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Papaya Tree Sanitary Pads

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ABSTRACT:

We all know that around more than 90% of women are using sanitary pads in our daily life .But no one don't know the problems by using the common sanitary pads . Research from "the TATA centre and national institute for research in reproductive health in India ".They found that by analysis these used menstrual pads , they could detect the presence of Human Papilloma Virus (HPV) , which cause cervical cancer ".not only for that . I was seen many news relate to sanitary napkins problem in my daily life . And my family members are also faced many problems by using the common chemical pads . Sanitary napkins samples were checked for presence of a total of 25 volatile organic compounds (VOCs) out of which compounds such as . Acetone ,chloroform ,Benzene, Toluene. So I found that the new solution . By using the natural organic material based pad . we Can protect from diseases caused by chemical pad . The main material I used to found the pad was papaya tree .Because papaya is naturally medical benefits plant and also contain fiber its stem and leaves . by using the fiber we made the effective pad which is low cost also . by using the pad we can protect from cancer and other reproductive diseases . it doesn't make any side effect to our health . this is new procedure to take fiber from papaya tree and make a pad .It will create a great demand in future also. Compare to other pad it will works effectively and usefully .

Keywords: Problems caused by using common sanitary pads – how the problem reacts – papaya tree fiber to sanitary pad –how its effectively works – advantages.

Introduction:

In our daily busy life we don't care about our health the best example is health problem created by using non approval medicine and now days we are hearing about problem created by using sanitary napkins . which is contain inorganic substance and dangerous chemical substance . which cause cervical cancer and vagina cancer . I really afraid about that after hearing that . because we know that our family members are also using that type of common sanitary pads . after I entering into the deep research about sanitary pads and what are the ways to reduce it . I got idea to prepare pads from natural resource so I choose the papaya tree which has naturally contains fiber and also edible to absorb water and store .and also we know that papaya has many medical benefits and it give gloving to skin. the tree was grow 16 to 32 feet tall and spirally arranged leaves . it is water contain plant .papaya contain high level of antioxidants, vitamin a, vitamin c ,vitamin e. it used for heart diseases , diabetes ,cancer ,improving blood glucose level, lowering blood pressure and improving wound healing. But the steam parts are basically used for making rope . why not we can alternatively used for making pads . I make a research how its work . my out was success . finally the organic pad was made which give good comfort and reusable pad will sure that it does not create any hazardous to health .

Literature survey:

Idea: this is new idea . there is no existing object of this product . from papaya tree making pad is first time which is done by Dhakshna moorthy.D 192114001

Disadvantage of using common pads:

Disadvantage of using chemical pads :	Advantage of using papaya pad:
The obvious disadvantage of using a sanitary pads is irritation caused by wearing them for a long time .	In papaya pad there is no cause of itching and discomfort because it is fully made up of organic natural material
Not changing the pad often may also cause rashes on the skin	In this pad there is no option to rashes and it is safety to our body skin also .
Pads users are always prone to allergic which might be caused due to chemical present in them	In papaya pad there no presence of chemical substance and other hazardous substance which can cause problem to human health and environment

Also, they might emit a foul odor if not changed in span of 4 to 5 hours.	It has a heavy particles to hold the fluid . so might not be flow outer .
They are also environmentally hazardous and end up in	It is fully made up of organic material . so it is
land fill and chemical used in them are mostly non bio	decompose easily like leaves . and do not occur any
degradable	dangerous to environment.

Other newer products in this category the tampons and menstrual cup, both of which are slowly gaining popularity, especially more and more women are getting on top of physical activities these days. they exercise, run, lift weight, breaking the bias around heavy duty activities during period. using these type of product is not give comfort.

Advantages of using papaya pads:

1. The number one advantage of using these pads are ease of use .

2. These pads are also can made in home.

3.Cost efficient compare to normal chemical pads.

- 4.It is harmless and safe to health .
- 5.It do not create any abnormalities or problem to health.

6.Some time may re use and washable also.



Methodology :

1. Papaya tree :

Papaya tree is widely planting and also seen in local place . the Papaya the common name was (*carica papaya*) the species is believed to be native to south Mexico and neighboring central America and to have been taken to Caribbean countries and south east Asia during the Spanish exploration in the sixteenth century 1969 it then spread rapidly to India and Africa .today it is widely throughout the tropical and subtropical region of the world . a papaya tree has single ,erect , tree , like herbaceous stem , with a crown of large , palmately and deeply lobed leaves . the main stem is cylindrical and hallow , with prominent leaf scars and spongy fibrous tissue . leaves are arranged spirally , with petioles extending horizontally up to 1m long . trees contain white latex in all their parts . because of these common availability it will easy to create pads from papaya tree fiber . note that "the papaya tree fully contain of fibrous tissue " .



make product from it.



papaya tree is commercially planting wide range of agricultural so it is easy to

first step is to take fiber from papaya tree stem . for that purpose we use traditional method without machining process .nothing but by using knife cut down it and take a fiber particles from bark or outer layer of the tree . after taking it dry it for one hour with moderate room temperature .

2. Fiber soak process :

After the dried process the fiber are ready to soak into water .we know that all plants cells are have cell wall it protect swelling made up of soak into water . next step was the fiber pour into a container and will with sufficient water and add baking soda (for 100 g of fiber add one teaspoon of baking soda) and add common detergent which was we used for washing clothes .which is also equal to baking soda. now the three thing are pour into same container and soak for 10 hours.



After the process of soaking into water it will soft compare to bare one . after the large particles are cut down into small pieces and knee with our hand and try to get some better softening condition and prepare for next step of process.

3.Cook the fiber :

After the process we need to cook the fiber with high flame . by using the liquid which we soak into the fiber . boil and cook it nearly one hour with high flame . in middle of time stir it often . cook it will turn into soft and may convert to pulp. Nearly (temperature=150 degree) after the cooking process is completed rest it in cool . after the cooking is completed ready for next steps.

4.Grind the fiber :

After the cooking is completed need to grind the fiber particles into fine . by using mixer grinder which was we used in normal domestic purpose . pour into the mixer jar and grind into soft pulp or finite fiber particles . up to it will turn soft .and grind the all fiber into pulp and also add water during grind for better grinding and smooth fiber .

5.Dry the pulp:

After the grinding process need to dry the particles . so by showing the direct sunlight dried deeply without any moisture content . now you can realize that it will ready for making pad .



After the dry it will look like above picture . now it will store for one day and rub with your hands try to make soft again . because it will helps to absorb more and more . now the material is done for making pad .

6.Making pad:

Now the final process to make pad. first take cotton cloths and measure a required length and width. or measuring by using common sanitary pads and draw a trace line like common pad. now cut the cotton piece and repel the shape four times .now we have four parts of cloth .after by using two piece of cloth stitch and in between fill the particles we prepared nothing but fiber particles . after filling it cover the hole . and stitch another two cloths also with in it.



we can get the final out put like this . it will helpful for periods time and avoid harmful causes by using this organic pad .

Conclusion:

Finally I conclude that the best product which is eco friendly to environmental and helpful to women . it will works effectively and protect from cancer and other reproductive diseases . it will definite create a great demand in future

Result:

The final result is it will increase marketing demand day by day .

References:

It not depend upon any research or paper . it is fully made of my hard works and my skills . (not refer any books or research paper).

Based on fully school biology knowledge to make this paper successfully.