

Summer Internship Project - P1

Strategic Pilot on Adaptation to Climate Change (SPACC)

Guide

Mr.Y Sudhakar

Field Officer

Allagadda Field Unit

BIRDS - SPACC Project

Submitted By

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BIRDS

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June 15th, 2013

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Srinivas Godala, pursuing M. Des Visual Communication II semester at IDC, IIT Bombay, has completed one month summer internship at BIRDS Allagadda Field Unit, Kurnool from 15th May, 2013 to 15th June, 2013. During the tenure of his internship we found him to be good, sincere and hardworking.

We wish him all the best in all future endeavors.

For Bharathi Integrated Rural Development Society.

V. Paul Raja Rao
Executive Director
BIRDS



Approval Sheet

The summer internship project on SPACC Project at BIRDS NGO Allagadda Field Unit by Srinivas Godala, Roll No 126250012 is approved for partial fulfillment of the requirement for M. Des Degree in Visual Communication.

Prof. Sudesh Balan
Program Coordinator

Signature

Date Place

Declaration

I declare that this document has been written by me in my own words and if some third party's ideas or words have been included, I have referenced the original source. I solemnly declare that I am completely responsible for the content of this report and that I have not plagiarized.

Srinivas Godala
Roll No: 126250012

Signature

Date Place

Acknowledgement

I would like to thank

Mr. Paul Raja Rao Executive Director of BIRDS who granted me an opportunity to work with them for my summer internship,
Mr. Konda Reddy Subject Expert was introduced me to BIRDS.

Mr. Sudhakar, Field officer at Allagadda. He was explained about the project and advised me in handling different types of tasks. His support and guidance helped me a lot to complete my project successfully.

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About Organization - BIRDS

I have worked in Bharathi Rural Development Society (BIRDS) for summer internship Allagadda, BIRDS is the NGO working in and around 4 states, Andhra Pradesh, Karnataka, Tamilnadu and Kerala.



Vision:

BIRDS vision is "a world where all its inhabitants live in complete harmony with each other to maintain and benefit from balanced eco-systems."

Mission:

BIRDS mission is to create platform for people from all walks of life so that they are able to take necessary action for ensuring ecological stability, safeguarding human rights, eradicating poverty, ensuring minimum standard of living, and bringing in social justice (on account of differences based on gender, disability, social and economical marginalization and displacement).



Guiding Principles

BIRDS will work only for furtherance of its vision, mission and objectives. BIRDS recognize that it is only a part of a bigger movement to ensure environmental stability and in the fight against poverty. Therefore, it strive to establish linkages at the organization and community levels with different strategic developmental players (governmental and non-governmental).

BIRDS believe that it stands accountable to public, government and for agencies providing financial support as well as for the people the support is intended. Through its transparent administration and accounting systems BIRDS will register itself as an honest and humble change agent.

BIRDS work culture will be that of mutual respect, equality and justice, where everyone irrespective of sex, sexual orientation, age, race, colour, class, religion, ethnicity, and location are treated equally.

BIRDS will work with courage, creativity, innovativeness, in pursuit of its vision, mission and objectives, without fearing anybody. BIRDS will have a bias for poor and marginalized people because of the fact that their mainstreaming can only result in realization of its larger goal



Objectives of BIRDS

- To educate the rural poor through non-formal education
- To act as liaison organization between government rural poor and to inform the rural poor about various governmental programs intended to help them
- To provide opportunities for the development of village artisans
- To undertake land-based projects for the benefit of small and marginal farmers
- To establish homes for the aged, child labour, widows and disabled
- To undertake women welfare programs
- To organize self help groups for poor women for economic independence
- To improve health conditions of rural poor
- Low cost housing programme for the poor
- To preserve environment of the target areas
- To promote sustainable agriculture programs and organic farming systems

Focus Constituencies

- Dalits/Adivasis
- Women
- Children
- Small and Marginal Farmers
- Vulnerable communities



BIRDS Operational Area

BIRDS has a very humble beginning in terms of its area of operation, working in one of the most backward mandals of Kurnool district viz., Midthur. Activities of BIRDS were limited to this mandal. In 1996, BIRDS started expanding to other backward mandals within the Kurnool district. By the year 2003, BIRDS covered six mandals in the district, viz., Midthur, Kolimigundla, Owk, Rudravaram, Chagalamarri and Allagadda.

BIRDS entered other districts, as APFAMGS Project is close, now it is working on SPACC Project. It extended its areas of operation through partner NGOs to seven districts of Andhra Pradesh viz., Anantapur, Chittoor, Cuddapah, Kurnool, Mahbubnagar, Nalgonda and Prakasam. Through CHETANA Network, BIRDS is presently working in the states of Andhra Pradesh, Tamilnadu, Karnataka, and Kerala.

About SPACC Project

Strategic Pilot on Adaptation to Climate Change(SPACC)

The State of Andhra Pradesh experiences high climate variability.

Some districts in the state are particularly prone to frequent droughts.

The negative impacts of droughts threaten agricultural production and the livelihoods of rural communities in the state. With climate change, rainfall is expected to decrease and become more variable in the drought-prone districts.

This will be accompanied by a significant decrease in runoff, water scarcity and a decline in crop yields. The capacity of the communities to cope with the impacts of current climate variability is weak. Limited knowledge and information on local impacts of climate change will hamper the ability of communities to adapt to climate change.

The development objective of the proposed project is to increase the knowledge and capacity of communities to adapt to climate variability and change in seven drought-prone districts of Andhra Pradesh.

The global environmental objective is to contribute to knowledge building and experience in integrating climate change adaptation in sustainable land and water management in drought- prone areas. The project will help build the skills and tools for communities to integrate climate adaptation into sustainable land and water management (SLWM) practices.

The project has been structured into three main components:

- Information tools for decision making and local institutional capacity development;
- Pilots on adaptation measures integrated into SLWM practices;
- Platform for scaling up climate change adaptation measures suitable for drought prone areas.

Project outcomes will include

- Farmers and community based organizations make informed decision on land and water management based on scientific and local knowledge taking into account impacts of climate variability and change.
- Farmers have acquired skills in managing climate risks through participation in climate change schools.
- Adequate adaptation technologies and practices piloted and best practices identified.
- Package of best adaptation tools and practices documented and disseminated to support scaling-up.

- The proposed project is a three year project with a total budget of USD 3 762 654(3.7 million dollars) of which GEF will provide USD909 091.

This project is financed by GEF
(global Environmental Facility – Australia) and
FAO (Food and Agriculture Organization) of UN.





Project Activities

BIRDS-SPACC project is working to strengthen the knowledge and capacities of communities to respond to climate variability and change impacts in pilot hydrological units (HUs) in seven drought-prone districts of Andhra Pradesh from the year 2011.

BIRDS-SPACC has been working in Rudravaram Mandal of Kurnool district for the past two years through an innovative farmer driven grass-root level environmental action, which takes into account the effects of climate variability and change. Climate Change Adaptation Committees (CCAC) at village level and CCAC at HUN level are the key institutions to monitor the PCM Stations and implementation of FCS and SLWM pilots. The following activities were carried out from the year 2011 to 2012.

- CCAC committees were formed in 18 villages of Pilot HU by name Chinneru.
- Organized Vision building exercise for all CCACs at Village level. Every CCAC has a vision to cope with the climate variability.
- PCM stations were established to collect weather data(Rainfall, Temperatures (Max, Min), Temperatures (Wet and Dry, Evaporation rate, wind speed and direction and sunshinehours).
- Identified PCM volunteers for regular collection and record of weather data.
- Established display boards to display the weather data for the rest of the community in the village.



- Cultural shows (Kalajatha) were organized in all pilot villages to create awareness on climate variability and its impacts, and the activities of the SPACC project.
- Six FCS (Farmer Climate Schools) were organized and created awareness on the impacts of Climate variability on crop production and human health.
- Implementation of SLWM Pilots to improve soil health and to promote climate resilient agricultural practices.

HUN Activities

- Meet once in three months.
- Maintain all records (Minutes book, visitor's book and accounts related books).
- Maintenance of PCM stations established in the pilot HU.
- Monitoring of the work of CCAC (Climate change Adaptation committees) at village level .
- Ensure regular PCM (Participatory Climate Monitoring) data collection, water levels data and record of the data on Display boards in every village of pilot HU.
- Organize Crop water Budgeting exercise for the estimation of available water for crops planned for Rabi season.
- Identify and recommend farmer participants for FCS (Farmer Climate Schools).

- Identify and recommend farmers for the conduct of long term experiments (SLWM Pilots) in Agriculture to establish their effectiveness in addressing issues arising out of climate change or variability.
- Sub committees were formed to monitor FCS, PCM stations and SLWM Pilots in the pilot HU.
- For more information, please see SPACC website:
<http://www.birds-spacc.org/index.php>.

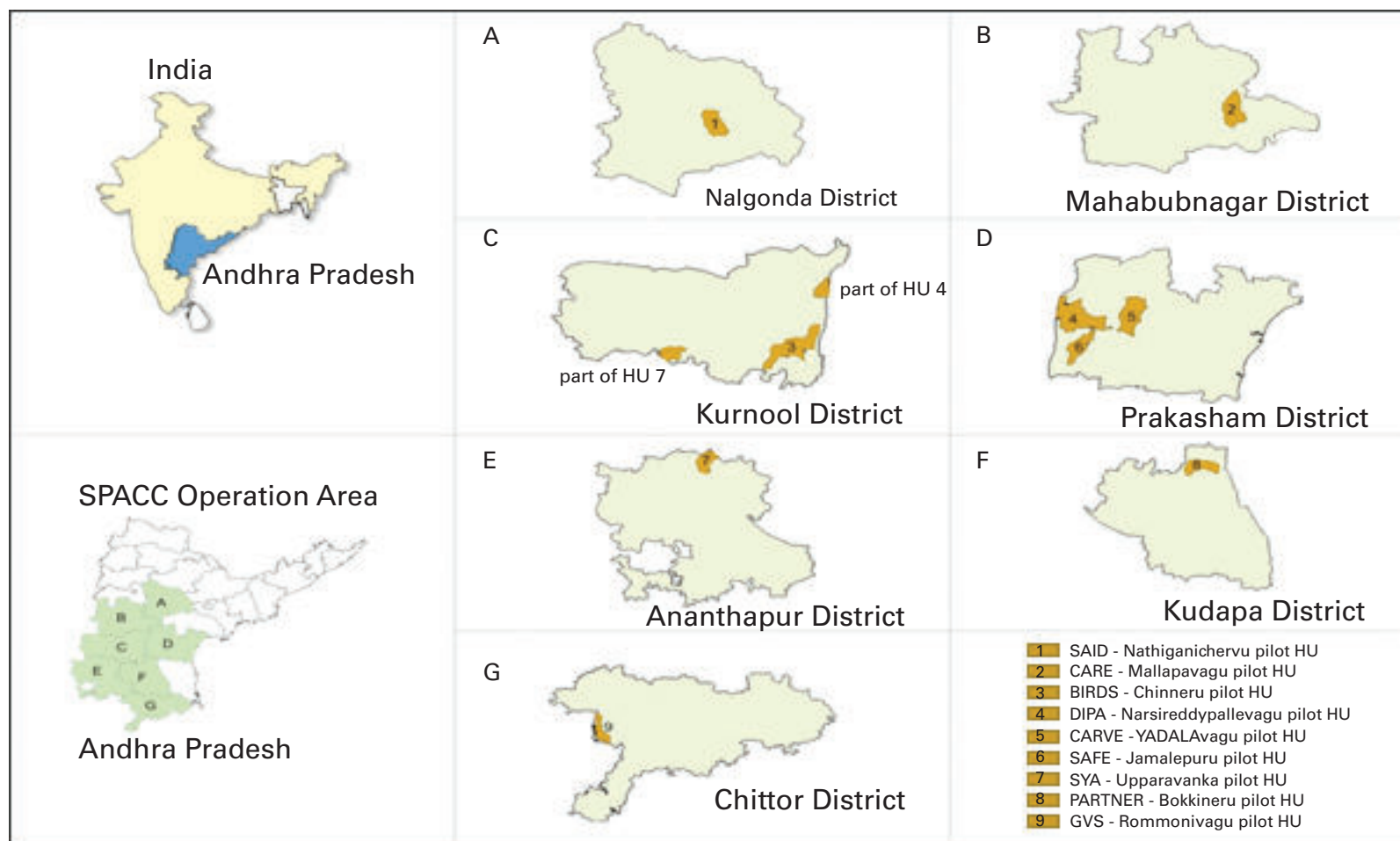


FCS (Farmers Climate School)

- Empower local community with knowledge and skills to make informed decisions on climate variability/change.
- Sensitize farmers on need for collective action for effective adaptation.
- Increase farmer's awareness on new technologies and information available through global research.



Project Locations and Hydrological Units



Salient features of a typical FCS



- 30 men and women farmers will meet once in a month and discuss about the weather data and discuss about the concepts around Climate change and its impact on Agriculture and its allied sector
- 12 sessions in a hydrological year (June through May) will be organized to create awareness on climate change and its impacts on Agriculture, Livestock and human life.
- Primary learning material: Local microenvironment, local weather data collected by the farmers, and farmers' fields
- Small learning groups to maximize participation
- Experiential, participatory, and learner-centered methods
- Key activities in each session: Participatory Weather Analysis (PWA), special topic, and a group dynamics
- Several additional field studies depending on local problems

SLWM (Sustainable Land and Water Management)

- Farmers will test their ideas in the field i.e. in one or ½ acre plot and devise climate resilient agricultural practices based on the results
- During the implementation of the pilots on crops, project recommends use organic practices and application of bio-fertilizers and bio-pesticides



My Role in SPACC Project

I got an opportunity to create a visual concepts and illustrations for awareness to farmers on FCS sessions. I had a great time working over there with BIRDS team. Apart from design, i liked their methodology and project planning. I had to interact with farmers too.

Design Brief

Client wanted to develop a simple illustrative form posters that will be easily understood and also it will be appealing to the farmers, its target audience are the farmers the illustration should communicate the message that it, But it should not create any kind of disturbance in one's mind but should clearly communicate mainly to the rural mass of Andhra Pradesh.

Design Methodology & process

- Project brief from BIRDS
- Understanding the Organization
- Understanding the Project
- Study the FCS Curriculum
- Brainstorming to initiate the Design Process
- Self-Observation as user and understanding the need
- User perspective and feedback
- Analysis of FCS Curriculum to identify Problem areas and visualization
- Ideations / Rough sketches
- Interaction with the team
- Concept finalization
- Review of the concept
- Detailing/colouring of the finalized concept



Rough sketches

I worked on FCS Sessions

BIRDS-SPACC – Allagadda Filed Unit was developed IEC materials for each FCS session to make learning simple for illiterates and semi literate's of farmers.

- Reviewed existing materials
- Made suggestions and revisions
- Developed materials for 3 FCS sessions

I have developed posters and Illustrations to following sessions of Farmers Climate School lessons

- Session 3: Awareness on Climate change and variability
- Session 4: Impact of Climate change and variability on Agriculture
- Session 5: Impact of Climate change and variability on water

FCS Sessions: Posters and Illustrations

Session 3: Poster 1

Awareness on Climate change and variability

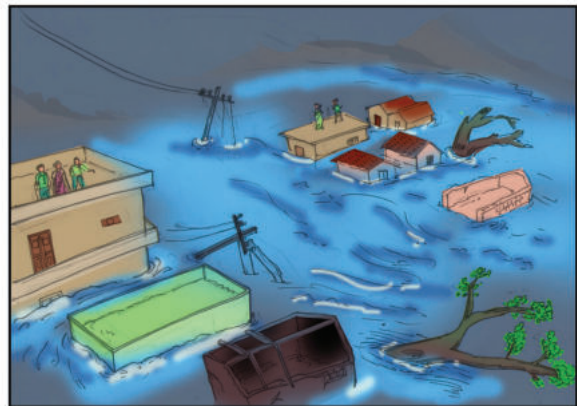
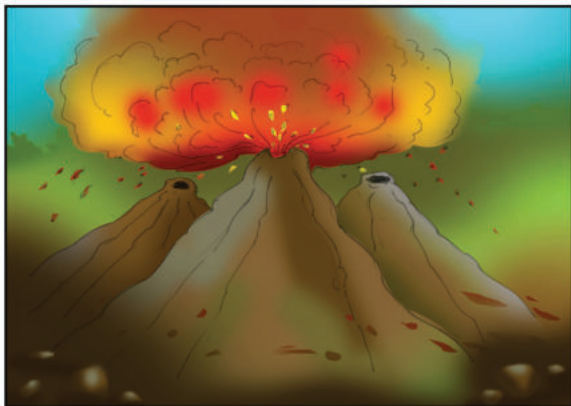
Factors causing climate change and
variability understood





మూడవ తరగతి: శీతోష్ణస్థితి మార్పు, వైవిధ్యం పై అవగాహన

శీతోష్ణస్థితి మార్పుకు గల కారణాలు: సహజసిద్ధమైనవి





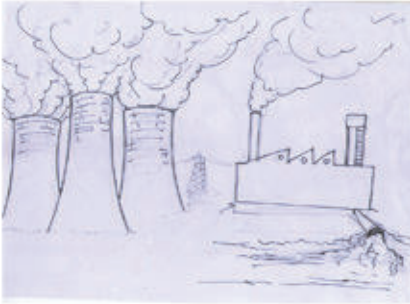
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Session 3: Poster 2

Awareness on Climate change and variability

Factors causing climate change and variability understood



ಮೂಡವ ತರಗತಿ: ಶಿಶೋಪನ್ಯಾಸಿತಿ ಮಾರ್ಪು, ವೈವಿಧ್ಯಂ ಪುಲಿ ಅವಗಾಹನ

ಶಿಶೋಪನ್ಯಾಸಿತಿ ಮಾರ್ಪುಕು ಗಲ ಕಾರಣಾಲು: ಮಾನವುನಿ ಛರ್ಯಲು



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Session 4: Poster 1

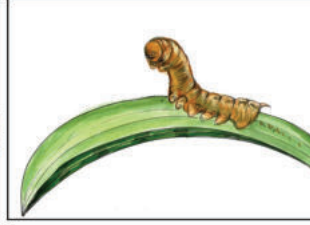
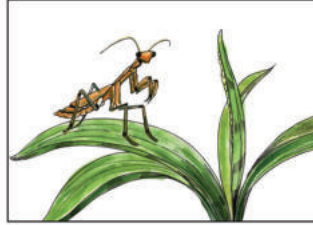
Impact of Climate change and variability on Agriculture

Impact on growing seasons, the crop production cycles in the pilot areas, Pest population, and yield understood



నాలుగవ తరగతి: శీతోష్ణస్థితి మార్పు, వైవిధ్యం వలన వ్యవసాయం పై ప్రభావం

ఉష్ణోగ్రతలలో మార్పు వలన పంటలను ఆశించే చీడ పీడలు



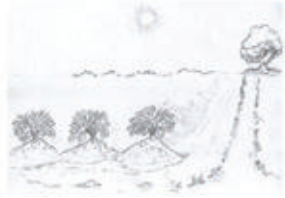
వాతావరణ బడి



Session 4: Poster 2

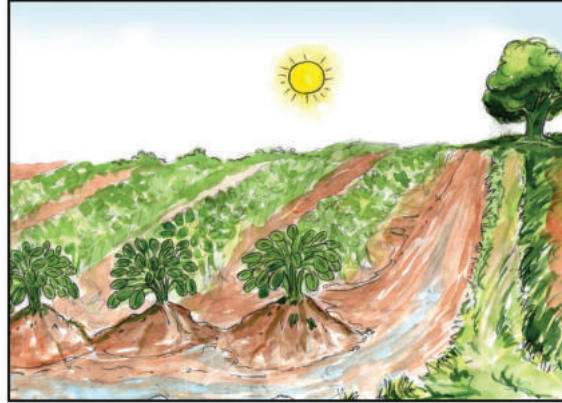
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నేల పై శీతోష్ణస్థితి మార్పు ప్రభావం



వాతావరణ బడి



Session 4: Poster 3

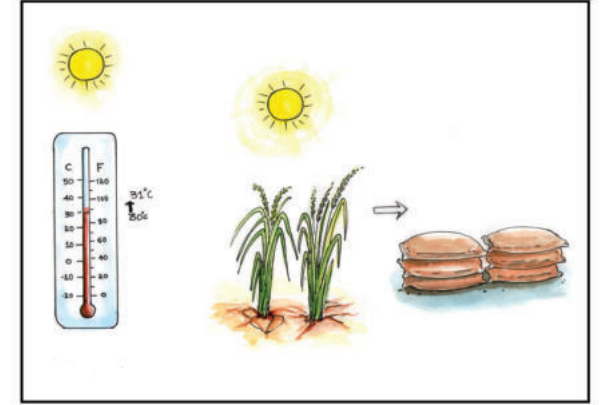
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Impact on growing seasons, the crop production cycles in the pilot areas, pest population, and yield understood



నాలుగవ తరగతి: శీతోష్ణస్థితి మార్పు, వైవిధ్యం వలన వ్యవసాయం పై ప్రభావం

గరిష్ట, కనిష్ట ఉష్ణోగ్రతల వలన పంటల పై ప్రభావం



వాతావరణ బడి



Session 5: Poster 1

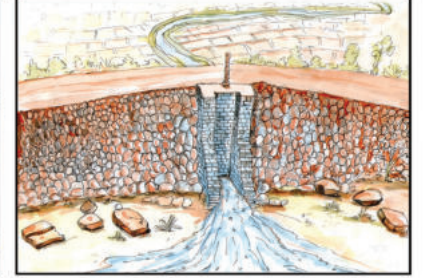
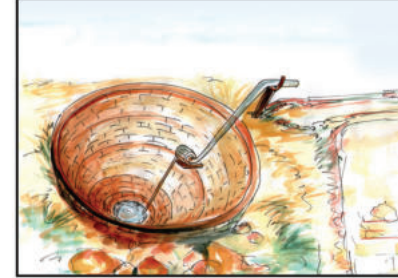
Impact of Climate change and variability on water

Impact on water resources understood



ಐದನ ತರಗತಿ: ಶಿತ್ಕೋಷ್ಠಸ್ಥಿತಿ ಮಾರ್ಪು ವೈವಿಧ್ಯಂ ವಲನ ನೆಟಿ ಪೈ ಪ್ರಭಾವಂ

ಭೂಗರ್ಭಜಲಾಲು:
ನೆಟಿ ವಿನಿಯೋಗಮು
ಮರಿಯು ಲಭ್ಯತೆ



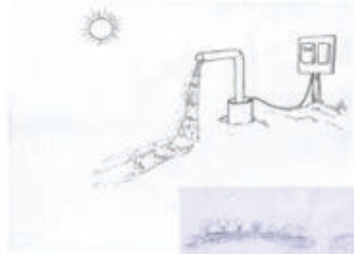
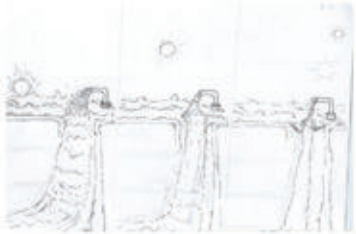
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Session 5: Poster 2

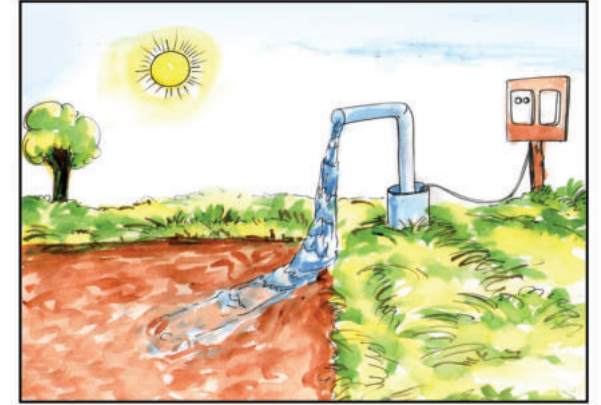
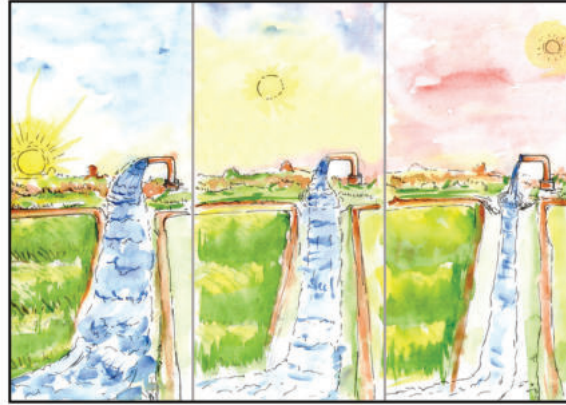
Impact of Climate change and variability on water

Impact on water resources understood



పదవ తరగతి: శీతోష్ణస్థితి మార్పు వైవిధ్యం వలన నీటి పై ప్రభావం

నీటి వినియోగము మరియు లభ్యత



వాతావరణ బడి



Learning

I got an opportunity to learn design process in NGOs and implementation of non-formal way to illiterate and semi-literate farmers. Interactions with farmers and how they are understand the visuals (Illustrations) with their knowledge level, I learned the Climate change impact on agriculture, water and Human life, how it will effect in future generations.

References

Website: <http://www.birdsorg.net/SPACC.html>
<http://www.birds-spacc.org>