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IESS VII International Engineering Sourcing Show CHENNAI

NEWS

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ORGANISER EEPCINDIA ENGINEERING THE FUTURE

HOST STATE | PARTNER COUNTRY 2018 CzechRepublic

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LOGISTICS PARTNER | KNOWLEDGE PARTNER | FOCUS REGION

THE OFFICIAL DAILY NEWSPAPER OF IESS VII
8–10 MARCH, 2018 • CHENNAI TRADE CENTRE, CHENNAI

DAY 2
FRIDAY, 9 MARCH 2018

Content & Design by: Magic Wand magicwandmedia.in

GETTING FUTURE-READY

IESS VII 2018 Kicks off at Chennai

An inaugural ceremony marked the unveiling of the much-awaited premium engineering event, International Engineering Sourcing Show (IESS) 2018 in the presence of an august gathering comprising those related to manufacturing and allied industries.

Source: Magic Wand Media Inc

Tomáš Hüner, Czech Republic's Minister for Industry & Trade addressing the audience at the opening ceremony of IESS VII

The turning up of MSMEs in large numbers echoed the fact that local trade exhibitions like IESS hold immense importance to them. The engineering fanfare has another reason to rejoice as well: while it hosts more than 400 exhibitors, 500 overseas buyers and 10,000 business visitors are slated to attend the event in the three-day course.

Inaugural Ceremony: An ideal start

The seventh edition of the IESS was inaugurated by O Panneerselvam, Deputy Chief Minister of Tamil Nadu and Tomáš Hüner, Czech Republic's Minister for Industry & Trade. The occasion was graced by the presence of other dignitaries including Bhaskar Sarkar, Executive Director & Secretary, EEPC India; Mahesh Desai, Regional Chairman, EEPC India; K Gnanadesikan, IAS, Additional Chief Secretary to Government of Tamil Nadu; P Benjamin, SME & Rural Industries Minister, Government of Tamil Nadu; MC Sampath, Minister of Industries, Government of Tamil Nadu; Rita Teaotia, Commerce Secretary, GoI; Ravi Sehgal, Chairman, EEPC, India; Bhupinder Singh Bhalla, Joint Secretary, Ministry of Commerce & Industry and Rakesh Shah, Chairman PED, EEPC India.

"IESS is the biggest platform for the Indian exporters to widen their client base and develop their businesses across the globe," said Shah, pointing out the already established fact.

Partnerships matter

Czech Republic is the Partner Country for IESS 2018, while Flander (Belgium) is the Focus Region. Haryana and Uttar Pradesh are designated as Partner States of the event, while West Bengal is the Focus State. The country pavilion has a strong presence from countries such as Bangladesh, Korea, Taiwan, the UAE, Uzbekistan, besides the Czech Republic and Belgium.

Hüner expressed his country's strong desire to scale up the economic and technological cooperation with India as the two countries can group together in reaching out to the global market. Automotive industry plays a big role in the Czech republic and he urged that Indian companies should explore opportunities in the sector.. More than 50 Czech companies are already working in Tamil Nadu.

In his welcome address, Sehgal said that the Indian MSMES can explore a

To be continued on 2 ▶

Source: Magic Wand Media Inc

Eminent industry veterans declaring the seventh edition of IESS open at the beat of percussion.

Source: Magic Wand Media Inc

Suresh Prabhu, Union Minister of Commerce & Industry, Government of India sent a video message on the occasion.

Source: Magic Wand Media Inc

Dignitaries inaugurating the Tamil Nadu Pavilion at IESS VII.

MoU signed between India and Czech Republic today paving for more business exchange between the two countries.

Source: Magic Wand Media Inc

strong potential in the Czech Republic, and EEPC will work closely with the Ministry of Export to promote exports to the Czech Republic.

Expressing hope of drawing further investment in the MSME sector, Teaotia said that 30 percent of the organized sector's employment in India originates from the engineering sector hence, we need to focus on its growth. To this end, IESS is an ideal platform for forming joint ventures to bring more investment in the engineering sector.

Positive outcome

Some significant Memoranda of Understanding (MoUs) were signed during the event: EEPC India and the Association of Small and Medium-sized Enterprises and Crafts of the Czech Republic (AMSP) inked their MoU for mutual co-operation. EEPC India and National Institute of Design (NID) signed their MoU for mutual co-operation in the field of product design. Chemoprojekt from Czech Republic and Accuspeed Engineering Services India Ltd came together for technical cooperation. EEPC India and MSME Department of the Government of Tamil Nadu also got connected for future cooperation through an MoU.

Source: Magic Wand Media Inc

Fibin V Raj, Alumni & Faculty,National Institute of Fashion Technology (NIFT); Prof Dr Anitha Manohar, Director, NIFT; Sridhar Amanchy, Assistant Professor & Centre Coordinator, Department of Knitwear Design, NIFT at Chennai Trade Centre.

Source: Magic Wand Media Inc

OUT-OF-THE-BOX

First Indian humanoid, Mitra gets a fashion makeover at IESS 2018

It was an innovative melding of fashion with modern technology as the NIFT designers unleashed their creativity on something that was not exactly human.

It was quite a spectacle at the inauguration ceremony of IESS VII 2018 as Mitra, the first Indian humanoid, got a makeover by National Institute of Fashion Technology (NIFT) faculty, Sridhar Amanchy and NIFT alumnus and established designer, Fibin V Raj. Given its rigid limbs and structure, the task of dressing up the humanoid was quite a challenge. Designing the dress was again a stimulating task that needed out-of-the-box creativity by the duo; the outfit had to be designed in such a way that it did not obstruct the screen present on the chest of the humanoid.

According to Prof Dr Anitha Manohar, Director, NIFT, "Though it could have been easier to choose any fabric for the outfit, we decided to use a woven fabric that fitted well and made Mitra look alive." Understandably, Raj and Amanchy had to carry out several test fitting sessions before finalizing.

IESS VII – AGENDA

CONFERENCE

FRIDAY | 9 MARCH 2018

TIME	CONVENTION CENTRE INAUGURAL ROOM	CONVENTION CENTRE ROOM A	CONVENTION CENTRE ROOM B	HALL 2 ROOM C	CONVENTION CENTRE ROOM D
10:00 - 13:00	Global Sourcing Meet by Parts World LLC	Global Sourcing Meet by Siemens India	Subcontracting Opportunities with Indian PSUs	R&D Ecosystem for Indian Industry – Challenges and Opportunities in Technology Transfer & Commercialization	
11:00 - 13:00					Session by ISB: Key steps to set up your Family Office
14:30 - 17:30	Session on Industry 4.0		Subcontracting Opportunities with Indian Defence PSUs	Session with MSME on Intellectual Property Rights	Counseling session to form a Family Office

Source: EEPC India

Honorable Commerce Secretary, Ministry of Commerce and Industry, Government of India, Rita Teaotia, launching the Brand India Engineering E-Catalogue, an EEPC India initiative, in the presence of industry and media representatives (second from left).
(L-R) BS Bhalla, Joint Secretary, Department of Commerce, Ministry of Commerce and Industry, Government of India; Ravi Sehgal, Chairman, EEPC India; Bhaskar Sarkar, Executive Director & Secretary, EEPC India; Pallavi Saha, Sr. Deputy Director, EEPC India. Other officials from EEPC India standing behind are: Nishikant Jumde, Joint Director; Jaya Basu, Sr. Deputy Director; Deepak Thakur, Sr. Assistant Director and Mayank Krishna, Sr. Executive Officer.

CONVEYING VALUE

Brand India Engineering: A Step Towards Building Trust

With the aim to bring about a 360 degree change in the global perception of Indian engineering and create a favorable global brand image of Indian engineering products and services, EEPC India, under the aegis of Department of Commerce, Government of India, has come up with a measure called 'Brand India Engineering'. The E-Catalogue of the initiative is the first step towards realizing the goal.

The emerging quality engineering landscape in India is making a profound impact on the Brand perception of Indian engineering. The engineering sector, which is predominantly an MSME driven sector, is a major contributor to the overall exports. The MSME sector is largely responsible for creating the Brand Image of India as a quality and reliable supplier of engineering goods and services.

The recent trends in the international engineering markets have indicated that Indian engineering MSMEs face significant challenges in getting acceptance as a good Brand Image. India is still majorly perceived as a supplier of low-cost and low value-added items, thus making a significant loss of opportunities in the growing international markets.

There have been significant number of initiatives such as a 'Make in India' that are providing thrust to the manufacturing and emphasizing quality manufacturing in the country. In addition to this, there are several factors that are supporting quality value-added manufacturing of engineering goods such as:

- Expanding OEM supplier base
- Increasing global engineering and R&D (ER&D) sourcing/offshoring
- Increasing the network of world-class R&D labs – CSIRs, IITs, NITs
- Growing the network of national and international product testing & certification labs
- Growing MSME supplier base having globally accepted product and system standards certifications
- Emphasis on product designing & development and customized solutions
- High-end heavy engineering supply of equipment, components, and spares in after markets.

In view of the above, EEPC India undertook a series of industry consultations and launched 'Brand India Engineering' in 2014 under the aegis of Department of Commerce, Government of India. The objectives of the initiative were:

- To bring a 360 degree change in global perception about Indian engineering
- To create a global brand image of Indian engineering products & services
- To demonstrate Indian engineering capabilities
- To project India as a high-tech engineering outsourcing destination
- To enhance credibility of Indian Engineering suppliers and their products

Source: EEPC India

Pallavi Saha, Sr. Deputy Director, EEPC India, presenting the E-Catalogue to Honorable Commerce Secretary, Ministry of Commerce and Industry, Government of India, Rita Teaotia, in front of industry and media representatives.

Brand India Engineering E-Catalogue

E-Catalogue is among the pivotal components of Brand India Engineering initiative, which intends to showcase India's leading manufacturer suppliers with globally certified quality manufacturing credentials such as ISO, CE, ASI, DIN etc. in select engineering sectors.

The E-Catalogue is aimed at overcoming a major hurdle for Indian exporters in global quality engineering markets by enhancing their credibility and providing an easy one-stop access to establish contact for the supply of engineering products. At present the e-catalogue covers electrical machinery, textile equipment, pumps and valves, and medical devices.

Features of E-Catalogue

• Platform independent and compatible with laptops, tabs and mobile phones • Advanced search with cities, end user sectors, certificates and product categories • Option to download the profile of a company • One click option to send the company profile to email inbox • Download option of catalogue in Excel

Advantages of E-Catalogue

The E-Catalogue is an officially recognized and endorsed 'Brand India' Catalogue by the Ministry of Commerce and Industry, Government of India • E-Catalogue is to be promoted across Indian overseas embassies and other agencies involved in the promotion of India's trade • It is to be promoted across leading engineering trade shows and exhibitions by the Government and EEPC India. Further, one has the opportunity to promote their products even without direct participation in such exhibitions • The digital promotion of E-Catalogue is to be backed by Search Engine Optimization • The ease of access for buyers is being enabled with advanced search and Interactive features • The catalogue would be officially endorsed across leading international Governments and business delegations • It is to be promoted as a global 'Made in India' Brand through Government-led initiatives • It offers direct and indirect promotion of companies, leading to the generation of business enquiries.

Launch of Brand India Engineering E-Catalogue

The initiative of Brand India Engineering, implemented by EEPC India under the aegis of Ministry of Commerce and Industry, received a major boost with the launch of E-Catalogue by Honorable Commerce Secretary, Ministry of Commerce and Industry, Government of India, Rita Teaotia, on December 29, 2017 in New Delhi.

THE KEY FEATURES OF E-CATALOGUE

Particulars	Pumps and Valves	Medical Devices	Electrical Machinery, Equipment and Components	Textile Machinery & Accessories
No. of Registered Companies (as on January 2018)	58	66	41	17
Partners	Indian Pumps Manufacturers Association	Association of Indian Medical Device Industry	Indian Electrical and Electronic Manufacturers Association	Textile Machineries Manufacturers Association

TECH TALK

IESS VII Technology Pavilion: Revolutionizing Indian Manufacturing Scene

The manufacturing industry today is a hub of new technology and innovations, undergoing a never-before-seen transformation. To raise awareness regarding the advanced technologies that lead to better quality products and processes, to start with, EEPC India is putting spotlight on the latest trends in technology by organizing Technology Pavilion and Seminars.

Science and Technology are now the key elements to development as the scientific revolutions reinforce economic progress, enhance infrastructure and improve health and education systems. Thus, it is the technological progress which keeps the economy moving. Inventions and innovations have been largely responsible for rapid economic growth in developed countries.

Technology in Indian Manufacturing

India's overall growth has been mostly led by the increasing demand for low value added product manufacturing. However, the global manufacturing industry has geared up for the next level of industrial revolution which has fundamentally altered the way we live, work and relate to one another in the socio-economic environment. Therefore, India too needs progressive transition from low value-added manufacturing to high value-added manufacturing.

In its pursuit to foster best-in-class manufacturing infrastructure in India, the 'Make in India' initiative by the Government of India is spearheading wider adoption of 'Industry 4.0' in the country. The Indian manufacturing industry has acknowledged the importance of Industry 4.0 and has now started including it as a component of its long-term business strategy.

Industry 4.0 – a paradigm shift

Industry 4.0 is a paradigm shift from centralized to decentralized smart manufacturing and production. It refers to the computerization of manufacturing and the creation of a 'smart factory'. Industry 4.0 is often described as digitization or full-scale automation. It is also sometimes defined in relation to emerging technology advancements in IoT, Big Data and data analytics, robotics, autonomous systems, sensors and automation, and production methods such as 3D printing.

Industry 4.0 started in Germany. The momentum is gradually picking up in the United States, Japan, China, the Nordic countries and the United Kingdom to bring this into the system. Companies all over the world are expecting to dramatically increase digitization over the next few years.

Focus on technology at IESS VII

Given the huge impact of technology on modern-day manufacturing, each year IESS brings upon a major focus on showcasing latest technological developments, high value-added discussion forums and networking opportunities for the industry to interact with leading R&D Academia.

Based on the theme 'Smart Tech for Smart Engineering', the 7th edition of the show – IESS 2018 – has organized over 300 sq mt display from India's leading R&D Academia to strengthen industry partnerships in various frontier engineering domains such as Space Research, Nuclear Research, Defence and Aerospace technologies, besides highlighting a wide array of solutions for Industry 4.0.

Technology Pavilion of IESS 2018 is displaying innovative exhibits from BARC, Jadavpur University, DRDO, DHI, AIA, ERDA (Electrical Research and Development Association), CMERI (Central Mechanical Engineering Research Institute), CMTI (Central Manufacturing Technology Institute), ARCI (International Advanced Research Centre for Powder Metallurgy and New Materials), IIS, CSIR (Council of Scientific & Industrial Research), ARAI (Automotive Research Association of India), MSME Technology Development Centres and NRDC (National Research Development Corportion).

The showcase includes solar-based energy saving devices, low-cost intelligent wheel car, Krishishakti – manoeuvrable tractor, precision aerospace components, and technical training in the field of CAD/CAM, and CNC machining.

Three seminars have been arranged at the show with the intent to update the members, especially the MSME units, on the latest technology trends:

- R&D Ecosystem for Indian Industry: Challenges and Opportunities in Technology Transfer & Commercialization
- Seminar cum NRDC industry interaction meet on "Technology Transfer Opportunities in Engineering Sciences"
- Session on Industry 4.0.

Source: Magic Wand Media Inc

The Technology Pavilion housed several organisations that lead owing their R&D and constant innovations.

KNOWLEDGE SHARING

Seeking Solutions

On the first day of IESS VII, the Global Sourcing Meet organized by Dubai Electricity and Water Authority (DEWA) sought answers to issues encountered by the companies in energy, process automation and power systems.

At IESS VII 2018, a global sourcing meet was organized yesterday by Dubai Electricity & Water Authority (DEWA) that had its focus on solutions that companies pertaining to energy, process automation, and power systems are looking for to reduce carbon footprint.

At the conference, Saeed Beljafla, Senior Manager - Government Relations, MD & CEO's Office, Dubai Electricity & Water Authority, spoke extensively on the opportunities that Dubai offers to the businesses seeking to set up operations there.

A.S.A Hameed, Vice President Contracts, DEWA – Government of Dubai – United Arab Emirates, elaborated on the various upcoming projects of DEWA and benefits that businesses can avail of through them. Furthermore, he touched upon vendor liaising and partnerships provided by DEWA and the upcoming WETEX and Dubai Solar Show 2018.

DEWA is fully supported by the Dubai Government and shoulders the responsibility of providing the citizens and residents of Dubai with a continuous supply of electricity and water. It has launched three smart initiatives to support the Smart Dubai initiative – Shams Dubai – to encourage building owners to install photovoltaic (PV) solar panels to generate electricity, which will be utilized inside the premises. The surplus will be exported to DEWA's grid, thus encouraging the use of renewable energy and diversified energy sources.

Source: Magic Wand Media Inc

Saeed Beljafla, Senior Manager - Government Relations, MD & CEO's Office, Dubai Electricity & Water Authority and A.S.A Hameed, Vice President Contracts, Dubai Electricity & Water Authority – Government of Dubai – United Arab Emirates at their booth at IESS VII 2018.

Source: Magic Wand Media Inc

The audience showed keen interest in the session.

KNOWELDGE SHARING

A Win-Win Situation

On the one hand India has emerged as the third most attractive investment destination globally, while on the other, Indian companies are strengthening their foothold by increasingly investing overseas.

The seminar on Inbound and Outbound Investment Opportunities from India organized at IESS VII 2018 witnessed the various potential investment opportunities in India and abroad. Numerous government schemes like Digital India, broadband highways, universal access, public internet access programme, e-governance programme have enabled Indian companies to gain strong foothold and expand their international presence by investing overseas for acquiring regional and global reach.

In recent times, outbound investments from India have increased considerably and expansion is seen across geographies and sectors. Investment outlook in some of the overseas market like the Flanders, the northern region of Belgium, given its central location, looks promising.

Also over the years, India has also emerged as the biggest investment opportunity globally given its success in science, technology and innovation, with technology and energy emerging as the key drivers for development.

As per Morgan Stanley's proprietary AlphaWise City Vibrancy Index, India has emerged as the most preferred destination for investment in Asia and as the third biggest, internationally, as the country continues to urbanize at a fast pace driven by a combination of uptrending consumption, robust job creation and growing financial penetration. India received a net investment of US$ 17.412 million from FIIs between April-October 2017 and FDI equity inflows of US$ 14.94 billion between April-September 2017. Real estate and financial markets in India are on an upward swing having received a great amount of foreign investments.

Source: Magic Wand Media Inc

Spokesperson disseminating information on the investment opportunities.

Source: Magic Wand Media Inc

Audience taking interest in an insightful session.

Source: BAC ASIA PTE LTD

BAC ASIA PTE LTD
www.baclaboratories.com
Hall & Stall: 2 / B03, A03

WASTEWATER MANAGEMENT

ESO-SEPT for eco-friendly sewage treatment

A new bio-enzymatic preparation, ESO-SEPT eliminates applications of harmful chemicals in sewage tank management. It contains high-quality natural bacteria (no GMO, no physical and no chemical modification) suitable for application in sumps, septic tanks etc.

Advantage ESO-SEPT

The environmentally-friendly preparation:

- decomposes organic sediments
- liquefies sludge in sumps, dry toilets and septic tanks
- reduces smell
- improves efficiency of wastewater treatment.

Directions for use and dosing

The recommended dosage of ESO-SEPT to sumps and septic tanks is 5-10 g per m^3 per month. The dose for the preparation for toilets is 10 g once every 4-6 weeks, and for dry-toilets is 20 g into 100 L per month. The corresponding dose needs to be mixed with 2-5 L warm clean water (25-38°C) and made to stand actively for 15-20 minutes (occasionally mixed) at the end after stirring.

ENERGY CONSERVATION

Saving with Solar

An account of SunAlpha's commissioning of its one-of-a-kind rooftop solar system of 100 kWp for Jindal Poly Films Ltd which led to a massive energy saving and a marked reduction in CO^2 emissions.

SunAlpha Energy is a fully-integrated rooftop solar PV specialist with offices in Jaipur, Chennai and Singapore, and projects spread across six states in the south, west, north and east of India.

Founded by IIT and Georgia Tech graduates, SunAlpha is an award winning premium solar PV designer and constructor of high-quality rooftop systems for commercial, industrial and residential consumers.

Consumer challenges

Jindal Poly Films Ltd is a part of Rs 30 billion B.C. Jindal Group, a 58 year old industrial group offering a wide range of products. The group has promoted a number of companies over the years and is involved in diverse activities including manufacturing of polyester films, polypropylene films, steel pipes, and photographic products. JPFL has the world's largest site for production of BOPET and BOPP films at Nashik, India.

The customer was facing challenges that it needed to be addressed, which were:

- Intermittent grid supply of electricity from local utility
- High dependence on diesel gensets to meet everyday electricity requirement
- High per unit cost of energy from continuously running of diesel generators.

SunAlpha proffered solutions

SunAlpha had innovative and turnkey solutions for the above challenges, which led to:

- Energy savings on consumption from both diesel generator and grid
- 100 percent utililization of empty rooftop
- Seamless 3-way integration of solar power with grid and diesel generators with zero flicker
- Live viewing of solar generation
- No disruption to daily operations of the consumer during the plant installation
- Energy savings for long-term period
- Tier-I components used for maintaining optimum generation and a warranted plant life of 25 years.

Benefits reaped

- Projected energy savings of Rs 7.84 crore in 25 years
- Estimated energy generation of 35.29 lakh in 25 years
- CO^2 emissions reduction over the plant life: 3080 tonne
- All types of electric loads connected to the common bus bar powered by solar power
- Accelerated depreciation
- Low break-even period of <2.5 years
- Fixed energy cost for 25 years.

SunAlpha Energy Pvt Ltd
www.sunalphaenergy.com
Hall & Stall: H2 / D-07

Source: SunAlpha Energy

Solar inverters installed on-site

Source: SunAlpha Energy

On-site solar arrays in action

SunAlpha Energy Pvt Ltd
www.sunalphaenergy.com
Hall & Stall: H2 / D-07

ENERGY CONSERVATION

Solar PV System from SunAlpha Energy

SunAlpha Energy is a fully integrated rooftop solar PV specialist with offices in Jaipur, Chennai and Singapore, and projects spread across six states in the south, west, north and east of India.

Founded by IIT and Georgia Tech graduates, SunAlpha is an award winning premium solar PV designer and constructor of high-quality rooftop systems for commercial, industrial and residential consumers.

With globally deployed solar technology backed by German R&D, expert engineering and industry-leading performance, the company has a zero-tolerance policy to environment, health and safety. SunAlpha claims to have made the solar PVs with premium quality material and offers 25 year warranty, 5 year generation guarantee along with lifetime customer support. The company has been honored with 'India's Most Promising Brands 2016' award by Research & Process Evaluators – WCRC. It is also the winner of 'TiE Mumbai 2015'. SunAlpha's projects include distinguished names in the industry such as Novotel, Indian Oil, Jindal, S. Chand and Company Ltd, Emami, and Kalpa-Taru.

Source: SunAlpha Energy

ADDRESSING MSME CONCERNS

Leading by Example

C Venugopal, PhD, Managing Director & CEO, Krysalis Consultancy Services, believes in helping out MSMEs who form the crux of manufacturing operations.

When you are a consultancy company catering to the MSME sector, you know you have touched the chord of manufacturing. C Venugopal, PhD, Managing Director & CEO, Krysalis Consultancy Services, says, “We have a deep understanding of the MSME supplier base in India and offer a variety of services to enhance the capability of MSME units. We help OEMs carry out supplier search and evaluation and augment the Supplier Quality Assurance (SQA) efforts of the OEMs. Our engineers work with SMEs to improve quality, reduce costs and enhance delivery capability.”

Venugopal is thankful that shows like IESS help in showcasing India’s engineering products and services to the global marketplace. “India has a large MSME base spanning all manufacturing processes like forging, machining, sheet metal, plastics, etc. These units are currently supplying products to domestic as well as international OEMs in India. IESS provides them a global platform.”

A meeting of minds

For several years now, Krysalis Consultancy Services has been using Lean manufacturing as a framework to improve shop floor operations. In the last five years, it has worked with over a hundred MSME units. The efforts have resulted in significant improvement in the profitability of its client companies.

Besides this, Krysalis Consultancy Services also runs a learning center focused on upgrading skills of the engineering staff in SME units. At the expo, the company hopes to meet up with OEM companies looking for supplier evaluation and development services, and MSME units looking for assistance in performance and productivity improvements.

Venugopal adds that his company would also scout for assignments from MSME companies to enhance their capabilities, improve their shop floor practices, reduce costs, etc.

Krysalis Consultancy Services Pvt Ltd
www.krysalisco.com
Hall & Stall: H2 / D-03

Source: Krysalis Consultancy Services Pvt Ltd

"We have a deep understanding of the MSME supplier base and offer numerous services to enhance the capability of MSME units."

C Venugopal, PhD
MD & CEO
Krysalis Consultancy Services Pvt Ltd

LIFTING TECHNOLOGY & POSITIONING SOLUTIONS

Knowing Lifting Systems Up Close

Gears and Gear Drives (India)’s HiTork Lifting Systems offer comprehensive lifting and positioning design solutions to a wide variety of industries.

Gears and Gear Drives (India) Pvt Ltd is a global engineering company that for over thirty years is innovatively engaged in providing total engineering solutions - from design to manufacturing - in the areas of Power Transmission, Mechatronics, Motion Control and Automation. The company is a market leader in India, manufacturing Screw Jacks, Universal Joints, Solar Actuators, Bevel Gear Boxes and many more.

Source: Gears and Gear Drives (India) Pvt Ltd

"Gear Technology products have been continuously evolving to towards smooth running, higher speed, higher strength with compactness ability to run in hotter temperature over the last 5 decades."

Seshagiri Ramachandra, CEO, Gears and Gear Drives (India) Pvt Ltd

Choosing HiTork Lifting Systems

The company’s Screw Jack Systems offer comprehensive lifting and positioning design solutions to a wide variety of industries. User- and eco-friendly, these jacks incorporate all the latest safety technology to help keep your site safe. The systems are also CE certified. The Testing and Inspection Team checks thorough various examinations, focusing on safety components.

How Lifting System works

Multi lifting equipment are generally driven by a single motor. This makes the system to lift equally. When driven by two or more motors, sophisticated electrical synchronization and control is required.

Lifting System components

The company’s lifting systems with components such as motors, gear reducers, shafting, couplings, and motion control devices create complete multi-jack systems.

Mechanical and control electronic parts consist of Jack Actuators, Planetary drives, Bevel Gear Drives, Inline Drives, Couplings, Connecting shafts, Counters, Encoders, Potentio meter, and Hall Sensors. The company supplies to various industries such as railway maintenance, heavy vehicle and off road vehicle maintenance.

Constantly evolving

Seshagiri Ramachandra, CEO, Gears and Gear Drives (India), who has 34 years of experience in Motion Drive and Power Transmission Technology, says, "Gear Technology products have been continuously evolving towards smooth running, higher speed, higher strength with compactness ability to run in hotter temperature over the last 5 decades. CNC machine software for 3D modelling and CAM have helped to achieve repetitive component dimensions and tolerances, GD and T, coupled with improved rubber seals, tribology products, and efficient fasteners.”

The addition of control electronic parts such as encoders, precision limit switches, feedback and control boxes have made a tremendous in Mechanical power transmission, motion control and mechatronics products.

“IoT is evolving in a big way and industries are marching towards the level of Industry 4.0. Hence, HiTork Group of companies are constantly updating the designs and customizing the products to suit this changing environment," he adds.

Features

- Manufactured to ISO 9001:2015 standards in India
- Safe and simple maintenance
- 15 different sizes of jacks lifts from 0.25 to 350 tonne
- Lifting capacities 5kN to 1500kN
- Drive motor speed up to 1500 rpm
- Translating worm gear screw jacks with self-locking screw
- Worm gear in two ratios: nominal and slow
- Top and bottom guide bushes for lifting screw
- Worm wheel hobbled for optimum blue contact
- Filled with NLGI EP 1 or 2 grade grease
- Multiple capacities of jacks and bevel gearbox
- Precision machine and ball screws
- Standing and rotating versions
- Multiple safety and protection options
- Motion control options
- Complete system designs.

Gears and Gear Drives (India) Pvt Ltd
ww.ggdipl.com
Hall & Stall: H2 / I-02

Source: Gears and Gear Drives (India) Pvt Ltd

Gears and Gear Drives (India) Pvt Ltd

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Phase Shifter

Sprockets

Spur Gear

Bevel Gears (Straight tooth - Gleason or DIN Std)

Worm Wheel

Spiral Bevel Gear / Hypoid Gear

Helical Gear

Face Gear

Screw Shaft
(Acme & Metric Trapezoidal)

Worm Reducer

Worm Shaft
(To Customer Specification)

Spline Shafts

An ISO 9001-2015 CERTIFIED COMPANY