Proceedings of the 2<sup>nd</sup> meeting of Consortium Advisory Committee of NAIP sub-project "Harmonizing biodiversity conservation and agricultural intensification through integration of plant, animal and fish genetic resources for livelihood security in fragile ecosystems" held on 19.1.2011 at NBPGR, New Delhi-12

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The Second meeting of Consortium Advisory Committee (CAC) of the NAIP sub-project on **"Harmonizing biodiversity conservation and agricultural intensification through integration of plant, animal and fish genetic resources for livelihood security in fragile ecosystems"** was held under the chairmanship of Dr. R. S. Rana on 19.1.2011 at 10.00 A.M. in the H B Singh committee room, NBPGR, New Delhi. The meeting was attended by other CAC members and CoPIs of the project, the list of participants is attached as Annexure – I.

The meeting was organized as per the following Agenda items/programme:

- 1. Welcome: Dr. K. C. Bansal, Director NBPGR
- 2. Opening remarks: Dr. R.S. Rana, Chairman CAC
- 3. Presentations on progress of the project: Dr. S. K.Pareek, CPI and Member Secretary
- 4. Remarks by the Chairman and Members
- 5. Remarks by NC- Component 3: Dr. A. P. Srivastava
- 6. Addition/Deletion of CoPIs
- 7. Minor modifications/recommendation in budgetary provisions of project centers
- 8. Remarks by the CAC members
- 9. Concluding remarks by Chairman, CAC
- 10. Any other item with the permission of chair
- 11. Vote of thanks: Dr. I. S. Bisht, CoPI

The meeting started with the welcome address by Dr. K. C. Bansal, Director, NBPGR and Consortium Leader (CL). Dr. Bansal welcomed the chairman Dr. R. S. Rana and other CAC members, namely Dr. A. P. Srivastava, NC, PIU-NAIP, Dr. B. D. Sharma, Smt. Anita Sharma, Shri Sunda Ram, CPI and CoPIs of the project. Dr. Bansal expressed his happiness and mentioned that it is a matter of great honour for NBPGR (ICAR) to lead and coordinate such a dream project where plant, animal and fish components are integrated and the project partners are working together for bio-resource conservation and use. The three backward districts where the project is operative, Chamba, Udaipur and Adilabad, represent distinct agro-climatic conditions and are rich in bio- resources. All the project activities are focusing on on-farm conservation and agricultural intensification aimed at enhancing the livelihood security of communities living in these backward and harsh terrains. The farm communities of such areas have immensely contributed to develop and conserve these valuable bio-resources. Now this is the commitment of the nation to address all issues related to conservation and sustainable utilization of these bio-resources in such a way that they become part of the farming systems. In fact, the uniqueness of the project is to deploy the local bio-resources in production systems thereby fulfilling the twin objectives of resource conservation and use. These bio-resources are the treasure and raw material for further improvement in plant, animal and fish sectors.

The Director, NBPGR expressed his happiness about the desired progress that the project has made during the last 7-8 months. He specifically congratulated Dr. S.K. Pareek (CPI) about the appreciation the project received from PIU, NAIP during the review meeting of the project held on 20<sup>th</sup> December 2010. He congratulated Dr. S. K. Pareek and all other Consortium partners for their dedicated efforts and willing support to the programme. He thanked all project partners and requested them for their continued and willing support for this much needed cause in the best interest of the nation.

Dr. R.S. Rana, Chairman CAC, in his opening remarks, congratulated Dr. Pareek and the entire project team for the excellent work being carried out. Dr. Rana further emphasized about the uniqueness of the project in the sense that India is one of the Biodiversity rich nations and efforts to conserve and utilize the bio-resources need to be strengthened. Sustainable utilization depends on sustainable conservation of these bio-resources. The farmers are the focal point under the project and technological interventions should always be farmer friendly with minimum risk involved. He expressed his happiness on such a dream project being led by the NBPGR with which he has a long association. Dr. Rana further mentioned that, in 2012, the Conference of Parties (193 member nations) of CBD will be organized in India and world community at large is looking forward for such model case studies which can be translated to other parts of the globe wherein biodiversity conservation and agricultural intensification together address the livelihood security of rural communities.

He further emphasized that about 1000 farm families in each district are the beneficiary under the project. The three ICAR national institutes (NBPGR, NBAGR & NBFGR) and State Agricultural Universities, NGOs, local institutions and line- departments are jointly working as a team. This will be another successful experiment (like the earlier NATP project on Plant Biodiversity with over 140 partners from 90 organizations worked together for PGR management) and will bring new recognition to ICAR and the GEF. Dr Rana mentioned that the CAC has a defined mandate which includes, setting priorities; mobilizing the broad community of clients and beneficiaries; monitoring effectiveness of implementation and adherence to the agreed objectives; evaluating outcomes and impact; recommending reallocations of funding between sub-project activities and if necessary, of sub-project reorientation; facilitating the dissemination and upscaling of replicable results. He suggested that members of CAC and CIC should participate in group meetings, workshops and also be invited for on- the- spot visit of the project sites.

In his presentation Dr. Pareek informed that this project is GEF funded (grant to Govt. of India) through NAIP. The GEF has identified some areas and among these, one was related to Biodiversity. The DG, ICAR wanted a project which can demonstrate the harmonizing the bioresource conservation and agrarian reforms because the advancement in agricultural technologies has a negative impact on bioresource conservation but for sustainability of agriculture in India both the components (agricultural reforms and bioresource conservation) should go hand in hand. We have lost enough but we can't afford to lose more of the biodiversity. This is not only the national requirement but the global mandate that we can't imagine of a growth without conservation of bioresource and in this context plant, animal and fish has to go together in traditional subsistence farming.

The on-farm conservation through use has unique advantage in the whole evolutionary process where the bio-resources are in use and farmers are the breeders, conservators and users themselves. Therefore, through farmers' participation this project has been given a mandate to develop a model on harmonizing agrarian reforms and biodiversity conservation. Realizing the uniqueness of India in biodiversity, three distinct agro climatic zones represented by Chamba, Udaipur and Adilabad were selected. The landraces in these districts are distinct and unique, animals are predominantly non - descript types and the richness of fish resources has a vast potential. These resources after value addition will not only find the good market but will further placed in various studies for gene discovery and allele mining. This is a unique project and probably first in the world of its own kind, therefore, it requires lot of efforts and coordination and all partners/ stake holders working in three districts should work as a team to address all issues related to the project. This will show the visibility to all scientists working in the project, their organization, ICAR and country and it will also serve as a model to Ministry of Environment and Forest and GEF. Dr Pareek further said that he and Dr. B. D. Sharma (Member CAC) had discussions with Dr P. L. Gautam, Chairman, PPV&FRA who has kindly agreed to provide full support in registering the farmer's varieties.

Dr. S. K. Pareek made an elaborate presentation on the project covering the concept of the project, target areas, objective and activities, monitoring indicators, outcome, output, and deliverables. He also presented a detailed report (March to December 2010) on the progress made (objective wise and activity wise covering biodiversity conservation and agricultural interventions) under the project in all three components (plant, animal and fish) in three districts Chamba, Udaipur and Adilabad. He presented a detailed account of the workshops and trainings organized, participation of farmers, women, line- departments and other stakeholders, key innovations, partnership and linkages with the line-departments and other stakeholders, procurement status, finance (budget utilization), reporting and coverage by press and media. A brief report on salient achievements made under the project is given below.

#### Salient achievement

- The baseline survey has been completed in Chamba (Bharmour, Salooni and Bhatiyaat blocks), Udaipur (Som, Chanawada & Netawala) and Adilabad (Kerameri, Indervelly, Khanapur and Bheemini) and analysis of collected data is in progress.
- The preliminary survey of bio-resources (plant, animal and fish) indicates that crop landraces have unique features for adaptability in harsh environment and have unique traits for nutritional, fodder, medicinal, keeping quality etc. The non descript animal/ local cattle if provided better feed and nutrition and health care then they will be more productive production. Addition of fish component in farming system will increase benefit to communities.
- Selection of beneficiaries (1000) in each district is in progress and resource persons in each cluster have been identified.
- Proforma for bio diversity documentation developed and 12 teams for each component in each district have undertaken survey of bio- resources in 2010. Similarly 12 teams in each district will be visiting different sites (Feb-March 2011) for survey and documentation of bio-resources.
- Three exploration undertaken 738 accessions (367Chamba, 83 Udaipur and 571Adilabad) of unique landraces have been collected.
- Two unique germplasm of linseed has been registered from Adilabad with NBPGR.
- Multiplication of landraces and demonstration undertaken in all three districts. The collected germplasm/landraces have been grown for evaluation and characterization at project centers and also at farmers field to develop the seed chain of local landraces having unique qualities.
- 60 On-farm trials of promising landraces undertaken at 91farmers field Chamba (21), Udaipur (41) and Adilabad (29).
- Seed multiplication has been undertaken for landraces Chamba: karad dhan (red rice), rajmash, mash, maize popping type and maize sugary, Udaipur: Maize (Malan and Sathi), Adilabad: Sorghum (popping type), green gram and black gram.
- The karad (means kathor) a local landrace which grows very well at higher elevation (4500 5000 ft.) in Chihun village and due to its awned character it is less damaged by monkeys and also tolerant to shattering.
- A blast resistant local germplasm was identified. The rice landraces which are infected by blight at Malan are not susceptible to blight at higher attitude.
- Improvement of animal health and management by Vaccination, De-worming, Min Mix feeding has shown positive response and impact will be seen in due course of time.
- The interventions for fish farming and ornamental fish have been welcomed and going to give increased income to farmers at very low input.
- The awareness camps organized has sensitized the farmers and now farmers started thinking and understanding about the importance of conservations and use.
- The most important aspect is the location specificity of landraces which suggest that the Geographical Indicators can be developed for some of the landraces which are endemic to specific area and has high nutritional traits and potential. This will help in sovereign right of the country

- Desi cattle and local sheep and goat preferred by farmers. Migratory rout for gaddi sheep and goat in Chamba identified.
- Training material for grass root level training to farmers has been developed.
- A 95 years old resident of Panghala recollected & shared his memories (Memory Bank) about old landraces with biodiversity group.
- Interventions through food supplements, medicines, uromin bricks etc. have been undertaken. A module for clean milk production has been developed. Customized 3-Dimensional Models of a wide range of themes covering critical aspects of Animal Health Production and Livestock Management have been got prepared which will be useful for disseminating information to the Semi literate and illiterate farmers.
- In Chamba Fish species *Onchorhymchus mykiss* (Rainbow trout) and *Salvenius* spp. (Arctic Char) in Bharmour, *Cyprinus carpio* (Common carp) in Salooni and in Batiyaat indigenous fish species like snow trout *Schizothorax* spp. have been cultured.
- In Udaipur captive breeding and propagation of indigenous species (*Labeo rajasthanicus*, minor carps, *Channa marulius*) has been undertaken in Som river and lake Jaisamand. Integrated aquaculture (fish and prawn) with agriculture (livestock and poultry) has also been undertaken. Ornamental fish culture is undertaken in Chanawada.
- In all 9 trainings have been organized for awareness generation including six biodiversity fairs which benefited 1468 farmers and other stakeholders including woman conservators. In additions six interaction meetings with stakeholders have been organized (Total participants 807).
- Six monthly interaction meetings in three districts, leftover farmers training programme and national workshop have been planned for this year.
- A wide coverage in press and media has been given to the programme in all three districts

#### Following initiatives have been undertaken

- Nutritional quality evaluation of the landraces
- Procurement of the seed for seed multiplication
- Involvement of PPV&FRA for registration of farmers variety
- Blast resistant local germplasm identified & tested for introduction
- GI status to unique land races
- A model for clean milk and khoya production
- Composite fish farming and ornamental fish culture
- Creation of self help groups and resource persons.
- All awareness camps and farmers trainings have been organized by involving local line departments, institutes and stakeholders.
- In Minjar fair all line departments participated where 25% stalls were from biodiversity and in SARAS fair the red rice was sold @ Rs 60/kg.
- Hon'ble CM of HP has announced that the semen of local bull will be made available to all centers for AI purpose.

After the presentation of progress by CPI, Dr. Rana, Chairman, members of CAC and other participants had in-depth discussions and based on deliberations and suggestions following recommendations were made:

1. Baseline survey report should serve as a benchmark. Each district should prepare a document on the present status of bio- resources and agriculture and critically analyze the gaps, in addition to the baseline survey report as desired by the NAIP. Based on this document, the progress needs to be reported periodically using appropriate monitoring indicators.

- 2. Landless families may also be selected as target groups who can be associated to under take other activities such as animal husbandry, fisheries, value addition of farm produce, marketing, etc.
- 3. The people biodiversity registers which are being developed under the project should have linkages with State Biodiversity Board and NBA. The chairman CAC agreed to provide necessary guidance and direction.
- 4. Efforts can be made to document malnutrition status of young children, pregnant women and lactating mother as a part of biodiversity register.
- 5. It is a welcome proposition that under this project registration of farmer's varieties and unique germplasm as well as their nutritional qualities has been undertaken. These efforts will further enhance the outcome of the project. The CAC will provide needed support and PPV& FRA should also be involved in this process.
- 6. Some of the important activities which are already initiated in the project are welcome step. The activities such as a) creation of biodiversity register, community seed bank and museum in each district, b) training of resource persons, c) procurement of seed (local landraces) by respective university to develop seed chain and value addition and seed production at farmers field are the priorities.
- 7. Since the seed and seed chain will play a vital role in enhancing livelihood security in these districts, the target farmers may be provided with the seed bins to store the seed material.
- 8. Schools (students & teachers), local institutions and other related stakeholders be involved in awareness generation on biodiversity conservation and use. To spread the message, visitors and VIPs may be invited to visit the project sites.
- 9. All the practices of good agronomic managements be followed along with the integrated nutrition management based on soil test report in on-farm demonstration of landraces and farmer's varieties.
- 10. While assessing the yield potential of the local bio-resources, the cost of production and the associated risk factor should be minimum.
- 11. Each consortium partners should have one scientist identified for reporting to the CAC through CPI.
- 12. The committee felt that animal genetic resource component seems to be slightly weak in comparison to other two components and unavailability of NBAGR was felt. The Consortium Leader and CPI will take up the matter with Director NBAGR so that this important component shows desired progress.
- 13. The CAC recommended the changes in the Consortium Leader and CoPIs as per the annexure II and III. The PIU NAIP may kindly issue required notification so that CoPIs feel themselves as part of the project.
- 14. As a result of the change of CL and CoPIs in different centers, the composition of CIC and CMU has been revised and given in annexure IV & V. The CAC approved the required changes and recommends PIU NAIP to issue office orders.
- 15. The CAC also approved the re-appropriation of the items and also recommended the budgetary support to different centers as per the annexure VI. The PIU NAIP may kindly issue required office orders.

The meeting ended with vote of thanks to the Chair and all participants by Dr. I. S. Bisht, CoPI of the project

(S.K. Pareek) CPI (K.C. Bansal) Consortium Leader (R.S. Rana) Chairman, CAC

#### Annexure-I

## List of Participants

### **CAC Members**

1.	Dr. R. S. Rana	:	Chairman
2.	Dr. A. P. Srivastava	:	Member
3.	Dr. B. D. Sharma	:	Member
4.	Smt. Anita Sharma	:	Member
5.	Sh. Sunda Ram	:	Member
6.	Dr. K. C. Bansal	:	Member
7.	Dr. K. K. Lal	:	Representative of Director NBFGR
8.	Dr. S. K. Pareek	:	Member Secretary & CPI

### **NBPGR: Lead Institute**

9. Dr. I. S. Bisht	:	CoPI
10. Dr. Manoranjan Dutta	:	CoPI
11. Dr. B. S. Phogat	:	CoPI
12. Dr. S. K. Malik	:	CoPI
13. Dr. K. C. Bhatt	:	CoPI
14. Dr. Hanuman Lal	:	CoPI
15. Dr. S. K. Yadav	:	CoPI
16. Dr. D. B. Parakh	:	CoPI
17. Dr. R. K. Tyagi	:	CoPI
18. Dr. Sushil Pandey	:	CoPI
19. Dr. Veena Gupta	:	CoPI
20. Dr. Anjali Kak	:	CoPI
21. Dr. Archna Singh	:	RA
22. Dr. P. B. Singh	:	RA
23. Sh. Firoz Ahmad	:	RA
24. Sh. Ravi Shanker	:	Office Assistant

## **Addition/Deletion of CoPIs**

1. List of CoPIs, NBPGR, New Delhi whose name have not been included in sanction order but they are CoPIs from very beginning as per the project document and PIU, NAIP should notify their names for smooth functioning of the project.

S. No.	Consortium Partners	Name of the Co. PIs	Designation	Full address with Phone Fax and Email
1	NBPGR,	Dr. B. S. Phogat	Principal Scientist	National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi-12 Ph. 011-25841835, Fax. 011- 25842495, M: 09868751103 e-mail: phogatbs@nbpgr.ernet
		Dr. S. K. Malik	Sr. Scientist	National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi-12 Mobile: 09810444859 Fax. 011- 25842495, skm@nbpgr.ernet.in
		Dr. K. C. Bhatt	Sr. Scientist	Ph. 011-25848405 Fax. 011- 25842495, kcbhattps@yahoo.com
		Dr. Gunjeet Kumar	Sr. Scientist	Ph. 011-25848405 Fax. 011- 25842495 E-mail: <u>gunjeet@nbpgr.ernet.in</u>
		Dr. Hanuman Lal	Sr. Scientist	Ph. 011-25848405 Fax. 011- 25842495 E-mail: hlal@nbpgr.ernet.in
		Dr N Sivaraj	Sr. Scientist	Ph 040- 24015478, Fax 040-24014072, <u>nbpgrhyd@yahoo.com</u>
		Mr N Sunil	Scientist	Ph 040- 24015478, Fax 040-24014072, <u>nbpgrhyd@yahoo.com</u>

2. List of CoPIs from cooperating centres whose name have not been included in sanction order but they are CoPIs from very beginning as per the project document and PIU, NAIP should notify their names for smooth functioning of the project.

S. No.	Consortium Partners	Name of the Co. PIs	Designation	Full address with Phone Fax and Email
1	NBAGR	Dr. P. K. Vij	Principal Scientist	P.B. No129, Karnal – 132001, Ph. 0184- 2267153,Ex-23, Mob. # ,Fax No. –0184-2267654, e- mail: pkvij@yahoo.com
		Dr M.S.Tantia	Principal Scientist	P.B. No129, Karnal – 132001, Ph.0184- 2267153*41,Fax-0184-2267654, e-mail: mstantia@yahoo.com
		Dr N K Verma	Principal Scientist	P.B. No129, Karnal – 132001, Ph.0184- 2267153*41, Fax-0184-2267654, e-mail- <u>nk_verma58@yahoo.co.in</u>
2	NBFGR, Lucknow	Dr. P.Punia	Sr. Scientist	Canal Ring Road, PO Dilkusha, Lucknow –226002, Ph.0522-2442440, Mob. #, Fax No. 0522-2442403, E-mail: kulvin100@yahoo.co.in
		Dr V Mohindra	Principal Scientist	Canal Ring Road, PO Dilkusha, Lucknow –226002, Ph.0522-2442440, Mob. #, Fax No. 0522-2442403, E-mail: vidhyamohindra@gmail.com

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		Dr. U. K. Sarkar,	Sr. Scientist	Canal Ring Road, PO Dilkusha, Lucknow –226002, Ph. 0522- 2442440, Mob. #, Fax 0522-2442403,e- mail: director@nbfgr.res.in
		Sri A.K. Pathak	Scientist (Sr. Scale)	Canal Ring Road, PO Dilkusha, Lucknow –226002, Ph. 0522-2442440 Mob. #, Fax No. 0522-2442403, e-mail: director@nbfgr.res.in
		Dr. L.K. Tyagi	Scientist (Sr. Scale)	Canal Ring Road, PO Dilkusha, Lucknow –226002, Ph. 0522-2442440 Mob. #, Fax No.0522-2442403, e-mail: <u>director@nbfgr.res.in</u>
		Sh. Rajeev Kumar Singh	Scientist (Sr. Scale)	Canal Ring Road, PO Dilkusha, Lucknow –226002, Ph. 0522-2442440 Mob. #, Fax No. 0522-2442403, e-mail: <u>director@nbfgr.res.in</u>
3.	CSK HPKV, Palampur	Dr. Alok Kumar Sharma	Associate Professor- cum- Head	Dr. G.C. Negi, COVAS, CSKHPKV, Palampur- 176062 Phone: 01894 – 230351, Extension: 860, Mobile: 09816053819, Fax: 01894 - 230327, Email: <u>alokvet13@yahoo.co.in</u>
		Dr. R. C. Chauhan,	Scientist (Fisheries)	College of Basic Sciences, CSKHPKV, Palampur- 176062, Ph. 01894-230406, Mob. #, Fax. 01894 – 230406 e-mail: <u>dr@hillagric.ernet.in</u>
4.	MPUA&T, Udaipur	Dr S. P. Tailor	Officer-In charge	LRS, MPUAT-Vallabhnagar, Udaipur Ph.02957-240223 Mob.09414343065 Email: <u>sptailor07@yahoo.co.in</u>
		Dr. V. P. Saini	Associate Professor	Aquacultural Research Unit, COF-MPUAT-Udaipur Mob.09413217580 Email: <u>sainivpfish@yahoo.com</u>
5	Acharya NG Ranga Agricultural university, Hyderabad	Dr P Ramesh	Programme Coordinator	Horticultural Research Station, Dasnapur, KVK (ANGRAU), Adilabad- 504 001 Mobile: 09849754309 Email: <u>ramesh_pulluri07@yahoo.com</u>

### Change of CL / CoPIs

S.No	Name of Old CoPI	New CL / CoPI	Justification
1	Dr S K Sharma Director/ CL NBPGR, New Delhi	Dr K C Bansal (CL) / Director NBPGR, New Delhi	Dr S K Sharma has joined the VC, CSKHPKV, Palampur & Dr K C Bansal has been appointed new Director NBPGR, New Delhi
	Dr. S. K. Mishra, Head GED, NBPGR, New Delhi	Dr. Manoranjan Dutta, Head GED, NBPGR, New Delhi	Dr. S. K. Mishra expired and Dr. M. Dutta joined as new Head GED, NBPGR, New Delhi
	NBPGR, New Delhi	<ol> <li>Dr S K Yadav, Sr. Scientist, NBPGR, New Delhi</li> <li>Dr D B Parakh, Sr. Scientist, NBPGR, New Delhi</li> <li>Dr R K Tyagi, Pr. Scientist, NBPGR, New Delhi</li> <li>Dr Veena Gupta, Pr. Scientist, NBPGR, New Delhi</li> <li>Dr Sushil Pandey, Sr. Scientist, NBPGR, New Delhi</li> <li>Dr Anjali Kak, Sr. Scientist, NBPGR, New Delhi</li> </ol>	Due to increase workload of survey of plant biodiversity which is time and season bound, additional scientific manpower is required. Women scientists are required to undertake project activities particularly training component (women/gender issue).
2	NBAGR , Karnal	<ol> <li>Dr R A K Agarwal, Pr. Scientist, NBAGR, Karnal</li> <li>Dr K N Raja, Scientist, NBAGR, Karnal</li> </ol>	The Director NBAGR has added two more scientist as CoPIs for the project work
3	Dr W S Lakra, Director NBFGR, Lucknow (Leader fisheries Programme)	Dr J K Jena, Director NBFGR, Lucknow (Leader fisheries Programme)	Dr W S Lakra has joined Director, CIFE, Mumbai & Dr J K Jena has been appointed new Director NBFGR, Lucknow
	Dr A K Pandian NBFGR, Lucknow	R S Patiyal, Technical Officer, NBFGR, Lucknow	Director NBFGR has added one scientist as CoPI for the project work.
4	Dr R P Kaushik, CSKHPKV, Palampur	Dr J K Sharma, Sr. Scientist, CSKHPKV, Palampur	Dr R P Kaushik has resigned due to ill health & Dr J K Sharma, Sr. Scientist, have taken over the charge of CoPI as per the orders from VC, CSKHPKV, Palampur
	Dr. V. K. Puri CSKHPKV, Palampur	<ol> <li>Dr Shivani Katoch, Asstt Prof</li> <li>Dr Devesh Thakur, Asstt Prof</li> <li>Dr B G Mane, Asstt Prof</li> <li>Dr Pradeep Sharma, Asstt Prof</li> <li>Dr Gopal Katna Assistant Scientist</li> <li>Dr G.D. Sharma Associate Professor</li> <li>Dr M.C. Rana Associate Professor</li> </ol>	Dr. V. K. Puri has retired from University services and University has added seven scientist to the project covering plant, animal and fish components
5	Dr N K Jain, Asst Prof, MPUAT, Udaipur	Dr Arvind Verma, Asst Prof, MPUAT, Udaipur	Dr N K Jain has joined NRC, groundnut, Junagadh and Dr Arvind Verma has been associated in the project by the University
	MPUAT, Udaipur	1. Dr Fateh lal Sharma, Asst Prof, MPUAT, Udaipur	The University has added two more scientist as COPIs for the

		2. Dr (Mrs) Shashi Jain, Asst Prof, MPUAT, Udaipur	Project work.
6	Dr V B R Murthy, Member Secretary, APSBDB, Hyderabad	Dr S N Jadhav, Member Secretary, APSBDB, Hyderabad	Dr S N Jadhav has joined as new Member Secretary, APSBDB, Hyderabad in place of Dr V B R Murthy
	APSBDB, Hyderabad	<ol> <li>Dr R Hampaiah, Chairman, APSBDB, Hyderabad</li> <li>Dr. M.V. Reddy Director, Deptt of Animal Husbandary, AP</li> <li>Dr. Manmohan Singh Commissioner. Deptt of Fisheries. A.P.</li> </ol>	The APSBDB has added three officials as CoPI for the project work

## II. Consortium Implementation Committee.

1.	Dr. K. C. Bansal	Chairman
	Director (Consortium Leader)	
	NBPGR, New Delhi-12	
2.	Dr. J.K. Sharma	Members
	Sr. Scientist	
	CSKHPKV, Palampur	
3.	Dr. Anand Jain	Members
	Principal Scientist	
	NBAGR, P.B. No129, Karnal – 132001	
4.	Dr. K. K. Lal	Members
	Sr. Scientist	
5	NBFGR, Canal Ring Road, PO Dilkusha, Lucknow –226002	Manahana
5.	Dr. S. R. Maloo	Members
	Director Research, Directorate of Research	
	MPUAT, Udaipur	N 1
6.	Dr P Ramesh	Members
	Principal Scientist, & Programme Coordinator	
	KVK (ANGRAU) Adilabad	
7.	Dr S. N .Jhadav	Members
	Member Secretary, APSBDB	
	Room No. 302 Aranya Bhavan, Saifabad, Hyderabad – 500 001	
8.	Sh Shailendra Tiwari	Members
	Incharge NRD Unit	
	Sevaminder, old fatehpura,Udaipur	
9.	Dr. J C Rana	Members
	Principal Scientist,	
	NBPGR Regional Station, Shimla, Phagli, H.P. –171004	
10.	Dr. N. K. Dwivedi	Members
	Principal Scientist, & OIC	
	NBPGR, RS, Jodhpur, Rajasthan	
11.	Dr K S Varaprasad	Members
	Principal Scientist & OIC NBPGR RS Rajendranagar,	
	Hyderabad 500 030	
12.	Sr. A O	Members
	NBPGR, New Delhi-12	
13.	F&AO	Members
	NBPGR, New Delhi-12	
14.	Dr. S. K. Pareek	Member Secretary
±	Principal Scientist &	
	Consortium Principal Investigator	

# **Consortium Monitoring Unit**

1.	Dr. K. C. Bansal	
	Director (Consortium Leader)	Chairman
	NBPGR, New Delhi-12	Ciidii iiidii
2.	Dr. J.K. Sharma	
	Sr. Scientist	Member
	CSKHPKV, Palampur	
3.	Dr. Anand Jain	
	Principal Scientist	Member
	NBAGR, P.B. No129, Karnal – 132001	
4.	Dr. K. K. Lal	
	Sr. Scientist	Member
5.	NBFGR, Canal Ring Road, PO Dilkusha, Lucknow –226002 Dr. S. R. Maloo	
5.	Director Research	Mamhan
		Member
6	MPUAT, Udaipur	
6.	Dr P Ramesh	
	Principal Scientist, & Programme Coordinator	Member
	KVK (ANGRAU) Adilabad	
7.	Dr S. N. Jhadav	
	Member Secretary, APSBDB	Member
	Room No. 302 Aranya Bhavan, Saifabad, Hyderabad – 500 001	
8.	Sh Shailendra Tiwari	
	Incharge NRD Unit	Member
	Sevaminder, old fatehpura,Udaipur	
9.	Dr. J C Rana	
	Principal Scientist,	Member
	NBPGR Regional Station, Shimla, Phagli, H.P. –171004	
10.	Dr. N. K. Dwivedi	
	Principal Scientist, & OIC	Member
	NBPGR, RS, Jodhpur, Rajasthan	
11.	L	
	Principal Scientist & OIC NBPGR RS Rajendranagar,	Member
	Hyderabad 500 030	
12.	Dr. S. K. Pareek	
	Principal Scientist &	Member Secretary
	Consortium Principal Investigator	
	NBPGR, New Delhi	

Recommendation/ approval of CAC for minor modifications in budgetary provisions of different centers under NAIP sub-project entitled, "Harmonizing biodiversity conservation and agricultural intensification through integration of plant, animal and fish genetic resources for livelihood security in fragile ecosystems" Under Component 3 (SRLS) Project Code: 30036 GEF funded.

S.No	Item	Justification	Recommendation of CAC
1	The CSKHPKV, Palampur and MPUAT, Udaipur each (Rs. 65,000/-) and ANGRAU, Hyderabad (Rs. 70,000/-) were sanctioned during 2009-2010 for organizing the brain storming session and interaction meetings with stakeholders in Chamba, Udaipur and Adilabad districts respectively.	Since the project was started with launch workshop (March 20-21, 2010) and 1 <sup>st</sup> release of funds to all centres was made in January- February, 2010. There was practically no time to organize the Brain storming sessions and interaction meetings in each district during 2009-10. These brainstorming sessions and interaction meetings were prerequisite to initiate the project work and same has been organized only after Launch Workshop during 2010-11. Therefore, funds for this activity may be allowed from operational funds of 2010-11.	The CAC approved the re- appropriation of the budget of Rs.65,000/- to each CSKHPKV, Palampur and MPUAT, Udaipur and Rs. 70,000/- to ANGRAU, Hyderabad for organizing brain storming session and interaction meeting with stakeholders in Chamba, Udaipur and Adilabad districts respectively from the operational money from the sanctioned budget for 2010-11 under the project.
2	The NBAGR, Karnal (Rs. 2.00 Lakh), CSKHPKV, Palampur, MPUAT, Udaipur (Rs. 0.80 Lakh each), APSBDB, Hyderabad (Rs. 0.60 Lakh) has been sanctioned during 2009-10 under operational head for procurement of superior animal germplasm.	There was practically no time during 2009-10 to procure the superior germplasm due to late release of funds under the project. Under this situation, these centres may please be allowed to procure the required animal germplasm from operational budget for the year 2010-11.	The CAC approved the re- appropriation of the budget for NBAGR, Karnal (Rs. 2.00 Lakh), CSKHPKV, Palampur, MPUAT, Udaipur (Rs. 0.80 Lakh each), APSBDB, Hyderabad (Rs. 0.60 Lakh) for procurement of superior animal germplasm from the operational money from the sanctioned budget for 2010-11 under the project.
3	Permission to purchase Mini Rice Mill out of money allocated for establishing Community Seed Bank. Required to be installed in Jandrog Panchayat of Bhatiyat block adopted for intervention under the biodiversity project in Chamba district (CSKHPKV, Palampur).	In the Jandrog panchayat in Bhatiyat block Red rice is the major intervention. At present the old type iron roller mill which causes lot of breakage of the rice is in use. For value addition in rice crop at this location a rubber roller Mini Rice mill is urgently required to reduce breakage of rice and for value addition. No additional money is required for the purpose. The expenditure of Rs. 1.5 lakh will be met out of the funds allotted for purchase of machinery for establishing a Community Seed Bank.	The CAC approved the re- appropriation of the budget for CSKHPKV, Palampur (Rs.1.5
4	Permission to buy two video cameras instead of one. Rs	Efforts to buy one Video camera of about Rs 50000 with	Not Approved

	50,000 has been allocated	accessories/software have failed	]
	for the purchase of one	three times. The prices of Video	
	video camera.(CSKHPKV,	Camera have gone down and in	
	Palampur).	the same amount 2 video cameras	
		can be purchased which will give	
		liberty for recording activities of	
		at least two components	
		(agriculture/ animal	
		sciences/fisheries) which have	
		different operational areas	
		simultaneously	
5	Purchase of one refrigerator	Since there is no refrigerator/ cold	The CAC approved the re-
	(approximate Cost: Rs,	storing facility in the department.	appropriation of the budget for
	25,000/-) for smooth	Spot-purchasing of these inputs is	ĊŚKHPKV, Palampur
	operation of health coverage	not possible before each visit and	(Rs.25,000/-), for procurement
	to the animals of adopted	stocks need to be kept ready for	of one refrigerator from the
	villages & to migratory	providing need-based health	operational money from the
	flocks: through Animal	coverage to adopted livestock/	sanctioned budget for 2010-11
	Health camps. Medicines	migratory flocks during sudden	under the project.
	and vaccines need to be	disease out-breaks. Permission	
	kept ready in stock and	required for purchase of one	
	maintained under cold chain	refrigerator(approximate Cost: Rs,	
	(CSKHPKV, Palampur).	25,000/-) for smooth operation of	
		health coverage activities from	
		operational funds of the	
		CSKHPKV, Palampur under the	
		project	
6	Organization of Trainings at	Facilities for holding trainings,	The CAC recommended the
	village-cluster level,	health camps, in a central	additional allocation of Rs 1.25
	Biodiversity Fairs, Milk	approachable place for holding	lakh out of the over all
	yield competitions / Healthy cow –Sheep, Goat	trainings / meetings / shows / competitions in the village/ from	sanctioned budget for
	cow –Sheep, Goat competitions/, Healthy	nearby areas, are not available in	CSKHPKV, Palampur under the project.
	heifer /bull/calf	these isolated village clusters. To	the project.
	competitions in each Block/	ensure involvement of members	
	village cluster for	of all castes, creeds, and farmers	
	promotion of	from different socio- political	
	competitiveness and	ideologies and inclinations, it is	
	awareness amongst	important to conduct these health	
	livestock farmers a	camps and trainings in a central	
	'Camping Kit' costing	and 'neutral' place. The selected	
	about Rs. 1.25 lakh	village-clusters are very distantly	
	including folding tents and	located from the CSK HPKV,	
	seating arrangement for the	Palampur, from where we have to	
	trainees and trainers,	carry health-inputs, medicines,	
	wherein these activities can	training materials etc. Inclement	
	be smoothly conducted in	and unpredictable weather	
	the face of hostile weather	conditions: rainy and winter	
	conditions (CSKHPKV,	seasons, frequent road blocks	
	Palampur).	/land slides etc. Hence we need a	
		'Camping Kit' including folding	
		tents and seating arrangement for	
		the trainees and trainers, wherein	
		these activities can be smoothly	
		conducted in the face of hostile weather conditions	
7	Value addition to livestock	Lack of deep freezer (-20C)	Not Approved
/	value addition to investock	Lack of $uccp$ ficezet (-20C)	Tiol Apploved

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	products and providing Market Linkages (CSKHPKV, Palampur).	facility, wherein, the processed products (Khoya, Shree-khand etc.) can be hygienically stored till /before marketing. This is due the short shelf life, perish ability and quality deterioration of these products & the raw materials. Additional provision of Rs. 40,000/- required for purchase of one central level facility for pooling and storage of the raw material and processed products for before preparation and for marketing	
8	Distribution of superior germplasm for genetic upgrading (CSKHPKV, Palampur).	AI facility with semen of local breeds is not available in any of the village-clusters in Chamba district. Though State Govt. has started efforts in this direction, but it may take a few years to be operational. Hence, we need to provide superior germplasm for natural service (cow bull, buffalo bull, ram, buck); one for each cluster village/block. Our own first hand field indicates that approximate costs of local breed germplasm in the local unorganized market is as below : Cow bull (3): @Rs. 12000/- Buffalo bull (1): @ Rs. 20,000/- Gaddi Ram (3+3): @ 7000/- Gaddi Buck (3+3): @Rs. 7000/- Total costs : Rs. 140,000/- + Insurance Costs (Rs 10,000/- Net amount Rs. 150,000/- Amount allocated: Rs. 80,000/- Only Additional fund allocation of Rs. 70,000/- is required in order to ensure logistic inputs for breed	The CAC considered this issue. Since the CAC has already approved the item No 2 which take cares this part also. Hence it may be dropped.
9	Conversion of RA in SRF for MPUAT, Udaipur.	up-grading. One RA and two SRFs have been sanctioned for MPUAT Udaipur. Since University has a policy not to appoint RA therefore University has appointed 3 SRFs. The position of one sanctioned RA may be converted in SRF.	The CAC recommended the conversion of the post of RA to SRF for MPUAT, Udaipur.
10	Provision for additional fund for ornamental fish cages. (MPUAT, Udaipur).	As per the technical programme of NAIP (Fish component), the culture of ornamental fish has to be promoted in selected villages for their livelihood security. However, there is no financial provision for the resource generation for ornamental fish.	The CAC recommended the additional fund of Rs.5.0 lakh (Rs 4.0 lakh for cages construction and Rs 1.0 lakh for ornamental fish seed and feed) out of the over all sanctioned budget for MPUAT, Udaipur under the project

		MPUAT, Udaipur. During 2009-10 one set of cage was designed and fabricated for trial scale study using misc. Budget. The results of the study are very fruitful for improving income of the rural youth. Hence, it is proposed that a sum of Rs 4.0 lakh for cages construction and Rs 1.0 lakh for ornamental fish seed and feed be provided for further enhancing the activity at commercial level.	
11	Additional requirement of Rs. 20.5 lakh for procurement of superior animal germplasm (MPUAT, Udaipur).	The university has provided the revised cost of Rs. 20.5 lakh for the superior animal germplasm to	additional cost proposals will