Identification

|  |  |
| --- | --- |
| Name of Organization | National Wheat Research Program (NWRP), Bhairahawa |
| Address | Padsari- 1, Padsari, Rupandehi |
|  |  |
| Contact No.: | 071-520226; 071-522196, 071-9847030227 |
| E-mail address: |  |
| Person Interviewed: | Mr. Dayanidhi Pokhrel |
| Position / function in organization: | Senior Technical Officer |
| Male / Female: | Male |
| CCAFS Site (ID No.) |  |
| Town Name: | Padsari village |
|  |  |
| Name of InterviewerM | Ghana Shyam Giri |
| Date of Interview | March 08, 2012 |
| Duration of the interview | 3 Hours |
|  |  |
| Other people present |  |
| Please record name and functions |  |
|  |  |

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| --- | --- | --- | --- |
|  | **Types of Organizations** | |  |
|  | Private sector (Profit making) | ⃝ | 1 |
|  | NGO (Local) | ⃝ | 2 |
|  | NGO (National) | ⃝ | 3 |
|  | NGO (International) | ⃝ | 4 |
|  | Government (Local) | ⃝ | 5 |
|  | Government (Regional-within country) | ⃝ | 6 |
|  | Government (National) | ⃝ | 7 √ |
|  | Other International Organizations | ⃝ | 8 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Does the organisation work at any of the following levels? (tick as many as relevant) | |  |
|  | Local | ⃝ | 1√ |
|  | Regional- within country | ⃝ | 2√ |
|  | National | ⃝ | 3√ |
|  | International | ⃝ | 4√ |

Organisation Information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1.** | What does your organisation do? (Main areas of work) |  |  |  |  |
|  | Breeding high yielding, diseases, insects resistant/tolerant, weed suppressing, drought/heat/waterlogging tolerant/resistant, input responsive/efficient wheat varieties; Evaluation of wheat genotypes for the above characters in the research station and farmers’ fields; Technology transfer to farmers’ fields (PVS, FAT, CFFT) through NWRP’s own programs and DADO, I/NGOs; Imparting trainings to SMS, JT, JTA and farmers/ farmers’ group on new and innovative agricultural technology; Resource Management through conservation tillage (zero/minimum/reduced); DSR substituting transplanted rice to reduce Methane emission; Maintenance breeding, breeders’ seed production of wheat varieties and foundation seed production of rice varieties. | | | |  |
| **2.** | Describe the locality where your organisation works |  |  |  |  |
|  | All over Nepal | | | |  |
|  |  | | | |  |
|  | How long has your organisation been working in this area? | | | |  |
|  | Since it has been established in 1972 (2029 BS) | | | |  |
|  |  | | | |  |
| **3.** | What types of services and information do you provide to farmers (and their communities) on : | | |  |  |
| **3.1** | Agriculture related decision making |  |  |  |  |
|  | What wheat varieties are to be grown, when and how to plant wheat to get optimal grain yield; what is the fertilizer amount and time of application to get optimal yield without polluting the environment; how and when to plant wheat using zero tillage to reduce cost of production and increase wheat yield; what rice varieties are to be grown, when to plant rice seed in the rice nursery and when to plant them in the field, what cultural methods are to be applied to get more yields; how DSR is done at what type of land to get yield equivalent the yield from transplanted rice and cooperation/ linkage with other agriculture line agencies to get the jobs done properly | | | |  |
| **3.2** | Natural resource management |  |  |  |  |
|  | * Management of soil and water properly so that there would not be any adverse effect on soil, water and the crops to be grown * Conservation of disappearing/genetic wheat genotypes/plants * Inclusion of Legume in the crop cultivation * Conservation agriculture to sequester CO2 and increase carbon content in the soil * Use of DSR in rice establishment to reduce methane gas emission. * Integrated pest management | | | |  |

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| --- | --- | --- | --- | --- | --- |
| **3.3** | Food security |  |  |  |  |
|  | * Wheat breeders’ seed and rice foundation seed production and distribution * Crop management technology transfer to farmers’ fields * Increasing cropping intensity * Releasing input efficient wheat and rice varieties with their cultivation package of practices * Utilization of available irrigation water judiciously without waterlogging in the wheat fields | | | |  |
| **3.4** | Weather and climate related decision making |  |  |  |  |
|  | * Resource conservation technologies (zero/minimum/reduced tillages, DSR, LCC)- production and dissemination; integrated pest management, integrated plant nutrient integrated nutrient management, effect of inorganic fertilizers on soil and crops | | | |  |
| **3.5** | Markets related decision making |  |  |  |  |
|  | * Market price information collection and dissemination * Which varieties are to be grown, where and how to grow based on market demand | | | |  |
| **3.6** | Does your organisation have activities related to climate change mitigation? | | | |  |
|  | * Testing, evaluation and selection of stress (heat/drought/flood/insect/diseases] tolerant/resistant wheat/rice varieties for general cultivation * Conservation agriculture * Use of leaf colour chart (LCC) for adequate amount of N application * Optimal/proper use of irrigation water. | | | |  |
|  |  |  |  |  |  |
|  | **Mitigation** In the context of climate change, a human intervention to reduce the sources or enhance the sinks of greenhouse gases.  Examples include using fossil fuels more efficiently for industrial processes or electricity generation, switching to solar energy or wind power, improving the insulation of buildings, and expanding forests and other "sinks" to remove greater amounts of carbon dioxide from the atmosphere.  Source: Glossary of climate change acronyms, UNFCCC (<http://unfccc.int/essential_background/glossary/items/3666.php>) - reached through Wikipedia | | | |  |
| **3.7** | Other types |  |  |  |  |
|  | * Temperature control through mulching, conservation agriculture * Varieties selection using PVS methodologies * Heat/drought stress tolerant wheat varieties | | | |  |

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| --- | --- | --- | --- | --- | --- |
| **4.** | What objectives does your organisation aim to fulfil in the area of supporting farmer decision making by providing information and services? List them  *(Probe for any objectives that may be forgotten and have to do with climate or weather issues specifically)* | | | |  |
|  |  |
|  | 1. Developing/ breeding high yielding, diseases, insects resistant/tolerant, drought /heat/waterlogging tolerant/resistant, input responsive/efficient wheat varieties | | |  |  |
|  | 1. Evaluating of wheat genotypes for the above characters in the research station and farmers’ fields | | |  |  |
|  | 1. Transferring technology to farmers’ fields (PVS, FAT, CFFT) through NWRP’s own programs and DADO, I/NGOs | | |  |  |
|  | 1. Imparting trainings to SMS, JT, JTA and farmers/ farmers’ group on new and innovative agricultural technology | | |  |  |
|  | 1. Resource Management through conservation tillage (zero/minimum/reduced) for timely planting of wheat, reducing cost of cultivation and sequestering CO2 | | |  |  |
|  | 1. Maintenance breeding, breeders’ seed production of wheat varieties and foundation seed production of rice varieties | | |  |  |
|  | 1. Providing technical and logistic support to DADO, seed companies, agrovets etc. in wheat and rice seed production | | |  |  |
|  | 1. Coordinating with international organizations such CIMMYT, IRRI, IARI/ICAR etc. | | |  |  |
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| 5. | In operational terms, what are your organization’s current priorities?  Please tell me how important each objective is on a scale from 0 to 10, where 0 represents unimportant and 10 is the highest importance for your organisation | | | | | | |  |  |
|  | Objective (use letter from Question 4 to identify the objective) | | |  | | Importance | |  |  |
|  |  |  | 🡪 |  | | 10 | |  |  |
|  |  |  | 🡪 |  | | 8 | |  |  |
|  |  |  | 🡪 |  | | 9 | |  |  |
|  |  |  | 🡪 |  | | 10 | |  |  |
|  |  |  | 🡪 |  | | 9 | |  |  |
|  |  |  | 🡪 |  | | 8 | |  |  |
|  |  |  | 🡪 |  | | 8 | |  |  |
|  |  |  | 🡪 |  | | 8 | |  |  |
|  |  |  | 🡪 |  | |  | |  |  |
|  |  |  | 🡪 |  | |  | |  |  |
|  |  |  |  |  | |  | |  |  |
| **6.** | What is your view of the way priorities of your organisation could be changing over the next 5 years? | | | | | | |  |  | |
|  | * Conservation agriculture will get priorities over the next 5 years. * Development of drought/heat/flood tolerant will be given due priorities within this period | | | | | | |  |  | |
|  |  | | | |  | |  |  |  | |
|  |  | | | |  | |  |  |  | |
| **7.** | In your geographical area of operation do you work directly with, or specifically target any of the following? | | | | | | |  |  | |
|  | Individual farmers | | | | | | | ⃝ | 1 √ | |
|  | Community groups | | | | | | | ⃝ | 2 √ | |
|  | Other organisations working in the locality | | | | | | | ⃝ | 3 √ | |
|  | Local authorities | | | | | | | ⃝ | 4 √ | |
|  | Women individually or in groups | | | | | | | ⃝ | 5 √ | |
|  | Other, specify \_\_\_\_ | | | | | | | ⃝ | 6 | |
|  |  | | | | | | |  |  | |
|  | Use the answer from this question to probe the answers you get in the next question | | | | | | |  |  | |
|  |  | | | |  | |  |  |  | |
| **8.** | What activities are the main activities that **YOU** are implementing **NOW** in relation to the provision of information and services that help in decision making? | | | | | | | |  | |
|  | * Participatory Variety Selection (PVS) | | | | | | |  |  | |
|  | * SMS, JT, JTAs, fields level and district level farmers’ trainings | | | | | | |  |  | |
|  | * Conservation agriculture | | | | | | |  |  | |
|  | * DSR in dry soil/WSR to cope with lack of agriculture labor and to reduce cost of cultivation | | | | | | |  |  | |
|  | * Reporting through annual report, technical paper writing | | | | | | |  |  | |
|  |  | | | | | | |  |  | |
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For each activity described above, use the Activity Information pages as a guide for the interview and to record the information provided by the respondent.

Information about service activities

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|  |  | | | |  | |  | |  | | | |  | | |
| **1.** | Activity Name | | | | | | | |  | | | |  | | |
|  | * Breeding high yielding, diseases, insects resistant/tolerant, weed suppressing, drought/heat/waterlogging tolerant/resistant, input responsive/efficient wheat varieties; * Evaluation of wheat genotypes for the above characters in the research station and farmers’ fields; * Technology transfer to farmers’ fields (PVS, FAT, CFFT) through NWRP’s own programs and DADO, I/NGOs; * Imparting trainings to SMS, JT, JTA and farmers/ farmers’ group on new and innovative agricultural technology; * Resource Management through conservation tillage (zero/minimum/reduced); DSR substituting transplanted rice to reduce Methane emission; * Maintenance breeding, breeders’ seed production of wheat varieties and foundation seed production of rice varieties. * Programs planning, reporting, monitoring and evaluations for performing/completing above activities * Market management also for increased agriculture production and productivity | | | | | | | |  | | | |  | | |
| **2.** | What are you doing? | | | | | | | |  | | | |  | | |
|  | * Breeding high yielding, diseases, insects resistant/tolerant, weed suppressing, drought/heat/waterlogging tolerant/resistant, input responsive/efficient wheat varieties; Evaluation of wheat genotypes for the above characters in the research station and farmers’ fields; Technology transfer to farmers’ fields (PVS, FAT, CFFT) through NWRP’s own programs and DADO, I/NGOs; Imparting trainings to SMS, JT, JTA and farmers/ farmers’ group on new and innovative agricultural technology; Resource Management through conservation tillage (zero/minimum/reduced); DSR substituting transplanted rice to reduce Methane emission; Maintenance breeding, breeders’ seed production of wheat varieties and foundation seed production of rice varieties. * Planning farmers’ interview, regional level planning workshop, coordination with DADOs, I/NGOs, farmers’ groups/cooperatives * Monitoring of wheat varieties planted in farms/stations/farmers’ fields * Writing monthly, quaterly, annual reports and technical reports | | | | | | | |  | | | |  | | |
|  |  | | | |  | |  | |  | | | |  | | |
| **3.** | Where is it happening (include area coverage, if possible identify it on a map of the area)? | | | | | | | |  | | | |  | | |
|  | * All over Nepal and particularly in Rupandehi, Nawalparasi and Kapilvastu districts | | | | | | | |  | | | |  | | |
|  |  | | | |  | |  | |  | | | |  | | |
| **4.** | Describe the way it is implemented (find out: who implements, mechanism for delivery, frequency, what capacity is built, what is the role of individuals/groups/community, etc.)? | | | | | | | |  | | | |  | | |
|  | * Research starts from village level planning workshop in coordination with DADOs, problems are prioritized and projects are written that are approved by Central research panel. Researches are carried out in the farms/stations first, the most promising technologies (wheat/rice varieties or management technologies) are transferred to farmers’ fields directly or through DADOs/I/NGOs; based on the performance of the technologies in the farmers’ fields, the technologies are recommended for the farmers. | | | | | | | |  | | | |  | | |
| **5.** | Describe the target population and the population being reached (characteristics, size, etc.) | | | | | | | | |  | |  | | | |  | |
|  | * NWRP, Bhairahawa choose/select farmers without discrimination. Farmers that are interested in the programs are included from all walks of life. However, women and disadvantaged groups are in prime lists. * Private seed companies/agrovets are encouraged to take part in quality seed production programs. * Farmers with lowland/marginal fields are advised to go conservation agriculture | | | | | | | |  | | | | | | |  | |
|  |  | | |  | | | |  |  | | | | | | |  | |
| **6.** | Are you targeting a particular group? | | |  | | | | Yes | ⃝ | | | | | | | 1 | |
|  |  | | |  | | | | No | ⃝ | | | | | | | 2 √ | |
|  | **Describe the targeted group** | | |  | | | |  |  | | | | | | |  | |
| **7.** | Are you targeting mainly | | | Men | | | | young | ⃝ | | | | | | | 1 √ | |
|  | Tick as many as relevant | | |  | | | | adults | ⃝ | | | | | | | 2 √ | |
|  |  | | |  | | | | elderly | ⃝ | | | | | | | 3 √ | |
|  |  | | | Women | | | | young | ⃝ | | | | | | | 4 √ | |
|  |  | | |  | | | | adults | ⃝ | | | | | | | 5 √ | |
|  |  | | |  | | | | elderly | ⃝ | | | | | | | 6 √ | |
| **8.** | Are there any specific ethnicities, type of households (e.g. female headed) or specific socio-economic/vulnerable/ marginalized groups that you are currently targeting in your operations? (list them below) | | | | | | |  |  | | | | | | |  | |
|  | Yes they are: | | | | | | |  |  | | | | | | |  | |
|  | Female Farmers’ Groups /Cooperatives/private seed companies/agrovets | | | | | | |  |  | | | | | | |  | |
|  |  | | | | | | |  |  | | | | | | |  | |
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|  |  | |  | | | | |  |  | | | | | | |  | |
| **9.** | Are you working together with other organisations? | |  | | | | |  |  | | | | | | |  | |
|  | If yes, list them | |  | | | | |  |  | | | | | | |  | |
|  | Name of the Organization | Contact person | Type of organisation | | | Contact number | | |  | | | | | | |  | |
|  | CIMMYT Regional Office, Kathmandu | Dr. Krishna Devkota | 4 | | | 977-9747050504 | | |  | | | | | | |  | |
|  | DOA/DADOs | All over Nepal | 3 | | |  | | |  | | | | | | |  | |
|  | Seed companies/agrovets |  |  | | |  | | |  | | | | | | |  | |
|  | INGOs |  | 4 | | |  | | |  | | | | | | |  | |
|  | NGOs |  | 2 | | |  | | |  | | | | | | |  | |
|  |  |  |  | | |  | | |  | | | | | | |  | |
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|  |  |  |  | | |  | | |  | | | | | | |  | |
|  | Types: 1. Community based, 2. NGO, 3. Government, 4. International and 5. Other | | | | | | | |  | | | | | | |  | |
|  |  | | | |  | | | | | |  | | |  | | |  | |
| **10.** | How long have you been implementing this activity? | | | | Since 1972 | | | | | | | | | |  | |  | |
|  |  | | | |  | | | | | |  | | |  | | |  | |
| **11.** | When will this activity finish? | | | | Continue/ongoing | | | | | | | | | |  | |  | |
|  |  | | | |  | | | | | |  | | |  | | |  | |
| **12.** | What is the source of funding for this activity? | | | |  | | | | | |  | | |  | | |  | |
|  | * Government of Nepal * External source in the form of projects from different CGIARs/IARCs | | | | | | | | | | | | | |  | |  | |
|  | Please specify: government (national/ local), private (profit making), NGO local/ national/ international), community funded) | | | | | | | | | | | | |  | | |  | |
|  |  | | | | | | | | | | | | |  | | |  | |
| **13.** | f the activity is information based, try find out about the sources and process to get the information to the users. Here are some questions that may be useful to build the story:   1. What is the source of information used? 2. How do you get it? 3. Do you process the information in any way for your target audience (e.g. reformatting, reframing, re-analysis)? 4. If yes, what do you do, how and why? 5. How do you pass it on to your target audience? 6. What products do you generate? 7. How do you communicate them? 8. What are the main challenges/difficulties you encounter? | | | | | | | | | | | | | |  | |  | |
|  | 1. Village/regional/national level planning workshops, farmers’ group discussions, regional workshops and seminars, different publications; DOA/DADOs forms one of the source of information for getting farmers’ problems and methods to tackle them. 2. By participating, cooperating and coordinating with all line agencies all together 3. The information is processed to make it palatable to the farmers without deviating from its original form. 4. Leaflets/pumplets/booklets, research papers, farmers, farmers’ groups, trainings, DADOs, PVS, CFFT, FAT, telephones/mobiles are used to pass the information to target groups 5. The product we generate: We have nothing to generate but to disseminate the new technology of agriculture. The new technology we get from NARC, e-nets and books 6. The methods of communication: All the extension tools are used to communicate them such as Demonstrations, Minikits, Teaching in groups, Tours, Workshops, Seminars, Radio broadcasting, Telephone etc. All the extension tools used in agriculture extension are fruitful in extension work 7. Main Challenges/Difficulties:    * Lack of technical manpower particularly the scientists/senior scientists and other lower staff retired are not fulfilled    * Land is not suitable for wheat cultivation, lentil/mustard cultivation    * Old vehicles hinder free movement to farmers fields for monitoring and evaluation of the projects/wheat/rice genotypes/varieties.    * Only limited areas is included to test the technologies    * Low linkage with I/NGOs   Use additional pages if needed. If so, please write the organisation, activity name and page number at the top. | | | | | | | | | | | | | |  | |  | |
|  |  | |  | |
|  |  | | | | | | | | | | | | | |  | |  | |
| **14.** | Are you aware of any other organisations working locally on this theme, but that you are currently not working with? (list) | | | | | | | | | |  | | |  | | |  | |
|  | Not known till today. | | | | | | | | | | | | | |  | |  | |

Perception

1. From your point of view, at your workplace, what is the relative importance in the portfolio of your organisation that is placed on climate or weather related activities:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | None | Low | Medium | High | Very high |
| Allocation of time | ⃝ | ⃝ | ⃝ | ⃝√ | ⃝ |
|  |  |  |  |  |  |
| Allocation of staff | ⃝ | ⃝ | ⃝√ | ⃝ | ⃝ |
|  |  |  |  |  |  |
| Allocation of budget | ⃝ | ⃝ | ⃝√ | ⃝ | ⃝ |
|  |  |  |  |  |  |
| Other, \_\_\_\_\_\_\_\_\_\_\_\_\_ | ⃝ | ⃝ | ⃝ | ⃝ | ⃝ |
|  |  |  |  |  |  |

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| --- | --- | --- | --- |
| 2. | From your point of view, what is driving the agenda for climate related services and information (tick as many as relevant) |  |  |
|  | funders | ⃝ | 1 √ |
|  | my organisation headquarters | ⃝ | 2 √ |
|  | my local office | ⃝ | 3 |
|  | community based organisations | ⃝ | 4 |
|  | farmers individually | ⃝ | 5 |
|  | other | ⃝ | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
| 3. | When did your organisation start implementing on the ground “climate change” related activities? |  |  |
|  | * Knowingly/unknowingly from its establishment in 1972 as developing stress tolerant varieties was one of the themes/objectives of National Wheat Research Program. * Relay/surface seeding in wheat has been started since 1990 * Soil and water conservation activities (DSR in dry soil/WSR) have been started since 1988. |  |  |
|  | don’t know | ⃝ | 1 |
|  | not started yet | ⃝ | 2 |

4. Are there any gaps in the areas of climate related activity that you perceive in your organisation today?

|  |  |
| --- | --- |
|  | Area |
| 1 | Combine made harvesting of rice and wheat easier but encouraged rice/wheat straw burning common that could have adverse effect on environment. |
| 2 | Adverse effect of combine on soil due to compaction. |
| 3 | Increasing chances of eutrophication/increased concentration of soil nutrients particularly N, P2O5 and K2O in the water sources. |
| 4 |  |

5. What is your organisation doing well, or is innovative in areas of climate related activities today – where can others learn from you?

|  |  |
| --- | --- |
|  | Area |
| 1 | Developing stress (heat/drought/waterlogging) tolerant/resistant wheat varieties |
| 2 | Use of Conservation Agriculture in rice and wheat cultivation |
| 3 | Use of DSR in dry soil of rice establishment to reduce methane gas emission |
| 4 | Evaluation of flood tolerant/resistant rice varieties obtained from Nepal Rice Research Program |
| 5 |  |
| 6 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 6. | If you were the person making decisions on the agenda for next year, which climate related activity do you think would have potential here that is not yet included in your work? |  |  |
|  | * Minimizing burning of rice/wheat straw * Emphasis on legume incorporation between wheat and rice * Brown manuring before rice |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 7. | Do you have any comments or additional ideas you would like me to record? |  |  |
|  | * Institution like NWRP should play an important role in each and every field of agriculture and thus burning crop residue after crop harvest does carry a good massage to the farmers. Such activity should not be done despite of any difficulties the institution has been facing. |  |  |