

SUNDAY STORY



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Workers at 'Colours of Nature' at Auroville | GPATTABIRAMAN

Indigo required for a pair of biue jean trousers. Indigo carmine, or indigo, is an indigo derivative which is also used as a colorant. About 20 thousand tonness are produced annually, again

Synthetic vs natural

- Synthetic indigo is created from benzene derivatives from petroleum. Benzene has to be treated with more chemicals, including hydrogen cyanide, to turn it into indigo dye. Indigo does not naturally adhere to fabric, so has to undergo further processing using hydrosulphites to transform it into a dye. These chemicals are highly harmful to the environment
- But natural indigo is a natural pigment extracted from the plant, indigofera. The preparation is carried out thorough a fermentation process and addition of natural ingredients such as lime. This does not hurt the ecosystem, but rather forms a part of it.

INDIAN CONNECTION

India is one of the oldest known centres of Indigo dyeing, in fact, our country gave the dye its name. The Greeks named it 'Indikôn' (Indian). The Romans gave it the term Indicum, which later became Indigo

With the fashion industry becoming eco-conscious, demand for natural indigo dye has risen steadily. Nirupama Viswanathan looks at the many challenges in the journey to revive a lost art

or the past 25 years. Jesus Ciriza
Larraona has worked with the
colour Indigo. And during this
phase, Indigo has been somewhat
like an indecisive lover, letting
him revel in the longing that only
uncertainty brings. What makes
a colour as common as the blue in the
deep midnight sky, so irresistible to
some? The answer, they say, is because
it is as simple and as complicated as almost everything that it paints.
With large national and international
clothing companies increasingly taking
the green route, playing with natural
dyes and fabrics, the natural Indigo dye
is in vogue like never before.
However, says Jesus, founder of natural dyeing unit The Colours of Nature'
in Auroville, the country is now having
to re-learn the art of dyeing with natural
totago. From being one of the olders

rat traduo, return being one of the adest known natural indigo dyeing centres in the world, it has turned into a country groping in the dark to find the perfect technique, "Over the last 100 years, all traditional dyers in the country had moved to synthetic dyeing — it's cheaper and easier. Now, we have to piece together the art of natural dyeing from whatever little the families who once practised it remember," he said.

Arduous lourney

Arduous journey

Arduous Journey

Jesus ropes in traditional dyers from across the country to his workshop in Auroville in an attempt to learn and review traditional Indigo dyeing. "It is difficult because there is no set formula. A few hundred years ago, the urine of children and drunk men were used in natural indigo dyeing. The quality used to be so good during those times. People would smell the fabric and if they couldn't smell urine, would refuse to buy it." For reasons only too obvious, the technique did not stand the test of time, quickly growing unpopular and anaerobic fermentation took its place. However, even for that, there is no set formula, say dyers.

Called the king of dyes, Indigo stands

apart from other dyes since it is dyed through living fermentation in a solution called a vat filled in pots.

In the village of Guledgudda in Karnataka, the Hasilcar family had dyed Indigo for generations. Subhash Hasilcar, a septuagenarian, one of the few to pass on his knowledge to "The Colours of Nature", remembered the routine but forgot the muances, like being able to understand the condition of pots by smell. His villagers switched to synthetic dyeing over 70 years ago, and are happy doing what they do with no plans to take up full-fledged traditional dyeing.

Not so profitable

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The Colours of Nature now has about 30 pots and a total capacity of 60,000 litres in its sprawling premises. But, even with this, they can only dye as many clothes as a single barrel of synthetic dye, and therein lies their biggest challenge.

with this, they can only dye as many clothes as a slight barrel of synthetic dye, and therein lies their biggest challenge. "Manyof the manufacturers whosay they have used natural dyes are lying. That is why we have unfair competition. Consumers must be more aware of how the manufacturers source their products," said desus, as he cups soluble yellow-green Indigo from the vat to his palms. After a few seconds of moving it within his palm, it turns into Indigo. "Soluble Indigo is yellow-green. When it is oxidised, it drops off hydrogen to take oxygen, turning blue."

Although the colour is in vogue now, it has taken over a century to shed the shades of red that it had taken on during the Indigo revolt against the British rule, when farmers were forcibly made to cultivate Indigo. Planters reportedly pald them a meagre 2.5% of the market price, driving them into poverty and starvation. A commission was eventually set up to ascertain the conditions under which the dye was produced. EW L. Tower, in the committee's report that followed, noted that "not a chest of Indigo reached England without being stained with human blood"

From 1896-1897, about 16,88,900 acres of land were under indigo cultivation in

India. The British East India company exported about 19,000 tonnes of indigo from India. However, production virtually ceased in the 1920s.

From fields of green, a mystic blue

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From the green fields of Villupuram, where about 400 acres of Indigofera tinctoria are cultivated, come most of the country's natural Indigo. Its humid climate makes the Indigo cultivated here one of the best in terms of quality, while the unavailability of water makes it the best option for farmers. "It is usually sown in November and harvested in February, Irrigation is only required once in 20 days. Moreover, the second crop can be harvested in just 50 days and you can grow up to four crops a year," said Anbalagan, a fourth generation Indigo farmer.

Muthusamy, another farmer in Tindivanam, who had recently taken to Indigo cultivation, said he had no regrets with the decision to grow indigo, making a profit of around \$15,000 a crop.

The fresh leaves of Indigo are steeped in water for 18 hours, pressed before oxidising the bluish green water that is left behind until it turns deep blue. This process again, as simple as it may sound, is fraught with challenges. Said Balachander A of Tindivanam, "You must know exactly when to stop the oxidation process that takes an average of two hours. Understanding only comes with time." According to Balachander, though the crops are sourced from the same region, the time of oxidation varies from crop to crop. "If the oxidation process is extended by even half an hour, 90 per cent of the batch would be lost," he explains.

This used to be the primary challeng for Indigo manufacturers until the SS was introduced. From being completel exempted from tax under the 'herbal category, natural Indigo is now taxed at 18, per cent. "If has also eliminated smaller players, because procuring from the may lead us to trouble." said

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Balachander and son Albalagan, who cultivate and export Indigo, at Tindivanam | S PATTABIRAN