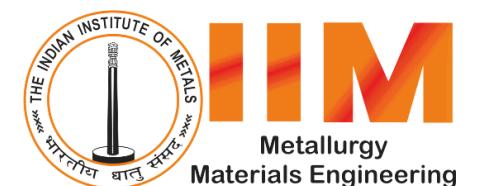


IBAAS-IMMT-IIM 2025

13th International Bauxite, Alumina & Aluminium Conference & Exhibition



Highlights of 13th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS-IMMT-IIM 2025)

Dr. ASHOK NANDI, CONVENER

8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

International Bauxite, Alumina and Aluminium Society (IBAAS)

- **Established in 2012 as a professional organization.**
- **Organized 12 international conferences and exhibitions in India, China, and Guinea.**
- **Events bring together industry leaders, researchers, technology providers and equipment manufacturers .**
- **A platform for global collaboration and knowledge sharing in the aluminium industry.**
- **Supports innovation, operational efficiency, and greener industry practices.**

Why IBAAS was set up?

- **There was no Indian bauxite, alumina and aluminium forum for regular technical interactions, review developments and plan future for this important industry.**
- **7 aluminium professionals joined together and registered the IBAAS in 2012 in Nagpur with the objective to have an Indian international forum.**
- **Prior to this Indian Engineers and Scientists were sending papers and some of them were participating in TMS (USA), Alumina Quality Workshop (Australia) and ICSOBA etc.**

Why IBAAS was set up? (Contd.)

- IBAAS is an Indian registered Company and have experience of organizing international conferences and exhibitions in China and Guinea.
- IBAAS is mainly serving primary and secondary aluminium producers and encouraging young scientists and engineers to have technical contributions and interact with scientists and experts.
- In the past 12 years, IBAAS have become an established organization for the promotion of this industry thanks to support of bauxite, alumina and aluminium producers and sponsors / supporters.

Some Facts – Bauxite Quality

- Minimum 50% Al₂O₃ and <3% SiO₂ plant feed during Seventies
- Now >40% alumina and <6% SiO₂
- Indian low temperature alumina refineries can very well accept bauxite with about 35% available alumina and about 4% reactive silica
- Worsley alumina refinery in Western Australia, where I worked during 2007 uses 29% A.Al and 4% R.Si and still produces alumina economically thanks to a large scale of operation.

OLD POTHOLE BAUXITE MINING



MODERN BAUXITE MINE WITH SURFACE MINER



OLD ROTARY ALUMINA CALCINER



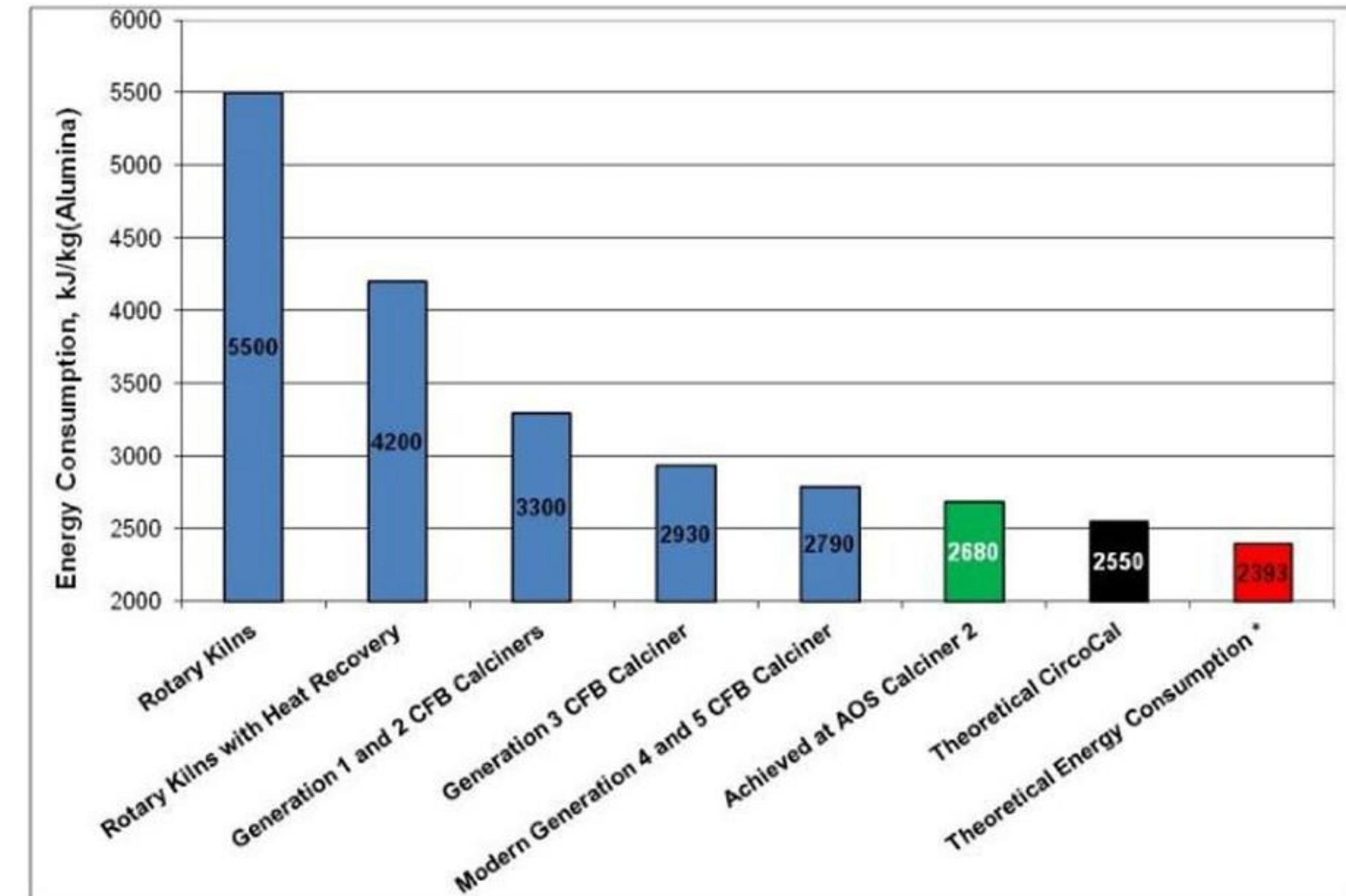
MODERN FLUIDIZED BED ALUMINA CALCINER



Some Facts – Alumina Production

Same Bayer's Process- tremendous improvements in production and productivity

Energy consumption in Rotary Kiln before 1990 to present day Fluidized Bed Calciner



OLD POT ROOMS

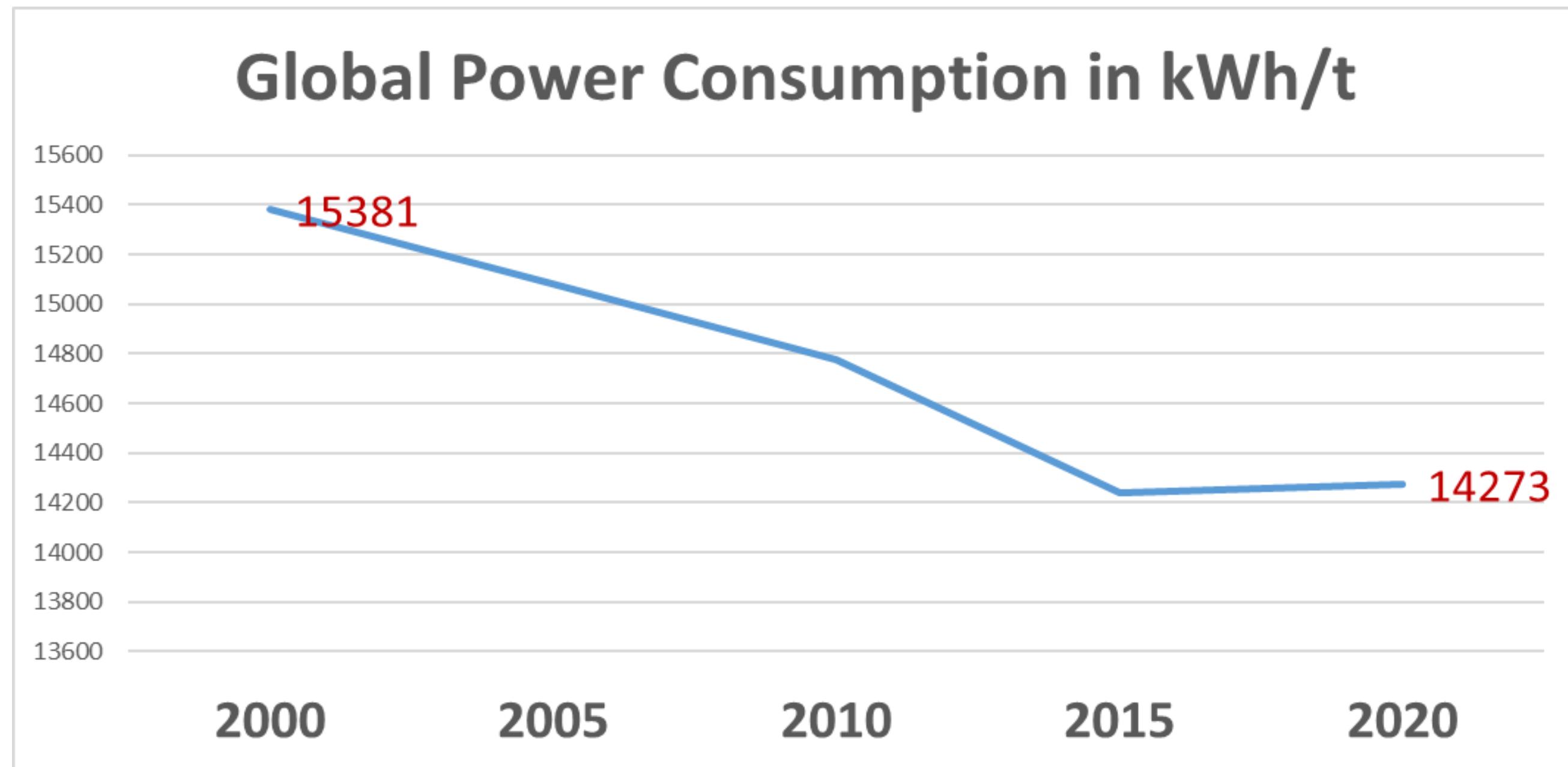


MODERN ALUMINIUM SMELTER



Some Facts – Aluminium Smelting

Hall Heroult Process of Electrolysis, however, continuous improvements in production and productivity.



Conference Overview

13th International Bauxite, Alumina & Aluminium Conference & Exhibition (IBAAS-IMMT-IIM 2025)

Theme: A Green and Smart Aluminium Industry for Tomorrow

Date
October 8-10, 2025



Venue
CSIR-IMMT,
Bhubaneswar, India

8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

Sponsors & Supporters

Gold Sponsor



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Supporters



Lunch Sponsor



Lunch Co-Sponsor



8-10 October, 2025
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Exhibitors



8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

Media Partners



THINK ALUMINIUM. THINK AL CIRCLE.



8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

Participating Companies/Organizations

- 90+ Companies & Organizations
- 20+ countries
- Australia, Canada, France, Germany, Guinea, Japan, Hungary, Italy, Netherlands, Singapore, Sweden, Senegal, Denmark, Estonia, Russia, Switzerland, UAE, UK, USA & India



Conference Overview

- **Around 300 delegates, including 50+ international representatives**
- **80 technical presentations**
- **10 keynote addresses**
- **19 papers from HINDALCO & ABSTCPL,**
- **18 papers from Vedanta & BALCO**
- **15+ exhibitors**
- **Best Technical Paper Awards**
- **Special session by Aluminium Stewardship Initiative (ASI)**
- **ESG Awards**

Conference Overview (Contd.)

- As there are a large number of technical papers and keynote addresses, it is recommended to restrict each presentation in 15 minutes to highlights the main points.
- The conference souvenir will have all the abstracts, company details and advertisements and hard copies will be distributed among the delegates.
- All the technical papers will be available in the proceedings (BINDER Volume XII) and soft copy of the same will be made available for the delegates on the IBAAS website.

General Program Highlights

Registration Desk opens at 11AM on 7th October, 2025 and continues till 6PM at
IMMT Auditorium

8th October 2025	
9.30 - 11.00	Inaugural Session Followed by Opening of Exhibition
11.00 - 11.30	High Tea
11.30 - 13.00	Keynote Addresses & Presentation by Leading Experts
13.00 - 14.00	Lunch Break
14.00 - 15.30	Keynote Addresses & Presentation
15.30 - 16.00	Tea/Coffee Break
16.00 - 18.00	Presentation by Sponsors & Supporters
19.00 onwards	Dinner

General Program Highlights (Cont.)

9th October 2025	
9.30 - 10.30	Three Parallel Sessions Auditorium: Decarbonization and Aluminium Industry 4.0 Hall 1: Bauxite- Alumina Hall 2: Aluminium Smelting
10.30 - 11.00	Tea/Coffee Break
11.00 - 13.00	Three Parallel Sessions Auditorium: Decarbonization and Aluminium Industry 4.0 Hall 1: Bauxite- Alumina Hall 2: Aluminium Smelting
13.00 - 14.00	Lunch Break
14.00 - 15.30	Auditorium: Special Session by Aluminium Stewardship Initiative (ASI) - Panel Discussion
14.00 - 15.30	Two Parallel Sessions Hall 1: Bauxite- Alumina Hall 2: Aluminium Smelting
15.30 - 16.00	Tea/Coffee Break
16.00 - 17.00	Auditorium: ASI presentations
17.00 - 18.30	Auditorium: ESG Awards Ceremony
16.00 - 18.00	Two Parallel Sessions Hall 1: Bauxite- Alumina Hall 2: Aluminium Smelting
19.00 onwards	Dinner

General Program Highlights (Contd.)

10th October 2025	
9.30 - 10.30	Three Parallel Sessions Auditorium: Bauxite- Alumina Hall 1: Aluminium Smelting Hall 2: Aluminium Downstream
10.30 - 11.00	Tea/Coffee Break
11.00 - 13.00	Three Parallel Sessions Auditorium: Bauxite- Alumina Hall 1: Aluminium Smelting Hall 2: Aluminium Downstream
13.00 - 14.00	Lunch Break
14.00 - 15.30	Three Parallel Sessions Auditorium: Bauxite- Alumina Hall 1: Aluminium Smelting Hall 2: Aluminium Downstream
15.30 - 16.00	Tea/Coffee Break
16.00 - 18.00	Three Parallel Sessions Auditorium: Bauxite- Alumina Hall 1: Aluminium Smelting Hall 2: Aluminium Downstream
18.00 - 19.00	Concluding Session, Prize Distribution for Best Paper Presenter and High Tea

Some Interesting Papers

- A French company is presenting paper on how to use high silica bauxite in the alumina refinery. They are already setting up plant in China.
- A paper on differential alumina extraction technology of Sumitomo for processing high silica bauxite and on similar lines Hungarain paper on ILTD technology are interesting for refinery people.
- De-Ironing of Bauxite Ore Via Chlorination is interesting for non-metallurgical bauxite.
- Modern Efficient Alumina Refinery Digestion Design by Worley, Australia

Some Interesting Papers (Contd.)

- **Decarbonization of Aluminium: Emerging Industry Trends by WM**
- **Anthropogenic Soils through CCU of the Red Mud**
- **Performance and Advantages of Slotted Baked Anodes**
- **A Machine Learning Model for Aluminium Pot Longevity**
- **Smart Aluminium Smelters**
- **Transforming DROSS as by-products**
- **Reducing Carbon Footprint in Aluminium Extrusion**
- **Additive Manufacturing of Al-based alloys**

IBAAS-IMMT-IIM 2025 Exhibition

Featuring the German Hanger Setup



- **German Hanger Structure**
- **Fully Air-Conditioned**
- **Setup**
- **Wooden Platform**
- **Flooring**
- **Spacious Layout for stalls and networking**
- **World-Class Exhibition Experience**

8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

Conference Highlights

Special Session & Panel Discussion by Aluminium Stewardship Initiative (ASI)

Date: 9th October 2025 | Time: 2:00 PM – 6:00 PM

ASI'S ROLE IN THE ALUMINIUM VALUE CHAIN, INCLUSIVE SUSTAINABLE DEVELOPMENT

Special Session by

ASI

(Aluminium Stewardship Initiative)

A Special Session and Panel Discussion by the Aluminium Stewardship Initiative (ASI) will be conducted during the IBAAS-IMMT-IIM 2025 Conference & Exhibition, scheduled to be held on 9th October between 2 to 6PM. This session will focus on sustainability standards, ASI certification process, benefits and responsible practices across the aluminium value chain. It will also provide an opportunity for participating companies to engage in meaningful discussions with ASI on ESG performance, traceability, and the role of stewardship in promoting sustainable development.



8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

Conference Highlights

IBAAS – CETIZION Verifica ESG AWARDS 2025



IBAAS CETIZION Verifica Quality – Verified & Delivered

ESG AWARD CEREMONY

OCTOBER 8-10, 2025

VENUE
CSIR-IMMT BHUBANESWAR, INDIA

"A GREEN AND SMART ALUMINIUM INDUSTRY FOR TOMORROW"

REGISTER NOW

FEE: ₹ 75,000 (US\$ 900) + 18% GST APPLICABLE

CONTACT US FOR MORE INFORMATION

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Recognizing Sustainability in the Aluminium Industry

IBAAS-CETIZION Verifica ESG 2025 Awards

SAVE THE WORLD
Empower sustainable aluminium practices

SAVE WATER
Drive water-efficient innovations in metal processing

RECYCLE
Promote circular economy in aluminium

ECO LIFE
Build a cleaner, greener aluminium future

8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

Conference Highlights

Post - Conference Plant Visit to NALCO's Aluminium Smelter, Angul



1 Location

NALCO's Aluminium Smelter at Angul

2 Date

11th October 2025 (Saturday)

3 Fee

**Rs. 10,000 + 18% GST
(USD 125 + 18% GST)**

4

Capacity

**Limited to 30 delegates on a
first-come, first-served basis**

8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

Post Conference Visit

8.00 – 18.30 : Post - Conference Plant Visit to NALCO's Aluminium Smelter, Angul



- **A 35-seater luxury bus will leave at 8 AM from Hotel Swosti Premium**
- **Maximum number of allowed IBAAS delegates – 30 on first come first serve basis.**
- **Plant induction and visit 11 AM to 2 PM – followed by working Lunch – return Bhuabneswar at 6.30 PM**

Conference Venue & Accommodation

Venue

CSIR-IMMT, Bhubaneswar,
India

Accommodation

Several hotels available in and
around IMMT

<http://www.ibaas.info/accommodation-ibaas-2025>



8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

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... **Thank you** ...



8-10 October, 2025
CSIR-IMMT, Bhubaneshwar, India

