

# A Review on Preparation and Evaluation of Hair Care Product (Hair Dye )

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**Abstract:** *Herbal based hair dyes are being preferred on large Scale, due to the vast number of advantages it exerts to Overcome the ill-effects of a chemical based hair dye. We Have attempted to prepare and standardize this Preparation to ensure its quality as well as stability Aspects.*

**Keywords:** Hair Dye

## I. INTRODUCTION

As compared to the chemical based hair dyes, which cause skin and other skin related diseases, natural herbalDyes are being preferred nowadays . Today most of the Human beings are very careful about their beauty andHairs play an important role in this.

Herbal drugs without any adverse effects are used for healthy hair. Nearly 70%Of human beings above 50 years struggle with the problem of balding and graying of hair. In few cases, These symptoms of ageing occur earlier. Graying starts on The skin of head at about40 years, starting initially from The temples, followed by beard, moustache and finally Upto the chest. The age at which graying starts is deeply Influenced by heredity. But premature depigmentation in Adults is mainly due to variety of other factors, as illness,Some specific drugs, shock etc. . People have been using Natural dyes since ancient times for the purpose of dyeing Carpets, rugs and clothings by the use of roots, stems, Barks, leaves, berries and flowers of various dye yielding Plants . The need of herbal based natural medicines isIncreasing fastly due to their natural goodness and lack ofSide effects. Amla, Bhringraj, Henna, Mandara, Jatamansi, Reetha, Sariva, Curry leaves and Methi seeds are well –Known ayurvedic herbal drugs traditionally used as Haircolorant and for hair growth . Many different extracts From plant were used for the purpose of hair dyeing inEurope and Asia before the invention of modern dyes. Indigo, known as initial fabric dye, could be mixed with Henna to make different light brown to black shades of Hair dye . Use of these chemicals can result in unpleasant Side effects, such as skin irritation, allergy, hair Breakage, skin discoloration, unexpected hair color etc. .Continuous application of such compounds on natural Hair causes multiple side effects such as skin irritation,Allergy,hair fall, dry scalp, erythrema and also skin Cancer . In India, henna has been used traditionally for Colouring palms and hairs. There are so many herbs like Kikar, Bihi, Bhringraj, Patnag, Akhrot, Narra, Jaborandi, Jatamansi, Amla, Kuth, Giloe, Behera which are used as aMajor constituents in hair care preparations mainly Meant for dyeing hair .

Henna has been used traditionally For colouring women’s bodies during marriage and other Social celebrations since the times of Bronze Age. It is a Part of Islamic and Hindu cultures as a hair coloring and Dyeing agent for the purpose of decorating the nails or for The formation of temporary skin tattoos . Drugs from the Plant sources are easily available, are less expensive, Safe, and efficient and rarely have side effects [18]. In the Present era of eco-conservation, the use of natural dyes

Has been revived and reviewed for the coloration of Textiles and food materials .

Types of hair Dye nios

1. Perman’t hair piyevi
2. Demi-Permaent hair Dyeetmoly
3. Semi- Permanet hair Dye
4. Temporary hair Dyeodantho Meaning of Hair Dye

Hair Dye or Practice of hair Coloring changing is theHair color. The main Reason for this are gray the Cosmatic to covee hairs or too change colombo ford Hair which is regarded or asa

more fashionable Desirable in today's world. Permanent hair dye In order hair to deposit permanent permanent Dye, the outer of hair shaft ie layee Cuticle must be Opened..Once the cuticle is opened, the dye react with the Inner porolion” of the hear

Ie. Cortex to deposit : or remove the Color. Most permanet Exitiair a chyeuseri a two-step Process, which first Removes the original color of the hair and then deposits. Colormat sub vind bacod Demi-Permanent hair Dye. Demi permanent hair diye jare thase which contains Agent an alkaline othee than ammonia Ce.g. Ethanalamine, sodium carbonate etc.] always employed With a developer. The Concentration of hydrogen PeroxideIn that developer may be lower than used with ulitid a Permanent. Demi Permanent cre effective at much more Covering Gray. Hair than semi- permanent dye but less than hair I Amia powder upgrades the retention of calcium, Assisting with making better bones, teeth, nails, and hair.It keeps up with the hair tone and forestalls untimely Turning gray, reinforces the hair follicles, Amla is theMust extravagant and concentrated type of Vitamin C Alongside tannins found among the plants. The Vitamin CFound in the natural product predicaments with tannins That safeguard it from being lost by intensity of light. This amla powder is additionally plentiful in in tannins, Minerals like Calcium, Phosphorus, Fe and aminoCorrosive. The natural product extricate valuable for hair Development and decrease balding. Amla hasAntibacterial and cell reinforcement properties that can Assist with advancing the development of solid and shiny Hair

### 1) Amla powder

Amia powder upgrades the retention of calcium, Assisting with making better bones, teeth, nails, and hair. It keeps up with the hair tone and forestalls untimely Turning gray, reinforces the hair follicles, Amla is the Must extravagant and concentrated type of Vitamin C Alongside tannins found among the plants. The Vitamin C Found in the natural product predicaments with tannins That safeguard it from being lost by intensity of light. This



Fig. No – 1 Amla powder

### 2) Hibiscus powder :

Is magnificent for expansion in hair development Movement. Hibiscus is normally enhanced with Calcium, Phosphorus, Iron, Vitamin B1, Vitamin C, Riboflavin and Niacin, which help to advance thicker hair development And diminishes untimely turning gray of hair. This Blossom is utilized for controlling dandruff Hibiscus Displays cancer prevention agent properties by delivering Flavonoids, for example, anthocyanins and other phenolic Compounds. Restoring the hair by molding it can be



Fig no.2 Hibiscus powder

**3) Tea powder -**

Being rich in polyphenols, selenium, copper, Phytoestrogens, melatonin, tea also has been used in Traditional Chinese medicine and in Ayurvedic medicine. It has been used since long as hair colourant.



Fig no .3 Tea powder

**4) REETA POWDER**

Reetha is plentiful in vitamin A, D, E, K, saponin, sugars, Unsaturated fats and adhesive. Reetha removes helpful For the advancement of hair development and decreased Dandruff. Concentrate of organic product coat goes about A characteristic cleanser, consequently is utilized in home Grown shampoos as hair chemical Reetha as soapnuts or Washing nuts, assume a significant part as normal hair Car items since more established times. This plant is improved with saponins, which makes the hair solid, Gleaming, and glossy when utilized on customary premise



Fig no.4 Reetha powder

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### 5) Heena powder

Henna likewise lessens untimely turning grey of hair, Since it is stacked with tannins, a plant compound found In a tea that adds to their rich shading. Henna contains Vitamin E, which assists with mellowing hair. The natural Leaves of the plant are rich in proteins and antioxidants That support hair health.



Fig no. 5 Henna powder

### 6) Rosemary powder -

Rosemary is extremely normal and effectively open. Spice. It is green in appearance with meager, needle-Like leaves with a profound, sharp smell. With regards to Its commitments to hair it is by all accounts generally Useful. Here is a short rundown of its purposes and Advantages to hair. Hair Growth Stimulates and improves Circulation to the scalp thus encouraging hair Growth. Hair Cleanser Due to its antibacterial quality it Gentlycleanses hair. Shine Increases shine.Scalp issues Relieves irritated, dry, flaky, dandruff ridden scalps.



Fig no.6 Rosemary powder

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