



# TurnKey Solutions

for Bulk Material Handling Industries



**Methods (India) Private Limited**

No. 5A, Hoskote Industrial Area, Bangalore - 562 114.

Tel : +91 80 27971934 TO 27971938

Fax : +91 80 27971453 / 27971454



# INTRODUCTION

## Multiple Products & Solutions for Bulk Material Handling Industries

Methods (India) Private Ltd is a multi-product, rapidly expanding private sector company supplying equipment and providing turnkey solutions to bulk material handling industries.

Our products and solutions are engineered to provide efficient, smooth & trouble free functioning of moving or storing of bulk material. A constant quest for excellence has gained us the reputation as one of the best in the field of bulk material handling.

Methods India, has flourished under the able leadership & expertise of Mr. E.J. Jose, our Managing Director in the last 30 years. Superior design, extensive engineering skills and efficient management has helped the company acquire a leading position in this highly specialized industry.



## Comprehensive In – House Manufacturing Facilities

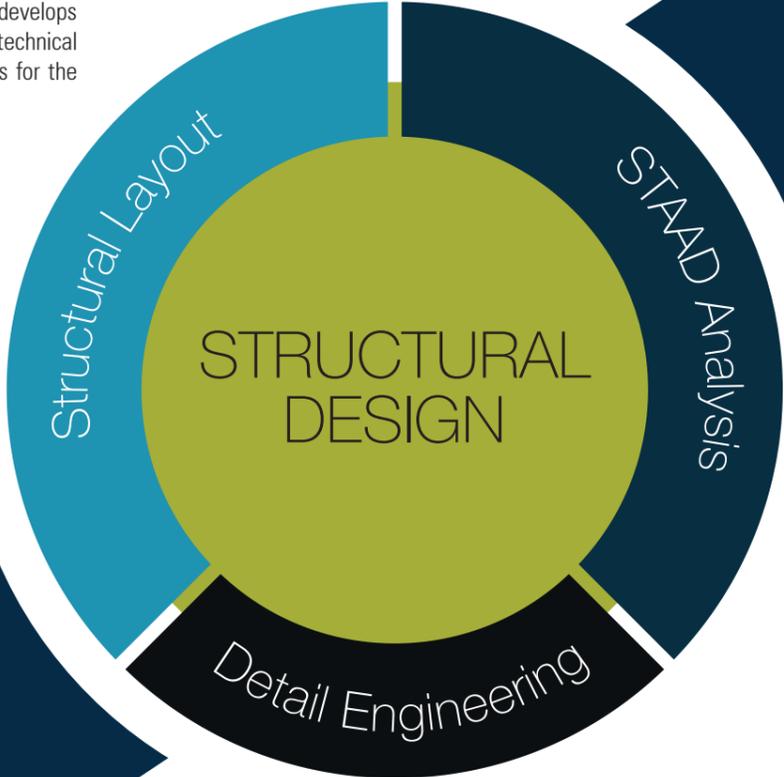
An ISO 9001 : 2008 accredited company, Methods India is located in Hoskote Industrial Area, Bangalore, with a team of over four hundred employees & a built up area of one hundred and sixty thousand sq. ft. facilities for complete in-house manufacturing.



Methods also have an Independent Design House (IDH) for innovative design and customization of bulk material handling systems. Over three decades of expertise combined with rapid advancement in technology has made Methods India one of the most reliable engineering industries in the field of Bulk material handling equipment. Our IDH division forms a vital part in creating design solutions that meet and exceed customer expectations.

Our Design team comprises of over fifty trained and experienced engineers with specialized skills in the field of structural & mechanical engineering. The IDH team develops complete layouts including electrical & civil, technical specifications, system design and detailed drawings for the entire turnkey projects.

One of the sensitive areas associated with material handling systems are its structural design, where the design & quality of structure plays a crucial role. At Methods IDH we follow a strict sequence of engineering process for design of all structures to enable us deliver world class material handling systems.



# IDH for Innovative Structural Design & Planning

## STRUCTURAL LAYOUT

- Feasibility
- Aesthetic Design

## STAAD ANALYSIS

- 3D analysis using STAAD PRO
- Review of Structural Stability

## DETAIL ENGINEERING

- Using TEKLA 3D modelling





## Fast Growing Reputation and Demand

From the current USD 25 Million annual turn-over, the company is projected to achieve a major increase in turn-over owing to increased awareness of our quality deliverables and popularity in the industry. Methods owes its success to our highly committed & skilled workforce who deliver the very best ensuring complete customer satisfaction - a major factor in the rapid increase in demand for our products among our discerning customers.

## Supporting Global Leaders

Methods has successfully completed major engineering projects for the Government, Non - Government and overseas organizations.

The company also executes specialized fabrication works for:

1. M/s. Isgec John Thompson, India
2. M/s. ThyssenKrupp Industries India Pvt. Ltd.,
3. M/s. Walchandnagar Industries Ltd., India

## Extensive Domain Expertise in Diverse Industries

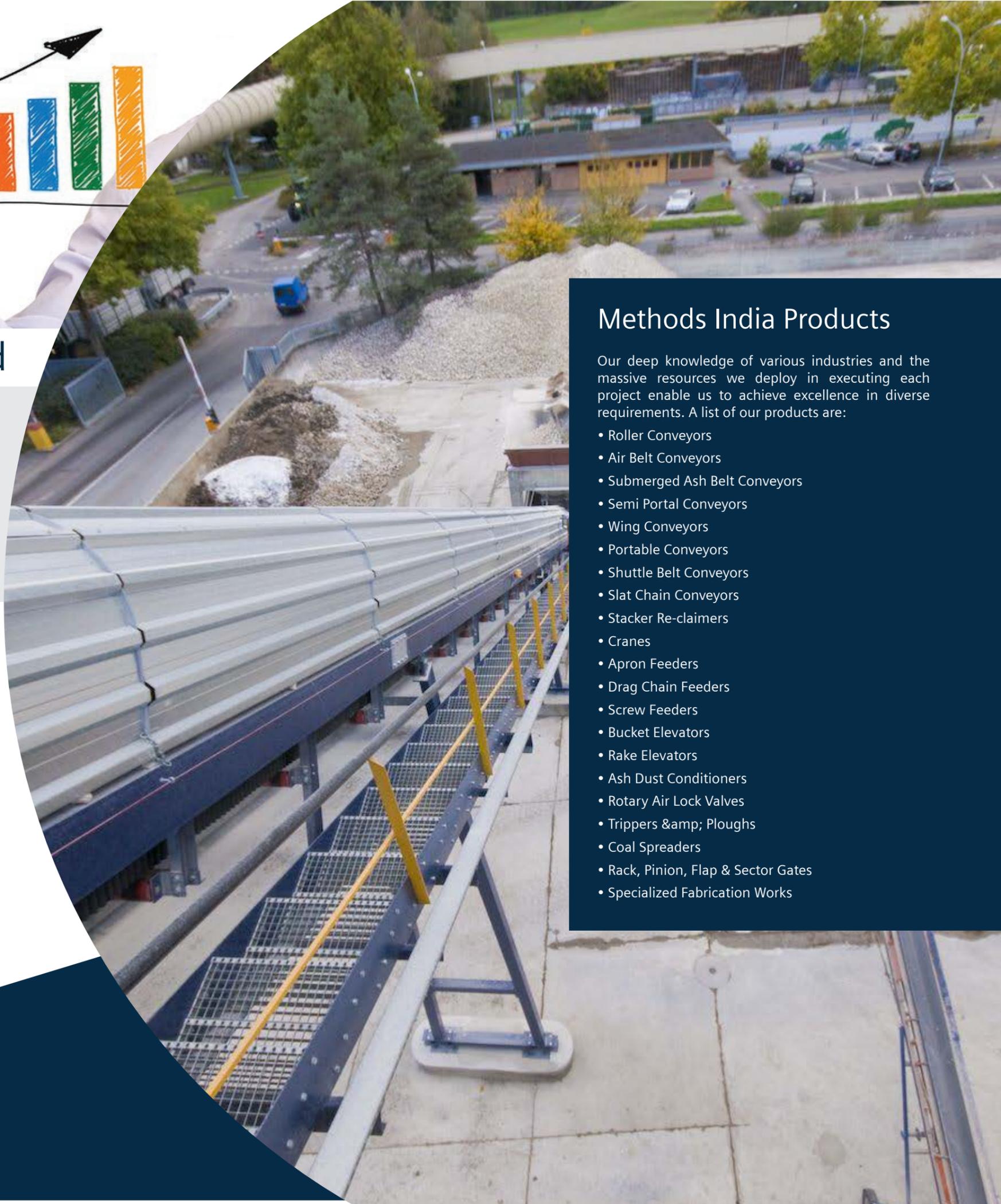
Methods India is a leader in the design and manufacture of bulk material handling equipment for industries across India and overseas. We custom engineer, build and integrate conveyor systems to transport and feed material; serving industrial requirements such as:

- Integrated Sugar Complex
- Co-generation Power Plants
- Thermal Power Plants
- Metallurgical & Mining Process Plants
- Aggregate Crushing Screening Plants
- Cement Plants
- Fertilizer Plants
- Non-Ferrous & Allied Industries
- Food Industries

## Methods India Products

Our deep knowledge of various industries and the massive resources we deploy in executing each project enable us to achieve excellence in diverse requirements. A list of our products are:

- Roller Conveyors
- Air Belt Conveyors
- Submerged Ash Belt Conveyors
- Semi Portal Conveyors
- Wing Conveyors
- Portable Conveyors
- Shuttle Belt Conveyors
- Slat Chain Conveyors
- Stacker Re-claimers
- Cranes
- Apron Feeders
- Drag Chain Feeders
- Screw Feeders
- Bucket Elevators
- Rake Elevators
- Ash Dust Conditioners
- Rotary Air Lock Valves
- Trippers & Ploughs
- Coal Spreaders
- Rack, Pinion, Flap & Sector Gates
- Specialized Fabrication Works



# Fabrication & Painting

## A Modern, Mechanised & Composite Facility

Fabrication & machining is executed in our one hundred and sixty thousand sq. ft. built-up Bangalore facility. The fabrication area is a composite facility of a modern machine shop, fabrication shop & assembly line with completely mechanised bays and levelled platforms to enable large volume works carried out with high geometrical accuracy.

Methods India fabrication facility also includes a painting shop with two completely mechanised bays for surface preparation by grit blasting to SA 2½ standards and painting.

The fabrication shops are fitted with a battery of equipment as enumerated below:

### MATERIAL HANDLING

	Qty.	Max. Capacity
EOT Crane	18	10T
Gantry Crane	10	30T
Jib Crane	2	5T
Mobile Crane	2	10T
Hydraulic Press (Straightening Machine)	1	150MT

### MATERIAL HANDLING

Lathe Machine	10
(Max Size - 2M Dia X 6.5M Length)	
Milling Machine	2
Shaping Machine	2
Band Saw Power Cutting Machine	2
Hydraulic Power Hack Saw Cutting Machine	5

### MATERIAL PREPARATION

	Qty.	Max. Thickness
Profile Gas Cutting Machine	3	32MM
Pug Cutting Machine	12	75MM
Plasma Cutting Machine	2	10MM
Bending Machine	2	
Shearing Machine	1	
Plate Rolling Machine	2	8MM
Radial Drilling Machine	3	10MM
Hydraulic Iron Worker Machine	1	16MM
Mechanical Iron Worker Machine	1	60MM

### MATERIAL PREPARATION

Arc Welding	54
Mig Welding	36
Submerged Arc Welding	1



# Quality Assurance & Quality Control

Over the years Methods has trained a team of fifteen plus QA & QC personnel having NDT method certification. The quality assurance department prepares quality assurance plan & coordinates with clients & consultants for the approval of QAP wherever necessary. Quality Assurance Department also prepares welding procedure specification (WPS) and Procedure Qualification Record (PQR) to qualify the WPS.

In addition the Quality Assurance Department prepares welders performance qualification record (WPQR) for qualifying welders. Quality control department activity commences at the incoming raw material inspection phase till the end of despatch. The Quality Assurance Department monitors and inspects the quality aspects at various stages of manufacturing and meticulously records the same. A key factor in our ability to deliver high quality products are the series of stringent measures undertaken by our QA&QC department.





## Erection & Commissioning

Methods has in place a team of well trained & experienced personnel in the field of erection & commissioning, who with the support of four external groups manning two hundred personnel fulfil the main objective of the E&C department such as construction, erection, testing & commissioning of turnkey projects on schedule. Each of our turnkey projects are assigned to a site engineer who follows a strict sequence of procedures in order to complete the project on schedule in liaison with the project co-ordinator stationed at Bangalore.

## Our Presence around the World

Overseas operations at Methods India extends to several countries around the world with administrative, engineering and manufacturing capabilities in:

- Srilanka
- Thailand
- Spain
- Vietnam
- Philippines
- Kenya
- Tanzania
- Congo
- Sudan
- South Africa
- Sierra Leone
- Zambia
- Ethiopia
- Cambodia
- Mozambique
- Senegal
- Colombia
- Guatemala



# Overseas Clients

Having a presence in over 18 countries, some of our prestigious projects include :

M/s. White Nile Sugar Co. Ltd., Sudan

M/s. Compagine Sucriere Senegalaise, Senegal

M/s. San Carlos Bioenergy Inc., Philippines

M/s. Tendaho Sugar Factory, Ethiopia

M/s. TPC Ltd., Tanzania

M/s. Mumias Sugar Company Ltd., Kenya

M/s. Zambezi Portland Cement Ltd., Zambia

M/s. GUP, Spain



# Clients

M/s. ISGEC HEAVY ENGINEERING LIMITED.

M/s. THYSSENKRUPP INDUSTRIES INDIA PVT. LIMITED.

M/s. F.L. SMIDTH MINERALS PRIVATE LIMITED.

M/s. WALCHANDNAGAR INDUSTRIES LIMITED.

M/s. NEYVELI LIGNITE CORPORATION LIMITED.

M/s. BANNARI AMMAN SUGARS LIMITED.

M/s. TAMILNADU NEWSPRINT AND PAPERS LIMITED.

M/s. FIVES-CAIL KCP LIMITED

M/s. ENMAS GB POWER SYSTEMS PVT LIMITED.

M/s. BELL CERAMICS LIMITED.

M/s. JINDAL STEEL & POWER LIMITED.

M/s. DHANALAKSHMI SRINIVASAN SUGARS PRIVATE LIMITED.

M/s. DELKOR TECHNIK INDIA PVT. LIMITED.

M/s. DEMAG CRANES & COMPONENTS INDIA PVT. LIMITED.

M/s. GREENESOL POWER SYSTEMS PRIVATE LIMITED.

M/s. HAIDERGARH CHINI MILLS.

M/s. INDIAN CANE POWER LIMITED.

M/s. ITC LIMITED.

M/s. INDUR GREEN POWER PVT. LIMITED.

M/s. KALPA-TARU POWER TRANSMISSION LIMITED.

M/s. LOKMANGAL SUGAR ETHANOL & COGENERATION INDUSTRIES Ltd.

M/s. NSL KRISHNAVENI SUGARS LIMITED.

(Formerly M/s. KRISHNAVENI SUGARS LIMITED)

M/s. NSL SUGARS (TUNGABHADRA) LIMITED.

(Formerly M/s. SIRUGUPPA SUGARS & CHEMICALS LIMITED)

M/s. NSL SUGARS LIMITED.

(Formerly M/s. SCM SUGARS LIMITED)

M/s. R.K. POWERGEN PVT. LIMITED.

M/s. SHIRAGUPPI SUGAR WORKS LIMITED.

M/s. SUGUNA POULTRY FARM LIMITED.

M/s. THE GODAVARI SUGARS LIMITED.

M/s. UTTAM SUCROTECH INTERNATIONAL PVT. LIMITED.

M/s. VIJAYANAGAR SUGARS PRIVATE LIMITED.

M/s. KESAR ENTERPRISES LIMITED.

M/s. PRAJ INDUSTRIES.

M/s. SHREE BASAVESHWAR SUGARS LIMITED

M/s. DHARANI SUGARS & CHEMICALS LIMITED

M/s. LOKMANGAL MAULI INDUSTRIES LIMITED

M/s. WHITENILE SUGAR COMPANY LIMITED

M/s. THE NATIONAL CO-OPERATIVE SUGAR MILLS LIMITED

M/s. ARIGNAR ANNA SUGAR MILLS LIMITED

M/s. PERAMBALUR SUGAR MILLS LIMITED

M/s. M.R.KRISHNAMURTHY CO-OPERATIVE SUGAR MILLS LIMITED

M/s. THE VELLORE CO-OPERATIVE SUGAR MILLS LIMITED

M/s. CHANGALRAYAN CO-OPERATIVE SUGAR MILLS LIMITED

M/s. TENDAHO SUGAR FACTORY

M/s. ADDAX BIO ENERGY

M/s. SAGAR SUGARS & ALLIED PRODUCTS LIMITED

M/s. TATA CHEMICALS LIMITED

M/s. BIRLA COPPER LIMITED

M/s. NAV BHARAT FERRO ALLOYS LIMITED

M/s. HINDUSTAN ELECTRO GRAPHITE LIMITED

M/s. INDIAN ALUMINIUM CO. LIMITED

M/s. THERMAX BABCOX & WILCOX LIMITED

M/s. E.I.D. PARRY INDIA LIMITED

M/s. ACC LIMITED

M/s. GREEN VALLEY INDUSTRIES PRIVATE LIMITED

M/s. JUD CEMENTS PRIVATE LIMITED.

M/s. ZUARI CEMENT LIMITED

M/s. F.A.C.T LIMITED

M/s. I.R.E LIMITED

M/s. NATIONAL MINERAL DEVELOPMENT CORPORATION LIMITED

M/s. KUDREMUKH IRON ORE COMPANY LIMITED

M/s. HINDALCO INDUSTRIES LIMITED

M/s. AERONAUTICAL DEVELOPMENT ESTABLISHMENT

M/s. PARRY AGRO INDUSTRIES LIMITED

M/s. HARRISONS MALAYALAM LIMITED

M/s. BIHAR CAUSTICS & CHEMICALS LIMITED

