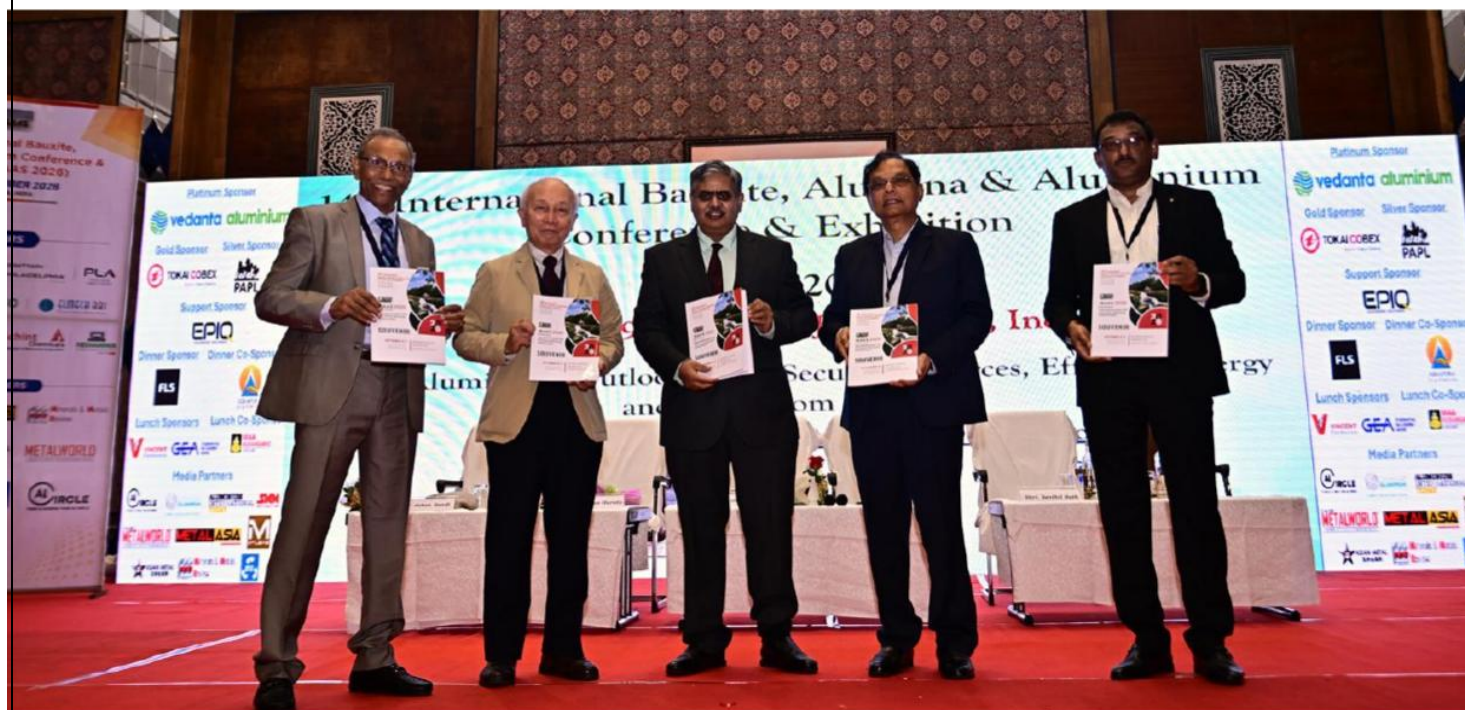


14th INTERNATIONAL BAUXITE, ALUMINA & ALUMINIUM CONFERENCE & EXHIBITION (IBAAS-2026), MAYFAIR HOTELS & RESORTS

SEPTEMBER 9–11, 2026 | JHARSUGUDA



**International Bauxite Alumina and Aluminium Society (IBAAS)
in Association with**

**Indian Institute of Metals, Sambalpur (IIM Sambalpur Chapter)
and JNARDDC**

REPORT



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IBAAS- 2026 CONFERENCE & EXHIBITION

JHARSUGUDA



Overview and Theme

The **14th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS-2026)**, was held during **September 9-11, 2026**, at MAYFAIR Hotels & Resorts in **Jharsuguda, Odisha, India**. This was concluded with remarkable success, reaffirming its status as one of the most significant global platforms for the aluminium industry.

The central theme of the conference, **“Global Aluminium Outlook 2030: Secure Resources, Efficient Energy and Value from Wastes,”** effectively captured the evolving priorities, challenges, and opportunities of the global aluminium industry. The theme emphasized the importance of securing sustainable raw material resources, improving energy efficiency across the aluminium value chain, and maximizing the value of wastes and by-products through innovative technologies and circular economy approaches. It also highlighted the growing role of digitalisation, artificial intelligence, sustainable production practices, recycling, resource efficiency, and technological innovation in shaping the future of the aluminium industry towards 2030.

Aluminium Industry: Focus Areas of IBAAS 2026

With India’s aluminium industry advancing towards greater efficiency, sustainability, and competitiveness, the conference highlighted key focus areas including:

- **Digitalisation and AI Application in Aluminium Industry and Green Aluminium :** Session Coordinator and Chair: **Mr. Pradip Ranjan Choudhury**, Leading Smelter Expert and **Mr. Ashutosh Kumar**, VP of Engineering, Caliche : This session was devoted towards the process optimisation, predictive maintenance, quality improvement, and data-driven decision-making.
- **Bauxite Beneficiation and Non-Metallurgical Bauxite–Alumina:** Session Coordinator: **Dr. Jyoti Prakash Nayak**, General Manager – High Alumina

Technology, TRL Krosaki Refractories Limited: Advancing beneficiation and non-metallurgical bauxite–alumina applications for value addition and efficient resource utilisation.

- **Bauxite Residue (BR / Red Mud):** Session Coordinator: **Ms. Sangita Sadafule**, Deputy CEO – Red Mud, Vedanta Limited, Lanjigarh: Promoting sustainable management, utilisation, and value recovery from bauxite residue (red mud).
- **Cathodes for Energy Management and Pot-Life Extension:** Session Coordinators: **Mr. Bibhu Mishra**, Advisor, Hindalco Industries Limited, India **Mr. Pratap Kumar Sahu**, Vice Chairman (IIM, Sambalpur Chapter), Jt. President, Hirakud Smelter, Hindalco: Improving energy management and extending pot life through advanced cathode linings and technologies.
- **Value Recovery from Aluminium and Power Plant Wastes:** Session Coordinator: **Dr. Maneesh C. Srivastava**, Head – R&D, Vedanta Aluminium, Jharsuguda and **Mr. Satyanarayan Das**, Consultant- Aluminium Industry : Recovering value from aluminium and power plant wastes through sustainable utilisation.
- **Aluminium Alloys – Sustainable and Smart Engineering Solutions:** Session Coordinator: **Dr. Amit Chatterjee**, Advisor – Aluminium Industry Developing sustainable and smart engineering solutions through advanced aluminium alloys.
- **Aluminium Recycling: Driving the Circular Economy and Green Metal Transition:** Session Coordinator: **Mr. R. N. Chouhan**, HoD (Metal Processing & Reference Materials), JNARDDC: Driving the circular economy through efficient scrap utilisation and the transition towards circular economy.

Inaugural Function

The inaugural function was graced by **Mr. Rajesh Kumar, CEO, Vedanta Aluminium**, as the **Chief Guest**. Other distinguished dignitaries included:

Mr. Bibhu Mishra, Advisor HINDALCO

Mr. Takuo Harato, Leading Alumina expert, Japan

Mr. Senthil Nath, President -MCOE Hindalco Industries Ltd., India

The session commenced with a warm welcome by **Dr. Arun Nandi**, Secretary, IBAAS, followed by the Conference Convener's address outlining IBAAS's mission and the highlights of the 2026 program.



A souvenir volume containing abstracts, advertisements, and sponsor profiles was formally released, and all delegates received the IBAAS BINDER Volume XIV containing the full set of technical papers. The inaugural function was concluded with a vote of thanks by Mr. Pradip R. Choudhury, Leading Smelter Expert, Former Executive Director, NALCO, followed by the opening of the exhibition.

Keynote Addresses

After the inaugural function, seven keynote addresses were delivered by leading Indian and international experts as given below:

1. Structural Transformation in Aluminium Industry by Mr. Bibhu Mishra, HINDALCO
2. Sustainability of Alumina Industry by Mr. Takuo Harato
3. Global Cooperation on Key Challenges for the Aluminium Industry by Mr. Pratap Sahu, Joint President, HINDALCO
4. Navigating Resource Depletion and Geopolitical Volatility through Technological Agility by Mr. Yves Ocello, Amber Generation
5. Aluminium Value Chain and its Application: Enabling Light weight Solutions, Energy Efficiency and Advancing ESG Goals Vibhav Upadhyay, C00, Smelter AVP Vedanta Aluminium.
6. Analytical Characterization and Recovery Optimization of Critical Minerals in NALCO Bauxite residue (Red Mud) by Mr. Vinod Kumar and Raghavender K, National Aluminium Company Limited (NALCO), Damanjodi, India.

7. Status of Bauxite, Alumina and Aluminium Industry of Vietnam by Mr. Thanh Nguyen, Hanoi





Sponsors and Supporters

IBAAS extends its heartfelt gratitude to all sponsors, exhibitors, partners, and supporters whose valuable contributions and continued cooperation played an important role in the successful organisation of the IBAAS-2026 Conference & Exhibition, held at MAYFAIR Oasis Resort & Convention, Jharsuguda, Odisha, from 9–11 September 2026. IBAAS conveys its special appreciation to all sponsors and supporters for their invaluable contribution towards the success of IBAAS-2026 and for their continued support in strengthening the global bauxite, alumina, and aluminium fraternity.



Exhibition

A major attraction of **IBAAS 2026** was the industry exhibition, which brought together **10 domestic and international companies** showcasing a diverse range of aluminium technologies, equipment, products, services, and innovative solutions. The exhibition provided an important platform for industry professionals and delegates to explore emerging technologies, establish business connections, and exchange insights on the evolving needs of the global aluminium industry. **IBAAS also sincerely thanks its media partners for their valuable support in promoting and enhancing the visibility of the conference and exhibition.**









Participating Companies

The event brought together **325 delegates from 100+ companies and organizations** across the aluminium ecosystem, comprising **bauxite, alumina, and aluminium producers, R&D institutes, equipment suppliers, service providers, and academia.**

Delegates hailed from **India, China, Turkey, Spain, Malaysia, Australia, Canada, France, Germany, Japan, Italy, the Netherlands, Sweden, the UAE, the UK, and the USA,** reflecting the **international reach and participation of IBAAS 2026.**



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9-11 SEPTEMBER 2026
JHARSUGUDA, INDIA

PARTICIPATING COMPANIES























































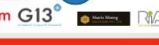



























Presentations by Sponsors and Supporters



ESG Awards

The prestigious IBAAS-CETIZION ESG Awards 2026 celebrated companies demonstrating outstanding leadership in Environmental, Social, and Governance (ESG) performance.



ESG Award Recipients:

COMPANY NAME	AWARD
HINDALCO INDUSTRIES LTD HIRAKUD POWER & SMELTER	GOLD
MIDAL CABLES	PLATINUM
HINDALCO INDUSTRIES LTD KUPPAM	GOLD
CEVHER JANT SANAYII A.Ş.	PLATINUM
HINDALCO INDUSTRIES LTD MAHAN	GOLD
HINDALCO INDUSTRIES LTD HIRAKUD FRP	SILVER
GZ INDUSTRIES LTD	GOLD

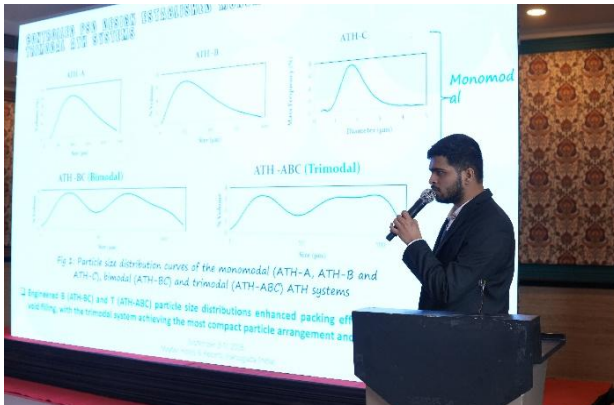
Technical Program

The **second day (10 September)** commenced with three parallel technical sessions. The **Auditorium** featured papers on **“Digitalisation and AI Applications in Aluminium Industry,”** highlighting AI, machine learning, data analytics, automation, predictive maintenance, process optimisation, and intelligent quality control.

Hall-1 hosted a session on **“Special Bauxite–Alumina,”** focusing on the characteristics, beneficiation, processing, applications, and value addition of special-grade bauxite and alumina.

Meanwhile, **Hall-2** featured **“Aluminium Smelting,”** covering advances in reduction technology, energy efficiency, cell performance, anode technology, process control, and operational optimisation, with industry case studies highlighting more efficient and sustainable smelting practices.

The afternoon session in the Main Auditorium featured a panel discussion followed by the ESG Award Ceremony, organised to recognise and felicitate companies that have demonstrated high standards of environmental management, sustainability, and responsible business practices. The session was hosted by Mr. Gangaa C. Sharma, Managing Director & CEO, CETIZION Verifica. The discussion provided an opportunity to highlight industry initiatives and best practices aimed at strengthening environmental performance and sustainable development across the aluminium value chain.



On **Day 3 (11th September)**, the technical sessions continued with presentations on **Green Aluminium, Aluminium Downstream and Alloys, and Aluminium Recycling**. The sessions focused on advancements in sustainable aluminium production, downstream processing and alloy development, as well as innovative approaches to recycling and resource recovery. The presentations highlighted the importance of **energy efficiency, value addition, circularity, and sustainable practices** across the aluminium value chain.



The three-day conference and exhibition concluded with the **Best Paper Presenter Awards**, recognising presenters for their outstanding technical contributions and effective presentation of their work. The awards were evaluated based on the **IBAAS Best Paper criteria**, including submission of both the **full paper and presentation**, preferably for delegates **below 50 years of age**, along with **technical content, novelty/innovation/uniqueness, presentation skills, adherence to the allotted time, and effective handling of the Q&A session**. The concluding ceremony marked the successful completion of **IBAAS 2026**, bringing together industry professionals, researchers, technology providers, and academic experts for knowledge sharing and collaboration across the bauxite, alumina, and aluminium sectors.

Digitalization, AI Applications in Aluminium Industry & Green Aluminium	1	Ashwinder Kaur , HINDALCO - UAIL Refinery, Doraguda, India	AI-Guided Optimization of Last Growth Tank Temperature in the Precipitation Circuit of Utkal Alumina International Limited (Alumina Refinery)
	2	Ravi Misra , National Aluminium Company Limited, Angul, Odisha, India	Operational Excellence using Integrated Data Analytics and Reporting Platform for Fume Treatment Plants in Potlines
Bauxite-Alumina	1	Pujashree Patri , Vedanta Aluminium, Lanjigarh, Odisha, India	From Bauxite Residue to Industrial Resource: Technical Qualification, ESG Value and Circular-Economy Integration in Fertilizers Granulation
	2	Madhur Kolte , Hindalco Industries Limited, Belagavi, Karnataka, India	Beyond Fillers: Particle Size Distribution and Morphological Engineering of Aluminium Trihydrate for Advanced Polymer Composites
Aluminium Smelting	1	Anamit Deb Gupta , Aditya Aluminium Ltd (A unit of Hindalco Industries Ltd)	Improvement in Anode Quality by Collaboration & In-house Process Optimization
	2	Chandresh Vaghasia , Vedanta Limited, Jharsuguda, Odisha, India	From Variability to Stability: A Systematic Approach to Improving Quality in Pre-Baked Anodes

Aluminium Downstream, Alloys & Recycling	1	Harsh Vardhan Dubey, BALCO, Korba, India	Improving Age-Hardening Response of AA6201 Rod: Role of Mg/Si Optimization and Strontium- Assisted Intermetallic Transformation
	2	Prasana Kumar Sahoo, Hindalco Industries Ltd, Hirakud, India	Reliability Improvement of Compressor House Through Online Vibration Monitoring





Post-Conference Activities

The event concluded with a well-organised post-conference visit for selected IBAAS delegates to Aditya Aluminium, Hindalco Industries Limited, Lapanga, on 12th September 2026. The visit provided participants with an opportunity to observe **large-scale aluminium smelting operations, plant processes, and industrial practices** firsthand. It also offered valuable exposure to the practical implementation of technologies and operational practices in the aluminium industry, while further strengthening **industry-academia interaction, knowledge exchange, and professional networking**.



The IBAAS 2026 Conference & Exhibition successfully achieved its objectives of promoting technical dialogue, knowledge sharing, collaboration, and innovation across the global bauxite, alumina, and aluminium industry. With a strong emphasis on Digitalisation, Artificial Intelligence, Green Aluminium, resource efficiency, and sustainable practices, the conference provided a valuable platform for sharing technical excellence, showcasing industry innovations, and fostering meaningful partnerships across the aluminium value chain.

The three-day event brought together industry leaders, technical experts, researchers, technology providers, and academia from India and abroad, facilitating valuable discussions on emerging technologies, operational challenges, and future opportunities for the aluminium industry. The event contributed to strengthening collaboration and knowledge exchange towards a smarter, more efficient, sustainable, and competitive aluminium industry.

For feedback and comments, please contact: info@ibaas.info
