

European Ceramic Technology Suppliers (ECTS)

Powered by VDMA

Lyoner Strasse 18

60528 Frankfurt am Main

Phone +49 69 66 03-12 54

Fax +49 69 66 03-22 54

E-Mail alessandro.colucci@vdma.org

ects 
european ceramic technology suppliers

Toward an Energy Efficient Production of High-Quality Bricks & Tiles in India:

**Solution Providers Meet the
West Bengal Heavy Clay Community**

Kolkata, February 24, 2014



<http://ects.vdma.org>

Powered by



Dear brick makers,

13 companies from Europe present technical solutions for an energy efficient production of high-quality bricks and tiles to the local industry. We cordially invite you to attend our symposium held in the Taj Bengal Hotel in Kolkata on February 24, 2014. Your presence will serve as a source of encouragement to us.

The event will be organized in cooperation with the VDMA office, German Engineering Federation, in Kolkata.

ECTS members are leading providers of technology for the heavy clay industry thus being the ideal partners for a thriving India: a cost-conscious market which starts to give preference to higher quality products. In order not to become self-complacent and to lose ground to alternative building materials, technology suppliers and their customers have to work hand in hand to foster and develop new product developments. The event may serve as a platform to discuss demands and challenges local brick makers are facing.

Most of the companies are already familiar with the Indian market and its particular needs.

After a successful road-show in 2011 with workshops in Chandigarh and Varanasi that were attended by more than 500 participants and a symposium in 2012 in Bangalore, this is the third visit of an ECTS delegation to India in a row.

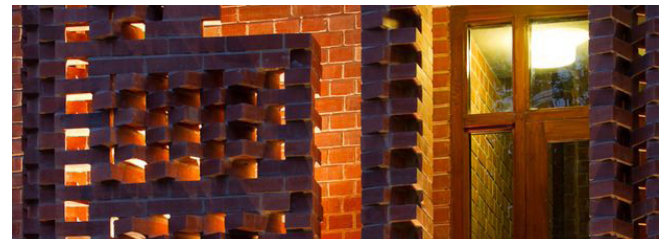
We look forward to meeting you in Kolkata.



Alessandro Colucci
Director ECTS



Rajesh Nath
Managing Director VDMA India



Pictures: Cover and Pages 3 and 21

Wienerberger AG: Vasant Vihar Residence, New Delhi, India
Architects: Pankaj Vir Gupta, Christine Mueller (Virmueller Architects)
Photographs: André J Fanthome (me@andrefanthome.com)

Programme

ECTS Symposium
February 24, 2014
9:30 am – 5:30 pm

9:30-10:00
Registration

10:00-10:25
Inaugural Session (Keynote addresses)

Preparation and Shaping Equipment (10:25-12:55)

10:25-10:50
Bongioanni Macchine: The brick industry in the 21st century - view from a centenary company in the industry

10:50-11:15
De Boer/Damle: Ishtika Mixerpress – The first ‘natural’ step towards mechanization & De Boer Gripper – A revolutionary tool for handling bricks

11:15-11:40
Eirich: Modern mass preparation for the heavy clay industry

11:40-12:05
Händle: Resource efficient bricks - Opportunities and challenges for the Indian brick industry

12:05-12:30
Talleres Felipe Verdés: Clay preparation and shaping for India

12:30-12:55
Tecnofilieri: Tailor-made extrusion

Complete Plants (12:55-3:10, including lunch break)

12:55-1:20
Beralmar Tecnologic: Modern brickmaking in India - a profitable investment

Programme

Taj Bengal Hotel
34B, Belvedere Road
Alipore - 700 027 Kolkata

1:20-2:20
Lunch Break

Complete Plants (Contd.)

2:20-2:45
Ceratec: Brick industry - Local business or industry?

2:45-3:10
Ceric: Strategies and solutions for hollow brick production

Heat Treatment (3:10-4:50)

3:10-3:35
Bernini: Firing system, efficiency for Indian kilns

3:35-4:00
Elster Kromschroeder: News about industrial heating systems for the ceramic industry

4:00-4:25
Forgestal: Refractory applications in the heavy clay industry

4:25-4:50
Refratechnik Ceramics - Refractory systems for progressive and economical brick firing

4:50-5:00
Closing Remarks

5:00-5:30
B2B Talks

End of Conference



BERALMAR TECNOLOGIC S.A.
Av. del Vallès 304
08227 Terrassa (Barcelona)/Spain
Phone +34 93 731 22 00
Fax +34 93 731 44 83
info@beralmar.com
www.beralmar.com

BERNINI IMPIANTI SRL
Via Michelino 77
40127 Bologna/Italy
Phone +39 051 51 12 16
Fax +39 051 51 10 32
info@bernini-impianti.it
www.bernini-impianti.it



BERALMAR TECNOLOGIC S.A. is a manufacturer and supplier of ceramic technology from Terrassa (Barcelona), specialised in the processes of drying, firing and automations for the heavy clay industry.

BERALMAR designs, manufactures and supplies every kind of firing systems for every fuel available, drying equipment such as ventilators and heat generators, automatic control systems for the processes of drying and firing, and every kind of automations for a brick plant. BERALMAR also develops engineering projects and supplies modern tunnel kilns and different types of dryers.



Bernini Impianti is a leading company in the production of firing systems for kilns and dryers keeping in mind how important the firing process is in terms of energy consumption, quality of fired products and environmental control.

With its 50 years of activity in this sector, it is classified as one of the most qualified companies with hundreds of plants installed all over the world.

Thanks to a team of technicians and engineers, the company is not only a simple supplier but above all a reliable partner offering experience and great skills in developing projects and the most suitable solution according to customers' needs.



BONGIOANNI MACCHINE S.p.A.
Via Macallè, 36/44
12045 Fossano/Italy
Phone +39 0172 650-511
Fax +39 0172 650-550
info@bongioannimacchine.com
www.bongioannimacchine.com

Ceratec SA
Rue du Touquetstraat 228
7782 Ploegsteert/Belgium
Phone +32 56 56 57 58
Fax +32 56 56 55 05
ceramic@ceratec.be
www.ceratec.eu



BONGIOANNI MACCHINE S.p.A., founded in 1907, is a leading manufacturer of machines and equipment for the clay brick and roofing tile industry, and is certified according to the Norms UNI EN ISO 9001, which always ensures compliance to customer requirements and satisfaction. Through the supply of machines worldwide, BONGIOANNI has consolidated its experience and is now one of the major suppliers to the industry.

BONGIOANNI MACCHINE is leader all over the world for the manufacturing and selling of machines and equipment for the production of clay bricks and roofing tiles; from the quarry to the extruded or pressed product. BONGIOANNI MACCHINE supplies a complete range of machines with high quality standard and innovation according to the best tradition of the BONGIOANNI brand and in particular:

- Automatic box feeders
- Rubber belt conveyors for clay
- Clay crushers
- Buckets excavators
- Pan mills
- Clay disintegrators
- Stone separators
- Refining roller mills
- Automatic lathes
- Mixers
- Double shaft filter mixers
- Sifting mixers
- Extruders
- Presses for tiles



Ceratec is an experienced integrating and engineering business, producing equipment for the heavy clay building materials industry. Our activities include engineering, manufacturing, setting up and commissioning of a wide range of equipment up to complete turnkey plants:

- Preparation & shaping, all capacity
- Kilns and dryers, of different types
- Setting and deacking systems
- Refurbishing of machines
- Expertise, technical assistance, training

We are proud to have 85 years of experience in creative brick making technology, all over the world!





CERIC Technologies
42 rue de Paradis
75010 Paris/France
Phone +33 1 53 05 55 00
Fax +33 1 43 12 92 30
info@ceric.fr
www.ceric.com

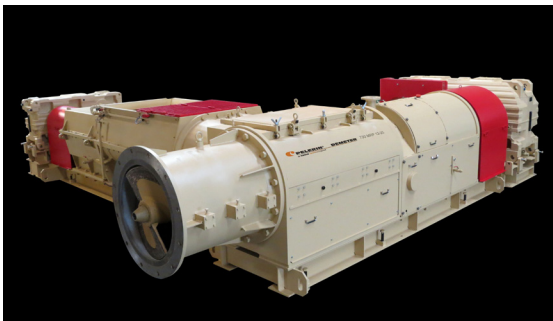
De Boer Machines Nederland B.V.
Bijsterhuizen 2402
6604 LL Wijchen/Netherlands
Phone +31 24 3 77 22 33
Fax +31 24 3 78 39 24
info@deboermachines.nl
www.deboermachines.nl



CERIC Technologies, founded 50 years ago by ceramic engineers, is the world expert in turnkey solutions and services for the production of heavy clay building materials. CERIC Technologies is a major player in the evolution of heavy clay technology by developing and controlling each of the process steps necessary to this business:

- Raw material preparation and product's shaping
- Industrial thermics: dryers, kilns, burners
- Process control and supervision
- Handling, automation and robotics
- Production data management

Since its creation, CERIC has installed more than 460 plants in the whole world. CERIC leans in a long tradition of innovation and technological leadership. Consequent research, tests and cooperation with customers lead to optimized processes and innovative products perfectly adapted to customers' demands. Individual solutions which also contribute to sustainable development and environmental protection ensure customer satisfaction and sustainability. With the desire to innovate and improve equipment and processes, CERIC provides advanced solutions for the reduction of energy consumption and the improvement of process and process stability.



Established in 1936, De Boer Machines Nederland B.V. is a subsidiary company of De Boer Holding B.V. The group is specialized in the production and sales of a variety of equipment for „soft-mud“ brickmaking under well-known names as **Aberson, De Boer, Hubert, Daanen and Petersen.**

These machineries for the heavy ceramic industry are delivered all over the world (in Europe, U.S.A., Asia and Australia).

Starting in 2009 De Boer Damle Private Limited was founded in India and started production and sales of De Boer soft mud equipment in the Indian market.

The moulding process

Today the machine-moulding techniques are modern, automated process engineering. The particular features of the shaping process call for a relatively low plasticity at the press. This also effects the preparation plant: not a high degree of fine grinding but rather an optimum disintegration of the raw material, and achieving the necessary pressing moisture, are to the fore. To meet the new production process standards regarding energy consumption, De Boer Machines Nederland B.V. has developed a system whereby up to 25% perforation can be achieved without changing the look of the bricks.

Shaping

At the mould chain press the moulds are filled with clay and repressed. The green bricks are turned out by the ejector mechanism and downstroke frame. The largest automatic mould chain press has a capacity of approx. 42.000 green bricks per hour. The mould chain press is integrated into the production process with the help of the stored programme control and automated signaling. The De Boer – mould chain presses are available in several sizes with capacities from 3.000 to 42.000 bricks per hour.



Maschinenfabrik Gustav Eirich
GmbH & Co KG
Walldürner Straße 50
74731 Hardheim/Germany
Phone +49 6283 51-0
Fax +49 6283 51-325
eirich@eirich.de
www.eirich.com

Maschinenfabrik Gustav Eirich is a leading German supplier of industrial material processing solutions. Machinery, systems and process technology for mixing and fine grinding make up the company's core portfolio.

Established in 1863, the family-owned enterprise has developed over the years into a group of 11 companies on 5 continents with a total workforce of approx. 1,500 employees.

For the ceramic sector EIRICH offers machines for pelletizing, blunging, deaerating, plasticizing, hot mixing, cooling, wet grinding, dry grinding, and for many more processes. EIRICH technologies are in use today in the ceramic industry all over the world, from the modern roof tile right through to high-tech ceramics.



Elster GmbH
Strothweg 1
49504 Lotte (Büren)/Germany
Phone +49 541 1214-0
Fax +49 541 1214-370
info@kromschroeder.com
www.kromschroeder.com



Elster Kromschroeder is your effective partner when it comes to the safe and economical use of natural gas. The company was founded in 1865 and is a world leader in the manufacture of gas meters for domestic households and commercial premises. In the development and production of safety valves, controller components for heating systems and systems for measuring and controlling industrial heating processes, Elster Kromschroeder likewise occupy a leading position in international competition. Their product palette is rounded off by a wide range of services based on the use of gas as a source of energy.

Innovative and technically sophisticated products and the ability to react flexibly to the customer's individual requirements are the most important criteria for the success of the company. In the process, close relations with the customer are ensured through a highly-developed network of production sites, sales outlets and service support points. Over the years, Kromschroeder have further strengthened their position in the market by means of acquisitions and joint ventures. In this connection, there has been given particular attention to the aspect of extending international business activities.





FORGESTAL S.L.
Camí Ral, 104
Pol. Ind. Sud
08292 Esparreguera/Spain
Phone +34 93 777 87 07
Fax +34 93 777 87 14
forgestal@forgestal.com
www.forgestal.com

HÄNDLE GmbH Maschinen
und Anlagenbau
Industriestrasse 47
75417 Muehlacker/Germany
Phone +49 7041 891-1
Fax +49 7041 891-232
info@haendle.com
www.haendle.com



Forgestal is a European company based close to Barcelona in Spain, specialized in providing solutions of refractory for clay kilns (roof, walls and kiln cars) and vacuum cleaning systems for the kiln cars.

Forgestal-Campo refractory systems cover a wide range of different applications and needs by means of engineered systems to have the maximum performance with the best value for money, in order to achieve the best payback of the investment and the longest service life with the minimum operational costs. Raw materials are extracted from own quarries to guarantee a consistent good quality.

HÄNDLE counts among the world's leading manufacturers of machines and equipment for the preparation and shaping of ceramic raw materials, particularly in the heavy clay sector.

Offering the market premium, technically advanced products, HÄNDLE maintains its market position by also providing first-class customer services and replacement parts of the highest quality.

Since being founded in 1870 HÄNDLE has been headquartered in Germany. Together with its parent company HÄNDLE forms an international group of companies with locations in the USA, Australia, China, Germany, Poland and Russia, as well as 30 regional representatives.



REFRATECHNIK

Refratechnik Ceramics
Barkhausener Str. 55
49328 Melle-Buer/Germany
Phone: +49 5427 81-0
Fax: +49 5427 81-102
ceramics@refra.comburton.de
www.refra.com

TECNOFILIERE S.R.L.
Via Provinciale Modena 57/a
41016 Novi di Modena (MO)/Italy
Phone +39 059 6777-97
Fax +39 059 6777-59
tecnofiliera@tecnofiliera.com
www.tecnofiliera.com

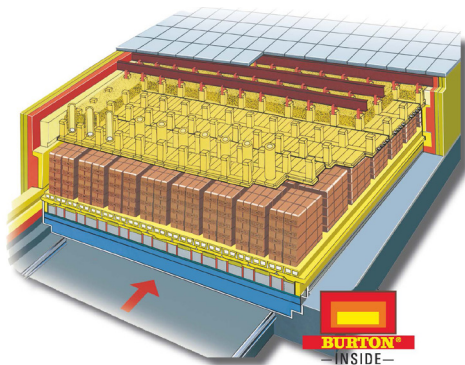


For more than 125 years, high-performance products for the ceramics and refractory business have been manufactured at the site in Melle, Germany, previously under the name of Burton GmbH & Co. KG. The decisive know-how available at the production site enables us to develop innovative products and concepts that set new standards and have turned the company into a global market leader with products for the heavy clay industry.

The takeover of Burton GmbH & Co. KG by Refratechnik Holding GmbH not only adds heavy clay ceramics to Refratechnik's portfolio, but also completes our existing product ranges. With an overall annual capacity of > 75.000 tons for fired products, the latest member of the Refratechnik Group continues to be a reliable supplier for our worldwide customers.

Refratechnik Ceramics GmbH is the world's No. 1 for turnkey tunnel kiln systems. As the global market leader for the ceramics industry, we supply:

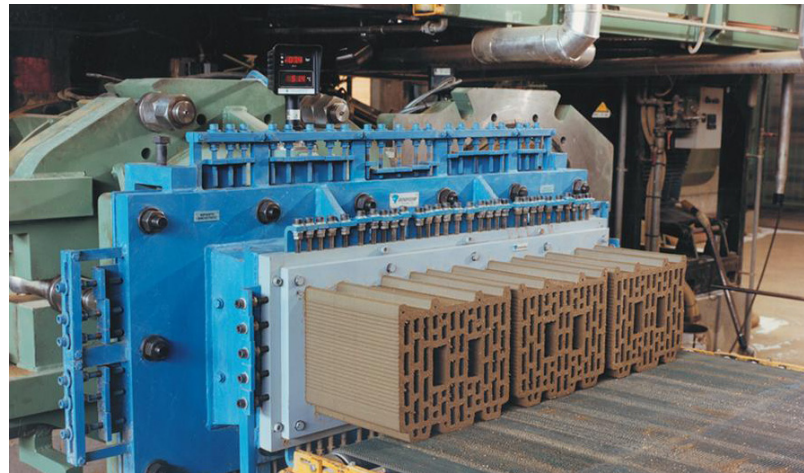
- Tunnel kiln walls
- Tunnel kiln roofs
- Tunnel kiln car
- Kiln furniture



Tecnofiliera, the Italian company leader in the market, is specialised in the study, planning and manufacture of every type of dies for the brickworks and ceramics industry.

Tecnofiliera is geared to create **ad hoc** solutions ready to meet each and any client requirement: from multi-exits dies to dies with fine internal walls, from manufactures with particularly complex geometries to lubricated dies for the extrusion of semi-dry paste.

In addition to the **core business** of the dies, Tecnofiliera produces also pressure heads for extrusion machines, augers, augers tubes, accessories and die-washing machines.





Talleres Felipe Verdés, S.A.
C/ Metalurgia, 2
08788 Vilanova del Camí/Spain
Phone: +34 93 8060606
prashantkumar@verdes.com
comercial@verdes.com
www.verdes.com

VERDES, now manufacturing in India.

Talleres Felipe Verdés S. A., mostly known by its brand name VERDES, is a 105-year old company, established near Barcelona, in Spain. Its activity is centered on the design of clay preparation and shaping processes, mostly for the brick and tile industry.

In 2011, Verdes Clay & Minerals Equipment Pvt Ltd was established in India. In 2012, land was purchased in Hosur and a PEB building was built for local production. The managing and commercial team was completed and trained at our HQ so that production started at the beginning of 2013. We have already manufactured and sold simple complete lines. All components of the machines are produced in India, according to our regular designs which improves the competitiveness of the machines.

We are very thankful to our first customers in North and South India, which put their trust in Verdés. And we expect that, once they are familiar with them, our processes and machinery will also be favored by the brick makers in West Bengal in the near future. We invite all of them to visit our premises in Hosur and in Spain, you will be most welcome.



ECTS stands for European Ceramic Technology Suppliers. It is a working group of European suppliers of machinery, materials and engineering services for the production of

- ceramics
- powder metallurgy
- related technologies

Ceramics here, includes all kinds of raw materials as well as plant and machinery for the production of refractories, bricks, tiles, sanitary ceramics, tableware and industrial ceramics.

ECTS is your gateway to Europe's ceramic technology industry.

ECTS members

AR-SAN Makina Imalat TIC. A.S. • Beralmar Tecnologic S.A. • Bernini Impianti s.r.l. • BEUMER Group GmbH & Co. KG • Bongioanni Macchine SpA • Bongioanni Stampi s.r.l. • Cerasec SA. • Ceric Technologies S.A.S. • De Boer Machines Nederland B.V. • Maschinenfabrik Gustav Eirich GmbH & Co. KG • Elster GmbH • Forgestal S.L. • Händle GmbH • Keller HCW GmbH • Lachenmeier A/S • Laeis GmbH • Hans Lingl GmbH & Co KG • Refratechnik Ceramics • RTE Akustik + Prüftechnik GmbH • Sabo SA • Sacmi Heavy Clay • Stafier Holland B.V. • Talleres Felipe Verdés S.A. • Tecnofiliere S.R.L. • VHV Anlagenbau GmbH

Contact:

Alessandro Colucci
Phone +49-69-6603-1254
Fax +49-69-6603-2254
E-Mail alessandro.colucci@vdma.org



<http://ects.vdma.org>

„Ceramics – modern life, modern buildings“

ECTS-Film is featuring heavy-clay as a modern building material

Today's ceramic based building products are highly sustainable cutting edge construction materials. With the incorporation of new technologies and continuous improvements in production techniques these materials, safely used over the centuries, incorporate important advantages in energy savings and material efficiency. They also bring substantial design benefits through the possibility of complex patterns.

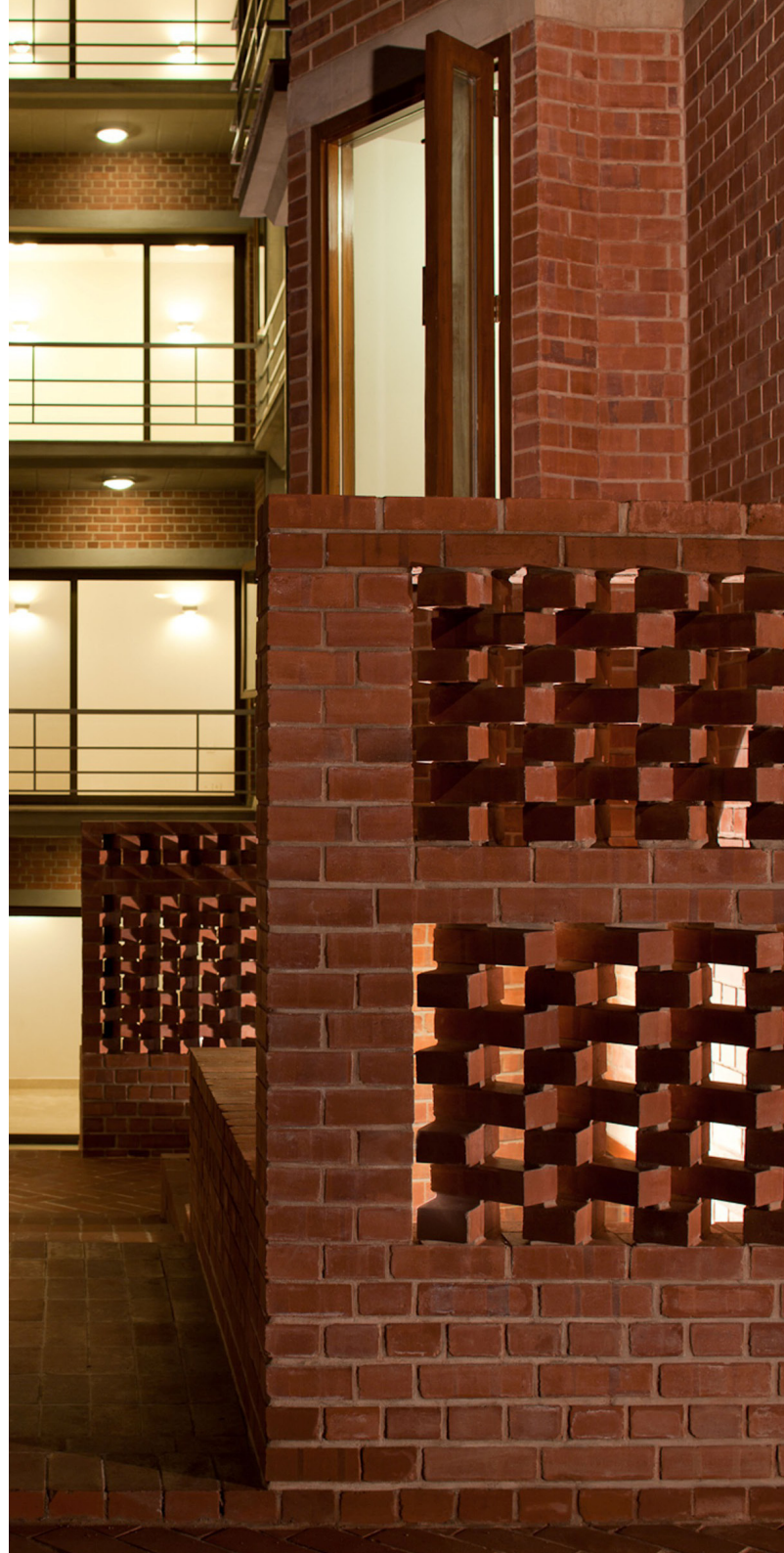
Learn MORE about ceramic based construction materials, the production process, and a myriad of efficient, sustainable and esthetically differentiated applications and view or download the film from the You Tube Channel:

In Hindi:

<http://www.youtube.com/watch?v=DnKZEBLazPw>

In English:

http://www.youtube.com/watch?v=iHHVukDb_kU



Your Contact in India

The ECTS European working group is part of the German Engineering Federation (VDMA). VDMA's liaison office in Kolkata promotes the activities of VDMA/ECTS member companies in India and maintains close relations with the Indian industry, embassies and consulates and various Indian industry associations.

The local team also helps to organise symposia, trade show participations or other marketing activities. For Indian companies it is the point of contact for any information about the product range of VDMA/ECTS members. Our staff assists Indian companies to identify right partners for mutual business relations.



VDMA/ECTS

German Engineering Federation

India Liaison Office

Mr. Rajesh Nath

Managing Director

GC-34, Sector-III,

Salt Lake City,

Kolkata – 700106, India

Phone 1 +91-33-2321 7073

Phone 2 +91-33-2321-9522

Fax +91-33-2321 7073

E-Mail vdmaindia@eth.net

Web http://www.india.org/india_office.html