



# Formulation And Evaluation Of Polyherbal Body And Facial Scrub Using Neem Bark

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## ABSTRACT :-

For the healthy and nourish skin periodic cleansing requires which removes the dirt, dead skin, sebum other secretion Extends the skin and their appendix by chemical topical application. This is useful for making skin charming and beautiful. Cosmetic plays very important role in everyone's life to make joyful skin.

To maintain healthy and nourished skin, regular cleansing is necessary, as it eliminates dirt, dead skin, sebum, and other secretions, enhancing the skin and its appendages through topical chemical applications. This practice is beneficial for achieving charming and beautiful skin. Cosmetics play a significant role in everyone's life by helping to create radiant skin. Because they have fewer or no adverse effects, herbal cosmeceuticals are in high demand these days. Plant parts with antibacterial, antiaging, antiacne, and antioxidant properties are typically found in herbal cosmetics. These days, scrubbing can help with issues including acne, whiteheads, and blackheads. Cleaning is necessary to maintain healthy skin by getting rid of debris and filth. The creation and assessment of a herbal body scrub employing herbal medications is the focus of the current study, which is conducted using a number of parameters. In order to demonstrate the cleansing and shining activity, the manufactured composition is used successfully. using flax seeds, tulsi, haldi, sandal wood , neem bark, and multani mitti, turmeric .We developed three distinct formulations (F1 10%, F2 20%, and F3 30%) for body whitening and scrubbers. and face scrubs F1, F2, and F3. After that, these formulations were examined. The physical appearance, homogeneity, extrudability, spreadability, irritability, washability, grittiness, stability, and consistency of these formulations were further evaluated.

## OBJECTIVES:-

The main objective of present study was to prepare a herbal body and facial scrub powder

**Keywords:** Body scrub, Facial scrub, flax seed gel, Neem bark

## Introduction:

Herbal cosmetics are described as products that have been created using a variety of legal cosmetic ingredients as the base and one or more herbal ingredients to deliver specific cosmetic benefits solely. The natural components of botanicals have no negative effects on human health; instead, they provide the body with nutrients and other beneficial minerals. (11) Because they can function as both cosmetics and medications, herbal cosmetics are in high demand nowadays. Skin care products are a crucial component in boosting people's confidence

There are many different sorts of cosmetics, and each one affects the skin in a different way. Skin attributable to a number of factors and these can be successfully treated with the application of scrubs. Two different types of scrubs are used on the skin, including face body scrub and scrub. The only difference between these two is how much sugar and oil are put to each. Face scrub uses a lot of oil, which makes it less abrasive It removes dead skin cells from the skin and exfoliates it. Scrub can be applied to any skin type. Only the essential oil utilized as an ingredient in the scrub will change depending on the kind of skin. Skin is divided into three categories, including such as sensitive skin, dry skin, and oily skin..[2] Regular usage of scrubs reveals new skin cells and leaves skin shining and smoother since dead skin cells are removed. One of the essential components Neem bark in the creation of facial scrubs is a mild abrasive agent. Scrubs can either be applied directly to the skin or with a little cosmetic pad. It is advised to use a gentle motion when applying the scrub gel, which helps to boost oxygen supply to the skin's surface and promote blood circulation.[3]

## Material method :

### 1. Sandal wood



**Fig : 1 Sandal wood**

**Synonyms:** Chandan, , white sandalwood,

**Scientific Name:** Santalum album L.

**Family:** Santalaceae

**Uses :** cooling effect , protective

## 2. Neem Bark

**Synonym:** Margosa, neem tree

**Biological name:** *Azadirachta indica*

**Family:** meliaceae

**CC:** Azadirachtin, nimbolinin, nimbin, nimbidin, nimbidol,

**Uses :** Antiseptic Antibacterial



**Fig: 2 Neem Bark**

## 3. Flax seed:-



**Fig: 3 Flax seed**

**Synonym:** Alasi, common flax

**Biological name:** *Linum usitatissimum*

**Family:** linaceae

**CC:** 9–10% of saturated fatty acids (palmitic and stearic), about 20% monounsaturated fatty acids (mainly oleic acid), and more than 70%  $\alpha$ -linolenic acid.

**Uses :** flax seed gel used as mucilage and soothing agent

#### 4. Turmeric:-



**Fig:4 Turmeric**

**Synonym:** haldi , turmeric

**Biological name:**Curcuma longa

**Family:** zingiberaceae

**CC:** curcumin, galic acid, rutin ,cinnamic acid

**Uses :**Antiseptic , antibacterial , anti-inflammatory

#### 5. Aloe vera



**Fig: 5 Aloe vera**

**Synonym :** Aloe vera leaves

**Biological source :** It is fresh juice collected by incision, from the bases of the leaves of various species of Aloe. Aloe perryi Baker, Aloe vera Linn or Aloe barbadensis

**family :** Liliaceae.

**Chemical conatituents :** Aloin

**Uses :** Digestive, skin problems

## 6. Tulsi

**Synonym :** Basil holi

**Biological source :** occimum sanctum

**family :** Labiatea

**Chemical .constituents :** Eugenol, camphor

**Uses :** Antiseptic Antimicrobial



## 7. Bentonite



**Synonym :** Fullers earth

**Chemical constituents :** magnesium ,calacium , zinc, silica oxide

**Uses :** skin protection

**Collection and authentication :** Collect all materials from nearby garden and authenticate by botonist from Nahata college bhusawal by giving plant specimen .

**Drying :** Dry all materials in naturally in sun shade

**Grinding :** Grinding all the materials in grinder

**Sewing :** The plant material pass through sieves no 20 for facial scub and in sieve no 60 for Body scrub

## Formulation of facial and Body scrub

**Table : 1. F1(10)%, 20%, 30% concentration of neem bark**

s.no	Particulars	Activity of ingredients (gm)	Uses
1	Aloe vera gel :	3gm	Hydrating activity
2	Neem bark powder	5gm,10g,15g	Antibacterial activity
3	Rose petal powder	1gm	Antioxidant effect
4	Turmeric	1gm	Antimicrobial , colouring agent
5	Sandalwood powder	1gm	Cooling and protective agent
6	Bentonite (Multani mitti)	3gm	Protective
7	Flax seed gel	3gm	Antimicrobial
8	Tulsi	1gm	Antimicrobial activity
9	Olive oil	1ml	Stabilizer

### Procedure:-

- 1.First take the measured powder ingredients;
2. Mix them for a while.
3. Grind them.
4. Pass from sieves
- 4.Store it an air tight container

**Application :** Apply it with mixing with milk and Rose water for Dry and normal skin and lemon oil and water used for oily skin

### Evaluation parameter of herbal facial scrub:-

To Evaluate the quality of prepared formulation, several quality tests were performed.

### 1. Colour:

The colour of the face scrub gel was Brown checked by visually.

### 2. Odour:Aromatic

The formulation was evaluated for its odour by smelling it.

### 3. PH: 4 to 5

### 4. Washability: wash it with cooling water

Formulation were applied on the skin easily remove by washing with water were checked manually.

### 5. Spreadability:

The spread ability of the gel was found manually by applying the on the skin with hand or face gentle rub which easily spread through the face.

### 6. Sensitivity:

The formulated preparation applied on human volunteer's (hand and face) and observe for any side effects.

In these groups based on skin type

Oily, combination, dry skin should be selected they use it for 2 weeks in twice a week.



**A. (oily skin)**

Left hand are more fare than Right side of hand



**B. (Normal skin)**

Right side of hand more fare than left side of hand



**C. Combination skin**

Left hand is more fare than left side

10, 20% and 30% percentage of neem bark in increasing concentration alter the skin glowing 20% concentration of neem was the best result to the All type of skin .

For oily skin, excess oil secretion and sebum secretion are controlled.

Combination skin type have also gets better effects

For dry and acne-prone skin, it has definitely been get glowing and better skin effects.

## **RESULT:**

**1. Colour-** Yellowish- green

**2. Odour-** Pleasant

**3. PH-** PH of formulation was found to be 4.2.

**4. Washability-**Formulation easily removed by washing with water.

**5. Sreadability :** It is Easily spread to the skin

**6. Sensevity test :** No any allergic condition will develop.

**Conclusion :** Herbal scrub has good effect. They prevent dullness, pimples and to remove excess oil from skin and help to glowing the skin.they Exfoliate and rejuvnate the skin and antiaging property can be shows after application. F2 (20% )concentration of neem bark was effective it glows the skin and also pigmentation and dark spots was removed because these 20% of concentration size of particles was spreading easily to the facial and body easily and there is no abbresive effect on skin no itching and irritation occurs. As compare to marleted synthetic and semisynthetic these herbal product gives better result .

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