

**PPI Project: 4<sup>th</sup> Quarter Progress (December 22 – January 23)  
Cum  
1<sup>st</sup> Year Project Completion Report (February 22-January 23)**

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

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**Submitted to:**

**People for Progress in India (PPI)  
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**Submitted By:**

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### **A. PPI project : Brief summary of activities implemented till 3<sup>rd</sup> quarter ( Feb-Nov'22) of 1<sup>st</sup> year**

With financial assistance of PPI, SATHI is implementing bio-sand water filter programme in Nahan block of Sirmour district of HP (India). From Feb'22 onwards, SATHI started implementation of PPI project activities. Total duration of project is 03 years (Feb'22-Jan'25). Brief summary of activities implemented by SATHI till 3<sup>rd</sup> quarter (Feb'22- Nov'22) of 1<sup>st</sup> year of PPI project is elaborate as follows:-

- **Village level meetings:**

First major activity of PPI project was community mobilization & sensitization. During Feb -Apr'22 month, SATHI organized village meetings in 1<sup>st</sup> year project villages **Dirath, Shathali, Jangla Bhud, Koulanwala Bhud, Balshar & Rahoaur** of Nahan Block (Sirmour-HP). During meeting SATHI educated the community about Bio-sand filters technology, removal of biological - physical contamination from water through BSF, low operation & maintenance cost etc, beneficiaries selection criteria, 20 % cash contribution, educational material; and regular follow up visit of village etc.

- **Awareness cum Training camp**

After village meetings, SATHI conducted “Awareness cum training camps” in 05 project villages of 1<sup>st</sup> Year. Key objective of the same was to educate & practically train project community about Bio-sand filter technology. SATHI developed a plastic prototype of filter & through project community was educated on Bio-sand Filter parts, (Diffuser Plate, Filtration Sand, Separation - Drainage Gravel, Lid, Outlet Tube etc ) . Project beneficiaries were also informed /instructed in details about development, installation and operation & maintenances of filters.

- **Beneficiaries selection & Collection of 20% cash contribution**

Under PPI project, SATHI proposed to develop 55 Bio Sand Water Filters during 1<sup>st</sup> year (Feb'22-Jan'23). During Apr-May'22, SATHI team with consultation of local SHG & PRI finalized 1<sup>st</sup> 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 3<sup>rd</sup> quarter all 55 beneficiaries deposited their cash contribution to SATHI.

- **Filter development & installation**

After final selection of beneficiaries & collection of 20 % cash contribution, SATHI initiated construction process of concrete filter. Due to lack of transportation facilities in project villages, SATHI initiated filter construction at Thakurdwara campus. After construction and testing, filters were transported to project village & installed by SATHI at respective beneficiary's households. Till

end of 3<sup>rd</sup> quarter, SATHI distributed total 55 Nos. filters to beneficiaries in 05 project villages (17 no. - 1<sup>st</sup> quarter, 33 no. - 2<sup>nd</sup> quarter & 5 no. - 3<sup>rd</sup> quarter).

- **IEC Material distribution & User information**

After filter installation, SATHI distributed education material (wall poster, stickers) to 55 filter beneficiaries of 1<sup>st</sup> year. In addition to this Beneficiaries are also trained on operation & maintenance of filters. In context of IEC material, details regarding bio-sand filter, its effectiveness, precautions for use of filters, technical aspects of filters etc are highlighted in wall poster. In addition, name of funding agency, implementing agency, filter number, year, technical assistance & contact etc are clearly mentioned on stickers & stick on outer wall of installed filter.

- **Follow up visits**

In addition to filter installation & user education, SATHI team is also carrying out regular follow with beneficiary families. Till end of 3<sup>rd</sup> quarter, SATHI conducted two follow up visits. On dated **23<sup>rd</sup> - 24<sup>th</sup> June 2022**, SATHI team carried out 1<sup>st</sup> follow up visit of 17 nos. beneficiaries of 1<sup>st</sup> quarter. Likewise, from dated **18<sup>th</sup> -20<sup>th</sup> Sept 2022** SATHI team carried out 2<sup>nd</sup> follow up visit to 50 nos. beneficiaries of 1<sup>st</sup> & 2<sup>nd</sup> quarter.

## **B. PPI project : Activities implemented during 4<sup>th</sup> quarter ( Dec'22-Jan'23 ) of 1<sup>st</sup> year**

During 4<sup>th</sup> quarter (Dec'22-Jan'23) of 1<sup>st</sup> year of PPI project, following activities were accomplished by SATHI:-

### **(i) Village level meetings :**

During 4<sup>th</sup> quarter (Dec'22-Jan'23), SATHI team conducted village level meetings in all 1<sup>st</sup> year villages of PPI project at Nahan. Key objective of the same was to encourage the project community for regular use of filters. Community has been informed that during lean period (May-June) most families fetch water from far distant open –contaminated water sources. With the help of bio-sand filter, they can 100 % purify fetched water and thus minimize risk of water borne illness. During village meetings, community is also encouraged to maintain personal hygiene & sanitation.

### **(ii) PPI -review visit**

On dated 26<sup>Th</sup> Sept 2022, PPI (USA) team member Sh. Dalip Kumar visited India and conducted field review of SATHI-PPI project village Rahoare at Nahan. During visit, PPI team member physically reviewed the filter uses status, conducted meeting with PPI beneficiaries and also discuss with them the impact of PPI bio-sand filter programme. PPI member was very satisfied with SATHI's interventions under PPI supported BSF programme at Nahan (HP).

**(iii) Follow-up visit**

During Mid of December month (18<sup>th</sup>-20<sup>th</sup> Dec'2022), SATHI team carried out follow up visit to all 55 beneficiaries of 1<sup>st</sup> year of PPI project. Overall, it was 3<sup>rd</sup> follow up visit during 1<sup>st</sup> year of PPI project implementation. Data of follow up visit tabulated in Multi Follow-Up Visit Monitoring Form, which is as follows:-

**Bio-sand Filter**  
**Multi Follow - Up Visit Monitoring Form**

**Date of Follow-Up: 18<sup>th</sup> -20<sup>th</sup> Sept 2022**

✓ If acceptable  
✗ If unacceptable

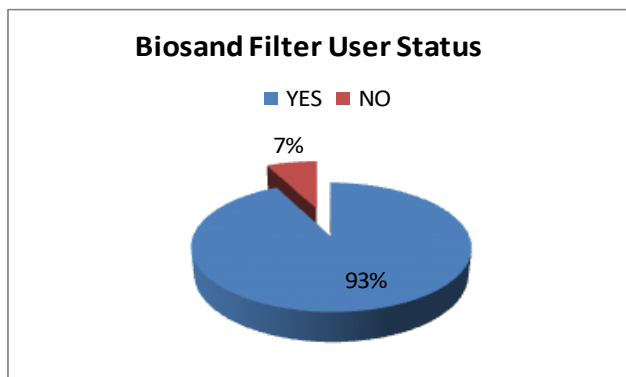
Filter Number	HH/Beneficiary Name	Flow rate (ml/min)	Flow Rate less than 400 ml/min	Diffuser OK	Surface of sand is flat & level	Standing water depth 4 to 6 cm	Water poured into filter is not too dirty	Filter used every day	Filter & outlet spout clean	Safe storage
1	Babu Ram	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
2	Kaushik Sharma	410 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
3	Om Prakash	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
4	Leela Devi	410 ml/m	✓	✓	✗	✓	✓	✓	✓	✓
5	Rakesh Sharma	405 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
6	Ganesh Dutt	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
7	Sneh Lata	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
8	Satya Devi	410 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
9	Ramesh Sharma	390 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
10	Guru Dutt	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
11	Desh Raj	410 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
12	Satya Ram	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
13	Deep Ram	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
14	Kusum Lata	405 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
15	Raksha Devi	320 ml/m	✗	✓	✓	✗	✓	✗	✓	✗
16	Chitra Kiran	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
17	Manu Devi	395 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
18	Sarita Bhagat	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓

19	Baby Devi	405 ml/m	√	√	√	√	√	√	√	√
20	Rajani Devi	410 ml/m	√	√	√	√	√	√	√	√
21	Mohan Singh	400 ml/m	√	√	X	√	√	√	√	√
22	Om Prakash	400 ml/m	√	√	√	√	√	√	√	√
23	Leela Devi	410 ml/m	√	√	√	√	√	√	√	√
24	Malati Bhagat	400 ml/m	√	√	√	√	√	√	√	√
25	Chanda Bhagat	400 ml/m	√	√	√	√	√	√	√	√
26	Rajesh Kumar	410 ml/m	√	√	√	√	√	√	√	√
27	Rajbir Singh	400 ml/m	√	√	√	√	√	√	√	√
28	Anil Thakur	400 ml/m	√	√	√	√	√	√	√	√
29	Kanwar Pal	410 ml/m	√	√	√	√	√	√	√	√
30	Kuldeep	400 ml/m	√	√	√	√	√	√	√	√
31	Rangi Pal	310 ml/m	X	√	√	X	√	X	√	X
32	Joginder Singh	410 ml/m	√	√	√	√	√	√	√	√
33	Chetan	400 ml/m	√	√	√	√	√	√	√	√
34	Rameshwar	410 ml/m	√	√	√	√	√	√	√	√
35	GP K.W. Bhud	330 ml/m	X	√	√	X	√	X	√	X
36	Anil Kumar	405 ml/m	√	√	√	√	√	√	√	√
37	Neelam Devi	400 ml/m	√	√	√	√	√	√	√	√
38	Madan Singh	410 ml/m	√	√	√	√	√	√	√	√
39	Jalam Singh	400 ml/m	√	√	√	√	√	√	√	√
40	Hira Singh	410 ml/m	√	√	√	√	√	√	√	√
41	Pitamber	400 ml/m	√	√	√	√	√	√	√	√
42	Naveen	405 ml/m	√	√	√	√	√	√	√	√
43	Dhanvir Singh-1	340 ml/m	X	√	√	X	√	X	√	X
44	Ragubir Singh	400 ml/m	√	√	√	√	√	√	√	√
45	Shyam Singh	400 ml/m	√	√	√	√	√	√	√	√
46	Gopal Singh	415 ml/m	√	√	X	√	√	√	√	√
47	Har nam singh	400 ml/m	√	√	√	√	√	√	√	√
48	Jaipal Singh	400 ml/m	√	√	√	√	√	√	√	√
49	Dhanvir Singh -2	410 ml/m	√	√	√	√	√	√	√	√
50	Suresh Kumar	410 ml/m	√	√	√	√	√	√	√	√
51	Suresh Sharma	405 ml/m	√	√	√	√	√	√	√	√
52	Virender Sharma	400 ml/m	√	√	√	√	√	√	√	√
53	Deshraj	390 ml/m	√	√	√	√	√	√	√	√
54	Yeshpal	400 ml/m	√	√	√	√	√	√	√	√
55	Kavyam Bhardwaj	410 ml/m	√	√	√	√	√	√	√	√
<b>TOTAL √</b>			<b>51</b>	<b>55</b>	<b>52</b>	<b>51</b>	<b>55</b>	<b>51</b>	<b>55</b>	<b>51</b>
<b>TOTAL X</b>			<b>4</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>

Technician: Mr. Mohit Sharma  
 Supervisor: Mr. Desh Raj

**As analyzed from user follow-up data, out of 55 families (which were covered under follow up visit), 51 families are using filter regularly. All these 51 families are very satisfied with quality & taste of water & majority of them are using filtered water for drinking as well as for cooking purposes. Some families have also reported about reduction in water borne illness & general health improvement after regular use of bio-sand filter water.**

**During follow up visits, it was found that 04 families/ beneficiaries were not using the filter. SATHI team informed these 04 families about health benefit of safe water & motivated them to use filter regularly. In addition to user follow-up, SATHI technical team also reviewed physical status of each concrete filter and found minor technical issues (lower flow rate of water, sand level not flat etc) in 3-4 filters. These minor issues were rectified by SATHI team at spot. Over all, about 92-93 % families are using filter regularly.**



**C. Concluding remark**

Ongoing PPI project (Nahan) is a part & extension of SATHI’s previous project on bio-sand filter interventions. Major objective of ongoing PPI project is to improve water quality and community health through BSF interventions in remote pockets of Nahan block of district Sirmour (HP). Total duration of project is 03 years. During 1<sup>st</sup> Year of project ( Feb’22- Jan’23), SATHI firstly conducted community mobilization activities & thereafter developed & installed 55 no. concrete bio-sand filters in 05 villages of Nahan Block. All beneficiaries & their family members have been trained by SATHI in filter use, operation & maintenance. Organization has also distributed the educational material on filter use & maintenance to beneficiary community.

To analysis the effectiveness of PPI program, SATHI also conducted regular follow up with user. During 1<sup>st</sup> year of project SATHI conducted total 03 follow up visits of project villages. On the basis of user follow up data, about 92-93 % (51 out of 55) of PPI beneficiaries are using filter regularly. Remaining families are also educated & motivated to use filter regularly. After PPI interventions, target community is able to access safe drinking water at their doorstep. During upcoming year (2nd year of project), SATHI will cover other water quality affected villages of Nahan block of Sirmour (HP) under bio-sand filter programme.