

PPI Project: 3rd Year
2nd Quarter progress Report (Dec'20 – Feb'21)

“Addressing drinking water quality & health issues through sustainable bio-filter technology in rural villages of Morni hills area, Panchkula (Haryana)”

Submitted to:

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INDEX

Sl.	Particulars	Page
A	Detail of PPI project activities implemented during 2nd quarter (Dec'20 – Feb'21) of 3rd Year <ul style="list-style-type: none">• Beneficiaries selection & collection of 20 % cash contribution• Bio-sand filter development , testing, transportation & installation• User education & distribution of IEC material• Follow-up visits	3-6
B	Concluding Remark	6-7

A. Details of activities implemented during 2nd quarter (Dec' 20- Feb'21) of 3rd Year

i. Beneficiaries selection & collection of 20 % Cash contribution

During 3rd year of PPI project implementation, SATHI has proposed to develop & distribute total 65 Bio Sand Water Filters. Till end of 1st quarter (3rd year) , SATHI installed 21 filters in PPI project villages. During 2nd quarter, remaining PPI beneficiaries started collection of 20 % cash contribution towards development & installation of filters. Till end of Feb '21, following beneficiaries have deposited their cash contribution to SATHI.

Table: PPI project beneficiaries & collection of cash contribution (during Dec'20 - Feb'21)

SI	Name	Name of Village/Sub Hamlet	Amount (Rs.)	Receipt No.	Date
22	Vimla Devi	Badyal Garvon	600	397	05-12-2020
23	Manju Devi	Badyal Garvon	600	398	05-12-2020
24	Tara Devi	Badyal Garvon	600	399	05-12-2020
25	Hem Lata	Badyal Garvon	600	400	05-12-2020
26	Sita Devi	Badyal Garvon	600	536	05-12-2020
27	Promila Devi	Badyal Garvon	600	537	05-12-2020
28	Pooja Devi	Badyal Garvon	600	538	05-12-2020
29	Santosh Devi	Badyal Garvon	600	539	05-12-2020
30	Kamla Devi	Badyal Garvon	600	540	05-12-2020
31	Roma Devi	Badyal Garvon	600	541	05-12-2020
32	Meena Devi	Badyal Garvon	600	542	05-12-2020
33	Urmila Devi	Badyal Garvon	600	543	05-12-2020
34	Promila Devi	Badyal Garvon	600	544	05-12-2020
35	Kamla Devi	Badyal Garvon	600	545	05-12-2020
36	Ritu Thakur	Maanana	620	546	25-12-2020
37	Rajni Devi	Maanana	620	547	25-12-2020
38	Mamta Devi-I	Maanana	620	548	25-12-2020
39	Meena Kumari	Maanana	620	549	25-12-2020
40	Manjeet Devi	Maanana	620	550	25-12-2020
41	Sapana Devi	Maanana	620	551	25-12-2020
42	Saroj Devi	Maanana	620	552	25-12-2020
43	Nirmala Devi-I	Maanana	620	553	25-12-2020
44	Oma Devi	Maanana	620	554	25-12-2020
45	Shakuntala Devi	Maanana	620	555	25-12-2020
46	Roma Sharma	Maanana	620	556	25-12-2020
47	Krishana Devi	Maanana	620	557	25-12-2020
48	Nirmala Devi-II	Maanana	620	558	25-12-2020
49	Mamta Devi-II	Maanana	620	559	25-12-2020
50	Kamla Devi	Dhaaman	500	560	30-12-2020
51	Durga Devi	Dhaaman	500	561	30-12-2020
52	Prem Lata	Dhaaman	500	562	30-12-2020

53	Sushma DEVI	Dhaaman	500	563	30-12-2020
54	Urmila Devi	Dhaaman	650	564	30-12-2020
55	Parwati Devi	Dhaaman	650	565	30-12-2020
56	Reenu Bala	Dhaaman	650	566	30-12-2020
57	Dayawanti	Dhaaman	650	567	30-12-2020
58	Ritu	Kharag	650	568	30-12-2020
59	Dhanvanti	Kharag	650	569	30-12-2020
60	Satya	Kharag	650	570	30-12-2020
61	Dharmi Devi	Kharag	650	571	30-12-2020
62	Kamlesh Devi	Kharag	650	572	30-12-2020
63	Sunita Devi	Kharag	650	573	30-12-2020
64	Reshmi Devi	Kharag	650	574	30-12-2020
65	Kranti devi	Kharag	500	577	30-12-2020

ii. Bio-Sand Filter Development , Testing, Transportation & Installation

After collection of upfront cash contribution by remaining beneficiaries of 3rd year, SATHI initiated construction of bio-sand filters . Due to remoteness of PPI project region & quality concern issues, SATHI constructed concrete filters at Thakurdwara campus. To assure quality in filter construction process, SATHI technical expert regularly monitored the site. 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, paint coating, fixing of diffuser plate etc. Thereafter filters were transported to project village & installed (filled with filter media, fixing diffuser plate, lid, water testing etc) by SATHI at respective beneficiaries households. Beneficiaries were encouraged for regular use of filters.

Table: Distribution of filter during Dec'20 – Feb'21

Filter No.	Name of Beneficiary	Name of Village	Name of Gram Panchayat	Block, District
22	Vimla Devi	Badyal Gadyon	Dharla	Morni, Panchkula
23	Manju Devi	Badyal Gadyon	Dharla	Morni, Panchkula
24	Tara Devi	Badyal Gadyon	Dharla	Morni, Panchkula
25	Hem Lata	Badyal Gadyon	Dharla	Morni, Panchkula
26	Sita Devi	Badyal Gadyon	Dharla	Morni, Panchkula
27	Promila Devi	Badyal Gadyon	Dharla	Morni, Panchkula
28	Pooja Devi	Badyal Gadyon	Dharla	Morni, Panchkula
29	Santosh Devi	Badyal Gadyon	Dharla	Morni, Panchkula
30	Kamla Devi	Badyal Gadyon	Dharla	Morni, Panchkula
31	Roma Devi	Badyal Gadyon	Dharla	Morni, Panchkula
32	Meena Devi	Badyal Gadyon	Dharla	Morni, Panchkula
33	Urmila Devi	Badyal Gadyon	Dharla	Morni, Panchkula
34	Promila Devi	Badyal Gadyon	Dharla	Morni, Panchkula
35	Kamla Devi	Badyal Gadyon	Dharla	Morni, Panchkula

36	Ritu Thakur	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
37	Rajni Devi	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
38	Mamta Devi-I	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
39	Meena Kumari	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
40	Manjeet Devi	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
41	Sapana Devi	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
42	Saroj Devi	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
43	Nirmala Devi-I	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
44	Oma Devi	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
45	Shakuntala Devi	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
46	Roma Sharma	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
47	Krishana Devi	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
48	Nirmala Devi-II	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula
49	Mamta Devi-II	Maanana	Bhoj Mator (Maanana)	Morni, Panchkula

iii. User education & distribution of IEC Material

Besides filter installation, one important activity of PPI project is educating beneficiaries about filter use and its O&M (Operation and Maintenance). To achieve this objective, SATHI 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, filter number, year, technical assistance contact etc are clearly mentioned through stickers placed on outer wall of installed filter. During Q2 (Dec'20 - Feb'21), SATHI distributed filter educational material to 28 target families.

iv. User Follow-Up

During mid of January 2021 (12th – 14th Jan 2021), SATHI team carried out follow up visit to 21 beneficiaries covered during 1st quarter (3rd year) of PPI project. 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: 12th - 14th January 2021

✓ If acceptable
X 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	Narti Devi	410 ml/m	✓	✓	✓	✓	✓	✓	✓	✓
2	Seema Devi	400 ml/m	✓	✓	✓	✓	✓	✓	✓	✓

3	Indu Bala	320 ml/m	X	√	X	X	√	X	X	X
4	Kavita Devi	380 ml/m	X	√	√	√	√	√	√	√
5	Prem Lata	400 ml/m	√	√	√	√	√	√	√	√
6	Anjana Devi	400 ml/m	√	√	√	√	√	√	√	√
7	Suman Devi	340 ml/m	X	√	X	X	√	X	√	X
8	Champa Devi	400 ml/m	√	√	√	√	√	√	√	√
9	Murto Devi	400 ml/m	√	√	√	√	√	√	√	√
10	Rita Devi	400 ml/m	√	√	√	√	√	√	√	√
11	Dayamanti	450 ml/m	√	√	√	√	√	√	√	√
12	Rita Devi	390 ml/m	X	√	√	√	√	√	√	√
13	Uma Devi	420 ml/m	√	√	√	√	√	√	√	√
14	Sewti Devi	400 ml/m	√	√	√	√	√	√	√	√
15	Gomti Devi	400 ml/m	√	√	√	√	√	√	√	√
16	Anita Devi	410 ml/m	√	√	√	√	√	√	√	√
17	Shakuntla Devi	405 ml/m	√	√	√	X	√	√	√	√
18	Champa Devi-II	350 ml/m	X	√	X	X	√	X	X	X
19	Kunja Devi	400 ml/m	√	√	√	√	√	√	√	√
20	Champa Devi-III	405 ml/m	√	√	√	√	√	√	√	√
21	Nirmala Devi	400 ml/m	√	√	√	√	√	√	√	√
TOTAL √			16	21	18	17	21	18	19	18
TOTAL X			5	0	3	4	0	3	2	3

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

As analyzed from user follow-up data; out of 21 families which were covered under follow-up visit , 18 are using filter regularly. 03 families which were not using filter encouraged to use it on regular basis. Target families are satisfied with the quality of water filtered through bio-sand filters and beneficiaries are using it for drinking and cooking purposes.

B. Concluding Remark

During 3rd year of PPI project implementation, SATHI proposed to develop & distribute total 65 Nos. Bio-Sand Filters in 05 villages of Morni Hills (Haryana) . Initially, SATHI conducted village level awareness & training camps in 3rd year project villages. Thereafter, SATHI started preparing final list of filter beneficiaries & collection of 20% cash contribution towards filter installation. Till end of Feb'21, total 64 beneficiaries deposited their upfront contribution for filter installation. After collection of contribution, SATHI started filter construction activity. Due to quality concerns, concrete filters are developed by SATHI at its Thakurdwara campus and after testing filters were transported & installed at target project villages. **Till end of 2nd quarter (3rd year), SATHI successfully installed 49 filters in 05 villages of Morni block (21 during 1st quarter & 28 during 2nd quarter) . Organization has also distributed the educational material on filter use & maintenance to beneficiary community. Respective beneficiaries & their family members have been trained by SATHI in filter O&M (Operation & Maintenance). If some technical**

problems regarding filter use persist, it is rectified by SATHI team. To ensure regular use of filter among beneficiaries, SATHI team conducts monthly/quarterly follow- up visit in project region.