

**PPI Project: Quarterly Progress Report
(Mar - May'2022)**

“Improving water quality and community health through Bio- Sand Filter Interventions in remote villages of Nahan block, district Sirmour (HP) ”

Submitted to:

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

Since last 27 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 block (Sirmour distt. HP) & Morni block (Panchkula distt. Haryana) ; and provided safe water to 340 needy families in 25 project villages. As a part & extension of SATHI's bio-sand filter intervention, SATHI organization is looking forward to disseminate the bio-filter technology in water quality affected village of Nahan block of Sirmour district (HP). Thus, on need-based assessment, the activities of ongoing PPI project are being implemented by SATHI in 20 water quality affected mountain villages of Nahan development block of Sirmour district of HP.

From March '22 onwards, SATHI has started implementation of PPI project activities in Nahan (HP) state. Total duration of project is 03 years (March 2022- Feb'25). Detail of activities carried out by SATHI during 1st quarter (March-May'22) of 1st year of project implementation is as described in next chapter.

B. PPI project Activities: March-May 2022

As mentioned earlier, total duration of ongoing PPI project is 03 years (Mar'22-Feb'25) . 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 55 Nos. Bio-sand Filters in 06 villages, (iii) User education & Follow-Up visit.** The activities which were accomplished by SATHI during 1st quarter i.e. **March-May'22 (1st year of project)** of PPI project are elaborated as under:-

i. Village Level Meetings

Under PPI project, first major activity is community sensitization on proposed intervention of bio sand filters at remote villages of Nahan, Himachal Pradesh. During March'22 month, SATHI team organized village level meetings in 06 villages i.e. **Dirath, Shathali, Jangla Bhud, Koulawala Bhud, Balshar & Rahoaur** of Nahan Block (Sirmour-HP). The major objective of organizing village level 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 effectiveness in eliminating biological & physical contamination from water, low operation & maintenance cost etc, PPI's support for BSF project, beneficiaries selection criteria, 20 % cash contribution towards cost of filter construction & Installation, distribution of educational material; and regular follow up visit of village etc.

ii. Awareness cum Training camp

After the organizing of village level meetings, SATHI team conducted “Awareness cum training camps” in 06 project villages. Key objective of the same was to educate & train local community about affordable water purification technology (Bio Sand Water Filters).

Table: Details of organizing Awareness cum Training Camps

Particular	Venue/Village	Date	No. of Participants	
			Community	SATHI staff
Organization of Awareness cum Training camp	Kaulanwala Bhud	03.03.2022	31	3
	Jangla Bhud (ward-1)	05.03.2022	14	3
	Balshar	24.03.2022	12	2
	Jangla Bhud (ward-2)	28.03.2022	14	2
	Dirath-Sathali	10-04-2022	17	2
	Rahouar	26-04-2022	13	2

To sensitize & 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.



iii. Beneficiaries selection & collection of 20 % Cash contribution

Under the ongoing PPI project, SATHI has proposed to develop & distribute 55 Bio Sand Water Filters during 1st year (Mar'22-Feb'23), which will directly benefits 335-350 population in 06 villages. During March-Apr'22, 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'22, following beneficiaries have deposited their cash contribution to SATHI.

Table: PPI project beneficiaries & collection of cash contribution (during Mar-May'22)

SI	Name	Name of Village/Sub Hamlet	Amount (Rs.)	Receipt No.	Date
1	Babu Ram	Dirath	800	579	12-04-22

2	Kaushik Sharma	Dirath	800	580	12-04-22
3	Om Prakash	Dirath	800	581	12-04-22
4	Leela Devi	Dirath	800	582	12-04-22
5	Rakesh Sharma	Dirath	800	583	12-04-22
6	Ganesh Dutt	Dirath	800	584	12-04-22
7	Sneh Lata	Dirath	800	585	12-04-22
8	Satya Devi	Dirath	800	586	12-04-22
9	Ramesh Sharma	Dirath	800	587	12-04-22
10	Guru Dutt	Dirath	800	588	12-04-22
11	Desh Raj	Dirath	800	589	12-04-22
12	Satya Ram	Dirath	800	590	12-04-22
13	Deep Ram	Dirath	800	591	12-04-22
14	Kusum Lata	Shathali	800	592	12-04-22
15	Raksha Devi	Shathali	800	593	12-04-22
16	Chitra Kiran	Shathali	800	594	12-04-22
17	Manu Devi	Shathali	800	595	12-04-22

iv. Development & Distribution of Filters

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.

Table: Distribution of filter during Mar - May'22

SI	Name of Beneficiary	Name of Village	Name of Gram Panchayat	Block, District
1	Babu Ram	Dirath	Chakli	Nahan,Sirmaur (HP)
2	Kaushik Sharma	Dirath	Chakli	Nahan,Sirmaur (HP)
3	Om Prakash	Dirath	Chakli	Nahan,Sirmaur (HP)
4	Leela Devi	Dirath	Chakli	Nahan,Sirmaur (HP)
5	Rakesh Sharma	Dirath	Chakli	Nahan,Sirmaur (HP)
6	Ganesh Dutt	Dirath	Chakli	Nahan,Sirmaur (HP)

7	Sneh Lata	Dirath	Chakli	Nahan,Sirmaur (HP)
8	Satya Devi	Dirath	Chakli	Nahan,Sirmaur (HP)
9	Ramesh Sharma	Dirath	Chakli	Nahan,Sirmaur (HP)
10	Guru Dutt	Dirath	Chakli	Nahan,Sirmaur (HP)
11	Desh Raj	Dirath	Chakli	Nahan,Sirmaur (HP)
12	Satya Ram	Dirath	Chakli	Nahan,Sirmaur (HP)
13	Deep Ram	Dirath	Chakli	Nahan,Sirmaur (HP)
14	Kusum Lata	Shathali	Chakli	Nahan,Sirmaur (HP)
15	Raksha Devi	Shathali	Chakli	Nahan,Sirmaur (HP)
16	Chitra Kiran	Shathali	Chakli	Nahan,Sirmaur (HP)
17	Manu Devi	Shathali	Chakli	Nahan,Sirmaur (HP)



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'22), SATHI distributed filter educational material to 17 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 programme in Pachhad block (Sirmour distt. HP) & Morni block (Panchkula distt. Haryana) , SATHI is now looking forward to disseminate the bio-filter technology in water quality affected village of Nahan block of Sirmour district (HP). During 1st year (March'22-Feb'23) of PPI project implementation, SATHI proposed to develop & distribute total 55 Nos. Bio-sand Filters in 06 villages of Nahan block, distt. Sirmour (HP). During Q1 (March –May'22) SATHI initiated community sensitization, capacity building & CC collection activity. Besides, SATHI developed and installed 17 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 (Jun-Aug'22), SATHI will also conduct follow –up visit with user.
