yarn with natural and chemical dyes	April-August	Dyed yarn	L. Brent, M. Kosimov, F. Kosimov
	General costs:					

Grant Comp	Activity title/ Objective	Description of Activity	Methods	Time Frame	Output	Delivered by
	National Coordinator					
	Publications			May-August		
	Computer					
	Transport					
	Casual Labor					
	Communication expenses					
	Total					

2.3 Detailed Workplan for Badakhshan/Tajikistan from 1 January – 30 September 2013

Grant Comp	Activity Title/Objective	Description of Activity	Methods	Time frame	Output	Delivered by
C1	Care of nucleus bucks	- Pay shepherd for taking care of nucleus goats on summer pastures.		January - August	Breeding bucks in good condition during mating	K. Davlatquad. Khurshded Davlatov
C1	Survey and evaluation of nuclei kids, bucks and females	- Kid, female and buck survey: tag, weigh and evaluate nuclei male kids, females and control animals.	- Tag and weigh the animals - Visually assess animals and fiber quality. - Collect fiber samples.	March-May	Performance of kids, bucks and females recorded.	Kh. Davlatov K. Davlatquad. Liba Brent
C1	Veterinary services	- Vaccination pleuropneumonia, jashur, ospa, sibirskaja jazva (spring) - Deworming (spring) - Castration (spring, before the goats go to mountain pastures)	- Organize castration and veterinary services for nucleus flocks.	April-May	Nucleus animals in good condition; improved flock productivity.	Fazliddin Ikromov K. Davlatquad. Kh. Davlatov

Grant Comp	Activity Title/Objective	Description of Activity	Methods	Time frame	Output	Delivered by
C1	Trainings on goat husbandry and veterinary care	- Training for households on community breeding, goat husbandry, veterinary care and selection of breeding bucks.	- Organize trainings, prepare and distribute husbandry manuals to households.	April - June	Improved husbandry practices and goat productivity.	Fazliddin Ikromov K. Davlatquad. Kh. Davlatov
C2	Combing Goats	- Distribution of 100 additional combs.		February	Better quality of combed fiber.	K. Davlatquad.
C2	Purchase cashgora fiber for processing	- Set up purchasing center. Purchase fiber from women. - Package fiber from individual goats separately and Include tag numbers in packages. - Expected amount of fiber combed: 135 kg x 100 somoni/kg	- Sort fiber into categories. - Prepare fiber for processing.	Feb.-April	Cashgora fiber purchased and sorted.	K. Davlatquad. F. Ikromov Liba Brent Khurshed. Davlatov
C2	Fiber dehairing	- 100 kg x $15 = $1,600 (transport and dehair 100 kg of cashgora in Faizabad).	- Arrange fiber dehairing in Afghanistan.	May-June	Dehaired cashgoara for yarn spinning.	Liba Brent K. Davlatquad.
C2	Yarn dyeing	- Introduce quality dyes for yarn and Jurabe socks.		May-June	Dyed yarn for Jurabe sock.	Liba Brent K. Davlatquad.
C3	Training in yarn and sock production, yarn & sock purchase.	- Training in spinning, carding, scouring, dyeing and knitting, purchase of yarn & socks for export.	- Yarn production at project sites	April-June	Yarn produced for knitting and marketing.	Liba Brent K. Davlatquad
C3	Support of spinning center in Andarob village.	- Rent of facility for training in spinning, dyeing and knitting.		January-August	Improved working conditions for women spinners.	Liba Brent K. Davlatquad.
	Shipping yarn	- 50 kg of yarn to USA		June-July		Liba Brent K. Davlatquad.
	General costs:					

Grant Comp	Activity Title/Objective	Description of Activity	Methods	Time frame	Output	Delivered by
	Local transport (car and driver)	- $1,500 gasoline - $1,500 driver		January-August		
	Site visits	- 3 site visits, $650 one trip				K. Davlatov
	Hired Labor					
	Publications					
	National Coordinator					
	Site coordinators					
	Total					

2.4 Detailed Workplan for Iran from 1 January – 31 December 2012

Grant Comp	Activity	Description of Activity	Methods	Time Frame	Outputs	Delivered by
C1	Complete database on fiber quality at the pilot site	- Analysis of data from cashmere samples collected in 2011-2012 from baseline study to assess the 'effect of year' on cashmere.	- Statistical Analysis	Jan-April	Variation of cashmere quality affected by different years in the base population established	Hamidreza Ansari-Renani
C1	Evaluate the fiber quality of breeding bucks and candidate bucks in the 8 breeding flocks based on visual assessment: body condition, fiber quality (fineness, softness, bulkiness, crimpiness)	- Make assessment of the 2 nucleus bucks and up to 8 other adult bucks available in each flock (total=10x8 samples) - Make assessment from 10 young (about 1 year old) bucks (total=10x8 samples).	- Scoring all candidate bucks. - Detect new candidates for replacing adult bucks.	Jan-May	Adult bucks available in flocks evaluated. Candidates for replacing adult bucks identified.	H. Ansari-Renani
C1	Identification and performance recording and of nucleus offspring in the 8 breeding flocks	- Recording of weight of nucleus male and female progeny at 4 months age - Ear tagging male and female progeny of nucleus females mated with superior bucks	- Standard record keeping (farmers need tags, appliers, scales (spring balances) and a list of dams in the nucleus).	Jan.-March on winter pastures April-May (after returning from winter pastures)	Pedigree of progeny in nucleus for progeny testing and further selection. Systematic performance recording and selection of replacements.	Nucleus farmers H. Ansari-Renani
C1	Implement mating scheme (best bucks with best females)	- Prepare selective mating in nucleus flocks	- Arrange separation of flock (separate	May		H. Ansari-Renani J. Mueller

Grant Comp	Activity	Description of Activity	Methods	Time Frame	Outputs	Delivered by
			herding or fencing)			
C2	Continue discussions with women beneficiaries. Instructions regarding sample production.	- Selection of interested women/ women associations, e.g. in vicinity of cashmere producers - Prioritize specific activities to improve fiber quality according to market needs and local constraints. - Discussions of cashmere quality and types of cashmere for spinning - Groups instructed to produce first product samples.	- Discussions with women's group. - Organize dehairing. - Organize yarn making. - Organize handicrafts.	Jan.-May Jan-Sep Jan-Sep Jan-Sep	Groups informed about project objectives. Production of first samples organized.	Liba Brent Najmeh Karegar Nomad organization Baft Extension Service
C2	Training in spinning yarn according to market standard. Identification of cashmere best suitable for spinning. Purchase of electronic yarn making machine for local production. Distribution of processed yarn	- Produce yarn and knit swatches from different types of cashmere and assess cashmere performance during processing. - Training in spinning organized in all pilot villages. - New models of yarn making machine. - Produce good quality dyes	- Trainings in yarn making and assessment of cashmere performance during processing into yarn and product samples. - Training in dyeing.	Jan-Sept	Yarn samples from different types of cashmere at pilot sites. Identification of best types of cashmere/goatfor spinning. Identification of best spinners.	Liba Brent Nomad organization Baft Extension Service
C2	Collection and analysis of first	- Samples from pilot groups collected.	- Collection and quality/market	March-April	First batch of product samples from women’s groups collected	Liba Brent Nomad

Grant Comp	Activity	Description of Activity	Methods	Time Frame	Outputs	Delivered by
	product samples		analysis of product samples.		and analyzed.	organization Baft Extension Service
C5	Publications	- Extension brochures for farmers - Technical reports for experts. - Technical reports for government officials	- Review of cashmere project new technical results, outputs and achievements to improve the quality of product	Jan-May	- Technical achievements for farmers to improve quality. - Technical achievements for experts, government officials and higher education students and instuctors.	H. Ansari-Renani
	General costs					
	National Coordinator					
	Local coordinators + nomad guide					
	Casual labor					
	Travel NC					
	Local Transport (Kerman ARC)					
	Total					