



## Rural Water Supply and Sanitation Project in Western Nepal Phase II

# RECHARGE POND SCHEME MONITORING FORMATS

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**Scheme  
name:**

**Scheme code:**

**District:**

**VDC:**

**Ward/s:**

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Draw a map of the recharge pond/pit system, showing the catchment (feeding system), drainage, water systems, roads etc.

JULY 22, 2015

## RATIONALE

The water table depletion has become one of the major issues causing scarcity of water sources. It is expected that due to adverse effects of climate change, the source depletion may become even more serious problem for the sustainability of rural water supply schemes. Recharge ponds and other simple recharge structures such as recharge pits can be used to improve soil moisture and even mitigate the potential source depletion. It is important to take into account indigenous knowledge and utilize locally applicable technologies.

## OBJECTIVES OF THE MONITORING FORMATS

The specific objectives are:

- To provide feedback for necessary improvements in planning, construction and operation of the recharge pond schemes and ensure sustainability of the schemes
- To ensure participation of community
- To ensure quality of the construction work
- To ensure the activities and processes are carried out in a quality way

*Note: The same monitoring format is applied for recharge ponds and pits regardless of the type and source of financing. Some questions are not relevant for those recharge systems that are built without external finance – this is mentioned separately in the formats below.*

## GENERAL INFORMATION

District:

Scheme Name:

Pond/Pit/Trenches construction: New/Repair/Rehab

VDC Name:

Ward No:

Name of the place:

Scheme Code:

## MONITORING TEAM

1. DDC/D-WASH Unit representative
2. Representative from RWSSP-WN/PSU/PCO
3. VDC Representative

*Note: At least one member with engineering background in the Monitoring Team*

# RECHARGE POND SCHEME 1<sup>ST</sup>

## MONITORING FORMAT

### I MONITORING AFTER THE PREPARATORY PHASE

Documents must be on hand with the Monitoring Team:

- ✓ Feasibility Study
- ✓ Design Report and Cost Estimate
- ✓ Community Action Plan

**Monitoring Date:** .....

#### SCHEME DATA

#### Type of recharge pond/trench:

- Excavated (Lined) pond
- Excavated (Unlined) pond
- Embankment pond
- Eyelash trenches/recharge pits
- Contour trenches

Description (tick the correct option(s))					
Purpose for constructing recharge pond	Water recharge	For cattle	Irrigation of fields	Irrigation of home garden	Others (Mention)
Land use in recharge pond construction site	Bare land	Forest	Cultivation/ grazing	Within settlements	Others (Mention)
Land Type	Sand	Gravel/mixed	Soft rock	Ordinary soil (clay, silt)	Others (Mention)
Slope	Ridge Top	Middle of slope	Valley	Plain	Others (Mention)

Is the pond/trenches planned in VWASH Plan?  Yes  No

Is the pond/trenches planned in Water Safety Plan?  Yes  No

Was the location and purpose of the pond/trenches discussed in community?  Yes  No

How many households participated in the planning/design of the pond/trenches? .....

Does the construction of the pond/trenches require external funding?  Yes  No

How many households are ready to contribute kind contribution? .....

Number of beneficiary households (if the number of beneficiary HHs is different from number of HHs contributing to the construction of the pond/trenches, explain how they are counted):

Dalit	Janjati	Religious Minority	Terai Disadvantage Group	Others	Total HHs

Was there conflict among the community regarding the pond location?  Yes  No

Land ownership: Private  Community

If private land, has an agreement been made with the land owner?  Yes  No

Are the communities within the water catchment aware on the importance and purpose of the pond/trenches?  Yes  No

If no, what has been planned to aware them?

## SCHEME DESIGN

**Size and number** (depending on type):

**Rectangular pond:** Length:.....m. Width ..... m. Depth: ..... m. Total volume:..... m<sup>3</sup>

Number:.....

**Circle pond:** Diameter:.....m. Depth:.....m. Total volume:..... m<sup>3</sup> Number:.....

**Contour trenches:** Total length:.....m.

**Eyelash trenches:** Number:.....

Water catchment coverage: approximate area in Km<sup>2</sup>.....

Does the plan pay attention to protection of the catchment area (i.e. if the pond is located away from the village; e.g. slope stabilization, plantation etc.)  Yes  No

**The following are relevant for ponds financed with external support only:**

Has the detailed design/drawing and estimate been prepared  Yes  No

Has the design ensured to have proper feeding system (runoff or rainfall) to the pond?  
 Yes  No

Is there provision of safe disposal of overflow/free board in design report?  Yes  No

Does the design include steps or ramp for animals and people to enter and exit the pond (as a basic safety measure to prevent anyone from drowning)?  Yes  No

Does the design include fencing with hedge plants or other fencing? (wall or barbed wire fencing should be avoided).  Yes  No

Does the design include slope stabilizing/prevention of erosion (e.g. by use of simple bioengineering)  Yes  No

**For all scheme types:**

Is the type and design of the pond/trenches appropriate for the proposed location and intended use/purpose?  Yes  No

If not, suggest

Is there any risk of landslides in the area of the pond/trenches?  Yes  No

If yes, what protection measure is proposed?

What is the discharge of the particular water source(s): .....lps. Month when recorded:.....

Is the recharge pond/trenches located at a proper level, so that it can recharge the water source of a water supply scheme? (This is important if the main purpose is water recharge of a given source. For multipurpose ponds this is not relevant)  Yes  No

**USERS' COMMITTEE**

Is the scheme combined with a Water Supply Scheme, or a separate scheme?

Combined  Separate

If Combined, will the same WUSC lead the construction of the pond/trenches?  Yes  No

If the scheme is separate, or the same WUSC will not be responsible for the pond/trenches, describe the arrangements made:

Total number of UC members:....., Female:..... Male:.....

Does the UC composition represent all beneficiary groups?  Yes  No

**The following are relevant for ponds financed with external support only:**

If this is a separate scheme, is the UC trained/oriented on following:

- UC orientation (role, project working modality)  Yes  No
- Financial management/book keeping training  Yes  No
- Procurement & store management  Yes  No
- Operation & maintenance  Yes  No

**FINANCIALS**

**The following are relevant for ponds financed with external support only:**

Total Cost: NPR.....

Cost Contribution Estimated:

GON	GOF	DDC/VDC	Community		Others
			Cash	Kind	

If the scheme is separate from a DWSS, has the construction committee opened the bank account?  Yes  No

First Public Auditing conducted  Yes  No

**RECOMMENDATIONS AND FEEDBACK**

Regarding scheme type, location, size, number, design:

Regarding works on slope stabilization, prevention of erosion, catchment protection, plantation other land use management:

Regarding WUSC and Financials

Other recommendations:

**MONITORING TEAM:**

S.N	Name	Position/ Organization	Signature





# RECHARGE POND SCHEME

## 2<sup>ND</sup> MONITORING FORMAT

### II MONITORING AFTER COMPLETION OF IMPLEMENTATION

Documents must be on hand with the Monitoring Team:

- ✓ Feasibility Study
- ✓ Design Report and Cost Estimate
- ✓ Implementation Agreement
- ✓ Community Action Plan
- ✓ Scheme Completion Report (MB)

Monitoring Date: .....

#### COMPLETION OF WORKS

Agreement date: .....

Completion date: .....

Is pond/trenches constructed as per design and estimate  Yes  No

If no, what are the major deviations?

Have other catchment management works (slope stabilization, erosion prevention, plantation etc.) been completed as planned.  Yes  No

If no, what are the major deviations/what remains to be completed?

Are there adequate safety measures to prevent any accidents in the pond (ramp or stairs so that animals and people can climb out of the pond, fencing with hedge plants)  Yes  No

If no, how can the safety of the pond be improved?

Is the construction of the pond/trenches completed?  Yes  No



Regarding operation and maintenance of pond/trenches and related land management works:

Final installment of Implementation phase can be made to UC  Yes  No

If no, recommended action:

### MONITORING TEAM

S.N	Name	Position	Organization	Signature

### UC MEMBERS ATTENDED DURING MONITORING

S.N	Name	Position	Signature

**Recharge Pond Scheme Monitoring Formats**  
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