

Final Report

Blue schools: Rainwater at the heart of rural communities in Nepal

Prepared by
Kanchan

Pokhara Lekhnath Metropolitan City-7, Nepal
to the International Rainwater Harvesting Alliance (IRHA)

in fulfillment of contractual obligations



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1. INTRODUCTION

The project “Blue schools: Rainwater at the heart of rural communities in Nepal” based on the assessment conducted, the needs identified. This year in 2017, the program is implemented at two schools i.e Indrayani and Bishwoshanti School from Kaski District and later at two schools. In 2013 this Blue School Program had been successfully implement in four schools from eastern part of Kaski District and one school from Lekhnath in late 2016. Under new federal system, these 2 schools Indrayani and Bishwoshanti are located in RupaGaunpalika, Kaski.



Picture 1 Blue icon in Google Map shows no. of Blue Schools in Kaski District

2. OBJECTIVES AND OUTCOMES

The **general objective** of the project is to “**Improve the living conditions and access to water supply to rural communities in Nepal**”.

The **specific objectives** are

- Improving the living and learning conditions in two schools of the Kaski Region
- Improve the technical and management capacities of communities in water resources.

The expected outcomes of this project are:

- Sustainable improved access to drinking water in the four schools;
- The adequate sanitation facilities built for the size and gender ratio of the schools' populations are correctly used and maintained;
- Improved children’s hygiene practices;
- Improved environmental conditions in the schools' surroundings due to reforestation;
- Reinforced water management and natural resource protection capacities of the local communities.
- Improved income generation of the local communities on the basis of the new knowledge on market garden.



Picture 2 Mira Pariyar, Community Motivator with Blue School Information board

3.1 PROJECT ACTIVITIES

3.2 Creation and training of Parents-Authorities-Children-Teachers (PACT) Committees.

In each school Parents, Authorities, Children and Teachers (PACT) Committee has been formed by 13 to 17 people, including members from School Management Committee (SMC), Parent Teacher Association (PTA) students and local village authorities. Women are represented in both PACT Committees.

Community mobilizer worked at each school with closed alliance with this PACT Committees.



Picture 3 PACT Committee-Indrayani



Picture 4 PACT Committee-Bishwoshanti

Members of the PACT committees received training on :

- i. sanitation -infrastructure maintenance, hygiene and health behaviors, hand washing, composting, and techniques for the safe removal of excreta from school toilets-,
- ii. management of sanitation facilities,
- iii. rainwater harvesting systems -maintenance, rainwater collection and use-, and
- iv. Peace, tolerance, gender equity and citizenship.

3.3 Construction of rainwater harvesting systems for provision of drinking quality water to the direct beneficiaries

Two 20,000 liters Rain Water Harvesting Tank (RWH) Tank has been undergoing construction in Indrayani School. Existing storage tank of 10,000 liters has been repaired. Water need for construction activities is stored over this tank through rooftop of the school. Rainwater is used for new RWH tanks. 50,000 liters rainwater can be stored in 2 RWH tank with existing RVT tank.



Picture 5 Indrayani School with 20m3 RWH tank with fencing



Picture 6 Water point feed from 20m3 RWH tank in Indrayani School



Picture 7 Another 20m3 RWH tank connected to sanitation facilities in Indrayani School



Picture 8 Improved Urinal/Toilet and New Staff toilet in Indrayani School

In 2013, when we were there, the context was far behind than now. Peon was rush to fetch water about ½ hr distance source. It was his routine to manage water supply in schools for children and teacher. He had to make such trip 3-4 times daily to provide water for drinking and sanitation facilities in 15 liter can.



Picture 9 Peon of School carrying water vessel to fetch water from distance source (2013)



Picture 10 Student drinking water direct from water vessel (2013)

3.4 Improved sanitation facilities for students and staff

New 2 box staff toilet was constructed for staff and exiting girls/boys toilets were improved with urinals. Hand washing facilities were installed in both girls and boys toilet. Ferro-cement technology is adapted to construct staff toilet and improved girls/boys toilet.



Picture 11 Staff washing hand in staff toilet (Indrayani School)



Picture 12 Girls using handwashing facilities in Indrayani School



Picture 13 Repair toilet in Indrayani school



Picture 14 Improved urinal in Indrayani school



Picture 15 Handwashing facility inside Toilet/Urinal block in Indrayani School



Picture 16 20m³ RWH Tank in Bishwoshanti School with auto flush system



Picture 17 Water points for drinking facilities in Bishwoshanti School



Picture 18 2nd 20-m³ RWH tank for sanitation facilities in Bishwoshanti School

Due to huge request from nearby School and community, one tank from Bishwoshanti was shifted to this Bharavi School.

a. Awareness raising activities with local community members

1. Informal interventions

Tele-film 'Jalpari' (Water Angel) show on Rainwater Harvesting casting by Nepal's popular comedian artist in both Indrayani and Bishwoshanti School.



Picture 19 Documentary show in Indrayani



Picture 20 Documentary show in Bishwoshanti

2. Training on capacity building.

WASH Training



Picture 21 WASH Training at Bishwoshanti School

This WASH Training had been conducted in both of the schools. Contents were based on total sanitation and fecal transmission mode. As Kaski District has been already declared as ODF (Open Defecation Free) District communities have maintained sanitation at primary level i.e. construction of toilet. As post ODF activities Total Sanitation has been promoted to increase level understanding improved sanitation in best way. Proper use of toilet, hand washing with soap, use of quality water, food safety, household and environmental sanitation were major content used to aware the participants.

Peace & Tolerance



Picture 22 Indoor session of Peace & Tolerance in Indrayani



Picture 23 Activities done during Peace and Tolerance in Indrayani

For Most of the participants "Peace and Tolerance", training contents were new, so that it was very much interesting for participants and facilitator. The participants provided their full time to the training and involved themselves in almost activities of the training. Facilitators covered most of the issues of the participants and contents of the training. To match the training contents and their concept with the level of participants many references were taken from our practices and cultures which made easy to understand the essence. The whole training period was accomplished discussing about School as 'Peace Zone', Social Justice, intolerant Behavior of Students, parents and Teachers each other. After that 'tolerance' had been discussed as the threshold of peace. How 'peace culture' can be enhanced? that was discussed. Participants were made practice on the Intolerant behavior for other group, dividing themselves in three component of school such as student, teacher and parents they self –assessed the Behavior and practices prevalent in the schools.

This event was conducted in both Indrayani and Bishwoshanti School.

3. Training on income generating activities for the local population

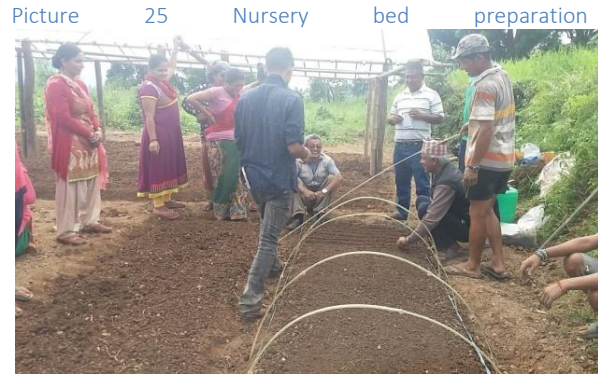
Off-Season Vegetable

Generally, community regards vegetable grown between June to November as off-season vegetables. Often vegetable grown during this period get best prices. Manual of Kitchen garden has been provided to every participant that covers most of vegetable farming so reference can be taken whenever they need. Seeds of off seasonal vegetables were also distributed during the training sessions.

Nursery



Picture 24 Handover Offseason Cultivation handbook in Indrayani



Picture 25 Nursery bed preparation



Picture 26 Seed distribution among participants



Picture 27 Covering nursery bed with plastic

- Poly-house Training There was active participation from farmer in this 2 days poly house training. Participants learnt new technique of cultivation and farming under poly house. Farming under such poly house is most effective way of cultivation especially in water stress area with tomatoes farming in poly house is popular and instant demand in local market, here PACT too recommended these tomatoes.



Picture 28 Practical session of poly house in Indrayani School



Picture 29 Tomatoes at poly house after few weeks



Picture 30 Participants during polyhouse training at Bishwoshanti



Picture 31 Poly constructed during poly house training at Bishwoshanti

- Ecological Training

Ecological sanitation is new topic for PACTs and Guardians whose major source of income is agriculture. There were significant participants from guardians from farmer occupation. Most of the participants were new to know the useful application in agriculture and vegetable farming.



Picture 32 Resource Person during indoor session of Ecological Sanitation Training



Picture 33 Practical Session in Bishwoshanti of Ecological Sanitation



Picture 34 Demonstration of Urine application



Picture 35 Group photo with urine in participant hands at Bishwoshanti

Picture 36 Glimpse of Ecological Sanitation training

4. A child a tree activities

A child a tree is popular event of Blue Schools Programme. Every child and PACT members were participated and Guardians helped children in plantation. Fencing was done to protect plants from cows & goats as there were no fencing compound before in Indrayani School. Every plant has label with respective child who planted. They look after (watering/weeding/fertilizer) the plants.



Picture 37 PACTs and Students ready for plantation at Indrayani



Picture 38 Girls helping each other during plantation



Picture 39 Demonstration during plantation



Picture 40 Students removing weeds around newly planted plant



Picture 41 Students busy in plantation



Picture 42 Local authority and Guardians take part in plantation in Indrayani



My Name is Babin_Magrati and student of class 7. I am also the one of PACT member represent student presence. I feel delighted to be part of Blue School Programme. Now we have water access in our school premises. I can water my plant regularly. It is my routine to see this plant with my name labeled. Everyday first I come here to see what's going around with my plant. My other friends also do the same. Among my friends my plants is growing better.

5. Volleyball



Picture 43 Girls and Boys playing volleyball in Indrayani School

Students share common ground to play volley. This was the first time that student got such opportunity to play in such environment. Girls and boys

6. School materials

In schools, filters are provided for safe drinking water.



Picture 44 Girls drinking water from newly install filter in Indrayani



Picture 45 Boys drinking water from newly installed filter in school

3. Evaluation

The monitoring of the project was conducted with several visits on site

- Han Heijnen (July 2017) visited the intervention sites, met with the school authorities as well as with the local authorities.



3.1 Difficulties/Challenges

- It was difficult to delivery construction materials in time as per schedule due to unexpected rainfall. Better planning should be conducted nest time.
- Due to series of Election in Nepal this year 2017, effects our program schedule and difficult to find youngster mason trainee.

4. COMMUNICATION

- The communication on the project was realized through the diffusion of various articles on the website of Kanchan Nepal (<http://www.kanchanepal.org.np/>)
- Post and articles were also communicated through the Facebook page : <https://www.facebook.com/knassociates>
- A field visit was from a photographer (Hilaneh Mahmoudi) was conducted in November 2017 to communicate on the project and look into the impact of the Blue project developed by IRHA in Nepal.
- A video will be released as soon as the translation is done.
- Some T-shirts were printed out on by IRHA to further enhance the visibility and appropriation of the project.

5. VISIBILITY

The visibility of the partners and of all the donors was insured during each workshops with all the logos and name of sponsors.



6. RECOMMENDATION

- Blue Schools Program has been implemented in 2 schools from Kaski District successfully in 2017. Activities in Blue Schools Program are much appreciated by communities and local authority. Till date this project implemented in 7 school since 2013. There are all together 420 public schools in Kaski District, most of schools suffer from proper, safe and secure water and sanitation facilities, if this Blue Schools Program extends, thousands of school children will be benefited. It has great scope and need of Blue Schools Program over Kaski and rest of district of Nepal.

- Big impact will be realized, if the Blue Schools Program goes in larger scale and it is necessary in school as most of activities covers in this program are basic right of children.

7. FINANCIAL MANAGEMENT (cf. to Annex I)

8. Annex II

TRAINING	Trainer	School	Number of persons trained			Dates of training	
			T	F	M		
2,1	Environmental protection						
2.1.1	Training on plantation and nursery	Tob Bdr. Adhikari	Indrayani	48	12	36	16th Oct, 2017
			Bishwoshanti	17	7	10	17th Sept, 2017
2.1.2	Training on waste management and composting	Shreerendra Pokharel	Indrayani	53	14	39	22nd Oct, 2017
			Bishwoshanti	38	27	11	24th Oct, 2017
2,4	Local capacities reinforcement						
2.4.1	Off Seasonal Vegetable farming	Tob Bdr. Adhikari	Indryani	36	13	23	April 1st, 2017
			Bishwoshanti	35	14	21	7th Sept, 2017
2.4.2	Training on Use of Green House/Poly house Technology	Tob Bdr. Adhikari	Indryani	34	12	22	April 2nd-3rd, 2017
			Bishwoshanti	20	11	9	
2.4.3	Training on Construction Management	GS Pun/NA	Indrayani	27	6	21	1st June, 2017
			Bishwoshanti	24	9	15	13th June, 2017
2.4.4	Training on Operation & Maintenance	GS Pun	Indrayani	60	21	39	3rd Sept, 2017
			Bishwoshanti				
2,3	Hygiene & health						
2.3.1	Training on Ecological Sanitation	Shreerendra Pokharel	Indrayani	52	15	37	23rd Oct, 2017
			Bishwoshanti	24	14	10	25th Oct, 2017
2.3.2	Training on WASH	Nirmal Adhikari	Indryani	19	14	5	9th Mar, 2017
			Bishwoshanti	25	15	10	16th Mar, 2017
2,2	Peace & tolerance						
	Training on Peace and Tolerance	Surendra Babu Tiwari	Indryani	29	17	12	19th Mar, 2017
			Bishwoshanti	22	11	11	7th May, 2017
				563	232	331	

Description	Indrayani	Bishwoshanti	Bhairavi	Total
Students and Teachers				
Female	73	322	28	423
Male	78	303	22	403
PACT Committee				
Female	6	6		12
Male	11	11		22
Orientation and Training Participation				
Female	124	108		232
Male	234	97		331
Mason Trainee				
Female				0
Male	1			1
Total female direct beneficiaries	203	436	28	667
Total male direct beneficiaries	324	411	22	757