



Central Library

Amaravati Campus

Table of Contents (ToC)

February 2024

PC Quest

Vol.37 Issue.02

Table of Contents

40 Wearables p30	EXPLORE		Dell Premier Collaboration KM900 Keyboard and Mouse MS900 p73
COVER STORY FINTECH			
p10 Unleashing FinTech's potential in the crypto revolution	p14 Impact of cryptocurrencies on cross-border transactions	p17 Unleashing the full potential of FinTech	
p20 Exploring innovations, scalability, and trust in the financial world	p23 Exploring frontiers in DeFi, microloans & AI-driven decision making		
p25 Unlocking blockchain's potential in digital asset management & DeFi lending	p28 A safer and better future for financial transactions		
GENAI		GAMING	
p32 How startups can leverage GenAI to reshape businesses		p36 Exciting video games to look forward to in 2024	
DATA CENTRE	DATA & ANALYTICS	ARTIFICIAL INTELLIGENCE	
p40 Data centres in India: Powering the digital revolution	p44 Top trends that will redefine data & analytics in 2024	p48 A deep dive into AI ethics	
AI CHIPS	ASSISTIVE TECHNOLOGY	CYBERSECURITY	
p52 Challenges and innovations in AI chip architecture	p56 Leveraging cutting-edge tech for financial inclusion	p59 Revolutionizing internet safety for children	
CYBERSECURITY	CES	REVIEW	REVIEW
p61 How to use AI tools securely	p63 CES 2024 unveils tech odyssey	p71 NU Ultra HD (4K) Smart TV (LED43UWA1)	p72 Logitech Wave Keys (Ergo Series)
<small>prquest.com twitter.com/prquest facebook.com/prquest linkedin.com/company/prquest instagram.com/prquest</small>			
<small>FEBRUARY 2024</small>			<small>PCQUEST</small>
			<small>5</small>

FRONTLINE

Vol. 41 No.02

Table of Contents

FRONTLINE

Volume 41 – Number 2 – January 27–February 09, 2024 – ISSN 0970-1710 – www.frontline.thehindu.com – 116 pages



COVER STORY

The idea of Ram, the idea of India

18/ Those who have made Ram a mascot for a certain kind of politics would do well to reflect what their acts do to the *maryada* of an inclusive, democratic republic and the compassionate, just society that India aspires to be.

RELATED STORIES

- 26/ New avatar for an ancient city
- 32/ Gods of a single shade
- 34/ Temple in numbers
- 36/ Project Temple
- 42/ The infantilisation of Hinduism
- 44/ Why the centre cannot hold

Cover imaging: R. Ibband
Cover photo: P.S.
Cartoonist: Satish Acharya

WORLD AFFAIRS

- 70/ Maldives: More twists in the tale
- 72/ Africa: Second scramble for independence

ENVIRONMENT

- 82/ My uncle, the tiger

TRIBUTE

- 86/ Remembering Ustad Rashid Khan

PHOTO ESSAY

- 89/ Journey of love

BOOKS

- 96/ Essays: Revisiting Sivakamiyati Sabatham
- 100/ In review



- 08/ The Fortnight

COLUMN

- 49/ Saba Naqvi
- 68/ C.P. Chandrasekhar
- 94/ Prathyush Parasuraman
- 06/ Letters
- 111/ On our bookshelf
- 112/ Staying in
- 113/ Stepping out
- 114/ Back Page

CORRUPTION

- 51/ PDS scam in West Bengal
- 54/ A 'Vyapam' in Maharashtra

ECONOMY

- 58/ Trade standstill in Kashmir

LEGAL ISSUES

- 62/ Maharashtra Speaker decision on thin ice
- 65/ Course correction in Bilkeesha case

The Special Focus article on pages 10 to 17 is a sponsored feature by the Andhra Pradesh government and is not a part of Frontline's regular editorial content.

Science Reporter

Vol.61 No.02

Table of Contents

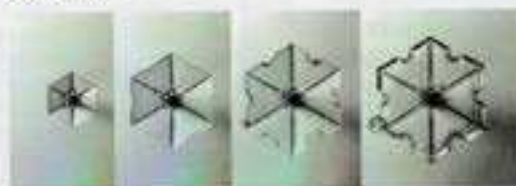


EDITORIAL

ISRO's Aditya-L1 <i>Reaches its Destination</i> Ranjana Aggarwal	9
---	---

FEATURES

Snowflakes: A Symphony of Nature's Design Ajal Chawla	26
---	----



Bodh to Bodhodaya <i>A Transformation towards Sustainable Nation</i> Sushovan Ghosh	30
--	----

Science Diplomacy: A New Paradigm in the Post-truth world Felix Bast	32
--	----

LOVE: Unravelling the Biochemistry behind it Soumik Goswami	36
---	----

Intelligence — Myths and Measures Govind Bhattacharjee	40
--	----

Prime Editing: Towards more Precise, Targeted Genome Editing Sheel Yadav, Laxmi Sharma & Shashi Meena	46
---	----

INDIAN S&T BREAKTHROUGHS

National Quantum Mission SMCC, CSIR-NIScPR	34
--	----

REPORT

10th Anniversary of Heidelberg Laureate Forum HS Fatesingh & RC Parida	48
---	----

SCIENCE FICTION

Bounty Aryan Menon	52
------------------------------	----

Spectrum	10
Nature's Marvels	54
What's New	56
Test Your Knowledge	58
Puzzle Corner	60
Science Cartoons	62

Voice & Data

Vol.31 No.02

Table of Contents

VOICE & DATA
CONNECTING THE DIGITAL WORLD
Website: www.voicendata.com

EDITORIAL
CONSULTING GROUP EDITOR: Ibrahim Ahmad
MARKETING EDITOR: Thomas George
EDITOR: Shubhendu Pathy
CONSULTING EDITOR: Pradeep Chaturvedi
CONTRIBUTING EDITOR: Prabina Rajaguru
ASSOCIATE EDITOR (India): Sayyid Ras
ASSOCIATE EDITOR: Anshu Purohit
CONTENT EXECUTIVE (India): Anshu Singh
SUB EDITOR: Manvika Sharma
SR. MANAGER DESIGN & COVER DESIGN: Vije Chand

VICE PRESIDENT RESEARCH: Anil Chigra
MANAGER CYBERMEDIA LABS: Ashu & Parvati

BUSINESS
SR VICE PRESIDENT: Ravish Sarge
ASSOCIATE VICE PRESIDENT (India): Harshita Singh
GENERAL MANAGER: Vikas Mangra (North, East)
SR MANAGER: Sushil Arora (North, East)
SR MANAGER: Subhrajit Sen (South, West)

MARKETING & ALLIANCES
SR VICE PRESIDENT: Ravish Sarge
SR MANAGER - MARKETING: Raju Pathak

EVENTS, OPERATIONS & COMMERCIALS
GENERAL MANAGER: CP Kato
SR MANAGER MIB & DATABASE: Ravi Kant Kumar
MANAGER COMMERCIALS & ADVERT: Ashu Kumar

CIRCULATION & SUBSCRIPTIONS
HEAD: Ravish Sarge
SR MANAGER: C Ramachandhar
MANAGER - AUDIENCE SERVICES: Anshu Sharma
EXECUTIVE - AUDIENCE SERVICES: Anshu Thekar
PRESS COORDINATOR: Rakesh Kumar Gupta

OUR OFFICES
BANGALORE (CORPORATE OFFICE)
Cyber Media
B-30 Sector-22, Gurgaon, Haryana - 122 002
Tel: 8124 - 482222 Fax: 8124 - 238884

BANGALORE
200-207, 2nd Stage, 3rd Cross (Opposite BEARINGS Ground)
75, St John's Road, Bangalore - 560 042
Tel: +91 (80) 4341 2000, Fax: +91 (80) 2565 7671

MUMBAI
182 Inner, Office No. 205, Bandra Kurla Complex Road
Block BKC, Bandra East, Mumbai - 400051
Mobile: +91 9884242224

INTERNATIONAL
Raven International Media
Precision, 1850, South Bascom Avenue, San Jose,
Campbell, CA95008, USA
Tel: +1-408-475-9999, Fax: +1-408-475-8000

VoicesData is printed and published by Pradeep Gupta on behalf of
Cyber Media (India) Ltd, D-71, Panchsheel Enclave, New Delhi- 110 017,
and printed by Sun at M/s Aravind Printers, D-127, Okhla Industrial
Area, Phase I, New Delhi- 110025. Editor: Shubhendu Pathy

For Subscription queries contact subscriptions@cybermedia.co.in

All Payments bearing: CYBER MEDIA (INDIA) LTD
Distributors in India: BH Books & Magazines Dist. Pvt. Ltd, Mumbai.
All rights reserved. No part of this publication may be reproduced by any
means without prior written permission from the publisher.
Corporate Website: www.cybermedia.co.in
www.vd.com (India's #1 IT Portal)

February 2024
[CONTENTS



26 COVER STORY

5 HOT SATCOM STARTUPS IN INDIA

4 | VOICE&DATA | February 2024 | A CyberMedia Publication

www.voicendata.com

INDUSTRY SPEAK

- 08 Powering inclusive growth through technology
- 10 Unlocking the potential of AI in business communications

FOCUS

- 32 Cloud and its two new Musketeers

GUEST COLUMN



- 62 The underbelly of digital financial transactions
By Vaibhav Koul

REPORT

- 58 The dark, murky rise of UPI scams
- 66 Regulatory indecision hampering mobile gaming ad revenue?
- 70 Telecom, technology downturn hits IT service providers

TELECOM TALK



- 12 Making advancements in interference-free spectrum coexistence
Lt Gen Dr S P Kochhar

NEWS ANALYSIS

- 17 Telecom turmoil: Govt forecasts 30% surge in revenue receipt
- 20 A game-changer in India's OTT landscape

BROADBAND BYTES



- 22 Driving home the gigabit economy dream
TV Ramachandran

TECHNOLOGY

- 38 The evolving transformation catalyst

INTERVIEW



- 42 "5G-FWA will open up the road to monetisation for telcos"
Jayanta Dey



- 46 "The edge market will likely surpass the cloud market in size"
Krishna Rangasayee



- 52 "IoT and AI are integral to the evolution of telecom services"
Vikram Puranik

OFFBEAT

- 73 Batt(l)ing for the future of telecom

REGULARS

- 07 Opening Note

Digit

Vol.24 No.02

Table of Contents

digit.in

FEBRUARY 2024
VOLUME 24 • ISSUE 02



EDITORIAL

Editor-in-Chief **Soham Raninga**
Executive Editor **Jayesh Shinde**
Managing Editor **Mithun Mohandas**
Deputy Features Editor **Satvik Pandey**
News Writer **Mustafa Khan, Agnishi Jain**
Undercover Writer & Gadget Freak Agent 001
Chief Complainer & Proud Peeweeist **Bao-Man**



TEST CENTRE

Head of Test Centre **Mithun Mohandas**
Assistant Editor **Dheer Datta, Garab Manseer Ali**
Senior Reviewer - Gaming Laptops &
PC Peripherals **Manish Rajesh**
Senior Reviewer - Laptops **Yatresh Dubey**



BRAND

Vice President **Soham Raninga**
Editor - Special Projects **Deepak Singh**
Brand Manager **Shambhavi Sinha**



DESIGN

Associate Art Director **Balaji NV**
Sr. UI/UX Designer **Nikhil Wahal**
Sr. Designer **Vijay Rai**



VIDEO

General Manager - Video Solutions **Apurva Chaudhary**
Sr. Producer **Sunil Sharma**
Asst. Editor - Digit Hindi Videos **Krishna Sharma**
Sr. Cameraman **Rajishkare Bartha**
Sr. Video Editor **Ganesh Bhatt, Sunil Kumar**
Senior Multimedia Producer **Prakrit Shendiyal**
Multimedia Producer & Director of
Photography (DOP) **Ali Akbar Merchant**



PRODUCTION AND LOGISTICS

Sr. Manager - Production **Rakesh Upadhyay**
Sr. Manager - Operations **Mahendra Kumar Singh**



MARKET DEVELOPMENT

Head - Market Development **Samir Mehta**
Sr. Managers - Market Development
Jagantha Bhattacharyya, Norbert Joseph
Sr. Executive - Market Development **Sandeep Bhandari,**
Sampath Kumar, Nadeem Ansari



READER SERVICES

Sr. Executive - Reader Services **Sudhir Patel,**
Nilesh Shirvodekar, Narendra Benarash
+91-22-6789678 / help@digit.in



TO ADVERTISE

EMAIL: sales@digit.in

NATIONAL SALES HEAD: **Sanjeev Choudhary**
Email: sanjeev.choudhary@96019.in

EAST & WEST: **Suvarna Shringarpure**
Mobile: +91-93249 28247

SOUTH: **Sunny Shaw**
Mobile: +91-77952 37768



PRODUCTS REVIEWED THIS MONTH

NVIDIA GeForce RTX 4070 Super
Google Pixel 8 | OnePlus Buds 3
OnePlus Watch Pro | Jabra Elite 8 Active | POCO
X6 Pro 5G | JBL Tour One M2 | MSI Raider
GE78 HX | Redmi Note 13 Pro+ 5G
Acer Nitro 5 AN515-58 (2023)
Redmi 13C 5G | iQOO 12 5G | OnePlus 12R



ADVERTISER INDEX

Brand Page No.
TP-Link Inside front cover
ASUS Back cover
Micron Inside back cover
ASUS 15



Cover Design:
Nikhil Wahal



HELP!

For copy-related issues, delivery status or any other complaints regarding our service, write to help@digit.in or call +91-22-678 99 678



SUBSCRIBE

Subscribe to India's #1 Technology Magazine, and save money. Visit www.digit.in/subscribe or email us at help@digit.in



PRODUCT TESTING

Want your product reviewed? Contact our Test Center at testcenter@digit.in or call +91-22-678 99 708



NEWS & PRODUCT LAUNCHES

Send the latest launch news and press releases about your product to pressrelease@digit.in



ENDORSEMENTS / REPRINTS

Want to order article or book reprints, or use our logos? Get the requisite permissions by contacting us at reprint@digit.in



CAREERS

Want to work for Digit? Send us your resume to careers@digit.in

DISCLAIMER

For every Digit contest, there will be only one winner, unless specified otherwise. In the event of a dispute, the Editor's decision shall be final.

"We do not endorse or recommend any product or service advertised in the magazine, as we hold no control over advertisements. The advertisement's in this magazine are for information purposes only. We do not, expressly or impliedly, warrant or assume any liability or responsibility for the quality, accuracy, completeness, legality, reliability, usefulness or claims of any product or service advertised in the magazine. Our readers are strongly advised to carry out their own independent assessment of any product or services advertised in the magazine."

Published and printed by Vikas Gupta for and on behalf of the owners, 99 Group Private Limited. Published at 121, Patparganj, Major Vihar Phd, Near Mandir Masjid, Delhi-110091 and printed by him at International Print-o-Pac.

Editor: **Vikas Gupta**

Digit Fast Track

Vol.19 No.02

Table of Contents

CHAPTERS

CANVA
FEBRUARY 2024



- 05 Introduction to Canva**
Learn the ropes and get a basic understanding of this powerful design tool
- 10 Fundamentals of Design with Canva**
Mastering Canva's design fundamentals for impactful, personalised visuals
- 14 Creating Content for Various Needs**
Creating diverse, effective content for social media, events, and more
- 18 Using Canva's Advanced Features**
Master advanced Canva features for dynamic designs and cohesive branding strategies
- 23 Leverage Canva's Asset Library**
Mastering Canva's asset library and licensing for impactful, legally compliant designs
- 27 Canva's Integrations and Add-Ons**
Maximising design efficiency with Canva's social media, mobile app, and cloud integrations

CREDITS

The people behind this book

EDITORIAL

Editor-in-Chief
Soham Raninga

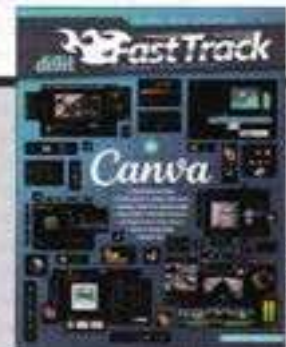
Executive Editor
Jayesh Shinde

Managing Editor
Mithun Mohandas

Deputy Features Editor
and Copy Editor
Sahvik Pandey

DESIGN

Associate Art Director
Bajju NV



© 9.9 Group Pvt. Ltd.

Published and printed by Vikas Gupta for and on behalf of the owners, 9.9 Group Private Limited (formerly known as Nine Dot Nine Mediawork Private Limited) and printed by him at International Print-o-Pac.

No part of this book may be reproduced, stored, or transmitted in any form or by any means without the prior written permission of the publisher.

February 2024

Free with Digit. If you have paid to buy this Fast Track from any source other than 9.9 Group Pvt. Ltd., please write to editors@digit.in with details.

Custom publishing

If you want us to create a customised Fast Track for you in order to demystify technology for your community, employees or students, contact editors@digit.in.

www.digit.in | February 2024 | FastTrack

FRONTLINE

Vol.41 No.03

Table of Contents

FRONTLINE

Volume 41 – Number 3 – February 10-23, 2024 – ISSN 0970-3710 – www.frontline.thehindu.com – 116 pages



COVER STORY

On a propaganda blitz in Tamil Nadu

16/ Unable to crack the code to conquer Tamil Nadu, the BJP's immediate objective is to unseat the AIADMK and emerge as the main rival to the ruling DMK, for which it is deploying a mix of fake news, shrill propaganda, and big money.

RELATED STORIES

- 20/ Puducherry, the port of entry
- 22/ Saffron strides in Kerala
- 26/ Inching ahead in Telangana
- 30/ Flooding along in Andhra Pradesh
- 32/ Karnataka, the southern outlier
- 36/ How the south endures

POLITICS

- 42/ Bihar's revolving door
- 46/ West Bengal: Mamata goes solo
- 49/ Yatras that made history
- 54/ AAP: Fighting and firefighting

CONTROVERSY

- 58/ FCRA heat on NGOs

UNION BUDGET

- 62/ Economy growing, but not inclusive

WORLD AFFAIRS

- 68/ India-Myanmar: Tension over border fencing
- 74/ Iran's IRGC and a Quds force to reckon with

RELIGION

- 79/ Hinduism at a crossroads

CAMPAIGNS

- 85/ Lessons from the "rolling pie" campaigns

BOOKS

- 96/ Essays: Late efflorescence
- 100/ In review

- 08/ The Forenight

SHORT STORY

- 109/ The Verdict

COLUMN

- 40/ Saba Naqvi
- 66/ C.P. Chandrasekhar
- 94/ Prathyush Parasuraman

- 06/ Letters

- 108/ On our bookshelf

- 112/ Staying in

- 113/ Stepping out

- 114/ Back Page

Cover Design: R. Inbaraj
Cartoonist: Satish Acharya

FEBRUARY 21, 2024

Down to Earth

Vol. 32 No.19

Table of Contents

DownToEarth

Founded in 1992 to dem you with knowledge
critical to shaping a better world

FOUNDER EDITOR Anil Agarwal

EDITOR Sunil Sharma

MANAGING EDITOR Richard Mahapatra

CHIEF COPY EDITOR Srinidhi Das

ASSOCIATE EDITORS Adhya Misra, Rajit Sengupta

SENIOR CREATIVE DIRECTOR Ajit Bora

SUPPLEMENT EDITOR Souptika Banerjee

CHIEF CARTOONIST Smit Gupta

REPORTING TEAM Shagun, Anshu Sangamita,
Pushkaraj, Rohan Khatrasamruti, Zumbish,
Seema Prasad, Nirmalendu N

SUB EDITOR Dakshini Palcha

WEB EDITORS Rajat Ghai, Prachi Banerjee,
Nandini Banerji

DESIGN TEAM Chaitanya Chandra (Art Editor),
Dhru Bhatia (Assistant Art Editor), Anshu Sehgal
(Senior Designer), Jagendra Anand (Illustrator),
Shri Kishor

PHOTO EDITOR Vikas Choudhary

PRODUCTION Sakshi Shivastava, Gauri Das

TECH SUPPORT Rajendra Bawar, Jasvir Sharma

MULTIMEDIA Joel Michael, Sunny Goutam,
Madhu Vijayar, Shreyas K.A, Prabhakar Kumar,
Divya Poojari

INFORMATION AND RESEARCH SUPPORT
Kiran Pandey, Susan Chacko, Madhumita Paul,
Sheela Nair, Lata Maruya, Dayanidhi Mehra

CONSULTING EDITORS Arunima Raychowdhury,
Vishal Vardhman

Vol 32, No 19, Total No of Pages: 60

Editorial, subscriptions and advertisements:
Society for Environment Communications,
B1, Sigra Road Institutional Area, New Delhi 110062.

Phone: 91-11-4616000/24950134,
24950110, 24950204, 24950299. Fax: 91-11-26050879.
Email: editor@downtoearth.org.in

© 2004 Society for Environment Communications.
All rights reserved throughout the world. Reproduction
in any manner is prohibited. Printed and published by
Richard Mahapatra on behalf of Society for Environment
Communications, Printed in India and Price in the
United States: \$204.200. Delhi Institutional Area, Phase
New Delhi 110002 India and published at
B1, Sigra Road Institutional Area, New Delhi 110062.

To subscribe, send the Subscriber to \$60/70
or visit www.downtoearth.org.in/subscribe

FOR ADVERTISEMENTS: Anil Ghosh
agnosh@downtoearth.org

FOR SUBSCRIPTIONS:
K.C.R. Bose, rbose@downtoearth.org



SLUMMING IT

Cover design: Ajit Bora

Down To Earth does not endorse the content of advertisements printed in the magazine. All disputes are
subject to the exclusive jurisdiction of competent courts and forums in Delhi/New Delhi only.

COVER STORY

24

India's long tryst
with slum
redevelopment
and the lessons
for future

11

Digest
India to wind up its 199 District
Agriculture Units by March this year

16

Species under threat
Deterioration in the conservation
status of migratory species

20

Interim budget
Which sector received what, and how
that compares to last year's allocations

44

Factsheet
India among top countries
hit by a growing cancer burden



46

Patently absurd
Jagad helps developing nations
access affordable technology

58

Civil Lines
New multidimensional poverty
index skips income as indicator

Contents

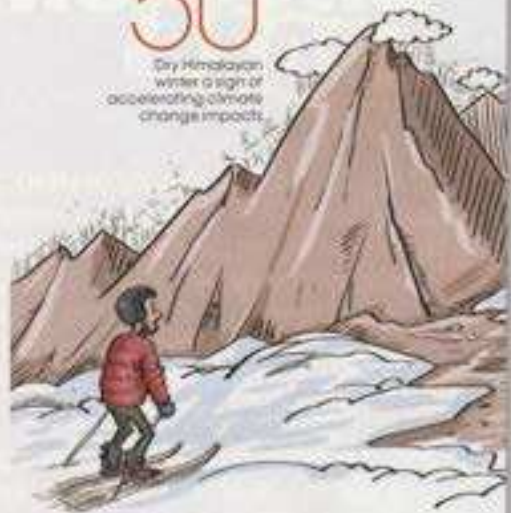


African nations defaulting on loans used for developing climate-resilient infrastructure

42

50

Dry Himalayan winter a sign of accelerating climate change impacts

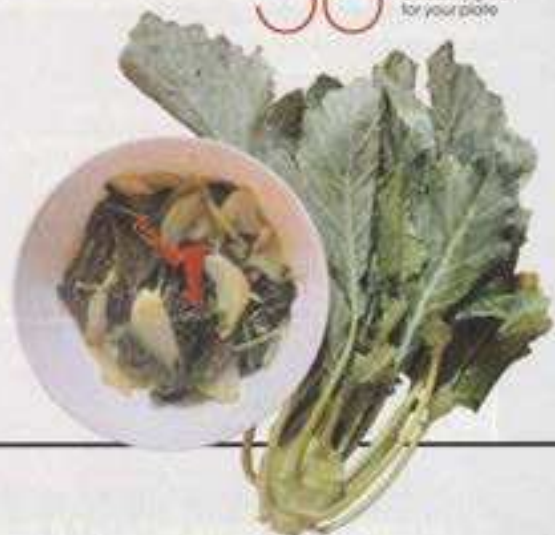


52

The Quest for Modern Assam is an encyclopedia on the state's history, identity struggle

56

The little used kohlrabi can be a healthy green for your plate



Education World

Vol. XXV No.02

Table of Contents

Content	
52 WHAT'S WRONG WITH K-12 EDUCATION & HOW TO RIGHT IT To harness India's demographic dividend – 500 million children and youth below age 34 – it is critical that we identify weaknesses in our K-12 system and fix them pronto. An overview of the deep-rooted problems of Indian school education with some remedial solutions	
26 EDUCATION NEWS Delhi: Desam picture Maharashtra: Discriminatory recognition West Bengal: Reckless neglect Karnataka: Coaching industry curbs	
 42 FROM MOSQUE TO TEMPLE: AN INDIAN TRAGEDY The consecration of the Ram temple was presided by the prime minister himself like a medieval priest before an audience comprising the country's who's who. It was a collective takedown of India's precious secular ethos – Rajiv Desai	
74 EW GRAND JURY INDIA PRESCHOOL RANKINGS 2023-24 Introduced in 2018, the Education World Grand Jury India Preschool Rankings felicitate pre-primaries that have introduced contemporary pedagogies and practices in early childhood care and education	
40 THE FUTURE OF WORK 2024 is promising in terms of work-life balance, greater workplace diversity, incremental adoption of artificial intelligence and climate change practices. This trend is likely to continue – Rajesh Mehta & V. Badri-Paul	72
64 INTERNATIONAL NEWS Letter from America: Dr. Larry Arn USA: Academic crucifixion France: Discriminatory legislation China: Accommodation squeeze South Korea: Internationalisation drive Canada: Medium of instruction tax	
40 YOUNG ACHIEVERS Aryan Rajvarishi Haazik Kaizl	
IN THIS ISSUE	
Editorial 22	International News 64
Mailbox 34	Teacher-2-Teacher 72
Education News 26	Preschool Grand Jury Rankings 74
Education Notes 36	Books 86
Education Briefs 38	Postscript 92
Young Achievers 40	Schools of Eminence
Expert Comment 42	Rise Belts Model School, Sector 4, Gurugram 14
Cover Story 52	The DN Wisdom Tree Global School, Bhubaneswar 44

Competition Success Review

Vol. LX No.08

Table of Contents

<p>Your favourite magazine is now available in Digital Version also. Simply login to www.competitionreview.in and access the CSR eMagazine.</p>	<p>Vol. LX No. 8 C/S/R February 2024 Pages 204</p>
<p>Founder & Editor S. K. Sothaler Managing Director Vandana Badhwar Director Sales Vijay Lakshmi Executive Publisher Vivek Badhwar Editorial Office Competition Review Pvt. Ltd. 604 Prabhat Kian, Rajendra Place, New Delhi-110125 Phone : 011-25761006, 45113300 Advertisements Department Mobile : 7827946708, 7827946709 E-mail : csr@competitionreview.in Circulation & Subscription Department Phone : 011-45113312 (Circulation) 011-45113305 (Subscription) E-mail : orders@competitionreview.in</p>	<p>EDITORIAL Every Day Can Be A Starting Point. Make A New Beginning ...6 LOOKING BACK 2021-LOOKING AHEAD Top Newsmakers 2021 ...8, 10 & 12 India 2023 ...13; World 2023 ...14 India 2023 : The Year Of National Pride ...19 The World 2023 : A Trying Year ...173 Looking Ahead To 2024 : The Hopes & Trends ...178 ANALYSIS OF CURRENT ISSUES India's Criminal Justice System Overhauled ...15 SC Verdict On Article 370 : Revocation Of J&K's Special Status Validated ...16 BURNING TOPICS CURRENT EVENTS OF NATIONAL & INTERNATIONAL IMPORTANCE India ...24; The World ...30 Indian Economy ...183 Persons In News ...202 CIVIL SERVICES SPECIAL Demand-side Strategies To Boost Employment In India ...35 —Prof. V.P. Gupta, Rau's IAS Study Circle IAS Topper 2022-23 Talks To You —Ms. Swati Sharma, 15th Rank ...194 LATEST MOCK TESTS FROM INDIA'S TOP INSTITUTES Rau's IAS Study Circle ...87; ForumIAS ...99 KingMakers IAS Academy ...109 SPECIAL CSR EXCLUSIVE Super Success In Interviews Actual CSE Interviews Reproduced Verbatim By IAS Toppers Of The Last Few Years ...43 GROUP DISCUSSION Can We Deal With The Climate Crisis? —By Wing Commander Dinesh Mathur ...37 SUCCESS IN INTERVIEWS Facing The Interview Board ...40 EXCELLENCE IN EDUCATION A Must For National Growth & Prosperity ...71 Indian Institutes Of Management (IIMs) ...122 CSR ESSAY CONTESTS Sieve Jobs ...63; Public Speaking ...64 Obesity : Causes And Effects ...66 Nothing Is Impossible ...67 Essays Announcement ...181 SOLVED QUESTION PAPERS 100 Expected Questions OGC ...147 SSC Combined Graduate Level Exam ...151 New India Assurance Admn. Officers' Exam ...156 IBPS Specialist Officers CWE ...165 SPORTS Sports Plus ...196 OTHER FEATURES BBC : Mastermind India ...70 Forthcoming Exams ...189; Wind Power ...190 Improve Your Personality ...191 Golden Globe Awards 2024 ...198 Miss Earth 2023 ...200</p>
<p>Facebook /CSRMagazineOfficial Twitter /csr_csrmagazine</p>	 <p>Top Newsmakers 2021 : p. 8</p>
<p>FOR ONLINE CSR SUBSCRIPTION & BOOKS PURCHASE 1. For online Subscription of CSR & other Magazines and purchase of latest books, please visit www.competitionreview.in 2. Select the desired subscription term/purchase term and fill in address details. 3. Payment : Credit /Debit Card. Start Your Journey To Success Immediately. Email : orders@competitionreview.in CUSTOMER CARE NUMBER : 7827946702</p>	 <p>India : p. 24</p>
	 <p>Miss Earth 2023 : p. 200</p>
	 <p>Latest Mock Tests From India's Top Institutes : p. 85</p>

General Knowledge Today

Vol. LIV No.02

Table of Contents

Your favourite magazine is now available in Digital Version also. Simply login to competitionreview.in and access the GKT eMagazine.

GENERAL KNOWLEDGE TODAY

CONTENTS

Special February 2024 Issue
Pages 176
Vol. LIV No. 2

Founder & Editor
S. K. Sachdeva

Managing Director
Vandana Badhwar


Director Sales
Vijay Lakshmi

Executive Publisher
Vivek Badhwar

Editorial Office
Competition Review Pvt. Ltd.
604 Prabhat Kiran,
Rajendra Place,
New Delhi-110125
Tel. : 011-25761086, 45113300

Advertisement Department
Mobile : 7827946708,
7827946709
Email: csr@competitionreview.in

Circulation & Subscription Departments
Tel. : 011-45113312 (Circulation)
011-45113305 (Subscription)
E-mail : orders@competitionreview.in



48 India's Longest Sea Bridge 'Atal Setu'

CURRENT EVENTS

- 7 National
- 10 International
- 13 Sports
- 14 Honours And Awards
- 15 Science & Technology

55 SPECIAL BOOKLET

CURRENT AFFAIRS & WHO'S WHO

- 17 Junior Essay Contests
- 20 JE Announcement
- 21 News In Cartographs
- 50 National Sports Awards
- 52 News & Knowledge
- 56 India 2023
- 121 World 2023
- 128 Golden Globe Awards
- 131 Persons Appointed
- 135 Newsmakers
- 159 How To Write Correct English
- 164 Forthcoming Exams
- 167 Latest Who's Who
- 172 Miss Earth 2023

Solved Question Papers

- 23 SSC Combined Higher Sec. Level (10+2) Exam
- 31 SSC Multi Tasking Staff Exam
- 33 State Bank of India Clerical Staff Exam
- 141 RRBs Centralised Exams
- 149 IBPS Recruitment Of Clerical Cadre

competition success review

WE ARE ON

Facebook
f /CSRmagazineofficial

Twitter
/csr_csrmagazine

Join us today to get regular updates on exam tips, news, offers and expert opinions.

Yojana

Vol.68 No.02

Table of Contents

FEBRUARY 2024

Volume-68
No. 02

YOJANA
Since 1957 A DEVELOPMENT MONTHLY

Let noble thoughts come to us from all sides.
Rig Veda

LIBRARY

IN THIS ISSUE

6 INDIA'S VISION FOR HARNESSING AI FOR GLOBAL GOOD
Rajeev Chandrasekhar

10 AI IN INDIAN GOVERNANCE AND PUBLIC SERVICES
Abhishek Singh

16 INDIA'S TECH SERVICES INDUSTRY HARNESSING GENERATIVE AI
Debjani Ghosh

21 UNLOCKING THE POTENTIAL AND CHALLENGES OF GENERATIVE AI
Dr Bineet Kaur Maunder

25 USE CASES OF GENERATIVE ARTIFICIAL INTELLIGENCE IN GOVERNANCE
Prof Yogesh K Dwivedi
Prof Arpan Kumar Kar

34 ARTIFICIAL INTELLIGENCE AND FUTURE OF MEDIA
K Sreenivasarao

39 TRANSFORMATIVE ROLE OF AI IN MEDIA
Prof (Dr) Sangeeta Pramvendra

44 ROLE AND SCOPE OF ARTIFICIAL INTELLIGENCE FOR CITIZEN SERVICES
Dr Vishal Singh
Dr Dinesh Prajapati

51 ARTIFICIAL INTELLIGENCE AND THE EASE OF LIFE FOR VISUALLY CHALLENGED
Dr Jithendran S

57 CYBER SECURITY CHALLENGES IN THE ERA OF AI
Vamshi Krishna Palakurthi

NEXT ISSUE
ART & CULTURE

Number of pages: 64
Details of the Sales Outlets of the Publications Division on Page 48

Yojana (English) Room No. 647, Sector 3 Bhawan, CGO Complex, Lodi Road, New Delhi-110 003
E-mail (Editorial): yojanaweb@nic.in

Yojana, a development monthly published since 1957, is a theme-based journal providing in-depth analyses and views on socio-economic issues in the broader framework of government policies. Although published by the Ministry of Information and Broadcasting, Yojana is not restricted to expressing the official point of view.

DISCLAIMER

- The views expressed in various articles are those of the authors and they do not necessarily reflect the views of the Government or the organization(s) they work for.
- Maps/Flags used in the articles are only indicative and they do not reflect the political map or legal representation of the flag of any/other country.
- The infographics/figures are provided by the authors through their related journals and Yojana claims no responsibility for the same.
- Images, graphics and illustrations, wherever used, are mostly sourced from government channels and are indicative in nature.
- Yojana does not bear responsibility regarding the contents of the advertisements. The readers are requested to verify the claims made in the advertisements regarding insurance, career guidance, fitness or investments.
- Yojana does not bear any responsibility towards or private entities/individuals or their studies in any of the articles.

SUBSCRIPTION/GRIEVANCES
Email: pdcur@gmail.com
Phone: 011-24367453
(Monday-Friday, 9:30 am-6:00 pm)

Postal Address: Abhishek Chaturvedi, Editor, Journals Unit, Publications Division, Room No. 179, Sector 3 Bhawan, CGO Complex, Lodi Road, New Delhi-110 003.

Please note that it will take around eight weeks to start your subscription. Kindly raise your queries/grievances about non receipt of the journal only after this period.

SUBSCRIPTION-RELATED DETAILS - Page 41

* The journal is a constituent of Digital India or eGATE, New Delhi. The cover image is digital artwork.

www.publicationsdivision.nic.in @DPD_India | @YojanaJournal @publicationsdivision @dpd_india

Open Source for You

Vol.12 No.04

Table of Contents

CONTENTS

FEBRUARY 2024 | ISSN-2456-4885

FOR U & ME

- 28 "Our open source software enables development and hosting within our customers' data centres"
- 36 Edge Computing: Benefits for Businesses and Users
- 42 The Revolutionary Role of AI in Healthcare
- 48 Rethinking Security: From Costly Obligation to Strategic Investment

FOCUS

- 50 Top 5 NLP Frameworks to Learn in 2024
- 54 The Top 10 PHP Frameworks
- 57 Select These Powerful Platforms for Developing Smart Contracts and Decentralised Applications
- 61 The Best Open Source Tools for DevOps Engineers
- 66 AR, VR, and MR: What's Trending?

DEVELOPERS

- 85 Service Mesh: Managing Inter-Service Communication with Ease

ADMIN

- 90 Common UNIX Commands and Tools that Enhance Security
- 93 Unveiling Terraform: The Infrastructure-as-Code Software Tool
- 97 Getting Started with Istio



16

"Transitioning from an open source model to closed source doesn't work well"

Lathar Karl Becker,
Member And Former Chairman,
The Document Foundation



21

"Books have been an integral part of my life"

Prof. S. Sadagopan
an educator and thought leader



39

Improve Operational Efficiencies with Intelligent Document Processing

REGULAR FEATURES

07 FossBytes

Contents

VOLUME 19, ISSUE 2, FEBRUARY 2024 | PUBLISHED ON FEBRUARY 1, 2024



12

RICH INDIA, POOR INDIA

The historical divide between the affluent western and southern states of India on one side and the lesser developed eastern, central and north-eastern states on the other, has grown wider with selective industrialisation. This rift now threatens the stability of the Indian polity

18

DEMYSTIFYING GROWTH DISPARITY

Rathin Roy, former member of the Prime Minister's Economic Advisory Council, discusses the central arguments in the imbalance in economic development of states. He calls for a political conversation around the need to address unmet demands for access to basic necessities



44

OLA ELECTRIC'S IPO SPARK

For Bhavish Aggarwal, founder of the electric two-wheeler maker, a lot is riding on its proposed IPO, likely to be issued later this year. While the rising interest in the EV revolution may work in its favour, will Aggarwal's failed experiments in the past dampen investor interest?



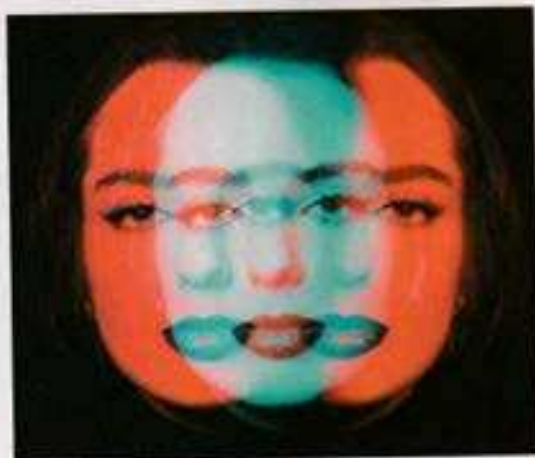
Contents

VOLUME 19, ISSUE 2, FEBRUARY 2024

72

BEYOND THE DARKNESS OF DEEPPFAKES

Deepfake technology has made news mostly for unethical use. However, existing industry use cases, particularly in areas like advertising, political campaigning and education, point to its potential to revolutionise business operations in a positive way



76

LOOSE THREAD IN INDIA'S CBAM STORY

The Indian textile sector finds itself highly unprepared to meet the demands of the EU's stringent Carbon Border Adjustment Mechanism. From compliance challenges and slow governance support to rivals' increasing market share, there is no dearth of challenges for the sector

106

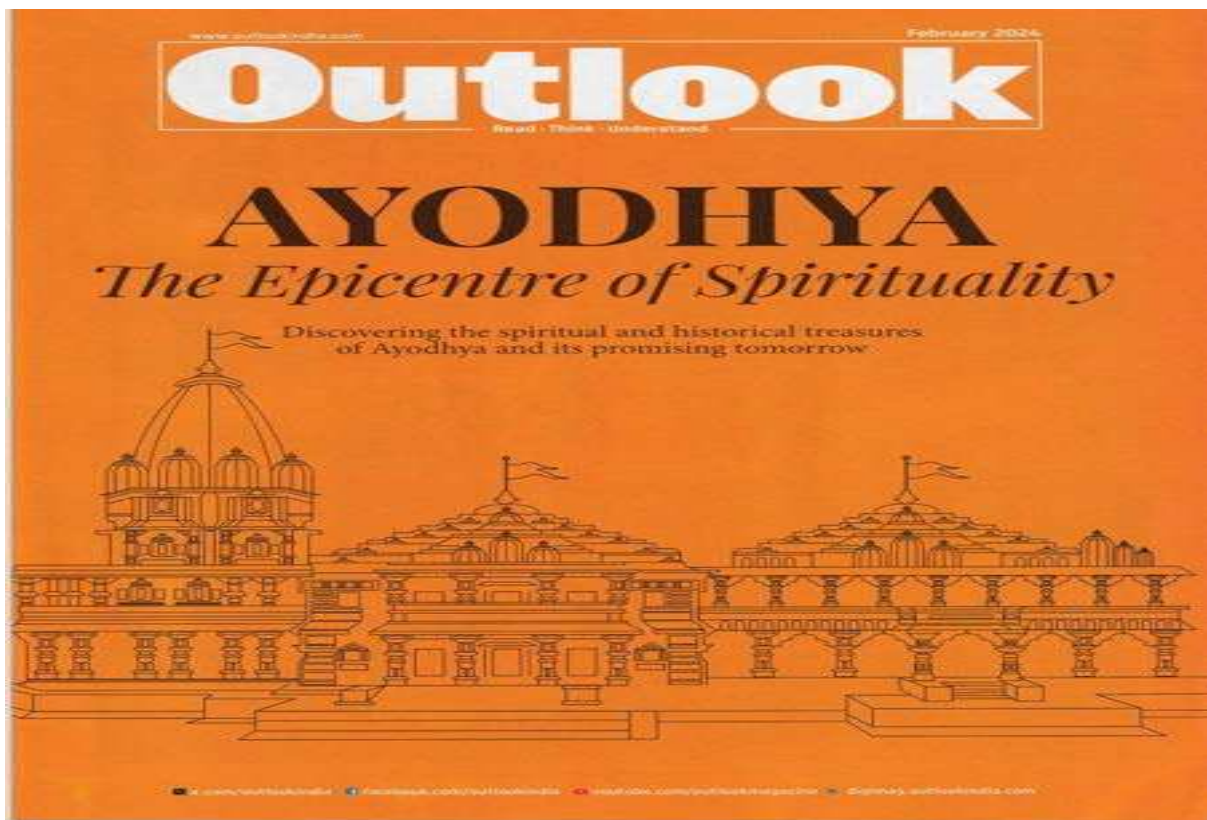
NARAYANA MURTHY'S WIPRO REJECTION

Chitra Banerjee Devakaruni, in her book *An Uncommon Love*, digs out little known facts in the lives of Infosys co-founder Narayana Murthy and his wife Sudha. One such anecdote was the rejection of his job application by Wipro chairman Azim Premji



Outlook Supplementary

Table of Contents



On A Spiritual Sojourn

In the heart of India, where ancient tales intertwine with the present, lies Ayodhya, where the timelessness of the Ramayana still echoes. As you explore this holy destination, immerse yourself in the incredible sights, such as the Ram Mandir and its mandapas, garbhagriha and shikhara.

Descend Ram Ki Paidi's ancient steps to Saryu's embrace and feel the blessings of Nageshwar Nath Temple. Climb Hanuman Garhi's stairs for panoramic vistas, then lose yourself in Kanak Bhawan's royal heritage.

Let your soul be your compass, guided by the winds of ancient wisdom, as you embark on a pilgrimage that transcends mere travel.



CONTENTS

- **A NEW DAWN**
Ayodhya's bright future.
- **"AYODHYA JI"**
A global religious and cultural tourism hub

Outlook Money

Vol.23 No.02

Table of Contents

CONTENTS

FEBRUARY 2024 • VOLUME 23 • ISSUE 2

10 COVER STORY



TAX-SAVING OPTIONS: LOOK FOR THE BEST FIT

There are various tax-saving options available in the market for those who are sticking to the old tax regime. But your best bets are the ones that find a place in your overall financial plan. We have strategies to help you choose the tax regime and the products that are right for you



28
IN THE INTERIM

In keeping with the convention, the Finance Minister announced no changes to the tax slabs or rates. All eyes are now on the upcoming General Elections and the Union Budget that will follow

32
SECTION 80C: HOPING FOR MORE

There isn't much for taxpayers when it comes to Section 80C benefits. For long, the limit has remained fixed at ₹1.5 lakh, writes Nilanjay Dey

36
PUSH FOR INFRA, GREEN ENERGY

The Centre's emphasis on infrastructure, green energy and innovation, including private participation will boost these sectors

34
STATUS QUO: GOVT'S 10-YEAR REPORT CARD

The FM refers to tax reforms such as the new simplified tax regime, filing of updated tax returns, introduction of Form 26AS, profiling of tax returns, and more

42
STAY AWARE OF YOUR RECENCY BIAS

Giving in to recency bias before an event like the Union Budget is speculating. Ask the right questions, writes Larissa Femand

Outlook
MONEY
Retirement



62
DATA EXCHANGE CAN CHANGE DIGITAL GAME

Tapan Singhal, CEO and MD of Bajaj Allianz General Insurance, talks about how digitalisation can benefit customers and save millions of lives

67
HERE'S HOW TO WRITE A WILL

A guide on how you can bequeath your assets smoothly

44

SPECIAL STORY



CAN YOU YOUTUBE YOUR WAY TO REGULAR INCOME?

It's not uncommon to come across individuals aspiring to make YouTube videos and earn a living through them. On the face of it, that may sound simple, but it needs single-minded focus and a lot of effort before it becomes lucrative for you

52
CLM 50 TAX-SAVER FOR THE RISK-AVERSE

We review Kotak ELSS Tax-Saver Direct-Plan

54
INTERVIEW 'INDIA IS ON THE CUSP OF ECONOMIC EXPANSION'

Bharat Shah, executive director, ASK Asset and Wealth Management, sheds light on where India stands in terms of value creation opportunities

58
COLUMN WHAT 2024 HOLDS FOR DEBT MFS

RBI could cut interest rates in 2024 after the US and Euro zone reversals, writes Joydeep Sen

ALSO READ

- 70** REGULATORY UPDATES
- 80** HOMEBUYER'S GUIDE TO GHAZIABAD
- 82** EXPLAINER: OPD INSURANCE

Outlook

Vol.LXIV No.04

Table of Contents

Outlook

Volume LXIV, No. 4

EDITOR Chinki Sinha
MANAGING EDITOR Sabah Padmanabhan
FOREIGN EDITOR Seema Guha
OUTLOOK HINDI EDITOR Girdhar Jha
CREATIVE HEAD Mangreet Romana
DEPUTY PHOTO EDITOR Trishuvan Tiwari
NEWS COORDINATOR Iqbal Abhimanyu

WRITERS Shahina K.K., Hama Deshpande,
Nasir Gani, Tanuj Thakur, Ashwini Sharma,
Rakhi Bose, Abhik Bhattacharya

COPY DESK S.S. Jeevan, Swati Subhadar,
Vineetha Mokil



Outlook issue
January 21, 2024

BUSINESS OFFICE

CHIEF EXECUTIVE OFFICER Indrani Roy
CHIEF STRATEGY OFFICER Suchetana Ray
PUBLISHER Sandip Kumar Ghosh
HEAD OF CONVERGENCE Sayantan Dasgupta
DIRECTOR BRAND & MARKETING Shrutika Dewan
VICE PRESIDENT Diwan Singh Bhoir
SR GENERAL MANAGERS Debabani Tagore,
Shalender Vohra
GENERAL MANAGER Shaohank Dixit
CIRCULATION & SUBSCRIPTION Gagan Kohli
CREDIT CONTROL Manisha Mohra

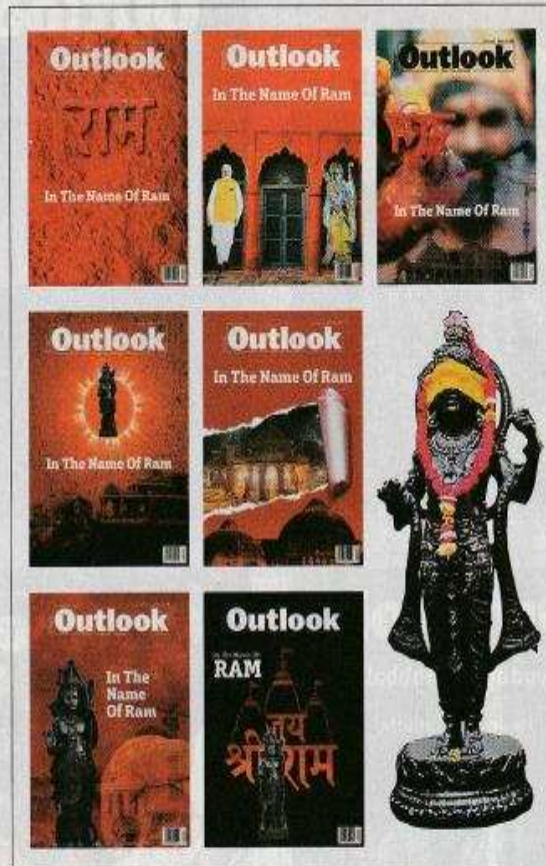
HEAD OFFICE

AB-10, S.J. Enclave, New Delhi - 110 029
Tel: 011-71284000
Customer Care: 011-71280433, 71280462
e-mail: yourhelpline@outlookindia.com

Printed and published by Indrani Roy on
behalf of Outlook Publishing (India) Pvt. Ltd.
Editor: Chinki Sinha. Printed at MP Printers
(A Unit of DB Corp Ltd) B-220, Phase-II,
Noids 201305, Gautam Budh Nagar (UP)
and published from AB-10, S.J. Enclave,
New Delhi-110 029

Published for the period of
January 22-February 1, 2024
Released on January 23, 2024
Total number of pages 76 including covers

< NAVIGATOR >



6 | THE NEW AYODHYA

The city will become more majestic, more developed, but will its residents survive?

16 | THE OTHER VOICES

Muslims in Ayodhya only wish to live in peace

34 | POLITICS OF DIVINITY

The Pran Pratishtha ceremony of Ram's idol in Ayodhya has transformed the political landscape

40 | THE VERSATILE HISTORIES OF AYODHYA...

...sustain the famed Ganga-Jamuni syncretic culture of Awadh



62 | REKINDLING HOPE

The apex court's verdict in the Bilkis Bano case raises hope for a democratic India

64 | A SLICE OF JAPAN

The solid bedrock of a civilisation that is deeply reflective



74 | DIARY

COVER ILLUSTRATION: CHAITANYA RUKUMPUR

Outlook Supplementary (A Guide to Retirement Planning)

Vol. LXIV No.04

Table of Contents

CONTENTS



4

THE NEED FOR RETIREMENT PLANNING

The rise of nuclear families and the average life expectancy highlight the critical importance of proactively planning for retirement

10

MASTER YOUR EXPENSES

Calculate your current and future expenses to ensure your retirement planning process is seamless

14

CALCULATE YOUR RETIREMENT CORPUS

A trustworthy retirement calculator can help you estimate how much you will need in retirement

16

THE INVESTING STRATEGY

Start planning and investing early to unlock the power of compounding

18

THE BUDGETING BUGLE

A budget streamlines short-term finances and aids long-term goals like retirement savings

20

CHOOSE THE RIGHT ANNUITY PLAN

An annuity plan can help you with cash flow after retirement but choose right

22

WHY BUYING HEALTH INSURANCE IS A MUST

Buying a health policy will ensure that health issues do not disrupt your plan

Outlook

Vol. LXIV No.05

Table of Contents

Outlook

Volume LXIV, No. 5

EDITOR: Chitra Saha
MANAGING EDITOR: Soha Mathur
FOREIGN EDITOR: Soha Saha
OUTLOOK HEAD-EDITOR: Gopal Anand
CREATIVE HEAD-EDITOR: Rishabh Kumar
DEPUTY HEAD-EDITOR: Subhrajit Das
NEWS COORDINATOR: Anshu Mishra

WRITERS: Shantanu K.K., Harish Dattagupta, Manoj Ghosh, Tushar, Anshu Sharma, Rishi Prasad, Anshu Bhattacharya

COPY DESK: S.S. Nayak, Shashi Kumar, Anshu Mishra



Outlook issues
February 1, 2024

BUSINESS OFFICE
CHIEF EXECUTIVE OFFICER: Jaanvi Bhat
CHIEF FINANCIAL OFFICER: Surinwasi Rao
PUBLISHER: Jyoti Kumar Ghosh
HEAD OF CORPORATE SERVICES: Sankar Dasgupta
DIRECTOR MARKETING & SALES: Anshu Dasgupta
VICE PRESIDENT: Anshu Singh Bhat
SE GENERAL MANAGER: Subhrajit Dasgupta
GENERAL MANAGER: Jaanvi Bhat
CIRCULATION & SUBSCRIPTION: Jaanvi Bhat
CREATIVE: Anshu Mishra

HEAD OFFICE
A-10, 11, 12, Connaught Place, New Delhi - 110 029
Tel: 011-26100000
Customer Care: 011-26100011, 26100012
e-mail: yourhelp@outlookindia.com

Printed and published by Outlook. For on behalf of Outlook Publishing Limited, Plot 119, Sector-14, Connaught Place, New Delhi-110 029. It has a net of 20 Crp. (2019-20), Phase-II, New Delhi-110 029, India. 2019-20, and published from 11, 12, 13, Connaught Place, New Delhi-110 029.

Published for this period of February 1-15, 2024.
Revised on February 1, 2024.
Total number of pages: 128 including covers.



POINT AND SHARE
Now, open Outlook magazine on your smartphone instantly. Point your phone's scanner on the code and align it in the frame. You will be guided instantly to our website, www.outlookindia.com. This is useful to share our stories on social media or email them.

NAVIGATOR



6 | RECIPE FOR CEASELESS SUCCESS
He is an ideologue who draws his mandate from the promise of hyper-capitalism

12 | 'MODI-FIED' REALITY
He has managed to ace the image game by being all-pervasive, yet remains an elusive political persona

26 | MORPHING AND MORPHOLOGY...
...beyond the Modi Mandapam

38 | TO WIN BEYOND THE VINDHYAS
Voting patterns in Kerala reveal a gradual impact of cultural Hinduism

COVER PAGE: The background image is the pinstripe suit embroidered with the words 'Narendra Damodardas Modi' that the prime minister wore during US President Barack Obama's visit to New Delhi in 2015. Tailored by Ahmedabad-based JadeBlue, the suit reportedly cost about Rs 10 lakh. But when it raised eyebrows, to avoid a political row, it was auctioned and purchased by a Surat-based diamond merchant for more than Rs 4.3 crore. The amount was donated to the Namami Gange programme.

56 | NITISH'S WOBBLING STAND
Does ideology matter at all in contemporary politics?

82 | LAST DAYS OF AYODHYA
A photo essay that captures a changing city and its many hues

114 | DIARY





BHARAT SCHOOLS
Ranking 2023-24
Turn to Page 47



CLOSE THE CARE GAP
WORLD CANCER DAY
Turn to Page 47

OUTLOOKINDIA.COM

FEBRUARY 1, 2024 | OUTLOOK | 3

Outlook

Vol. LXIV No.06

Table of Contents

Outlook

Volume LXIV, No. 6

EDITOR Chinki Sinha
MANAGING EDITOR Sushil Padmanabhan
FOREIGN EDITOR Seema Guha
OUTLOOK HINDI EDITOR Girdhar Jha
CREATIVE HEAD Manpreet Romana
DEPUTY PHOTO EDITOR Tribhuvan Tawari
NEWS COORDINATOR Iqbal Abhinavny

WRITERS Shahina K.K., Haima Deshpande,
Naseer Gani, Tanul Thakur, Ashwini Sharma,
Rakhi Bose, Abhik Bhattacharya

COPY DESK S.S. Jeevan, Swati Subhedar,
Vineetha Mokkil



Outlook issue
February 11, 2024

BUSINESS OFFICE

CHIEF EXECUTIVE OFFICER Indrani Roy
CHIEF STRATEGY OFFICER Suchetana Ray
PUBLISHER Sandip Kumar Ghosh
HEAD OF CONVERGENCE Sayantan Dasgupta
DIRECTOR BRAND & MARKETING Shrutika Dewan
VICE PRESIDENT Dwan Singh Bisht
SR GENERAL MANAGERS Debabani Tagore,
Shalender Vohra
GENERAL MANAGER Shashank Dixit
CIRCULATION & SUBSCRIPTION Gagan Kohli
CREDIT CONTROL Manisha Mishra

HEAD OFFICE

AB-10, S.J. Enclave, New Delhi - 110 029
Tel: 011-72840000

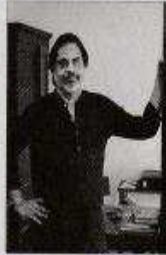
Customer Care: 011-7280433, 7280462
e-mail: yourhelpline@outlookindia.com

Printed and published by Indrani Roy on
behalf of Outlook Publishing (India) Pvt. Ltd.
Editor: Chinki Sinha. Printed at MP Printers
(A Unit of DP Corp Ltd) B-220, Phase-II,
Noida 201305, Gautam Budh Nagar (UP)
and published from AB-10, S.J. Enclave,
New Delhi-110 029

Published for the period of
February 12-21, 2024.

Released on February 11, 2024.
Total number of pages 76 including covers

NAVIGATOR



ON COVER PAGE:
Artwork by
Sudarshan Shetty

"The strange and hilarious coupling of two giant toys evokes the marriage of desire to a system of fetishism—of obsession with things as substitutes for a system of affects connected to love, to childhood games and adult assessments of value. With objects 'surinvested' with desire, the spectator's laughter over this couple recognises a familiar struggle between desire and its extinction, in the comedy of complicity that unites the viewer with these fetish objects."

—Excerpts from the text written by Vyjayanthi Rao for Sudarshan Shetty's show, *Love*, in 2006. (Photograph of artwork by Vinay Mahidhar)



6 | OF ROMANCE AND REVOLUTION

Communists initially created hopes of revolutionising romantic relations, but ended up controlling them



56 | THE MASTERSTROKE

Hemant Soren's strategy has stumped the BJP in Jharkhand

62 | THE GRAND TATYA

Raghunath Khanolkar's rare photographs of his friends, family and famous personalities

INTRODUCTION



12 | SCORCHING SACRED LOVE

Bhakti is not bedtime prayer in some safe enclave of the heart. Love of the divine isn't ornamental. It certainly isn't tame. And it most definitely isn't for the faint of heart



32 | OF WILLS AND WISHES

I wonder what will become of my beloved books and driftwood art after me. Ashutosh Salii



Outlook Traveller

Vol. 24 No.09

Table of Contents

CONTENTS

Outlook
TRAVELLER

FEBRUARY > MARCH

VOLUME 24 → ISSUE 9

EXPLORE

38 / SOULFUL SKYLINES

OT Team
An ode to the most romantic cities around the world

54 / CHANCING UPON THE ONE

Shreya Cheema
Four couples find love on the go

60 / BIG SCREEN ROMANCE

Uttaran Das Gupta
Love and travel as shown on celluloid

66 / LEGENDS OF CHENAB

Haroon Khalid
Tracing the River of Love's path through Punjab's folktales

74 / THE HIDEAWAY

Nivi Shrivastava
How love hotels create a safe space for couples

76 / UNFULFILLED UNIONS

Kishwar Desai
Partition's tales of separation

82 / COURTING THE PAST

Antarna Chatterjee
Revisiting Mandu's heritage steeped in romance

90 / LOVE BEYOND MORTALS

Anand Neelakantan
Lord Shiva as the ultimate embodiment of passion

COMPASS

10 / ZAGREB MUSINGS

Wandering through the Croatian capital

12 / BAGGING A DEAL

The weight of packing heavy

16 / OT PICKS



38

A
FOREVER
TALE

Best of fashion and gadgets

20 / MAN BEHIND THE MASTER

Rahul Mishra on finding inspiration through his travels

24 / AROUND AL SEEF

A journey into Dubai's past

30 / CHASING THE GHOST

In search of the elusive snow leopard in Ladakh



30

CONTENTS

FEBRUARY > MARCH



Wonders of Utah / 110

LIVING

96 / THE NEW INDIAN TRAVELLER

Outlook Toluna Survey: Decoding the responsible Indian traveller

100 / DUBAI BLING

A stay at the Atlantis The Royal

110 / OF PEAKS AND CANYONS

Exploring Utah's natural wonders

114 / A NIGHT TO REMEMBER

The best of Outlook Traveller Awards 2023

122 / OT HALL OF FRAME

READ THESE GREAT STORIES ON OUR WEBSITE

10 sustainable experiences to check out for your next holiday



Offbeat Himalachal: A guide to Kareri Lake Trek

Celestial events to watch out for in February



An all-you-need guide to Omsk



WWW.OUTLOOKTRAVELLER.COM



Kolkata's sweet winter tale of noles guri



Outlook TRAVELLER

EDITOR

SHWETA SHARMA

EXECUTIVE CREATIVE DIRECTOR

SHLOK DAS

ASSISTANT EDITORS

KARTIKA SHARMA

SHREYA CHEDIA

SENIOR FEATURES WRITERS

SATYAJIT CHATTERJEE

SHRADDHA ANAND

JUNIOR FEATURES WRITERS

NOVA KHAN

ANUSHKA GUPTA

INDRANIL

CONSULTING EDITOR

SHUBHANGI SENGUPTA CHAKRABARTI

SOCIAL MEDIA HEAD

SHWETA ANAND

SOCIAL MEDIA EXECUTIVE

NEHA KHAN

DESIGN EDITOR

HARSHVAT KUMAR

DESIGN

SHUBHANGI CHAKRABARTI

ADARSH CHAKRABARTI

SHRADDHA ANAND

ANUSHKA GUPTA

INDRANIL

SHLOK DAS (ILLUSTRATIONS)

SHLOK DAS

Production Office

DEPUTY EXECUTIVE EDITOR

NEHA KHAN

DEPUTY EXECUTIVE EDITOR

SHWETA ANAND

MANAGER

SHWETA ANAND

EDITORIAL & SUBSCRIPTION

SENIOR SENIOR MANAGER

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

SHWETA ANAND

The Global Analyst

Vol. 13 No.02

Table of Contents

CONTENTS		
 <p>30 COVER STORY</p>	<p>12 TECHNOLOGY AI in Finance A Potential Game-Changer</p>  <p>28 VIEWPOINT HPE's Takeover of Juniper Networks Are Cisco's Days at the Top Numbered?</p> 	
<p>7 FEATURES</p> <p>7 TECHNOLOGY TIDBITS</p> 	<p>15 GLOBAL OIL The 'Red Sea' Crisis Where Are Oil Prices Headed?</p> 	<p>38 Q&A/FORWARD-THINKERS' TALKS In Conversation with Francesco Scalabrino Co-Founder and Chief Product Officer, Jet HR, Italy</p>  <p>Ivano Pozzato Francesco Scalabrino</p>
<p>9 FIRST CUT</p> 	<p>19 SPOTLIGHT India Cruising Along</p> 	<p>45 INTERNATIONAL Germany An Economy In Turmoil</p> 
<p>41 BANKING BRIEFS</p> 	<p>23 CLEAN ENERGY India's Renewables Journey The Story So Far</p> 	<p>49 LEADERSHIP The Executive Jumper and Career Immortality</p> 
<p>54 STARTUP XPRESS</p> 		

India Today

Vol. 49 No.07

Table of Contents

INDIA TODAY

www.indiatoday.in

CHIEF MANAGER: ANIL K. CHOPRA, Anand Park, VPO CAMPUS AND EXECUTIVE CENTER IN CHARGE: INDIA TODAY CHIEF EXECUTIVE OFFICER: DEEPA KHOSLA

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

GROUP CIRCULATION OFFICER: ANIL K. CHOPRA, Anand Park, VPO CAMPUS AND EXECUTIVE CENTER IN CHARGE: INDIA TODAY CHIEF EXECUTIVE OFFICER: DEEPA KHOSLA

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

CHIEF EXECUTIVE OFFICER: RAJESH KUMAR

MANAGERIAL ASSISTANT: RAJESH KUMAR

UPFRONT
MANIPUR: RETURN OF
MILITANCY Pg 9

RAJASTHAN:
DOUBLE-ENGINE
JUGGERNAUT Pg 11

INSIDE

LEISURE
BOOKS: GREAT
SNAKES! Pg 13

Q&A WITH
ROHAN BOPANNA
Pg 62

22

COVER STORY

THE COLLAPSE OF I.N.D.I.A.

WHY THE OPPOSITION ALLIANCE
FELL APART AND HOW IT WILL
IMPACT THE OUTCOME OF THE
GENERAL ELECTION

BIHAR WHY NITISH SWITCHED AGAIN | 32 |

The Bihar CM gives up on I.N.D.I.A. to get back with the BJP. Is this another masterstroke or has the master of U-turns lost his way?

DEFENCE

62 IN SEARCH OF A GOOD RIFLE

Multiple hurdles hit India's quest for a dependable assault rifle for its soldiers

ENTERTAINMENT

68 OTT DELIVERS A DOSE OF REALITY

Non-fiction shows are beginning to find an audience in India

Note to the reader: From time to time, you will see pages titled 'An Impact Feature' or 'Focus' in each issue. These are no different from advertisements, and the magazine's editorial staff is not involved in their creation in any way.

Cover by NILANJAN DAS; Digital Imaging by AMARJEET SINGH NAGI



Readers are recommended to make appropriate enquiries before sending money, insuring expenses or entering into commitments in relation to any advertisement appearing in this publication. The India Today Group does not vouch for any claims made by the advertisers of products and services. The printer, publisher, editor-in-chief and the editor of the India Today Group publications shall not be held liable for any consequences in the event of such claims not being honoured by the advertisers.



SCAN HERE TO SUBSCRIBE

FOR SUBSCRIPTION ASSISTANCE, CONTACT: Customer Care, India Today Group, C-9, Sector-10, Noida (UP) - 201301. email: enquiries@indiatoday.com | Phone / WhatsApp: +91 8067 776 776 (Monday to Friday, 10 am - 6 pm)

E-MAIL to: letters.editor@indiatoday.com or log on to www.indiatoday.in

For reprint rights and syndication enquiries, contact reprints@indiatoday.com or call +91-11-260676000 www syndication.indiatoday.in

India Today

Vol. 49 No.08

Table of Contents

INDIA TODAY

www.indiatoday.in

CHIEF EXECUTIVE OFFICER: **Uday Singh**
DEPUTY CHIEF EXECUTIVE OFFICER: **Chand Sheela**

GROUP CHIEF FINANCIAL OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

GROUP CHIEF FINANCIAL OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**

CHIEF EXECUTIVE OFFICER: **Uday Singh**



UPFRONT
UCC: THE CODE IN UNIFORM PGS

INSIDE

LEISURE
GRAMMY: STRENGTH OF SHAKTI PGS 58

TROUBLE@PAYTM
PG 12

Q&A WITH NICK JONAS
PG 58

MOOD OF THE NATION

14

LEAD ESSAY HEADING FOR A HAT-TRICK

His personal popularity still high, Prime Minister Narendra Modi is set to return for a third consecutive term with a clear majority, though jobs are a concern

26 Economy
A THUMBS UP FOR RECOVERY
The government's managing of economy wins approval, but stagnant incomes are a worry

40 Foreign Policy
A FIRM PRESENCE
Most respondents approve of the overall foreign policy and handling of the row with Canada and Maldives

54 Entertainment
ALL HAIL KING KHAN
Riding on a stupendous year, Shah Rukh Khan has emerged as the No. 1 here in the country after 12 years. Deepika Padukone remains the nation's leading lady

32 The Opposition
FEELING LOST IN L.M.D.I.A.
The rejection of the alliance sparks cynicism among voters, who are also wary of BJP tactics

44 Socio-Political
WINDS OF CHANGE
New political initiatives like women's reservation had wider acceptance even as social mores change gradually

58 Best Singer
SINGING ROYALS
Brijit Singh is the undisputed king of male playback singing. Shreya Ghoshal remains nobody queen status among women artists

38 Best CMs
REIGNING SUPREME
Yogi Adityanath remains popular across India. Naveen Patil secures his position in home state

50 Sports
GOLDEN OLDIES
Neeraj Chopra and P.V. Sindhu are best sportspersons; Virat Kohli and Suresh Mendis grab the honours in cricket

Note to the reader: From time to time, you will see pages titled 'An Impact Feature' or 'Focus' in our cover. This is no different from an advertisement and the magazine's editorial staff is not involved in its creation in any way.



Readers are recommended to make appropriate enquiries before sending money, including expenses or other legal commitments in relation to any advertisement appearing in this publication. The India Today Group does not vouch for any claims made by the advertisers of products and services. The printer, publisher, editor-in-chief and the writer of the India Today Group publications shall not be held liable for any consequences in the event of such claims not being honoured by the advertisers.



FOR SUBSCRIPTION ASSISTANCE, CONTACT: Customer Care, India Today Group, C-9, Sector-10, Noida (UP) - 201301. email: careers@indiatoday.com | Phone / Whatsapp: +91 8800 776 776 (Monday to Friday, 10 am - 6pm)

E-MAIL to: letters.editor@indiatoday.com or log on to www.indiatoday.in

© 2024 India Today Group. All rights reserved. Reproduction or distribution of this publication in any form without the prior written permission of the publisher is strictly prohibited. Printed and published by Uday Singh on behalf of India Today Media India Limited, 110-111, Sector-10, Noida (UP) - 201301. (Uday Singh)

Printed and published by Uday Singh on behalf of India Today Media India Limited, 110-111, Sector-10, Noida (UP) - 201301. (Uday Singh)

India Today

Vol. 49 No.09

Table of Contents

INDIA TODAY

www.indiatoday.in

MANAGING AND EDITOR-IN-CHIEF: Anand Chandra
VICE CHAIRPERSON AND EXECUTIVE DIRECTOR-IN-CHARGE: Anand Chandra
GROUP CHIEF EXECUTIVE OFFICER: Deepak Shrivastava

GROUP EDITORIAL DIRECTOR: Anand Chandra

CHIEF EXECUTIVE OFFICER: Anand Chandra

GROUP CHIEF FINANCIAL OFFICER: Anand Chandra

GROUP CHIEF LEGAL OFFICER: Anand Chandra

GROUP CHIEF TECHNOLOGY OFFICER: Anand Chandra

GROUP CHIEF MARKETING OFFICER: Anand Chandra

GROUP CHIEF HR OFFICER: Anand Chandra

GROUP CHIEF COMPLIANCE OFFICER: Anand Chandra

GROUP CHIEF RISK OFFICER: Anand Chandra

GROUP CHIEF SECURITY OFFICER: Anand Chandra

GROUP CHIEF ENVIRONMENTAL OFFICER: Anand Chandra

GROUP CHIEF SOCIAL RESPONSIBILITY OFFICER: Anand Chandra

GROUP CHIEF COMMUNICATIONS OFFICER: Anand Chandra

GROUP CHIEF INFORMATION TECHNOLOGY OFFICER: Anand Chandra

GROUP CHIEF OPERATIONS OFFICER: Anand Chandra

GROUP CHIEF LOGISTICS OFFICER: Anand Chandra

GROUP CHIEF FACILITIES OFFICER: Anand Chandra

GROUP CHIEF PURCHASING OFFICER: Anand Chandra

GROUP CHIEF QUALITY OFFICER: Anand Chandra

GROUP CHIEF RESEARCH OFFICER: Anand Chandra

GROUP CHIEF TRAINING OFFICER: Anand Chandra

GROUP CHIEF WELFARE OFFICER: Anand Chandra

GROUP CHIEF LEGAL AFFAIRS OFFICER: Anand Chandra

GROUP CHIEF COMPLIANCE OFFICER: Anand Chandra

GROUP CHIEF RISK OFFICER: Anand Chandra

GROUP CHIEF SECURITY OFFICER: Anand Chandra

GROUP CHIEF ENVIRONMENTAL OFFICER: Anand Chandra

GROUP CHIEF SOCIAL RESPONSIBILITY OFFICER: Anand Chandra

GROUP CHIEF COMMUNICATIONS OFFICER: Anand Chandra

GROUP CHIEF INFORMATION TECHNOLOGY OFFICER: Anand Chandra

GROUP CHIEF OPERATIONS OFFICER: Anand Chandra

GROUP CHIEF LOGISTICS OFFICER: Anand Chandra

GROUP CHIEF FACILITIES OFFICER: Anand Chandra

GROUP CHIEF PURCHASING OFFICER: Anand Chandra

GROUP CHIEF QUALITY OFFICER: Anand Chandra

GROUP CHIEF RESEARCH OFFICER: Anand Chandra

GROUP CHIEF TRAINING OFFICER: Anand Chandra

GROUP CHIEF WELFARE OFFICER: Anand Chandra

GROUP CHIEF LEGAL AFFAIRS OFFICER: Anand Chandra

GROUP CHIEF COMPLIANCE OFFICER: Anand Chandra

GROUP CHIEF RISK OFFICER: Anand Chandra

GROUP CHIEF SECURITY OFFICER: Anand Chandra

GROUP CHIEF ENVIRONMENTAL OFFICER: Anand Chandra

GROUP CHIEF SOCIAL RESPONSIBILITY OFFICER: Anand Chandra

GROUP CHIEF COMMUNICATIONS OFFICER: Anand Chandra

GROUP CHIEF INFORMATION TECHNOLOGY OFFICER: Anand Chandra

GROUP CHIEF OPERATIONS OFFICER: Anand Chandra

GROUP CHIEF LOGISTICS OFFICER: Anand Chandra

GROUP CHIEF FACILITIES OFFICER: Anand Chandra

GROUP CHIEF PURCHASING OFFICER: Anand Chandra

GROUP CHIEF QUALITY OFFICER: Anand Chandra

GROUP CHIEF RESEARCH OFFICER: Anand Chandra

GROUP CHIEF TRAINING OFFICER: Anand Chandra

GROUP CHIEF WELFARE OFFICER: Anand Chandra

GROUP CHIEF LEGAL AFFAIRS OFFICER: Anand Chandra

GROUP CHIEF COMPLIANCE OFFICER: Anand Chandra

GROUP CHIEF RISK OFFICER: Anand Chandra

GROUP CHIEF SECURITY OFFICER: Anand Chandra

GROUP CHIEF ENVIRONMENTAL OFFICER: Anand Chandra

GROUP CHIEF SOCIAL RESPONSIBILITY OFFICER: Anand Chandra

GROUP CHIEF COMMUNICATIONS OFFICER: Anand Chandra

GROUP CHIEF INFORMATION TECHNOLOGY OFFICER: Anand Chandra

GROUP CHIEF OPERATIONS OFFICER: Anand Chandra

GROUP CHIEF LOGISTICS OFFICER: Anand Chandra

GROUP CHIEF FACILITIES OFFICER: Anand Chandra

GROUP CHIEF PURCHASING OFFICER: Anand Chandra

GROUP CHIEF QUALITY OFFICER: Anand Chandra

GROUP CHIEF RESEARCH OFFICER: Anand Chandra

GROUP CHIEF TRAINING OFFICER: Anand Chandra

GROUP CHIEF WELFARE OFFICER: Anand Chandra

GROUP CHIEF LEGAL AFFAIRS OFFICER: Anand Chandra

GROUP CHIEF COMPLIANCE OFFICER: Anand Chandra

GROUP CHIEF RISK OFFICER: Anand Chandra

GROUP CHIEF SECURITY OFFICER: Anand Chandra

GROUP CHIEF ENVIRONMENTAL OFFICER: Anand Chandra

GROUP CHIEF SOCIAL RESPONSIBILITY OFFICER: Anand Chandra

GROUP CHIEF COMMUNICATIONS OFFICER: Anand Chandra

GROUP CHIEF INFORMATION TECHNOLOGY OFFICER: Anand Chandra

GROUP CHIEF OPERATIONS OFFICER: Anand Chandra

GROUP CHIEF LOGISTICS OFFICER: Anand Chandra

GROUP CHIEF FACILITIES OFFICER: Anand Chandra

GROUP CHIEF PURCHASING OFFICER: Anand Chandra

UPFRONT

WHY FARMERS ARE ANGRY AGAIN PG 10

LADAKH: BITTER FIGHT FOR BETTER PG 20

INSIDE

LEISURE

ART: FREEDOM ABOVE ALL PG 95

Q&A WITH RITHIK ROSHAN PG 106



COVER STORY

A CROWN OF THORNS

Shehbaz Sharif is set to take over as Pakistan PM again after a fractured verdict and has to tackle a collapsing economy, high inflation, unruly Imran supporters and a domineering army

DEFENCE

44 DO OR DIE FOR DRDO

The VijayRaghavan panel's recommendations to revamp DRDO faces pushback from some scientists

HEALTH

48 LIVING WITH THE FLU

Driven by a cold winter, pollution and post-Covid complacency, influenza infections in India are rising each season

WOMEN'S SUMMIT

90 THE EQUITY QUEST

The India Today Woman Summit celebrates sheroes across diverse fields, who champion gender empowerment

Note to the reader: From time to time, you will see pages titled 'An Impact Feature' or 'Focus' in our book. These are no different from advertisements, and the magazine's editorial staff is not involved in their creation in any way.

Cover by NILANJAN DAS



Readers are recommended to make appropriate enquiries before sending money, incurring expenses or entering into commitments in relation to any advertisement appearing in this publication. The India Today Group does not vouch for any claims made by the advertisers of products and services. The printer, publisher, editor-in-chief and the editor of the India Today Group publications shall not be held liable for any consequences in the event of such claims not being honoured by the advertisers.



SCAN HERE TO SUBSCRIBE

FOR SUBSCRIPTION ASSISTANCE, CONTACT: Customer Care, India Today Group, C-5, Sector-10, Noida (UP) - 201305, email: wwwcare@indiatoday.com | Phone / Whatsapp: +91 86607 778 778 (Monday to Friday, 10 am - 6pm)

E-MAIL TO: letters.editor@intoday.com or log on to www.indiatoday.in

For reprint rights and syndication enquiries, contact: syndication@indiatoday.com or visit: www.indiatoday.com

Sports Star

Vol. 47 No.03

Table of Contents

CONTENTS

Saturday, February 3, 2024
FOR THE FORTNIGHT JANUARY 21-FEBRUARY 3, 2024

Follow us: sportstarweb

Volume 47 Number 3 ISSN 0971 359x 100 Pages



INDIAN BADMINTON'S LATEST KHEL RATNA WINNERS: SATWIKSAIRAJ RANKIREDDY AND CHIRAG SHETTY ON WHAT MOTIVATES THEM AND THEIR AMBITIONS FOR 2024

AMRITA SCHOOL OF EDUCATION LIBRARY
MAHARAJI CAMPUS GUJRAT

12

Experts write

- 21 **Badminton**
Aparna Popat
- 25 **Shooting**
Anjali Bhagwat
- 29 **Hockey**
M. M. Somaya
- 33 **Football**
Bhaichung Bhutia
- 37 **Athletics**
Anju Bobby George
- 41 **Chess**
Viswanathan Anand
- 71 **Cricket**
Harbhajan Singh

SPORTSTAR ACES 2024 INDIA TRIUMPHS #Aces2024

88

Vote for your Sports star

The annual Sportstar Aces Awards is back to honour a number of incredible performances across the spectrum of sports. The voting lines are open till January 31 for the Popular Choice categories.

Read more...

- 72 **Photoline**
India crushes South Africa in Cape Town
- 86 **Tribute**
Franz Beckenbauer
- 94 **Pro Kabaddi League Diary**
Madness on the Marina

Cover: Satwiksairaj Rankireddy & Chirag Shetty (Getty Images)

Editorial Team

Editor: Ayon Sengupta
Convergence Editor: V. V. Rajasekhara Rao
Design: R. Ravikannan
Design Consultant: Kannan Sundar
Digital Growth Editor: Ipsit Mohapatra
Editorial Consultant: Vijay Lokapally
Sr. Assistant Editor: Shayan Acharya
Assistant Editor: Jonathan Selvaraj, V. S. Aravind
Chief Sub-Editor: Karan Pillai
Sr. Sub-Editor/Sr. Reporter: Ayon Acharya, Aashin Prasad, Santadeep Dey, Lavanya Lakshmi Narayanan, Saikat Chakraborty
Sub-Editor/Reporter: Dhruva Prasad, Neeladri Bhattacharjee, Aneesh Dey, Netra V, Pranay Rajiv, Nihit Sachdeva, Abhishek Saini, Nigamanth P. Mayank, Anish P, Sahil Mathur, Karthik Mudaliar
Senior Multimedia Producer: Sivasankar A

Poster: Sports Calendar 2024; Pages 43-50

www.sportstar.thehindu.com
mail to: sportstar@thehindu.co.in

Published by Nirmala Lakshman, Kasturi Buildings, 859, B60, Anna Salai, Chennai-600 002 and Printed by SDT Rao at Kala Jyothi Process Private Ltd, Plot no CFC-1&2, Survey No 18, E-City, SEZ & General Industrial Park, Ravivoyal & Srinagar (Village), Maheswaram(M), R.R.Dist, Telangana - 501359 on behalf of THG PUBLISHING PVT LTD., Chennai-600 002.

Editor: Ayon Sengupta (Editor responsible for selection of news under the PRB Act). All rights reserved. Reproduction in whole or in part without written permission is prohibited.

Disclaimer: Readers are requested to verify & make appropriate enquiries to satisfy themselves about the veracity of an advertisement before responding to any published in this magazine. THG PUBLISHING PVT LTD., the Publisher & Owner of this magazine, does not vouch for the authenticity of any advertisement or advertiser or for any of the advertiser's products and/or services. In no event can the Owner, Publisher, Printer, Editor, Director/s, Employees of this magazine/company be held responsible/liable in any manner whatsoever for any claims and/or damages for advertisements in this magazine.
Air Surcharge:
Colombo ₹ 15.00 | Port Blair ₹ 10.00

For Subscription:
Email: customercare@thehindu.co.in
No: 18001021878

For Advertisement
National Sales Head
Satish K Mendon
Satish.mendon@thehindu.co.in

Region

- Delhi** - Antesh Kumar Verma
+91 9818798519
- Bengaluru** - Gurunatha Reddy
+91 9845529981
- Chennai** - Siva Kumar M
+91 9841585969

Sportstar February 3 - 2024 3

Resonance Journal of Science Education

Vol. 29 No.02

Table of Contents

Resonance journal of science education

February 2024 Volume 29 Number 2

171



227



GENERAL ARTICLES

151 **Glimpses from the Life and Work of Dr. C.R. Rao**
Anil Bera and Priyasmita Ghosh

171 **Dr. C.R. Rao, As I Knew Him: A Half A Century Account (1973–2023)**
Anil K. Bera In collaboration with Rong Yuwen, Yice Zhang and Wenqi Zeng

187 **An Indian Tribute to William Morton Wheeler**
Raghavendra Gadagkar

209 **Mystery Behind Red Gold**
Nanoscale Optics and Biomedical Frontiers
Nishant Arya, Manisha Byakodi and Sonu Gandhi

227 **Attosecond Physics in a Nutshell**
Pushing the Frontier of Ultrafast Science and Technology
Akansha Tyagi, Ankur Mandal and Kamal P. Singh

SERIES ARTICLE

247 **Enhancing Ventilation of Enclosed Spaces Using CFD**
Part 2: Ventilation of Low Occupancy Rooms of IIT Bombay
N.S. Kothare, N.K. Tamboli, J.S. Murallidharan, A. Singh, G. Kumaraswamy and K. Sinha

148



RESONANCE | February 2024

RESEARCH NEWS

265

Amaterasu* particle
Indulekha Kavila



CLASSICS

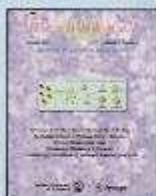
269

Some Theorems on Minimum Variance Estimation
C Radhakrishna Rao

209



Front Cover



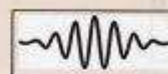
This is a schematic representation of the synthesis of AuNPs – also known as colloidal gold – these are suspensions of metal nanoparticles. They are used in a variety of applications, depending on their size and shape. One of the most interesting characteristics of AuNPs is their size-dependent color change.

Back Cover



C Radhakrishna Rao
(1920–2023)
Illustrator: Subhankar Biswas

DEPARTMENTS



Editorial 145
B Sury



Science Smiles 150
Ayan Guha

Crossword 287

Life Under Water
Arjun Harish
Sujata Deshpande

Follow us

Facebook:

@Resonance.IASc.Bng

Twitter: @IAScResonance

