

LeEco

16MP / 8MP CAMERA

3 GB RAM / 32 GB ROM

CATCH THE FLASH SALE ON JULY 12 AT 12 PM

LeMall.com

LeEco



11:00

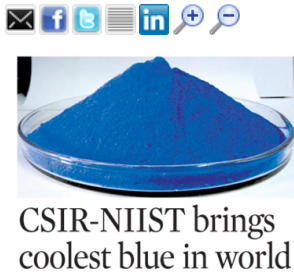
Without Compromise

CATCH THE FLASH SALE ON 12 JULY AT 12 PM

₹ 11,999/-

LeMall.com

REGISTER NOW



CSIR-NIIST brings coolest blue in world

ARCHANA RAVI | DC THIRUVANANTHAPURAM, JULY 9

A blue pigment developed at CSIR-NIIST Thiruvananthapuram could be the coolest blue in the world. The scientists behind the project say that its average IR reflectance is 80 percent. "If you coat it on the roof and outer walls, it can bring down the room temperature by 5 degrees Celsius," says M.L.F. Reddy, who conceived the project.

The project is relevant now after Kerala experienced one of its hottest summers. Globally, scientists have been working on various climate change products, including future buildings for a hotter earth. S. Ananthakumar, who was part of the team, brings out charts and tables to explain how big the 'cool paint' market is. "Now, cool roof market is worth \$430-470 million. By 2020, it is expected to grow by \$750 million," he says.

And to think that the scientists never set out to make a cool blue pigment. In 2012, the objective of the project was to simply develop a non-toxic pigment from Rare Earths as part of a CSIR programme.

The invention is compatible with paints, cement surfaces and plastics, and is certain to bring down air-conditioner bills, he says.

The blue, according to the scientists, which can be considered as a competition to this one is cobalt

blue. "Blue and green are in great demand. There are organic blue pigments, but these pose various environmental problems. The other intense blue, cobalt blue, is durable but toxic," says Mr. Reddy.

Moreover, the cost of a kilogram of cobalt blue ranges from Rs 1200 to Rs 1500, while the cost of NIIST blue would be between Rs 300 and Rs 400/kg, they say. The IR reflectance of Co-Blue is a mere 29-30 percent.

Recently there were many reports about a blue pigment, accidentally discovered by scientists at Oregon State University being a very cool blue. The pigment, according to their press release, only has an IR reflectance of around 40 percent. Moreover, a lion's share of its composition is the steeply expensive indium.

Many companies have been lining up to join hands with CSIR-NIIST for the blue pigment. The Shepherd Color Company in the US and Corabecor India signed an MoU with CSIR-NIIST in 2015 and 2014 respectively.

viewed-5 | [Back](#) | [Home](#)

IFFCO TOKIO MOTOR INSURANCE

YOU DRIVE. I INSURE.

- NEW VEHICLE REPLACEMENT
- 2500+ CAS GARAGES ALL INDIA
- INSTANT ONLINE PURCHASE & RENEWAL
- NCB PROTECTION

IRDA Regn. No.106

IFFCO TOKIO General Insurance Co. Ltd.

Disclaimer: Insurance is the subject matter of solicitation.

ADMISSIONS OPEN FOR 2016-17

UGC APPROVED PROGRAMS

MBA | BBA | MCA | BCA and more...

APPLY NOW

[Home](#) [Asian Age](#) [Andhrabhoomi](#) [Financial Chronicle](#) [About Us](#) [Book Classifieds](#) [Contact Us](#)

Copyright © 2015 Deccan Chronicle. All rights reserved. For reprint rights: Deccan Chronicle Service