



## तकनीकी पत्रिका विषय-सूची

## **CURRENT CONTENT**

(Technical Journals)
(A Monthly Current Awareness Service from Technical Journals)

Vol.07 No.10, October, 2023

The Central Library, IBM, Nagpur is subscribing the technical journals and also receiving them on complimentary basis on various subjects like Geology, Mining, Mineral Economics etc. These Technical Journals make up an important collection of latest scientific information. The library is rendering Reference Service to its users from these technical Journals (Article Indexing is one of them). Central Library, IBM provides Current Content Service from these technical journals in the name of "GEM" since 2006 on half yearly basis in print form. To expand this service to the IBM Offices all over India i.e. H.Q., Zonal & Regional Offices and to take a call of time, the Controller General, IBM desired to make this service online on monthly basis. The library staff made efforts to make it successful. This is the 10<sup>th</sup> issue of Volume-7 for this service named "तकनीकी पत्रिका विषय – सूची" (Current Content- A Monthly Current Awareness Service from Technical Journals) Vol.07 No.10, October, 2023.

It will be highly appreciated if the valuable feedback is reciprocated. If some article as per content list is found to be of use by the reader the same may be requested and the library will send the scanned copy of the article to the interested reader.

Mrs R S Wakode
Assistant Library & Information Officer
library@ibm.gov.in
0712-2562847

## $\underline{I} \, \underline{N} \, \underline{D} \, \underline{E} \, \underline{X}$

<u>S.No</u>	<u>Title</u>	Page No
1)	Iron & Steel Review	3-4
2)	Journal of the Geological Society of India	5-6
3)	Minerals & Metals Review	7
4)	Mining Engineers' Journal	8

## Iron & Steel Review, Vol.67 No.04, September 2023

## **Features**

Editor & Publisher:

Sabita Mahanti Abhishek Mahanti

Director & Content Strategist: Kritika Mahant

Editorial:

Megha Ghosh

Sales & Marketing:

Shyamalendu Banerjee Angan Chatterjee Sanjana Tiwari

Design & Layout:

Dipak Adhikari Sambaran Karmakar

**Editorial & Corporate Office:** 

Merlin Links, Block 5E/5F, 5th Floor 166B, S. P. Mukherjee Road Kolkata - 700 026

Phone: 91-6292241782/6292241783/ 033-2463 8088 Fax: 91-033-2465-3790

E-mail: contact@isrinfomedia.in Website: www.isrinfomedia.com Registered Office:

#### 10, Chowringhee Road Kolkata - 700 013 Subscription Rate

Domestic

**Print Copy** ₹ 12,000 (Yearly)

₹ 1.000 (Single Copy) Digital Copy ₹ 8,500 (Yearly)

Overseas

**Print Copy** \$ 1,600 (Yearly) € 1,250 (Yearly)

Digital Copy \$ 800 (Yearly)

€ 500 (Yearly)

- Shipping Charge ₹ 1200 (Yearly)
- 5 % GST on advertisement as applicable

Owned & Printed by Santosh Mahanti at M/s. Kalpana Offset Private Limited 123, Tarak Pramanick Road, Kolkata 700 006

and published by him from 10, Chowringhee Road Kolkata - 700 013, India

Reproduction of matter published here, in whole or in parts, is prohibited without written permission from the publisher.

The publisher and printer do not accept any responsibility for statements, data and opinions expressed by the author.



Cover Courtesy: SG Shinagawa Refractories India Private Ltd.



भारतिखा खण्ल ब्यूरो INDIAN BUREAU OF MINES

2 6 DCT 2023

CENTRACE STATE TO DECARDONISE Steel

Feature

niless Steel - Grades, polications. Demand and

28

The Global Stainless Steels Industry

### Interview

30

"Flexible steelmaking technology, for present and future markets"

#### **National Trends**

AIL Supplies 4,000 Tonnes of Special Steel for Indigenous rigate Ship Vindhyagiri

## **lobal Trends**

MS group and SAIL Partner Production in India

**Company News** 

**Chosun Sarvesh Refractories** to Offer High Technology **Tap Hole Clay** 

#### **Focus**

66

**Manufacturing Technology** of High Strength, High **Toughness Offshore Wind Power Structural Steel Plates** 

#### **Steel Market**

70

Iron & Steel Performance for July 2023

**Steel Market & Performance** 

80

Performance of the Indian Steel Industry in April-August, 2023-24 - Summary **Highlights** 

## **Automation**

82

**Industrial Revolution through Digital Twin** 



## Iron & Steel Review, Vol.67 No.04, September 2023



## Journal of the Geological Society of India, Vol.99 No.10, October 2023

## THE GEOLOGICAL SOCIETY OF INDIA

(Abstracted/Indexed in AGI's Bibliography and Index of Geology, Chemical Abstracts, Current Contents, GEOBASE, GEoRef, Mineralogical Abstracts, GeoArchive, Thomson ISI database (SCIE, CC/PC & ES))

Vol. 99	OCTOBER 2023	भारतीय खान ब्य	<b>57.</b> 10
		INDIAN BUREAU OF MIN	ES
	CONTENTS	2 º OST 2023	
	EDITORIAL	केंद्रीय पुरत्तकालय	
ndia's First Carbonatite Discovery at A P. Krishnamurthy	mba Dongar is Sixty Years Old: An	CENTRAL TENESTALS AR	Y 1335
	RESEARCH ARTICLES		
A Field Based Perspective of the Volcanis An Analog of the Deccan Traps?			
SAHELI DE, JYOTISANKAR RAY, PAYEL DE			1341
Paleoclimatic Influence on the Evolution Sea.			
VIKAS DEV, ANIL KUMAR SAHU, SUMAN F	KUMAR, A.K. RAI and S.S. DAS		1349
Geochemistry of Stream Sediments from Maturity, Source-area Weathering an	d Provenance.		
DHANANJAY KUMAR PATEL and SUDIPTO N	Vатн		1361
Organic Petrological Facets and the Evol A.S. Naik, Vishvajeet Singh, D. Mohan Shweta Rai	TY, R.K. MAJHI, GOVIND KUMAR, N. U	PADHYAY, MANJU KUMARI and	1372
Characterisation of Pre and Post-Tsunam R Programming from Nagoor to Poon	ni Sediments by Grain Size Analysis		13/2
Yamini Sivanandam and Saranaathan,	S.E		1379
loral Diversity of South Karanpura Basi Special Reference to Palaeoenvironme	in, Jharkhand, India and their Palac ent.	eoclimatic Implication with	
SANGHAMITRA PRADHAN, SHREERUP GOSWA	AMI, SIDDHARTH SHEKHAR PRADHAN and	Subhransu Bhusan Das	1387
Comprehensive Study of the Armoured DIBYAJYOTI DAS and ARIJIT MAJUMDER	Mud Balls of Tajpur Coast, India.		1408
roposed Sequential Process to Identify S Modelling Studies using Groundwater Category Maps – A Study for Cheyyar	maller Vulnerable Area from a Larg Potential Zone and Stage of Groun r River Basin, Tamil Nadu, India.	ger Area for Groundwater dwater Development	
VISHNUVARDAN NARAYANAMURTHI and ANN	NADURAI RAMASAMY		1417
<sup>0</sup> Pb Geochronology and Heavy Metal Flo Sumedh K. Humane, Rajeshree R. Ukey,	uxes in Darna and Gangapur Reser , Samaya S. Humane, Pranit B. Gajbh	voirs, Maharashtra, India.	1427

## Journal of the Geological Society of India, Vol.99 No.10, October 2023

	and Geochemistry R, Shishir Bhardwaj, Achman Sharma and Vivek Sharma
Southern Par	gree of Alteration in Fossil Ostracods from Middle Callovian-Lower Oxfordian Beds of t of Kachchh Basin, Gujarat, India by Characterizing Surface Roughness of the Shell.  D MUDULI, MANISHA KUMARI and T. MAHALAKSHMI
	Bathymetry and Water Level Change in Beysehir Lake.
Preliminary Asse Technique.	ssment of Joint Roughness Coefficient of Rock Slope Using UAV-SfM Photogrammetry
	AZIZAN RAJA ADNAN, MOHD ASHRAF MOHAMAD ISMAIL, HAYATO TOBE, TAKAKO MIYOSHI, and YASUHIRO YOKOTA
	NEWS AND NOTES
N. SATYAVANI 8	eneral Assembly of the International Union of Geodesy and Geophysics, Berlin, Germany.  Ind Joshi Catherine  Inposium on Foraminifera, FORAMS 2023, Perugia, Italy.
	and Anupam Ghosh
	DISCUSSION
Watershed Mana	gement, Green Environment and Rural Resurgence.
P.1	S. Anitha Shyam, R.C. Jain, N.K. Shukla, Rana Chatterjee, Sharadindu Chakraborty, N. Rao, K.J. Anand Kumar, L.N. Mathur, D.S.S. Murthy, V. S. Prakash, K.C. Naik,
	Vaidyanadhan, GC. Pati,
Reply: Subha	IYOTI DAS
	OBITUARY
Prof. Subhendu I	Bardhan (1951-2023). Sharmistha Paul.

Cover INDIAN BUREAU OF MINES Regional map showing disposition of the Cuddapah Basin and constituent sub-basins (after Kale et al., 2020). EDC: Eastern Dharwar Craton, NB, Nellore Belt. For details see pages 1341-1348.

कंद्रीय पुरतकालय CENTRAL LIBRARY

### ADDRESS OF EDITOR

All papers intended for publication and also related correspondence should be addressed to: G.M. Bhat, Editor-in-Chief, Department of Geology, University of Jammu, Jammu - 180 006, India. Email: bhatgm@jugaa.com; Editor\_JGSI@geosocindia.org; Mobile: 91-9419200120; Website: http://www.geosocindia.org.

1334

# Minerals & Metals Review, Vol.49 No.09, September 2023

**Coal Focus** India aims to nearly double coal production by FY30 with innovative strategies How re-skilling of coal mine workers will play a crucial role in India's transition to renewable energy **Tyre Update Market Reports** Replacement demand to drive tyre volume up केंद्रीय पुरतकालय 6-8% this fiscal CENTRAL LIBRARY **Policy View Chemical Corner** Copper to witness huge demand in especially from rural applications: Outlook for petrochemicals & basic chemicals Joint Secretary, DPIIT sector revised to 'Negative' Steel ind seeks measures against Chinese imports **Sectoral View** 23 Copper Update ERW steel pipe makers set for 10-12% revenue Future demand for Cu will grow over rise in growth this fiscal power generation and transition to EV Global Cu smelting remains flat in August 54 Sustainability Secondary route of Cu production is key to Scope 3 considerations inmetals and conserving depleting primary ore source mining investment **Market Outlook EV Scan** Copper Market Dynamics: H1 2023 data unveils Is the electric vehicle and battery supply chain production surges and global challenges charged for success? ICSG forecasts 2023-24 trends in Cu production, demand **Macro Update** Measures for liquidity tightening to keep 35 Recycling monetary rates elevated Aurubis and SMS group forge ahead with the first multimetal recycling plant in the US **Events** Indian mining & metals sector quest for RE In Conversation technologies: Industry experts Efficient mining with smart lubrication choices Exploring substitution and miniaturization trends in copper demand: Reflections from 42 Company Profile ICA's "Focus on substitution" Hindustan Copper well poised on a high IAI strengthens collaboration with ICSOBA as growth trajectory conference partner 5th World of Metal 2023 shines a spotlight on **Aluminium** metal industries in Mumbai India's Al consumption to grow by 9% in FY2024, despite global headwinds **Statistics** 

Minerals & Metals Review - September 2023 ☐ 6

## Mining Engineers' Journal, Vol.25 No.03, October 2023

# **Engineers**'

केंद्रीय पुरतकालय CENTRAL LIBRARY Official Publication of

\*/NDIA

5

Mining Engineers' Association of India

October - 2023 MONTHLY Vol. 25 No. 3



S.N. Mathur

G. Dhananjaya Reddy

Vice President-I D.B. Sundara Ramam Vice President - III

Secretary General M. Narsaiah

Jt.Secretary.cum.Treasurer B. Sahoo

**Ex-officio Council Members** K. Madhusudhana, Sanjay Kumar Pattnaik

Council Members (Elected)

Amish Kumar Makadiya; A.K. Garg; Dr. T.N. Venugopal; Cyriac Joseph; Rachappa M Saradagi; A Avudaiyappan; Kumar Mohan Singh; Ravi Chandran Raj; Mohan Nilaram Rahangdale; Santosh Kumar Adhikari; Ankan Mitra; B.L. Kotriwala; P.C. Bakliwal; S.S. Rathore; S.K. Vashisth; P.V. Krishnaiah Yadav; G.R. Magesh; M. Palanikumaresan; Sabyasachi Mohanty; R.S. Raghuwanshi; Sunil Kumar Singh; K. Prabhakara Reddy; Dr. Kripamoy Sarkar; B. Surender Mohan; Mittapally Satish Kumar; K. Venkataramana; Dr. P.C. Purohit; Prem Raj Dave; Bipin Kumar Giri; Ajay Kumar Goyal

## Representatives of Life Institutional Members

Mirza Mohammad Abdulla (MOIL) Vinay Kumar (NMDC) Venkateshwar Reddy (SCCL) Dr. H.Y. Desai (MSPL) L. Kulshreshtha (GMDC)

## **Nominated Members**

Prof. Sushil Bhandari; Deepak Vidyarthi; V. Laxminarayana; Gajula Lakshminarayana; K. Laxminarayana

#### Co-opted Members

Prof. B.B. Dhar; B.R.V. Susheel Kumar; L.S. Shekhawat; Ajay Kumar Jain; A.B. Panigrahi

#### Permanent Invitees

All former Presidents, Hony. Secretaries/ Secretary Generals

## this issue contains...

President's Message	5
Editor's Desk	7
News from the Mineral World	9
Determination of In-Situ Block Size on Blast Induced Rock Fragmentation- A Review - A.G.Sangode, A.K.Raina and K. Ram Ch	15 nandar
Improvement – The Soul of Quality Management System - Prof Oruganti Subba Rao	23

37 **MEAI News** 

42 Conferences, Seminars, Workshops etc.

Correspondence Address

## **MEAI** National Headquarters

Contact: Secretary General,

Mining Engineers' Association of India

F-608 & 609, Raghavaratna Towers, 'A' Block, VI Floor, Chirag Ali Lane, Abids, Hyderabad - 500 001. Ph.: 040-66339625, 23200510

> E-mail: meai1957@gmail.com website: www.meai.org

The Views expressed by the authors in these pages are not necessarily those of Publisher / Editor / MEAI. Reproduction in whole or in part is strictly prohibited without written permission from the publisher.

ers' Journal, Vol. 25,

October 2023