PPI Project: 1st Quarterly Progress Report

(Mar - May'2025)

"Bio Sand Filters for Safe Drinking Water in remote Villages of Solan District (Himachal Pradesh)"

Submitted to:

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A. Brief Introduction: PPI project (Solan-HP)

Since last 30 years, SATHI is dedicatedly working to address drinking water woes of backward mountain community through various innovative, cost effective & sustainable technical solutions. With support of PPI, SATHI has previously implemented bio-sand filter programme in remote pockets of Pachhad & Nahan block (Sirmour district of HP) & Morni block (Panchkula district of Haryana) ; and provided safe water to 520 needy families in 40 project villages. As a part & extension of SATHI's bio-sand filter intervention, SATHI organizationis looking forward to disseminate the bio-filter technology in water quality affected villages of Solan district (HP). Thus, on need-based assessment, the activities of ongoing PPI project are being implemented by SATHI in 15 water quality affected mountain villages of Solan district of HP.

From March '25 onwards, SATHI has started implementation of PPI project activities in Solan district. Total duration of project is 03 years (March 2025-Feb'2028). Detail of activities carried out by SATHI during 1st quarter (March-May'25) of 1st year of project implementation is as below.

B. PPI project Activities: March-May 2025

As mentioned earlier, total duration of ongoing PPI project is 03 years (Mar'25-Feb'28) .During 1st year of project, SATHI has proposed to execute following major activities: -**(i) Community mobilization & Capacity building trainings (ii) Collection of CASH contribution (iii) Development & Installation of 50 Nos. Bio-sand filters in 05 villages, (iii) User education & Follow-Up visit.** The activities which were accomplished by SATHI during **1st quarter i.e. March-May'25 (1st year of project)** of PPI project are elaborated as under:-

i. **Awareness Creation Meetings: Under** PPI project, first major activity is community sensitization on proposed intervention of bio sand filters at remote villages of Solan, Himachal Pradesh. During March'-April 25 month, SATHI team organized village level awareness creation meetings in 03 villages i.e. **Oder, Meuhian & Bhoj Nager** of Solan (HP). The major objective of organizing village level awareness meetings was to educate the local community about PPI project activities. During village level meeting SATHI field staff educated the villagers

about innovative & affordable technology of water purification i.e. Bio-Sand Water filters; it's effeffectiveness in eliminating biological & physical

Photograph: Awareness creation meetings with local community at Oder and Bhoj Nagar village, Solan (HP)

contamination from water, low operation & maintenance cost and PPI BSF project beneficiaries selection criteria, 20 % cash contribution towards cost of filter construction & Installation, distribution of educational material; and regular follow up visit of villages etc. To practically train community about bio-sand filter technology, SATHI developed a plastic prototype of filter. Through use of filter prototype , village community was educated about various parts of Bio-sand Filter i.e. Diffuser Plate, Bio-layer, Filtration Sand, Separation Gravel, Drainage Gravel, Lid, Outlet Tube and Safe water storage etc. Project beneficiaries were also informed /instructed in details about development, installation and operation & maintenances of filters.

Tab: - Details of organizing Awareness creation meetings during March-Apr'25

Particular	Venue/Village	Date	Name of Panchayat	No. of Participants
Awareness cum Training camp	Oder	16-03-25	Neri Kalan	21
	Meuhian	24-03-25	Neri Kalan	14
	BhojNager	10-04-25	Bhoj Nager	18

ii. Beneficiaries selection & collection of 20 % Cash contribution

Under the ongoing PPI project, SATHI has proposed to develop & distribute 50 Bio Sand Water Filters during 1st year (Mar'25-Feb'26), which will directly benefits 350-360 population in 05 villages. During March-Apr'25, SATHI team with consultation of local SHG & PRI selected 1st year beneficiaries of PPI project. After final selection, respective PPI project beneficiaries started collection of 20 % cash contribution towards development & installation of filters. Till end of May'25, following beneficiaries have deposited their cash contribution to SATHI.

Table: PPI project beneficiaries & collection of cash contribution (during Mar-May'25)

SI	Name	Village	Amount (Rs.)	Receipt No.	Date
1	Meera Devi	Oder	900-00	759	08-04-25
2	Sunita Devi	Oder	900-00	760	08-04-25
3	Rama Devi	Oder	900-00	761	08-04-25
4	Phoolwanti	Oder	900-00	762	08-04-25
5	Poonam Devi	Oder	900-00	763	08-04-25
6	Raksha Devi	Oder	900-00	764	08-04-25
7	Meena Devi	Oder	900-00	765	08-04-25
8	Nikki Devi	Oder	900-00	766	08-04-25
9	Gomati Devi	Oder	900-00	767	08-04-25
10	Roshani Devi	Oder	900-00	768	08-04-25
11	Nima Devi	Sanog	900-00	769	08-04-25
12	Bachani Devi	Sanog	900-00	770	08-04-25
13	Jaimanti Devi	Sanog	900-00	771	08-04-25
14	Rekha Devi	Sanog	900-00	772	08-04-25

iii. Bio-Sand Filter Development , Testing, Transportation & Installation :

After preparing final beneficiary list & receiving of 20% contribution, next important activity under PPI project was concrete filter construction, testing & installation. Due to quality concern issues, SATHI decided to construct concrete filters at its Thakurdwara campus. SATHI firstly procured the raw material i.e.

Sand, grit, cement etc & made other necessary arrangements at its filter construction site. During filter making process, SATHI assures quality work especially during molding, filling with concrete mixture & de-molding process. After construction, filters were kept under curing & water leakage testing for 5-7 days. Once getting satisfied with all requisite parameters, SATHI team made proper finishing in filter through wall putty, two coats of paints, sticking of stickers indicating name of funding agency & implementing organization.

Thereafter, concrete filters were transported to project village & installed (filled with filter media, fixing diffuser plate, lid, water testing etc) by SATHI at respective beneficiaries households. During Q1 (Mar-May '24), SATHI distributed total 14 concrete filter to beneficiaries. Detail is as follows:-

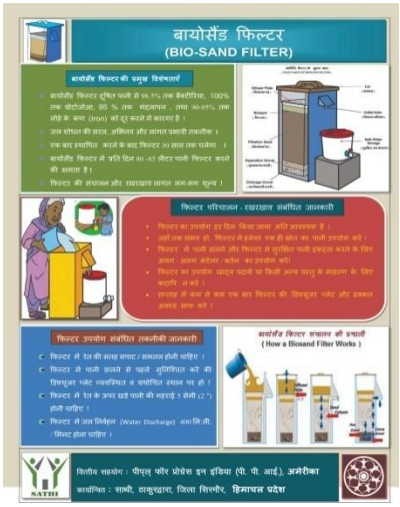
Table: Distribution of filter during Mar - May'25 (1st year)

Filter No.	Name of Beneficiary	Name of Village	Name of Gram Panchayat	District
1	Meera Devi	Oder	Neri Kalan	Solan
2	Sunita Devi	Oder	Neri Kalan	Solan
3	Rama Devi	Oder	Neri Kalan	Solan
4	Phoolwanti	Oder	Neri Kalan	Solan
5	Poonam Devi	Oder	Neri Kalan	Solan
6	Raksha Devi	Oder	Neri Kalan	Solan
7	Meena Devi	Oder	Neri Kalan	Solan
8	Nikki Devi	Oder	Neri Kalan	Solan
9	Gomati Devi	Oder	Neri Kalan	Solan
10	Roshani Devi	Oder	Neri Kalan	Solan
11	Nima Devi	Sanog	Neri Kalan	Solan
12	Bachani Devi	Sanog	Neri Kalan	Solan
13	Jaimanti Devi	Sanog	Neri Kalan	Solan
14	Rekha Devi	Sanog	Neri Kalan	Solan

Photographs: PPI project (Solan)-1st year beneficiaries families with bio-sand water filter installation

V. User education &distribution of IEC Material

In addition to bio-sand filter installation, SATHI educated the beneficiary community about filter uses and O&M (Operation and Maintenance). To achieve this objective, SATHI firstly developed educational material such as brochure, wall poster & stickers. Brief details of bio-sand filter, technical specifications, and its uses etc are highlighted in brochure and wall poster. In addition, name of funding agency, implementing organization, technical assistance contact etc are clearly mentioned through stickers placed on outer wall of installed filter. During Q1 (March-May'25), SATHI distributed filter educational material to 14 target families.



C. Concluding remark

As mentioned earlier, the ongoing PPI project is a part & extension of SATHI's previous project on bio-sand filter intervention. After successful implementation of the previous program in Pachhad & Nahan block (Sirmour district of HP) & Morni block (Panchkula district of Haryana), SATHI is now looking forward to disseminate the bio-filter technology in water quality affected village of Solan district (HP). During 1st year (March'25-Feb'26) of PPI project implementation, SATHI proposed to develop & distribute total 50 Nos. Bio-sand Filters in 05 villages of Solan district (HP). During Q1 (March –May'25) SATHI initiated community sensitization, capacity building & CC collection activity. Besides, SATHI developed and installed 14 nos. bio-sand filters in target villages. Filter beneficiaries are also educated and trained on filter uses and O&M. If some technical problems regarding filter use persist, it is rectified by SATHI team. During Q2 (June-Aug'25), SATHI will also conduct follow –up visit with user.

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