Cable Management Systems

India is one of the leading manufacturers and supplier of cable trays and accessories to projects worldwide. India manufactures perforated, ladder type and wire mesh cable trays in different sizes as per the requirements of its customers.

Cable trays are manufactured with mild steel, stainless steel, aluminium sheets. India offers wide range of accessories for the cable trays which include horizontal bends, vertical bends, tee's, cross and reducers to name a few.

India offers cable trays in various surface finish like self colour, pre-galvanized, hot-dip galvanized, painted, powder coated and others.

Indiana Gratings Pvt. Ltd.
India House, Andheri (East), Mumbai - 400 059, INDIA.
Tel: +91 22 2850 4743 / 5611 Fax: +91 22 2860 5154 / 5721 E-mail: sales@indianagroup.com
We are the ONLY Grating manufacturer in India as well as in the International market to have seven production lines under one roof

says Mr. D. M. Bhatia
Managing Director - Indiana Gratings Pvt. Ltd.

Q. What is the USP of the Floor Gratings, Cable Trays and Wire Mesh offered by Indiana Gratings to the Indian market and which are the countries of export of your products?

Ans. We are proud to state that we have been in this business for the last 44 years and are ranked as Numero Uno in Indian market. We are well recognized for our quality products in the overseas markets too. We are the ONLY Grating manufacturer in India as well as in the International market to have seven production lines under one roof. We are preferred by all the major Indian as well as overseas EPC contractors, leading consulting engineers and architects. We are a financially sound Company and have well diversified into allied product lines with forward integration to give in-house service and timely delivery to customers. Our manufacturing facility is spread out in an area of 36 acres land. We have well qualified and experienced personnel to provide prompt service to our customers.

We have been conferred certification by ISO 9001, ISO 14001 and BS OHSAS 18001. We have been consistently exporting to countries like Bahrain, Saudi Arabia, Kuwait, Qatar, Egypt, Oman, UAE, Singapore, Malaysia, Indonesia, Hong Kong, Vietnam, Thailand, East-West Africa, South Africa, Bangladesh, Sri Lanka etc. The developed nations like Australia, UK and USA too import from us which is a testimony to our quality and timely delivery. In short, we have a Global presence in the International market. Indiana has been awarded 21 times by EERP for export performance.

Q. Which are the core industrial segments where your high precision products are highly used and what are the challenges of operations in India?

Ans. We have presence in various verticals of the industry. The products manufactured by us are used in sectors like Automobiles, Cement, Infrastructure, Petrochemicals, Oil & Gas, power, fertilizers, offshore platform, Paper, Pharmaceuticals, Ports and shipping and Sugar Industry, to name a few. Through our vast array of products Indiana has made a mark in almost all the core industrial sectors in India.

Q. What are the challenges of supplying to the overseas market and how different is the overseas market in comparison to the local market?

Ans. There were initial glitches but with the passage of time we surmounted it efficiently. As on date we have overcome most of the difficulties except the competitive landed price when compared to local manufacturers. (Many countries are charging import duty to safeguard their local manufacturers).

Q. Any recent technological marvel in your manufacturing process which you would like to share with us?

Ans. We have sustained for such a long tenure only due to our continuous focus on technology and upgradation from time to time. Recently we have installed state of the art, sophisticated Hot Dip Galvanizing Plant imported from UK. This plant is a break-through technology which is going to help us serve our customers even more efficiently.

Q. Can you share with us your success story and other strategic growth prospects for the future?

Ans. There are manifold reasons for our success in the market. But we would like to reiterate on three key aspects and they are:

a) Commitment to supply quality products at competitive prices within agreed delivery schedule.

b) Prompt attention & Client servicing, irrespective of the order value.

c) Continuously diversify in allied lines by forward integration to be more competitive.
Electrical Line
March - April 2016

Response

Omron Automation reaffirms its position as enablers of Smart, Scalable & Sustainable Manufacturing

Demonstrates its vision of harmony between people and machine with FORPHEUS - the Table Tennis Robot at Elecrama-2016

Reaffirming its contribution towards manufacturing sector, Omron Automation, the world leader in factory and industrial automation, shared its focus areas towards enabling smart, scalable and sustainable industries today. The company imparted this information as a part of its participation in the renowned exhibition Elecrama-2016 going on at BIEC, Bengaluru.

Describing Omron Automation as ‘Enablers of Make in India’, Mr. Sanjeev Gandhi, MD, Omron Automation India said, “Our efforts to position Omron as an ‘automation partner providing end-to-end solutions’ have been yielding significant results owing to which we have been able to strengthen our share in many segments such as Packaging, Textile, Automotive, FMCG, Material handling, Pharmaceuticals to name just a few. Moving ahead, we aim to progress in the Digital segment too.”

“Omron’s extensive range of sensing & control technology based solutions—more than 30,000 variations—spread across Industrial components, Automation Systems, Sensing & Safety, Motion & Drives, Robots and Software have been helping manufacturers in the form of efficiency, productivity, flexibility, accuracy and safety as they scale up the value chain. We have recently introduced the futuristic concept of IoT (Internet of Things) to expand their horizon and help them develop smarter machines based on the concept of ‘3 Islands’. Integrated, Intelligent and Interactive’,” he added.

Mr. Gandhi’s words were well substantiated at the Omron booth put up at Elecrama. Themed “Pure Possibility”, the booth depicted Omron’s forte in automation industry by providing solutions which not only detect, comprehend, and act on information as humans do, but are also able to intelligently adapt to their environments and to the needs of humans.

One of the most notable displays at the booth is FORPHEUS—the Ping Pong Robot created by Omron. Adding one more dimension to the theme of Pure Possibility, the robot is a practical manifestation of the concept of “harmony between humans and machines”. Designed on Omron’s core technology of “Sensing & Control + Think”, the world-renowned robot plays ping pong not only with greater accuracy but also returns the ball to allow its partner a longer rally - that is setting in place a harmony and not competition.

Talking about the future prospects Mr. Takehito Maeda, MD, OMRON Asia Pacific, Pvt Ltd, Industrial Automation Business, said, “India is occupying a much more prominent position in the global manufacturing setup. The rising levels of disposable incomes, urbanization, rural demand, and financial inclusion are some of the other key factors expected to have a positive effect on the manufacturing sector in the country. And as manufacturing grows in India, so will the demand for factory automation which creates and opportunity for us playing a much bigger role in the lives of people of India, making it an important growth region for Omron in Asia Pacific.”

The visitors once inside the booth get to orient themselves with all the key offerings of Omron Industrial Automation business such as live demos showing the real time applications in varied fields, robots depicing the solutions for better efficiency, total automation as the one step contd. on page 12.

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Moisture in Oil Transmitters

Dewpoint Transmitters

Pressure Transmitters

Humidity & Temp Transmitters

Jupiter Electronics
A 401, Kalash Indl Complex, Behind Godly Colony, Nr. Park Side, Vile Parle (W), Mumbai-79, India.
T: 022-25185777, 0911-22-25187075, 25165474 F: 91-22-25186473, 91-9198440117, 08142075272
Email: sales@jupiterelectronics.co.in, keyur@jupiterelectronics.co.in, president.padhi@jupiterelectronics.co.in
mooreshwar@jupiterelectronics.co.in, Web: www.jupiterelectronics.com
Q. What is the USP of the Power Conditioning and Power Conversion equipment offered by Unitron to the Indian market?

Ans. Our Main Stream Products are Small Wind Energy Systems, Power Conditioning is just a component of wind energy system. Worldwide Small Wind is still a very niche market. Only in the last few years the awareness is growing and we are perhaps the oldest manufacturers of Small Wind systems in India, unlike large wind where they have a well-established supply chain whereas for small wind sector it is not so.

At UNITRON we are self-reliant, each and every part that goes into manufacturing is produced in-house, even magnets used in PMG (permanent magnet generators). We are the only exporters of small turbines to even developed countries like USA/Australia.

Q. What have been the challenges of operations of Unitron by foraying into new segment of Renewable Energy Systems and how have you tackled it?

Ans. It is stark contrast to what you hear about renewable energy in India, the ground reality is something else. As with any sector, SME units always have to bear the brunt and it is even worse for SME units engaged in renewable energy. There is lackluster support from the Govt. One has to learn to swim in turbulent waters to survive.

Q. What are the prevailing market conditions for your sector and what are your forecasts for the future?

Ans. Fortunately accelerated depreciation which was removed and restored couple of years ago, rising costs of conventional power are boosters for this sector to grow. More than 50% of land mass of India has wind potential needed for Small Wind Turbines. If a conducive policy for small wind/hybrid sector is implemented the potential for this sector is as indicated below. We have not even achieved 0.5% of this.

Q. Can you share with us your success story and where shall we find Unitron three years from now?

Ans. Unitron’s inherent strength is in its in-house R & D. We are working on a revolutionary 3D blade design which is likely to enhance efficiency by whopping three times. Conventional evaluation methods do not apply for these designs. If proven it is possible to install 4MW -5MW/5 Acre, with present day technology. For this we will need 5 Acre/MW, tremendous land utilisation plus host of other advantages.
Honeywell Automation India Limited (HAIL NSE: HONAUT) announced Suresh Senapty’s appointment as its Additional Director (Non-Executive, Independent), and as Chairman of its Board of Directors, effective Tuesday, March 8, 2016.

Suresh will be responsible for contributing to HAIL’s overall strategy and to provide counsel on corporate governance, business, and financial matters. He succeeds Surendra L. Rao, who served as member of the Board of Directors of HAIL since January 2002 and as Chairman of the Board of Directors from August 2014 to February 2016.

Vikas Chadha, Managing Director, HAIL, said, “Suresh’s global and local experience will provide the right financial vision for a company like HAIL, which brings both global technology expertise, and local capabilities to address the unique needs of Indian customers. We are also grateful to Mr. Rao for his contribution to HAIL over the last 14 years. He leaves behind a legacy of strong governance and values at the company.”

Suresh has proven industry experience spanning more than three decades in finance, governance, and strategy. He has held leadership and board positions at several Wipro companies, having previously led its finance function across its information technology, consumer care, infrastructure engineering, and healthcare businesses. He has received several industry accolades and recognitions. He is a key industry voice in advocacy relating to accounting and corporate law with regulators, government, and policy stakeholders.

Commenting on his appointment, Suresh said, “Honeywell’s technologies help solve some of the world’s toughest challenges in energy efficiency, safety, security, and productivity. Honeywell is also equally local, with many decades of service in India. I am excited to be part of this company and look forward to see the business grow in India.”

HAIL is listed on the Bombay Stock Exchange (BSE) and the National Stock Exchange (NSE), and offers integrated industrial process automation and control solutions for oil and gas and other industries; environmental and energy solutions; building solutions; and sensing and productivity solutions for homes, industrial and commercial facilities; global manufacturing; and global services. HAIL was established in 1987 with its manufacturing, design, and engineering facilities located in Pune. The company is a leader in providing integrated automation and software solutions, with close to 3,000 employees based in nine offices across India – Bangalore, Chennai, Gurugram, Hyderabad, Jamshedpur, Kolkata, Mumbai, Pune, and Vadodara. HAIL also has the unique distinction of being one of the first automation companies in India to be awarded dual certification of ISO14001 and OHSAS18001. About Honeywell Automation India Limited (HAIL)

HAIL is a Fortune 500 company in which Honeywell holds a 75% ownership interest. Honeywell (www.honeywell.com) is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes and industry; turbochargers; and performance materials. All of Honeywell’s global businesses have a strong legacy in India, built over the last eight decades. Honeywell’s India commitment is evident in seven state-of-the-art manufacturing and engineering operations, and acts as the global centers of excellence for technology development and innovation. Including HAIL employees, Honeywell employs close to 15,000 people across 50 locations including Bangalore, Chennai, Delhi, Gurugram, Hyderabad, Madurai, Pune and Vadodara. For additional information on Honeywell India, please visit http://honeywell.com/country/ in/.
Future plan as such is to penetrate more deeply in to various sectors by creating awareness as to how effective this sensors

says Mr. Keyur Ghelani
Managing Director - Jupiter Integrated Sensor Systems Pvt Ltd

Q. How has your tie up for distribution of products of Bitoronic and E+E Elektronik helped you to substantiate your business activities in India?

Ans. Both these companies provide very high quality sensors manufactured from Swiss and Austrian respectively. They make instruments for Humidity, Temp, Air Flow, Moisture in Oil, Dew Point and CO2 transmitters. These are highly lapped up by companies who are highly quality conscious. We are able to bring in the foreign technology to the doorsteps of the Indian market.

Q. Which are the core industrial areas where your high precision Process Control Instruments are used?

Ans. We have our presence pan-India in almost all the sectors. You name the sector and we are there. Some of the sectors of our presence could be listed as follows:
1. Pharmaceuticals
2. Building Automation
3. Transformers
4. Circuit Breakers
5. Metrological
6. Food
7. Paper
8. Industrial Automation
9. Chemicals
10. Green Houses
11. Defence
12. Humidity chambers and ovens
13. Textiles

Q. Any plans for capacity addition of your state of the art factory at Aurangabad in Maharashtra in near future?

Ans. The plans for capacity addition of our factory are not there immediately but shall go for it if the necessity arises in the near future.

Q. What is the prevailing market conditions for your sector and any special plans for ‘Make In India’ initiative launched by the Government?

Ans. These high profile sensors do not have very high volume in India. To produce them locally it will be difficult as it is tough to compete with Chinese Products with our local technology and resources.

Q. Can you share with us your success story and other strategic growth prospects planned for the future?

Ans. Future plan as such is to penetrate more deeply in to various sectors by creating awareness as to how effective this sensors. We need to make the clients aware as to how our sensors enhance their production. This would be possible only by improving our customer product quality.

Tenders

PLC WORKSTATION CUM SIMULATOR WORK
Oil India Limited
Shillong - Arunachal Pradesh - India
Supply of Furniture, Multi Functional Test Bench, PLC Workstation Cum Simulator Battery Charger, 500 KVA Transformer, Desk & Benches.
Document Fees : INR 1,000
Closing Date : 6/5/2016

CONSTRUCTION WORK OF 22 KV CONTROL POINTS
Himachal Pradesh State Electricity Board
Tender Value : INR 214,90,000
EMD : INR 27,000
Document Fees : INR 56,900
Closing Date : 7/5/2016

Special issue on Wires & Cable in May - June 2016

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HPL: COMMITTED TOWARDS A BETTER TOMORROW

With the launch of Make in India initiative by the government, industrial growth in India is already witnessing a major boost. The need for power is only going to increase many times over along with a high demand for superior-grade electrical equipment and components to regulate it optimally. Electrical equipment companies with technology, innovation, quality and cost-effectiveness as its core focus areas are going to play a major role here. One of those companies is HPL, which currently stands tall as THE TECHNOLOGY BRAND OF INDIA.

Since its inception in 1956, HPL has always believed that the only way to bring about rapid development of India is through meaningful innovation, and thereby ushering it into the global world of Electrical Technology. To that effect, they have also aligned themselves with the Smart Cities Mission, an initiative that is being supervised by India’s Prime Minister, Narendra Modi himself. A movement that is geared to make our cities smart, intelligent and energy-efficient. A case in point: HPL’s LED light fittings at Varanasi Ghat, resulted in total annual savings of 1.1 MU (72%) and Rs. 1.29 crores.

HPL has recently forayed at the premium end of B Grade MCB inspired totally by European styling and the most high-end materials. Simply put, there is no range of MCBs in this country which can even come close to this range. And it’s not just the looks. As a feat of engineering, it is truly a class apart. Says Lalit Seth, MD, HPL.

All of HPL’s 6-state-of-the-art manufacturing facilities are ISO:9001 certified for Quality Management System; ISO:14000 certified for Environmental System and OHSAS - 18001 certified for implementing an occupational Health and Safety Management System. HPL products are also ISI Certified by the Bureau of Indian Standards, a mark of quality products in India. Certain range of products have KEMA certification for energy utilization and have CE certificate to give acceptability of the products in Europe and other international markets.

Currently, the company has 86 branches & representative offices nationwide with 6 state-of-the art manufacturing units powered by a 5500+ workforce, and ably supported by 2500 authorized dealers and 27,000 retailers.

With the best-in-class R&D centre backed by a highly skilled team of engineering professionals, HPL is already designing and developing a range of innovative and advanced products—from LEDS to smart meters to solar products and then some—to make the Smart Cities initiative a resounding success. “Our R&D centre is approved by the Ministry of Science and Technology, Govt. of India, which ensures that the products manufactured here are superior in quality, technology and finish,” says Lalit Seth, MD, HPL.

Be it commercial, domestic or any industrial requirement, HPL has a ready range of high quality electrical and lighting solutions. The product range is divided into four groups that include Electronic Meters, Switchgears & Electrical Wiring Accessories, Lighting and Wires and Cables, amongst others.

The company enjoys an edge over competitors in the field of low voltage switchgear and protective devices, metering and energy management systems, lighting, wires and cables.

“HPL will continue to create more value for its customers and focus on consolidating its dominant position in India, while expanding its reach globally,” says Lalit Seth, MD, HPL.

HPL will be showcasing its superior range of products at Booth HRB1SC52, Hall 3A at Elecrama 2016, BIEC, Bangalore.

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India’s GDP to be 7.7% in 2017 and 7.5% in 2016: World Bank

The Indian economy has the potential to become the world’s 3rd largest economy by the next decade, and one of the largest economies by mid-century. And the outlook for short-term growth is also good as according to the IMF, the Indian economy is the “bright spot” in the global landscape. India also topped the World bank’s growth outlook for 2015-16 for the first time with the economy having grown 7.6% in 2015-16 and expected to grow 7.8-8.0% in 2016-17.

India’s economic activity is expected to accelerate from 7.5 percent in FY 2016 to 7.7 percent in FY 2017 based on the expectation of strong private investment, a push in infrastructure spending, an improved investment climate, and improved corporate and financial balance sheets. Driven by India’s expected GDP growth of 7.7 percent in 2017 and 7.5 percent in 2016, the World Bank forecasted gradual acceleration in South Asia’s economic growth from 5.1 percent in 2016 to 7.3 percent in 2017.

Given its weight in the region, India sets the pace for South Asia as a whole, the World Bank said in its latest twice-a-year South Asia Economic Focus report. India’s economic activity is expected to accelerate from 7.5 percent in FY 2016 to 7.7 percent in FY 2017 based on the expectation of strong private investment, a push in infrastructure spending, an improved investment climate, and improved corporate and financial balance sheets.

“South Asia has been resilient to global turbulence due to its limited exposure to slowdowns in other major economies coupled with the tailwinds of favourable oil prices, capital flows, and remittances,” said Annette Dixon, World Bank South Asia Vice-President.

However, fiscal and financial vulnerabilities remain and countries should strive to address them through generating revenue and creating more fiscal space. According to the report, the GDP growth in India will be supported by a rebound in agriculture and stimulus from civil service pay reforms. However, delays in the adoption and implementation of key reforms could affect investor sentiment.

Favourable overall trends mask important underlying divergences: between urban and agricultural households; between domestic and external demand; and between public and private capital expenditure, which should be addressed. The challenging global environment has taken a toll on the economy with reduced exports and remittances; and significant capital outflows, leaving Sri Lanka with higher public debt, lower reserves and rising inflation. The direction of the numbers is very positive. The policy and reform measures the government has undertaken in last one and a half years are beginning to show results. Going ahead, we hope to see a continued momentum on the reforms front. The focus should clearly be on introducing measures to further boost domestic investments and demand. Part of the reason for India’s success is the economic liberalization that started in 1991 and encouraged trade substantially ending some public monopolies. GDP growth has slowed in recent years, due in part to skyrocketing inflation. India’s workforce is expanding in the industry and services sectors, growing partially because of international outsourcing — a profitable venture for the Indian economy. The agriculture sector in India is still a global power, producing more wheat or tea than anyone in the world except for China.
Amtech Electronics (India) Limited

Mission
Amtech has a mission of developing technology, offering the total solution to our customers in the field of MOTION CONTROL, AUTOMATION, POWER QUALITY & INDUSTRIAL ELECTRONICS.

About Amtech
Amtech has six customers in every industry to reach their goals by leveraging Amtech’s engineering, power electronics and automation products, like AC drives, Soft starters & Engineered Systems, supported by Amtech’s unmatched customer service and support.

Amtech leads the industry with continual investment in research and development and has developed many state-of-the-art products for industrial motion control, in addition to its existing product line.

Amtech is dedicated to providing cost-effective, reliable products to meet the needs of its customers, who require and expect high value, technologically advanced equipment, designed for a significant return on investment as a result of improved energy efficiency. AMTECH is a synonym for American Technology. The company was incorporated in 1987 with a factory located at Electronics Zone, Gandhinagar.

Infrastructure and Human Resource
Amtech has state-of-art infrastructure and hi-tech production and testing facilities. It has highly qualified team of management professionals with vast experience in the field of power electronics. More than 300 qualified employees are working in various functions, like Marketing, Engineering, R&D, Manufacturing, Quality Assurance and Customer Support.

Research and Development
Amtech, the pioneers in state-of-art Motion Control & Automation technology since 1991, has continuously innovated to produce the finest Automation and Motion Control Systems at par with global standards. Fully equipped with design and development tools such as CAD tools, simulation software, DSP design development tools etc. and experienced Technical Professionals, Amtech is able to cater to customized requirement in Power Electronics & Automation.

AMTECH’S Strengths
Core Competence in AC drives and customized solutions. Manufacturing excellence and Fast turn-around capability.

DSIR Certified In-house R&D.
Quality System certified as per ISO 9001:2008 standard.
Wide installation base with major industry coverage.
Dealers/system house network across the country.
Total Customer Service Support network across the country.
Highly Qualified and Experienced professionals.
Approval of renowned consultants in various industries.

Areas of Business
Motion Control - Automation - Power Quality - Industrial electronics.

Motion Control
Amtech-Eazy AC Drive

EXPERT-EAZY is designed for wide-ranging, tropological and power condition applications. The drive is easy to configure, control and monitor.

Range: 30 kVA to 1800 kVA
Voltage: 415V, 575V & 690V

Amtech-Hyved Medium Voltage Drive
EXPERT-HYVERT Medium Voltage Drive is widely used for speed regulation, energy saving, soft start-up and intelligent control of the medium voltage motors.

Range: 250 kVA to 12500 kVA
Voltage: 3.3 kV, 4.16 kV, 5.75 kV & 11 kV

Amtech-OPC soft Starter
EXPERT-OPCTorque Electronic Soft Starter offers a complete package of advanced features in starting/ stopping, protection, monitoring, diagnostics & communication for motors.

Range: 30 kVA to 9000 kVA
Voltage: 230V, 415V, 575V & 690V

Engineered Systems
Amtech’s vertically integrated engineered systems assures seamless co-ordination between individual components in our complete packaged solutions.

Amtech Jetter Process - PLC - Jwell - Jwell - Servo/Stepper Motors and Controllers
We offer TOTAL SOLUTIONS for complete process automation

Amtech Vetronix @ FCI - PLC & HMI - Servo/Stepper Motors and Controllers

Products: Active Front end Converter

Amtech Harmonic Filter
Sinus Filter

Services:
Harmonic Audit and Solutions to comply with global standards.

IEEE-519:1992, GS/4-1, GB/T 15459, IEC 61000-3-2, -3-4 Energy Audit & solutions by experienced BEE certified professionals System design, optimization & pay-back analysis

Industrial Electronics

Products:
Traction Drive
High Voltage Power Supply
Battery back-up drive & systems for critical loads
Wind Power Converter
Solar Inverter

Services:
Retrofit Solutions
Customized solutions to the industry specific application

Solutions for HVAC Application
Power electronics technology outsourcing

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Special issue on Electrical Accessories in May - June 2016

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SOLAR PRODUCTS INDIA

Ramamoorthy
Proprietor - Solar Products India

POWER – ENERGY – a word of essential need to all of us. Not only elders, youngsters, even children also need the energy (electricity). I mean they also consume the power daily by the way of use of laptops, smart phones, music systems etc. Now a days POWER CONSUMERS are increasing day by day. Renewable sector made some improvements to produce the power for the country. But renewable energy productivity varies as it depends on nature. Research and developments are going on in SOLAR POWER, WIND ENERGY, TIDE, ENERGY. We need a Big Change in our power industry and production of the Power. We develop and apply the renewable power in automobile industry too which in turn controls the pollution of the Air, Sound and global warming problems.

Our country need to utilize Solar Power on a large scale. Solar power production is not on a satisfactory level. Multi stored buildings, flat owners, individual house and property developers must join hands to save the power consumption and create ideas to improve the power production.

Every house hold must install atleast 500watts to 2kw in each residential property. Normally all are installing only AC power. But our company SOLAR PRODUCTS INDIA is installing DC power for domestic applications. Off-grid solar systems are very convenient for domestic customers. In Tamilnadu as on date we have installed nearly 500 Numbers of such small installations. Our consumers are happy and save ENERGY for the nation. We are designing a electric motor cycle and electric four wheeler for automobile sector which shall save more fuel in future and since it shall run without fuel shall reduce the sound pollution. More over Automobile sector must make more research and developments to improve the electric automobiles in our country. Battery buses, battery cars. Our educational institutions and govt. and private Universities must introduce studies about the renewable energies.

At present our Government is installing big solar parks, which shall produce more power and fulfill our power needs. Every state in our country must install more solar parks, which shall immensely improve the power distribution in all domestic and industrial sectors. All the Industrialists, Power Producers, Power distributing companies must come together to take this challenge and join hands. The transportation sector must improve their ideas to save power, and water to develop our country.

WE TRUST Infrastructure Line's 2nd product – Electrical Line shall create awareness in POWER Sector and give their co-operation to industrialists, corporate, and small tiny products sectors also. We wish them all success to create a new horizon, and new era in the electrical sector.

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TOPICS COVERED:
- Power, Electrical Accessories, Wires & Cables, Switchgears,
- Sensors, Transformers, Relays Inverters & Ups, Cable Trays,
- LED, Electrical Transmission Line Goods, Generator Sets,
- Lighting & Display etc.

TARGET AUDIENCE:
Circulated throughout the country. Electrical Line enjoys a readership of more than 50,000, including Electrical Contractors, Electrical Engineers, Vendors, Architects and Consultants.

CONTENTS:
- New Projects, Project Updates, Contract & Awards, Interviews,
- Special Issues, Technology Updates, Site Report, Events Update.
Power And Control has introduced plugs and receptacles. Range from 16 Amps to 125 Amps Capacity made out of Polycarbonate Resin as raw material. It is mainly used for very rough handling and severe conditions prevailing in chemical plants, on board the ships, etc.

Material: Polycarbonate Resins of different grade made by GE-Plastic (I) Ltd. is used for our product. This thermo-plastic can withstand temperatures from -35°C to 145°C without deformation. Apart from thermal stresses it also withstands mechanical and electrical stresses. The connection chamber of plugs is made to suit 100% safe against ingress of water, so as to avoid short-circuit in the chamber. The contacts are made from electrolytic copper and brass alloys to overcome power losses condition during the transmission. Confident to overcome all tests of world-renowned laboratories and meet their specifications. Receptacles from Power And Control (India), made out of Lexan Polycarbonate Resin of GE-Plastic (I) Ltd is having excellent Mechanical, Thermal and Electrical properties. Properties tested for Plugs and Sockets made out of Lexan Polycarbonate Resins:

- Impact Strength: Plugs and Sockets made out of Lexan Polycarbonate Resins having super impact strength over a wide temperature range from -35°C to +145°C without any deformation and virtually unbreakable.
- Heat Resistance: These Plugs and Sockets made out of Lexan Polycarbonate Resins can withstand up to 125°C. Continuous use temperatures and maintain its mechanical strength and other properties.
- Flame Retardancy: These Plugs and Sockets structure made out of Lexan Polycarbonate Resins match wide standardized flame test rate by Underwriter's Laboratories.
- Stability: The body structure of Plugs and Sockets is stable due to low water absorption and high resistance to ultraviolet radiation and practically no effect of weather.
- Construction: Construction of Plugs and Sockets is 100% waterproof and dust proof for rough handling and damp conditions. It is made as per International standardized sizes and also made as per individual specifications.
- Ratings: Available in 16 Amps to 125 Amps 24V to 450V, 2 Poles to 6 Poles + Earthing.

Safety: The structure of Polycarbonate withstands up to dielectric strength 15 Kilo Volt/m, surface resistivity > 1012 Ohms and comes under class H&C insulation for continuous use at rated current. A Guide pin is provided to avoid dangerous misconnection and impossible to penetrate in. Second safety is that the thicker earthing pin makes it impossible to insert in to phase connection. In other words, it is a totally fool proof against misconnection. The contacts are tested to carry for rated/adequate current carrying capacity. The products are made in accordance with International Safety Standards.

Plugs & Sockets of Polycarbonate 35AMPS, 63AMPS, 125AMPS, 3, 4, 5, 6 Pins Enclosers with Switch-Sockets, MCB-ELCB, MCB, RCCB & RCBO up to 125 Amps, 24 Points Distribution Board.

Serving Customers in GLOBAL & DOMESTIC markets

11/12, Neelgiri Industrial Estate, 183, Tackersey Jivraj Marg, Sewri (West), Mumbai 400 015, Maharashtra, India.
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ashvin.pcontrol@gmail.com • ashvin.pcontrol@yahoo.com
Jupiter Electronics offers Dew point Instruments

Measuring on-line as well as portable products from E+E, Austria.

Dew point is the temperature at which the air over water is saturated with water vapor at a constant Air Pressure. The water Vapor Pressure that then prevails is the same as the water vapor saturation pressure.

Application:-

Dew point is a parameter to be measured in Sulphur hexafluoride (SF6) gas used in Circuit Breakers in Power Industry. SF6, is a non-toxic, inert, insulating and cooling gas of high dielectric strength and thermal stability. Due to its high dielectric strength, it is particularly suited for application in high voltage circuit breakers as well as in high-voltage cables, transformers, and switchgear.

The excellent arcquenching and insulating properties of SF6 allow the construction of new circuit breakers and switching stations of higher voltage in smaller size with less noise.

During electrical power distribution, power switching or load current interruptions can lead to arc formation, which in turn may cause serious and costly cut-off power to the distribution network. Sulphur hexafluoride gas is widely used for insulating and quenching purposes in high voltage circuit-breakers because of its high resistance to arcing. It is also the case of large-scale circuit-breakers and switchgear, where no equally effective alternative to SF6 has been found.

The dew point of SF6 reflects the circuitbreakers’ ability to withstand fault situations.

Excess moisture in SF6 degrades its electrical insulation capabilities and can lead to the formation of unwanted by-products. To prevent critical consequences in the power distribution system, it is important to maintain low humidity in the SF6 gas.

E+E offers online models EE35/EE375 and Handheld Omnipro E 30 series for measuring dew point of gas.

Dew point Ranges for the Instruments are -60 to 200DegC depending on the models selected.

Jupiter, offers, repair recalibration services along with all the application engineering support in INDIA.

Omrion Automation...

Omrion Automation... is a solution provider and IOT depurating that Omron solutions are future ready and are aligned with the emerging concept of Industry 4.0.

Not only industrial automation, the booth is an interface to other key offerings of OMRON business verticals in India also, namely, Electronic & Mechanical Components, Automotive Electronic Components, and Healthcare.

The Electronic & Mechanical components display depict Omron as a value creating partner for designing equipment in varied industries such as automotive, building automation, home appliances, medical and power industry through a niche display of relays, switches, illumination technology. The Automotive Electronic section emphasize on Omron’s contribution in designing safer and reliable cars. The Omron Healthcare zone attracted many visitors keen to check their blood pressure by using Omron digital BP Monitors and getting acquainted with other home health monitoring devices manufactured by Omron.

About Omron

OMRON CORPORATION is a global leader in the field of automation based on its core technology of sensing and control. OMRON’s business fields cover a broad spectrum, ranging from industrial automation and electronic components to automotive electronic components, social infrastructure systems, healthcare, and environmental solutions. Established in 1933, OMRON has about 39,000 employees worldwide, working to provide products and services in more than 110 countries and regions. In the field of industrial automation, OMRON supports manufacturing innovation by providing advanced automation technologies and products, as well as through extensive customer support, in order to help create a better society.

Incepted in 1993, OMRON AUTOMATION INDIA caters to over eight industrial segment namely packaging, automotive, material handling, solar, food & beverages, textile and panel handling applications. The product portfolio includes Industrial components, Automation Systems, Sensing & Safety, Motion & Drivers and Software. Centering on the themes of quality, safety & the environment, it supports manufacturing innovation worldwide with unique sensing & controlling technologies. Of late, Omron has been concentrating on the solution business which solves management problems on diverse production sites. It is rapidly expanding its operations with focus on major cities namely Mumbai, Gurgaon, Bangalore, Pune, Chennai & Ahmadabad. It is also making its presence felt across the other parts of India by appointing resident engineers to address the ever challenging requirements of the clients. A major factor in Omron’s progress globally & locally has been the strong commitment towards its customers keeping ‘Quality First’.

For further information, please contact: Anurag Bhat, Corporate Communications, Omron, +91-9899891904, anurag@ap.omron.com Richa Shrestha, Weber Shandwick, +91 9560144115, rshrestha@webershandwick.com Richa Kochhar, Weber Shandwick, +91 9654585845, rickcharr@webershandwick.com
BHEL bags Rs 282-crore order from NTPC for 50MW solar plant in MP

BHEL has bagged an EPC order from NTPC Limited worth Rs 282-crore for setting up a 50 MW solar project at Mandsaur in Madhya Pradesh. The project is scheduled for completion in twelve months. (Media Report)

State Grid Wins Bids on Power Transmission Lines in Brazil

State Grid, a Chinese state-run power giant, has won bids to set up a pair of new transmission lines in Brazil. The deals are worth over 110-million US dollars. The two lines are being built in western Brazil. (Media Report)

Fortum wins 100 MW project in Pavagada solar park

Fortum, a Finnish utility firm, has secured a 100 MW solar power project from NTPC under an auction for 500 MW grid, which will connect solar Photovoltaic (PV) projects in Karnataka. The solar power plant will be built in Pavagada Solar Park in Tumkur District, Karnataka with a fixed tariff of Rs 4.79 per unit for 25 years. (Media Report)

Inox Wind bags 70 MW wind turbine orders from Adani Enterprises

Adani Enterprises has placed order for wind turbine generators with Inox Wind Limited. Inox has inked two contracts for a cumulative capacity of 70 MW with Adani Green Energy Ltd, a wholly owned subsidiary of Adani Enterprises Limited and part of the Adani Group. The orders bagged by Inox Wind represent Adani Group’s maiden foray into the wind energy segment and encompass a 50 MW turnover project to be set up in Amantapur district in Andhra Pradesh and a 20 MW turnover project at Inox Wind’s Lahori site in Madhya Pradesh. As part of the two turnover orders, Inox Wind will deliver, install, and commission 55 units of Inox Wind’s 100 rotor diameter turbines and has also been contracted to undertake operations and maintenance services of the projects for a multi year period, post commissioning. (Media Report)

Swellset Energy wins 10 MW Solar Power Project in Karnataka

Swellset Energy Systems Ltd has informed that the company has participated in KREDIL Solar Power Project announced by Karnataka Government recently. Under the DCR Category eligible for Karnataka based solar module manufacturers, the company submitted the bid and won a 10 MW Solar Power project. The Board of Directors at their meeting held on April 11, 2016 have approved the proposal of acquiring 100% equity share capital of SWELLSET Power Systems Private Limited at face value for utilizing the said Company as SPV for the above 10 MW Project from execution to operation and maintenance and passed necessary resolutions accordingly. (Media Report)

Veolia awarded contract by Dolphin Energy for gas facilities in Qatar

Veolia, through its subsidiary Veolia Water Technologies, has been awarded a contract by Qatar Engineering & Construction Company to engineer, procure and deliver a wastewater treatment plant for Dolphin Energy’s natural gas production and processing facilities in Ras Laffan, Qatar. Start-up is scheduled for September 2017. (Media Report)

Suzlon surges on securing order of 105 MW from Greenko Group

Suzlon Group, has bagged order from Greenko Group for 105MW (50 units of 210kW WTG with Hybrid Tower). The project will be located in Andhra Pradesh, India and will be progressively commissioned by January 2017. (Media Report)

Acciona Energia wins 168-MW wind project in Mexico

Acciona Energia has said that it will implement a 168-MW wind park at Tamaulipas region in Mexico. The local subsidiary of Spanish group Acciona SA was among the winners in Mexico’s energy auction this week. It won 585.7 GW-h of power supply contracts for the wind project. The auction resulted in 1.38 TWh of annual wind and 4 TWh of annual solar power deals. Named El Cortijo, the wind power plant will comprise 56 of Acciona’s 3-MW turbines. Construction works is scheduled for 2017 and commercial operation for 2018. The energy output will be supplied to state-owned Comision Federal de Electricidad under a 15-year power supply contract. (Media Report)
Gemena wins EPC contracts for two wind farms in Egypt with combined capacity of 160 MW

Gemena, a global technology leader in wind energy, has secured two new EPC orders for the construction of two wind farms in Egypt. The facilities will have combined capacity of 160 MW and are located in the Gabal El Zeit area along the Red Sea coastline.

The first contract, for the supply of a total of 120 MW, was awarded by Egypt’s New & Renewable Energy Authority (NREA) by means of international public tender in which the leading OEMs participated. It encompasses the supply, installation and commissioning of a total of 60 G80-2.0 MW wind turbines at a new project which is being funded by the Spanish government through its Fund for International Business Expansion (FPIEM for its acronym in Spanish). Delivery of the wind turbines is scheduled to begin in October 2016, while the facility is slated for commissioning in the third quarter of 2017.

The second order, meanwhile, is for the supply of another 20 G80-2.0 MW turbines (40 MW) in order to expand an existing operational 200 MW complex, which was also awarded to Gemena by NREA by means of international public tender in 2011. These 20 new turbines will be delivered during the last quarter of this year for commissioning in early 2017. As with phase one of this project, the expansion will once again be financed by the German development bank, KfW.

(Solar Report)

SOLAR Canadian Solar bags 63 MW solar power project in Mexico

Canadian Solar has won a 63 MW solar power project in Aguascalientes, Mexico to develop and build the solar power plant. Canadian Solar will sell the electricity generated to CFE under a 15-year Power Purchase Agreement for energy and capacity, with Canadian Solar Clean Energy Certificates at approximately US$47.95/MWh. The project is expected to be connected to the grid in September 2018. (Solar Report)

Vestas bags 172 MW of turbine supply orders in Brazil

Denmark’s Vestas Wind Systems A/S announced it will supply wind turbines for six projects totaling 172 MW in Brazil’s northeastern state of Bahia under its first orders in that country for the year. More specifically, Vestas will deliver and install 86 pieces of its V100-2.0 MW turbines under the new contracts. Turbine delivery is expected in the second quarter of 2017, whilst commissioning is scheduled for the fourth quarter of 2017. The value of the deals was not given. (Vestas Report)

Suzlon bags 197.40 MW wind power project in Gujarat

Suzlon Group has said that it has bagged a turnkey order for development of 197.40 MW wind power project from a leading private sector power utility in Gujarat. It will install its S97 suite of wind turbine generators with 120m and 90m hub height and rated capacity of 2.1 MW each. The projects will be located across three sites in Kutch and Bhavnagar districts of Gujarat. The project will be commissioned in phases with complete execution scheduled by March 2017. It will also provide comprehensive operation and maintenance services for the complete project life cycle. (Suzlon Report)

Suzlon Energy bags order from IOC

The Suzlon Group has announced another turnkey order of 48.30 MW wind power project from Indian Oil Corporation Limited. The project consists of 11 units of 9792Wh 120m all-steel hybrid tower and 12 units of 9972Wh tubular tower with rated capacity of 2.1 MW each. Located in the districts of Jasalmer and Jodhpur, Rajasthan, the project is scheduled for completion by March 2017. Suzlon will provide comprehensive operation and maintenance for an initial period of 10 years. (Suzlon Report)

HCC bags orders worth Rs 625 crore for hydro power, tunneling sectors

Hindustan Construction Company has been awarded two contracts worth Rs 623 crore in the Hydro power and tunneling sectors. The first order worth Rs 456 crore, by Tangjibi Hydro Energy of Bhutan, is for constructing 118 MW Nikachhu Hydropower project and it is to be completed in 48 months.

The second order of Rs 167 crore from Jammu and Kashmir State Power Development Corporation is for constructing a double lane tunnel of approximately 1,300 metres which will be the access road to Swakwrote Hydroelectric Power Project in J&K. This project is expected to be completed in 30 months. (HCC Report)

IL&FS bags Rs. 154-cr contract from PowerGrid

A joint venture of IL&FS Engineering and Construction Company Ltd and Unitech Power Transmission Ltd has received a letter of award from Power Grid Corporation of India Ltd worth Rs. 153.99 crore for a turnkey contract to execute a 765 kV transmission line in Gujarat. The scope of work includes supply contract for tower package for 765 kV Bhuj-Banaskantha transmission line associated with Green Energy Corridor relating to the Inter-State Transmission Scheme. The project, funded by the KFW Bank, is to be executed in Gujarat within 24 months from the date of award. (IL&FS Report)

RCR wins Origin solar project contract

RCR Tomlinson has won a contract to provide initial design and construction plans for a proposed solar farm at Dalby in Queensland. However the final contract is still subject to various state and federal regulatory approvals, achievement of grant funding and a final investment decision by Origin. RCR did not disclose the value of the initial contract.

L&T Power Transmission & Distribution Business bags orders worth Rs. 710 crores

The business has bagged new orders worth Rs. 710 crores in both the domestic and international markets. In the domestic markets, a major turnkey order has been received from POWERGRID Southern Interconnector Transmission System Limited for the construction of 400 kV double circuit transmission line linking Cuddapah to Madhugiri. Another order has been won from Power Grid Corporation of India Limited (PGCIL) for the construction of a 765 kV double circuit transmission line at Cuddapah.

Larsen & Toubro (Oman) LLC has received a turnkey order from Oman Electricity Transmission Company for the construction of 400 kV reactor transformers and associated works at Sur and maleik substations. (L&T Report)

Kalpataru Power bags Rs 1,320 crore orders from Power Grid Corp

Kalpataru Power Transmission Ltd has secured orders worth Rs 1,320 crore from Power Grid Corp, 1. The order includes a transmission line supply project for Gadarpura-Warora Transmission Line project of about Rs 333 crore from Powergrid Warora Transmission Ltd, 2. A transmission line supply project for ultra mega solar park transmission system in Andhra Pradesh of Rs 77 crore and also a Rs 44 crore for a substation project, 3. Turnkey transmission line project of 765 kV Vemagiri-Chikkaballapura of about Rs 778 crore from Powergrid Southern Interconnector Transmission System Ltd, a wholly-owned subsidiary of Power Grid Corp, 4. The company has also got a key transmission line project of Rs 73 crore in Abu Dhabi. (Kalpataru Report)
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CABLES & CABLE TRAYS LAYING WORK
Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited
Allagur - Uttar Pradesh - India
Laying Of Power-Control Cables & Cable Trays Of Unit 840 And Box Area Excluding Coal Handling Plant At 22450 Mw, Hardaugar Thermal Power Station, Kaisumpur
Tender Value : INR 283,000
EMD : INR 5,660
Document Fees : INR 342
Closing Date : 11/4/2016

TRANSFORMER PACKAGE WORK
Power Grid Corporation Of India Limited
Bikaner - Rajasthan - India
Transformer package TR-01 associated 75x500 MVA, 750/400 KV, 1 ph auto transformer at 755/400 kv with green energy corridor STS part D
Document Fees : INR 25,000
Closing Date : 2/2/2016

ELECTRICAL DISTRIBUTION EQUIPMENTs MAINTENANCE WORK
Bhabha Atomic Research Centre
Mumbai - Maharashtra - India
Maintenance of Internal Electrical Distribution Equipments and addition, alteration of Power supply system at MASCT, Sup er Computing Facility and Central Complex Buildings, IAR, Trombay
Tender Value : INR 3,200,000
EMD : INR 64,000
Document Fees : INR 1,832
Closing Date : 6/5/2016

INDUSTRIAL SAFETY WORK
East Coast Railway
Bhubaneswar - Orissa (Ghilis) - India
Supply of Diesel Alternator Set of 500 KVA etc., Radiator Assembly etc., Programme Switch etc., Auto Focus, Total Station Plus Essential Accessories etc., 650A Heavy Duty ARC Welding Rectifier etc., Brake Disc and Wheel Set etc., Set of Brake Pad for Disc Brake System etc., Panchpuri Complete Assembly etc., Gland Bush for 81PW Wagon etc., Distributor Valve etc., Industrial Safety Shoes (Gents) etc
Closing Date : 5/6/2016

POWERЫ GENERATION AND SUPPLY WORK
East Coast Railway
Batnagar - Andhra Pradesh - India
Generate and Supply of 1MW Power from Rooftop Solar PV systems on different service buildings at Vizagapatam under PPP Model. The SPV will be responsible for Design, Engineering, Procurement, erection (including civil and structural works), Installation, Testing and Commissioning of the solar PV system(s) including Operation and Maintenance (O&M) of the system(s) for a period of 25 years aftercommercialization of project(s).
Document Fees : INR 10,000
Closing Date : 4/5/2016

SPACES PROCUREMENT FOR AIR FORCE
Indian Air Force
New Delhi - Delhi - India
EMD : INR 1,157,000
Closing Date : 5/5/2016

11KV OUTDOOR CURRENT TRANSFORMER WORK
Tamil Nadu Electricity Board
Chennai - Tamil Nadu - India
Supply of 11 Kv Outdoor Current Transformer Inclusion Under Rate Contract System
EMD : INR 200,800
Document Fees : INR 10,000
Closing Date : 7/5/2016

Procurement of 220/245 KV C.T.
National Thermal Power Corporation Limited
Gautam Budh Nagar - Uttar Pradesh - India
Procurement of 220/245 KV C.T.
EMD : INR 84,000
Document Fees : INR 2,400
Closing Date : 30/4/2016

CABLE TRAY SUPPLY WORK
Naval Dockyard
Mumbai - Maharashtra - India
Supply Of Cable Tray With Cable Rollers For Sbw & Southwharf Jetty For Cno 60 Myas Deck At Naval Dockyard.
Closing Date : 21/04/2016

ACCESSORIES AND HARDWARE FITTING WORK
Power Grid Corporation Of India Limited
New Delhi - Delhi - India
Providing of Hardware Fittings and Accessories Packages NF1, HF20 and HF 03 for ragar (HVDC) - Pugalur 500kV HVDC TL Under HVDC Bipole Link Between Western region and Southern region
Document Fees : INR 25,000
Closing Date : 9/5/2016

CONSTRUCTION WORK OF 22 KV CONTROL PANELS
Himalachal Pradesh State Electricity Board
Rampur-Himalachal Pradesh-India
Design, providing, erection, testing and commissioning of material for construction of 22 kv control panel(s) nos. inomers and 6 nos. outgoing feeders/for network under ESO for turnkey basis
Tender Value : INR 214,900,000
EMD : INR 373,000
Document Fees : INR 56,500
Closing Date : 7/5/2016

AC TO DC RECTIFIER SUPPLY WORK
Indian Army
New Delhi - Delhi - India
Supply of AC to DC Rectifier
EMD : INR 600,000
Closing Date : 3/5/2016

DESIGN AND ENGINEERING WORK OF DEION SYSTEMS
Sharat Heavy Plate And Vessels Limited
Trichy - Tamil Nadu - India
Expression of Interest (EOI) is invited by BHEL, from DeION system designers, to work jointly with BHEL on design & engineering of DeION systems meant for power plants and its integration with the boiler, on a project to project basis
Closing Date : 30/04/2016

ACCESSORIES HARDWARE FITTING WORK
Power Grid Corporation Of India Limited
New Delhi - Delhi - India
Providing of Hardware Fittings and Accessories Packages NF1, HF20 and HF 03 for ragar (HVDC) - Pugalur 500kV HVDC TL Under HVDC Bipole Link Between Western region and Southern region
Document Fees : INR 25,000
Closing Date : 9/5/2016

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