A Review:

Use of indigenous dyes for economic upliftment and sustainable livelihood

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Colouring yarn is a creative and lucrative art nurtured and patronized through centuries. Until the turn of 19th century fabric were coloured using dyestuff obtained from nature as they were the only colouring substances available at that time. The muted earth colours yielded by these indigenous dyestuffs were considered as harmonious as they go together giving pleasing results.

Indigenous dyeing on textiles is now being popularized globally by the continuous effort of the nature lovers. The problems caused by the synthetic dyes to the human lives and environments have come to an alarming level today. Hence, there is an urgent need to have an alternative for the hazardous synthetic dyes. One such immediate solution is to explore the use of natural dyes. In recent years, a growing interest in the revival of natural dyes has been manifested. This interest is a result of worldwide movement to protect the environment for indiscriminate exploitation and pollution by industries. Natural dyes are being reborn but they lack colourfastness to various agencies like washing, sunlight, crocking etc. Mordents are used to improve colorfastness to dyes. To some extent adding selected mordant in the natural dyeing both is accepted provided the character of the natural dye is unaltered and the eco-system is not deteriorated. Hence, the coloration of textiles with natural dyes and with natural mordent is advantageous and appreciable towards the health and environment point of view.

Ethnic communities throughout the NE region of India, with long standing dye traditions around which revolved a way of life with socio-cultural implications was not left untouched. By the early part of the last century, the global phenomena

of synthetic dyestuff had rapidly permeated into the indigenous craft. It all but destroyed the knowledge skills acquired over centuries to perfect and inevitably eroded, because a cheaper alternative requiring little or no skill was readily available. Today, throughout the multiethnic communities of the northeast the craft is either lost or in the status of a languishing craft.

Moreover, the North East region is a veritable treasure house of vibrant traditions of weaving worked upon by a large work force of women who have kept the craft alive. The weavers incorporate intricate and unique motifs through indigenous dyed yarn that reflect sociocultural significance giving it regional identity and specialty not found anywhere in the country.

Appropriating the use of natural dyes as value addition in the handloom products represent, a niche marketing direction. Such initiatives have gender implications since weaving and dyeing is the domain of women. Increase income benefits will ensure women weavers' sustainable security. By this value addition, a revival on the use of natural dyes will conserve an intangible heritage.

In general, population growth, poverty and the search for short-term economic gains among local populations are at the root of the threat to biological diversity, or biodiversity. So far, no concrete initiative has been taken to promote the sustainable use of biological diversity at the global level. This would require specific action and a certain amount of planning by Governments, local communities and the private sector.

NGOs have played a major part in the revival of indigenous dye practices in world communities having a vibrant past, where the craft is slowly languishing or

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Table: Dye/colour yielding plants used as	s dye material			
Botanical name	Common name	Family	Dye yielding part	Colour
Aegele marmelos Linn.	Bel tree	Rutaceae	Fruit	Yellow
Aleurite moluccana Willd.	Jangli Akhrot	Euphorbiacea	Root	Brown
Allium cepa Linn.	Onion	Liliaceae	Dry skin	Red
Artocarpus integrifolia Linn	Jackfruit	Moraceae	Wood and root	Yellow
Artocarpus lakoocha Roxb	Lakoocha	Moraceae	Root	Yellow
Bauhinia purpurea Linn	Pink Bauhinia	Leguminosae	Bark	Yellow
Berberis aristata DC.	India Berberry	Berberidaceae	Root and Stem	Yellow
Beta vulgaris Linn.	Sugar beet	Chenopodiaceae	Root stock	Red
Biscafia javanica Blume	Red Cedar	Euphorbiaceae	Wood	Red
Bixa orellana Linn	Annatto	Bixaceae	Seeds	Orange
Bougainvillea spactabilis Willd.	Bouganvillea Palash	Nyctaginaceae Leguminosae	Flower Flower	Red Yellow
Butea monosperma Lam. Butea superba Roxb.	Climbing palash	Leguminosae	Bark and root	Red
Caesalpinia sappan Linn.	Sappan wood	Leguminosae	Heartwood	Red
Capsicum annum Linn.	Red chillies	Solanaceae	Fruit	Red
Carthamus tinctorius Linn.	Safflower	Compositae	Flower	Red
Cassia fistula Linn.	India laburnum	Leguminosae	Bark	Red
Cedrela toona Roxb.	Red Ceder	Meliaceae	Flower	Red
Ceriops tagal (Perr.) C.B. Robins.	Goran	Rhizophoraceae	Bark	Red, Brown
Chlorooxylon swietenia DC.	Bhirra	Rutaceae	Bark	Yellow
Crocus sativus Linn.	Saffron Crocus	Iridaceae	Flower	Yellow
Curcuma longa Linn.	Turmeric	Zingiberaceae	Root	Yellow
Datisca cannabina Linn.	Akalbir	Datiscaceae	Root	Yellow
Diospyros pergrina (Geartn.) Gurk.	Indian Persimon	Ebenaceae	Fruit	Brown
Eclipta alba Hassak.	Bhringaraja, Mochkand	Compositae	Leaves	Black
Embilica officinales Gaertn.	Amla	Euphorbiaceae	Bark	Brownish yellow
Ervatamia coronaria Stapf.	Crape Jasmine	Umbelliferae	Seed pulp	Yellow
Eugenia jambolana Lam.	Black plum	Myrtaceae	Bark	Brown
Ficus religiosa Linn.	Pipal	Moraceae	Bark	Brown
Garcinia xanthochymus Hook.f.	Cochin goroka	Guttiferae	Bark	Golden yellow
Garuga pinnata Roxb.	Kharpat	Burseraceae	Leaves	Red
Gossypium herbaceum Linn.	Kapas	Malvaceae	Flower	Yellow
Haematoxylon campechianum Linn.	Patang; Logwood	Leguminosae	Heartwood	Grey
Indigofera tinctoria Linn.	Indigo	Leguminosae	Leaves	Blue
Jasminum humile Linn.	Yellow jasmine	Oleaceae	Root	Yellow
Juglans regia Linn.	Walnut	Juglandaceae	Bark and leaves	Brown
Lannea coromandelica (Houtt.) Merrill. Lawsonia inermis Linn.	Jingan Henna	Anacardiaceae	Bark Leaves	Brown Red
Mallotus phillippensis Muell. Arg.	Kamala tree	Lythraceae Euphorbiaceae	Fruit	Yellow
Mangifera indica Linn.	Mango	Anacardiaceae	Bark	Yellow
Melastoma malabathrium Linn.	Phutuka	Melastomataceae	Fruit	Black/Purple
Memecylon umbellatum Burm. f.	Iron wood	Melastomataceae	Leaves	Yellow
Michelica champaca Linn.	Champaka	Magnoliaceae	Flower	Yellow
Mimusops elengi Linn	Indian Madlar	Sapotaceae	Bark	Brown
Morinda angustifolia Roxb.	Achu	Rubiaceae	Root and Wood	Yellow
Morinda citrifolia Linn.	Al	Rubiaceae	Bark and Root	Red and yellow
Myrica esculanta Buch-Ham.	Bay berry	Myriaceae	Bark	Yellow
Syn. Myrica nagi Thunb.	· •	•		
Nyctanthesis arbortritis Linn.	Coral Jasmine	Oleaceae	Flower	Yellow
Onsoma echioides C.B. Clarke, non Linn.	Ratanjot	Boraginaceae	Root	Red
Petrocarpus santalinus Linn.	Red Sandal	Leguminosae	Wood	Red
Pterospermum lanceafolium Roxb.	Muskund	Stercyliaceae	Leaves and Bark	Orange
Punica granatum Linn.	Pomegranate	Lythraceae	Fruits	Yellow
Reseda luteola Linn.	Dyer's Weld	Resedaceae	Whole plant	Yellow
Rubia cordifolia Linn.	Indian Madder	Rubiaceae	Root	Pink red
Semecarpus anacardium Linn.f.	Cachewnut tree Black Plum	Anacardiaceae	Fruit Bark	Black Red
Syzygium cuminii (Linn) Skeels. Tagettes erecta Linn.		Myrtaceae	вагк	Kea
			Lagrage	Prove
	Marygold	Composite	Leaves	Brown
Syn Tagettes patula Linn.	Marygold	Composite		
			Leaves Bark and leaves Bark	Brown Brown Brown

lost. NGOs play the catalyst in development initiatives between recipient/ producer/ consumer.

State institutions and other agencies can play a vital role in community initiatives, information sharing and protection of community knowledge by vested commercial interests. Instruments like IPR (Intellectual Property Rights) must be put in place, to ensure the traditional and indigenous knowledge that craft- practitioners have is respected, protected and its commercialization by others is done with mutual consent and with equitable sharing of benefits.

There is a global rebirth for the use of indigenous dyes with worldwide interest and attention given to the use of natural dyes for its eco-friendly processes and the contribution of its use in future economies. These issues hold relevance to be considered locally and in a global perspective as peoples of the world community search for alternatives to sustain our planet. To concern for environment considerations in developed countries, has pushed for ecological consumptions which also influence the textile industry e.g., eco labeling, Eco Mark, alongside indicators to certify the product process within ecological

parameters, is embracing greater acceptance in world commerce.

There is resurgence in the demand for indigenous dyed products in the textiles and craft industries, with this sector emerging as a strong economy in the 21st century – an economy that must be considered with rational management of renewable natural resources. While promoting natural dyes measures must be in place to protect it. Excessive and wanton collection of the dye plants can rapidly deplete the environment. The cultivation of dye yielding plants can be part of alternative farming. Hence, here are some common dyes yielding plant available in north east of India

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