

Marching ahead towards  
Excellence & Innovation



**नालको**  **NALCO**  
National Aluminium Company Limited  
A NAVRATNA COMPANY

## OVERVIEW

National Aluminium Company Limited (NALCO) the Navratna CPSE under Ministry of Mines is one of the largest integrated Alumina – Aluminium complex in Asia. From the days of first commercial operation since 1987 the Company has continuously earned profits for last 32 years. The Company is the lowest cost producer of alumina & bauxite in the world as per Wood Mackenzie report. The Company is 3rd highest net foreign exchange earning CPSE in the year 2017-18. Presently, Government of India holds 52% equity of NALCO.

NALCO was incorporated in 1981 to utilise a part of the large Bauxite deposits discovered in east coast, with technological collaboration of Aluminium Pechiney, France (now Rio-Tinto-Alcan).The production of Alumina & ALuminium has not only addressed the need for self sufficiency in Aluminium but also given the Country a technological edge in producing this strategic Metal as per world standards.

NALCO is the first Public Sector Company in the country to venture into international market in a big way with London Metal Exchange (LME) registration in May, 1989. The Company is listed at Bombay Stock Exchange (BSE) since 1992 and National Stock Exchange (NSE) since 1999. The company has adopted ISO 9001, ISO 14001, OHSAS 18000, SA 8000 and ISO 50001 standards for various management systems.

### The capacity of operation units:

| UNIT                | CAPACITY     | UNIT                        | CAPACITY |
|---------------------|--------------|-----------------------------|----------|
| Bauxite Mines       | 68,25,000 MT | Wind Power Plant-I          | 50.4 MW  |
| Alumina Refinery    | 22,75,000 MT | Wind Power Plant-II         | 47.6 MW  |
| Aluminium Smelter   | 4,60,000 MT  | Wind Power Plant-III        | 50.0 MW  |
| Captive Power Plant | 1200 MW      | Wind Power Plant-IV         | 50.4 MW  |
|                     |              | Roof-top Solar Power System | 310 KWp  |



## BAUXITE MINE

A fully mechanised Bauxite open-cast Mine, having a capacity of 68.25 lakh MT is located at Panchapatmali hills of Koraput district in Odisha. It is one the most sophisticated and eco-friendly mining operations to be found worldwide. It features geo-statistical application and Computerised mine planning. This mine serves as feed -stock to Alumina Refinery at Damanjodi located downhill. The transportation is done through a 14.6 km, long single-flight, multi-curve, variable-speed cable belt conveyor of 1800 TPH capacity.



## ALUMINA REFINERY

NALCO's energy efficient Alumina Refinery utilises time tested Bayer's process technology of atmospheric pressure digestion at low temperature. The normative capacity of Alumina Refinery is 21 lakh tonnes per annum. Alumina produced is used to meet Company's requirements for production of primary aluminium at smelter. After meeting the consumption need of Company's Smelter plant at Angul, the balance quantity of Alumina goes to International market through Visakhapatnam port.



## SMELTER PLANT

Located in Angul in Odisha, NALCO's 4.60 lakh TPA Aluminium Smelter is based on advanced technology of smelting & pollution control and comprises four potlines with 240 electrolytic potcells in each, along with integrated facilities for casting of ingots, sows, billets, strips, wire rods and chequered sheets. Smelter unit has a 45,000 TPA Rolled Products Unit(RPU) having facilities to produce sheets and coils for a variety of end uses. This unit has the advantage of direct molten metal transfer from the Smelter.



## CAPTIVE POWER PLANT

Close to the Smelter, a Captive Power Plant of 1,200 MW capacity has been established for firm supply of power to the Smelter. The coal demand of the plant is mostly met from a dedicated mine of Mahanadi Coalfields Limited. The plant is also connected with State Grid for sale of surplus power.



## WIND & SOLAR POWER

NALCO diversified into wind power with the commissioning of a 50.4 MW wind power plant at Gandikota, Andhra Pradesh in 2012. The 2nd Wind Power Plant of 47.6 MW at Jaisalmer, Rajasthan was commissioned in 2014. Growing further in enhancing its renewable energy portfolio, a 50 MW Wind Power Plant in Jaisalmer, Rajasthan and a 50.4 MW Wind Power Plant at Sangli, Maharashtra was commissioned in FY 2016-17. The Total Wind Power Plant in Operation is 198.4 MW.

The Company has also utilised the available roof top space in Corporate Office, township, Research centre, training centre at Bhubaneswar for setting up of 310 kWp solar power plant.



## PORT & RAIL FACILITIES

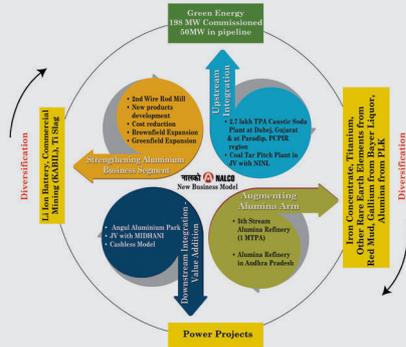
On the inner harbour of Visakhapatnam port on the Bay of Bengal, NALCO has established mechanised storage and ship handling facilities for exporting calcined Alumina and importing Caustic Soda. The port is also used for export of aluminium metal and import of normal as well as project cargoes.

NALCO also uses the ports of Paradeep and Kolkata for export of Aluminium. Besides, NALCO operates own locomotives and wagons for surface transportation of finished goods and raw materials.



# NEW CORPORATE PLAN

A New Corporate Plan of the Company has been developed as per the guidelines of NITI Aayog, envisaging progressive growth of the company with well-defined 3 year action plan, 7 year strategy & 15 years vision of being a Premier and Integrated company in the Aluminium value chain with strategic presence in Mining both domestic & global, Metals and Energy sectors.



# PRODUCTS

Registered with London Metal Exchange, the products of NALCO enjoy worldwide reputation on account of their quality, reliability in shipment backed by high standard customer service. NALCO is among the most advanced manufacturing units in the world and its products are sold in more than 20 countries.



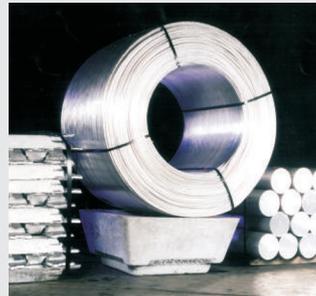
## Alumina

- Calcined Alumina
- Alumina Hydrate
- Speciality Aluminas & Hydrates

## Aluminium Metal

(CG, EC & LME grades)

- **Standard Ingots** (each approx. 20/18.5 / 22.5 kg)
- **Sow Ingots** (each max. 750 kgs)
- **T-Ingots** (each max. 650 kg)
- **Wire Rods** (in coil form, 9.5 / 11.95 mm dia, weight approx. 2 mt)
- **Billets (in six sizes)** :127 ± 1.5 mm, 152 ± 1.5 mm, 178 ± 1.5 mm, 203 ± 1.5 mm, 229 ± 1.5 mm, 254 ± 1.5 mm dia)
- **Flat Rolled Products** (coils & sheets)
- **Chequered Sheet** (Thickness: 0.30 mm to 3.0 mm)



## Upcoming Products

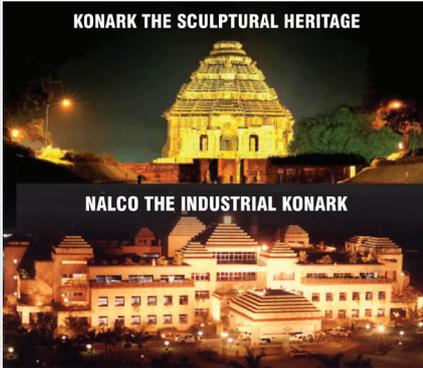
- Fan Blade Stock
- Foil Stock



## NALCO IN NATION BUILDING

NALCO and its CSR arm NALCO Foundation, are actively working in the following areas:

1. Installation of Solar Lights. 2. Open defecation free project. 3. Augmentation



of toilets under Swachh Vidyalaya Abhiyan. 4. Development of Iconic Shrine Puri under Prime Minister's Iconic Shrine Project. 5. Integrated Health Management System. 6. Secondary plus eye care Hospital with LV Prasad eye Institute. 7. Skill Development.

### NALCO ki LADLI

The Company has launched 'NALCO ki Ladli' Scheme to promote meritorious girl students from BPL families, under the 'Beti Bachao, Beti Padhao' programme of Govt. of India. Going a step further, NALCO has launched an innovative 'Employee



Social Responsibility' Programme, in which the employees of the Company are contributing and helping in the education of the poor girl children.

## SWACHH BHARAT ABHIYAN

As a PSU-partner in Govt's Swachh Vidyalaya Abhiyan, NALCO has constructed 479 toilets in Odisha and



Andhra Pradesh. NALCO has now taken up the project to make the remote villages of Damanjodi and Angul Open Defecation Free (ODF).

## EDUCATION

NALCO Foundation is working to bring children from the tribal district of Koraput to mainstream education. One of its major projects is the collaboration with reputed residential Institutions for providing quality education to the children of periphery villages of Damanjodi sector in Koraput. The Company has so far provided residential education of 920 children from 18 periphery villages. The total cost related to study, lodging and boarding of those students till they complete schooling is being borne by NALCO Foundation.

## INTEGRATED HEALTH SERVICES

NALCO has set up two Company-run 50-bedded speciality hospitals, one each at Damanjodi and Angul. Besides, NALCO Foundation runs eight mobile health units and two OPDs for villagers living in the vicinity, providing free medicines and treatment every day. More than one lakh patients are being treated every year. Recently, the company has inaugurated a modern eye hospital, in collaboration with LV Prasad Eye Institute at Angul.

## SWACHH ICONIC SHRINE

Under Prime Minister's Swachh Bharat Mission and Iconic Shrine



Development Programme, the Company has taken up 25 projects for comprehensive development of the holy city Puri.

## ENVIRONMENT

- Environment Management Systems in all production units confirm to the ISO-14001 norms
- More than 10 million trees planted
- State-of-the-art technology for pollution control
- Sustainable utilization of natural resources
- De-fluoridisation Plant utilizing break-through Nano-based Emrion Technology to prevent fluoride contamination in Angul.

## NALCO WORKS & OFFICES

### Regd. & Corporate Office

Nalco Bhawan, P/1, Nayapalli  
Bhubaneswar - 751013, Odisha, India  
Phone : 0674 - 2301988 to 2301999  
Fax: 0674- 2300550/ 2300470/ 2300521/  
2300640  
Website: [www.nalcoindia.com](http://www.nalcoindia.com)

### Mines & Refinery

Mines & Refinery Complex,  
Damanjodi - 763008, Dist.: Koraput (Odisha)  
Phone : 06853 - 254515 / 254550/ 254251  
Fax : 06853 - 254361 / 254214

### Captive Power Plant

Dist.: Angul (Odisha)  
PIN- 759122  
Phone : 06764 - 220158  
Fax : 06764 - 220646

### Smelter Plant

Nalco Nagar - 759145,  
Dist.: Angul (Odisha),  
Phone : 06764 - 220110  
Fax : 06764 - 220738 / 220206

### Port Facilities

Port Area,  
Visakhapatnam - 530035  
Phone : 0891- 2878207 / 2878219  
Fax: 0891-2561598  
E-mail: [gmpport@nalcoindia.co.in](mailto:gmpport@nalcoindia.co.in)

### Paradeep (Port Office)

'V' Point, Badapadia, Paradeep - 754142  
Phone : 06722 - 221286  
Fax : 06722 - 221286  
E-mail: [nalco\\_paradeep@nalcoindia.co.in](mailto:nalco_paradeep@nalcoindia.co.in)

### Regional Offices

#### Eastern Region (Kolkata)

1st Floor, J. K. Millennium Centre,  
46-D, Chowringhee Road,  
Kolkata - 700071  
Phone : 033 - 66224510-34,  
Fax : 033 - 22878936 / 22810393  
e-mail: [rmeast@nalcoindia.co.in](mailto:rmeast@nalcoindia.co.in)

#### Western Region (Mumbai)

215, T. V. Industrial Estate,  
S. K. Ahire Marg, Worli, Mumbai - 400030  
Phone : 022 - 24939288 / 89  
Fax : 022 - 24950500  
E-mail: [bbsinghbabu@nalcoindia.co.in](mailto:bbsinghbabu@nalcoindia.co.in)

#### Northern Region (New Delhi)

Core-4, 5th Floor, South Tower,  
District Centre, Scope Minar,  
Laxmi Nagar, Delhi - 110092  
Phone: 011 - 22010793 / 794 / 801  
E-mail: [pradyumna.pradhan@nalcoindia.co.in](mailto:pradyumna.pradhan@nalcoindia.co.in)

#### Southern Region (Chennai)

3E, Century Plaza, 560 Anna Salai  
Teynampet, Chennai - 600018  
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Fax : 044 - 24343495  
E-mail: [rmsouth@nalcoindia.co.in](mailto:rmsouth@nalcoindia.co.in)

#### Branch Office Bengaluru

Ground Floor, JaiBhavan, No. 5 & 6,  
1st Stage, 1st Phase, BTM Layout,  
Bannerghatta Main Road,  
Bengaluru - 560029  
Phone: 080-26637083/26637297/ 26637084  
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happiness... through Caring & Sharing*



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