

A Novel Banana Fiber Pad for Menstrual Hygiene in India: A Feasibility and Acceptability study

Krishnashree Achuthan^{1*}, Sharanya Muthupalani¹, Vysakh Kani Kolil¹,
Anju Bist¹, Krishna Sreesuthan¹, Aswathy Sreedevi²

¹Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, Kollam, 690 525, India

²Department of Community Medicine, Amrita Institute of Medical Sciences and Research Centre,
Amrita Vishwa Vidyapeetham, Ernakulam, 682 041, India

Survey Questions

Part I: Demography

1. **Age** :

2. **Education** :

3. **Profession** :

4. **Which of these are you familiar with using? (Please tick all that apply)**

Cloth absorbents that you can wash and use again.

Disposable sanitary pad

Menstrual Cup

Tampons

Others

5. **How much money were you spending per month on sanitary products previously?**

Less than ₹ 50

₹ 50- ₹ 100

More than ₹ 100

Cloth, so no expense

Don't know

6. Are you the first in your family to use BFP (Banana Fibre based Menstrual Pad)?

- Yes
- No
- Don't know

7. How long you are using BFP?

- Less than 4 months
- More than 4 months
- More than 1 year
- More than 2 years

Part II: Characterization of Banana Fibre based Menstrual Pad (BFP)

A. Feasibility:

1. Preferred place of usage

- Any time
- At work/college/school
- At home only
- At night only

2. Experience with leakage

- Same as disposable pads
- Less leakage than disposable pads
- More leakage than disposable pads
- No leakage at all

3. Please indicate how long you use BFP without changing it?

- Less than 3 hours
- 3 - 4 hours
- 5 - 6 hours
- More than 6 hours

4. How much time does it take to wash BFP after use?

- Less than 1 minute
- 1 - 2 minutes
- More than 2 minutes

5. How do you wash your BFP?

- Brush wash
- Soak first in water and then wash by hands
- Machine wash
- Stone wash and later soak in disinfectant water for sometime

6. After washing, how long does it take for BFPs to dry?

- 1 - 3 hours
- 4 - 6 hours
- More than 6 hours
- One day
- Don't know

7. Where do you dry your BFPs?

- In my room / bathroom
- In the open with other clothes, but I cover it with a towel
- In the open far from rest of the cloths
- In the drying machine

B. Acceptability:

1. Which of the following is true of your current absorbent choice?

- Both disposable pads and BFP
- BFP 80% of the time
- Menstrual cup and BFP
- Only BFP
- BFP and another brand of reusable pads

2. How likely are you to recommend BFP to other women?

- Very likely
- Likely
- Unlikely
- Very unlikely

3. The BFPs are comfortable and easy to use and reuse

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

4. BFPs are easy to wash and clean

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

5. Are others in the family now wanting to make switch to BFP?

- Yes
- No
- Don't know

6. How likely you will continue using the BFP?

- Very likely
- Likely
- Unlikely
- Very unlikely

7. Reason for preferring BFP (Please tick all that apply)

- Easy to handle
- Absorbs better
- Feels clean
- Economical
- Eco-friendliness
- I feel traditional
- I feel modern

8. Reason for recommending BFP (Please tick all that apply)

- Concern for the environment
- Concern for the health
- Money spent every month