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## FROM THE ED'S DESK

Dear Friends,

While the cables industry, in general, continues to remain slow and unattractive with less than 50% capacity utilization, Quarter 3 of FY 2013-14 renders hopes of fluttering signs of an economic revival, as reflected by increasing investments in the Infrastructure and Industrial sectors. Our business too has witnessed double-digit growth during the year, particularly in Exports, Telecom and EHV segments.

We participated in Elecrama at Bangalore, where we met several of our esteemed customers. We also took the opportunity of organising a training program called 'Infinity' at our own as well as the customers' premise, which have received a wide acceptance and have been well appreciated.

At our Vadodara facility too, the visitors continue to get fascinated with our systems, processes, people and our world-class infrastructure. Commercial production and sale of cables upto 132 kV has already commenced, and we are proud to have received our first 220 kV order! Besides, our Mysore plant has now reached peak levels last witnessed in Y2K.

Change is constant and inevitable. Our business too is transforming with the induction of Mr. Indrajit Lahiri, Sr. Vice President, Sales and Marketing; Mr. Anjan Banerjee, Vice President and Unit Head, Vadodara; and Mr. Sampat Kumar, Vice President, Commercial; into our Leadership Team. Along with them, we are hoping to sail into FY 2014-15 with even more zeal and aggression.

Our Corporate Office is gearing up for a new look. Hence we have temporarily moved to an office since renovation will take another 5-6 months. Please bear with us for any inconvenience this may cause or will cause you.

With the New Year comes new resolutions, new hopes and enthusiasm. We have revitalised our team to offer the best quality products – on time and at a better price.

Best wishes for FY 2014-15

Sincerely,  
**Nikhil Gupta**

*“Let the colors  
of Holi spread  
the message  
of peace &  
happiness”.*



## OPTICAL FIBRE CABLES

Fiber Optic Cable is an integral part of the Telecommunications infrastructure. The telecommunication explosion witnessed over the past 10-15 years has been facilitated by fiber optics.

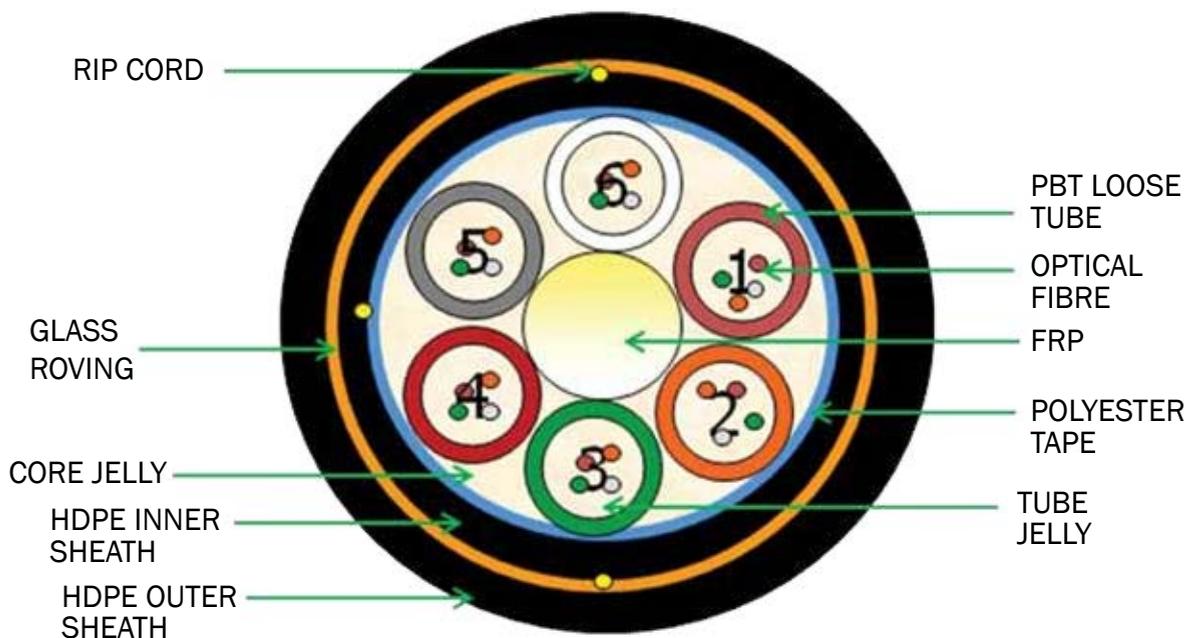
As subscribers become increasingly hungry for higher speed, service providers have little option but to ensure enough bandwidth. Besides the new entrant Reliance JioInfocomm, which is the holder of pan-India 4G spectrum, the existing operators too are expected to increase their presence in both 3G and 4G, in order to cater to the growing demand in data traffic. The requirement for fiber optic cable is therefore expected to grow significantly in the coming months.

The NOFN (National Optic Fiber Network) Project was conceived by the Government of India and is being implemented using USOF (Universal Service Obligation Fund) accumulated by the Government

over the last few years. The NOFN project is expected to make broadband available at the Panchayat level. The current program involves taking fiber to around 250,000 Gram Panchayats. BBNL (Bharat Broadband Networks Limited) has been formed by the Government of India for implementation of the NOFN project. RPG Cables is among the suppliers of optic fiber cables for this ambitious Government project, which will be implemented over the next 12 months.

BBNL has opted to go for 24 Fiber Cables with G 652 D fibers and a cable construction suitable for laying cables in ducts underground. There will be some cables that would be required to be deployed overhead depending upon the terrains in which they are required to be installed.

Typical construction of a cable against **BBNL** requirement...



"Trust each other again and again. When the trust level gets high enough, people transcend apparent limits, discovering new and awesome abilities for which they were previously unaware."

**David Armistead**

## OPTICAL FIBRE CABLES....contd.

### APPLICATION: UNDER GROUND IN DUCT

#### GENERAL CABLE CONSTRUCTION:

##### Fibre Type : Single Mode

**Secondary Protection:** The primary coated fibres are protected by loose packaging within PBTP tube, which is filled with thixotropic jelly.

**Strength Member:** Solid FRP non - metallic strength member is used in the center of the cable core. The strength member in the cable is for strength and flexibility of the cable.

**Cable Core Assembly:** Primary coated fibres in loose tubes are stranded together around the central strength member using reverse lay techniques, which form the cable core.

**Core Wrapping:** The main cable core containing fibres is wrapped by a layer / layers of Polyester foil/ tape. The nylon/polyester binder thread is used to hold the tape.

**Moisture barrier (protection):** The main cable core (containing fibres & core wrapping) is protected by thixotropic flooding compound (jelly) having properties of non-hygroscopic dielectric material.

**Inner Sheath:** A non-metallic moisture barrier sheath is applied over and above the cable core. The core is covered with tough weather resistant High Density Polyethylene (HDPE) sheath, black in colour (UV Stabilized).

**Glass Reinforcement:** Impregnated Glass Fibre Reinforcement is used to achieve the required tensile strength of the optic fibre cables.

These flexible strength members are **Non-water blocking type**. The use of Solid Rigid FRP Rod(s) is mandatory in Optical Fibre cable design. Impregnated Colour Coated Glass Fibre Reinforcement used are

equally distributed over the periphery of the cable inner sheath. It is applied **helically** and provides full coverage to inner sheath and grant rodent protection.

**Outer Sheath:** A non-metallic moisture barrier sheath (black in colour) is applied over the Glass Reinforcement, which consists of tough weather resistant anti-termite High Density Polyethylene compound (HDPE). The outer sheath is black in colour and UV stabilized.

#### RIP CORD:

Three suitable ripcords are provided in the cable which are used to open both the HDPE sheath of the cable. Two ripcords are placed diametrically opposite each other below the outer Jacket & one ripcord is placed below the inner sheath.

In this design, expensive Nylon 12 jacket is avoided by using a combination of Glass rovings and HDPE outer sheath which renders the cable termite resistant and rodent resistant.

**Applicable Standards:** IEC 60793/IEC60794/IEC 60304/ ITU-T-G652D

RPG Cables is among the leading manufacturers and exporters of Power and Telecom Cables.

The manufacturing range of Optic Fiber Cables includes various types such as UG Cables for direct burial and laying in ducts, Aerial ADSS (All dielectric self supporting) and Fig 8 construction, cables for FTTH application, among others. The best known global brands of fibers are used by us to make cables. The various types of fibers include Single mode G 652 D, G 655, G657 and Multimode OM1, OM2, OM3 and OM4.



## ELECRAMA

KEC International Ltd and RPG Cables participated in the world's largest exhibition on Electricals and Electronics- Elecrama at Bangalore.

The Exhibition witnessed participation from leading Indian and Global manufacturers and also enabled a platform for buyers and sellers to meet. Our Stall was inaugurated by Mr. R. N. Nayak, CMD of PGCIL, and Mr. R. D. Chandak, MD of KEC. The exhibition granted us the privilege of meeting several old and new customers and even international prospects.

Our Team from across the country manned the stall, and there were technical and interactive sessions with several customers for their requirement of cables.

We continue to participate in Exhibitions and Conferences, not only in India, but in different parts of the world too.

## INFINITY

We are conducting our knowledge sharing program 'Infinity' at our Vadodara and Mysore facilities regularly. The last two times these were conducted at our Mysore facility and proved to be a great success. Customers from various companies joined us to get a better understanding of cables to help them design their cabling systems more efficiently.

We are happy to say that we have already conducted 8 sessions and trained over 200 customers through the program. With several questions coming from the users, it turned out to be a very interactive session.





## THE MAGIC OF REJUVENATION AT VADODARA FACILITY

Ask any coach of a football team which is going through a challenging phase in a league, what is that single thing he will focus more on during this crucial period and he will reply **"Keeping my players motivated, engaged and focused on goals (pun intended) and not letting them flee"**.



This holds equally true for any business to succeed, be it any corner of the world. For a business to survive in a competitive market during recession, it is important that it keeps its employees motivated and engaged continuously. With this intent, we at KEC International Ltd, Vadodara, celebrated a week-long initiative called **"Project Rejuvenate"** in November 2013.

Project Rejuvenate was a unique, inimitable, groundbreaking, revolutionary and a novel initiative, which emphasized on the importance of refreshing, reviving, revitalizing, energizing and rejuvenating the inner self by taking a break from mundane work activities.

The entire week was dedicated to activities such as 5S training and events, games (Tug-of-War, Cricket, Chess, Carrom, Volleyball, among others), Technical Training, Safety Training, Integrated Management Systems Training, Star Cap Empowerment, Education on Safety Awareness, Single Minute Exchange of Die (SMED) Training, New Team Formation of High Performance

Teams, 3R Magic Event, Environment Aspect - Impact Analysis Training, IMS Documentation and its control training to HPTs, Open House, among others. **The main emphasis of this project was on Learning and Enjoyment.**

Some immediate results that were visible from Single-Minute Exchange of Die (SMED) helped the plant reduce the machine set-up time from 4.5 hours to 1.2 hours, enabling us to produce more. **SMED** is one of the many lean production methods for reducing waste in a manufacturing process. It provides a rapid and efficient way of converting a manufacturing process from running the current product to the next product. This rapid changeover is the key to reducing production lot sizes and thereby improving the flow. The best way to understand this concept is through Formula 1 Car Racing, where during a pit stop all the four tyres of the racing cars are changed in less than 3 seconds. This is where SMED comes into play and helps the team reduce time.

Another area where remarkable improvement was visible was **5S Training**. We conduct weekly 5S audits on different areas and grant scores (out of 100) to each area. Our target is to achieve 60% in each area following a strict audit. Project Rejuvenate also focused on 5S activities and training of each and every individual, which helped us improve our 5S score in the plant. The effect of Project Rejuvenate was clearly visible and we are looking forward to more results in the process.





## FROM THE NEWS DESK

### WELCOME ON BOARD:

**Mr. Indrajit Lahiri**, is Vice President - Sales & Marketing.

**Mr. Lahiri** is an MBA from IIM Ahmedabad with around 20 years of professional experience. His last assignment was with Indus Towers as the Chief Executive Officer (Rest of Bengal), prior to which he worked with Asian Paints as the Chief Executive for Bangladesh region.

He can be contacted at - lahiriis@kecrpg.com



**Mr. Sampat Kumar**, is Vice President - Commercial.

In his new role, he will be responsible for procurement, commercial and HR functions. He was transferred to the Cables Division in December 2013. He is B.Tech(Mech) & MBA with over two decades of global experience. In his last assignment, he was with Vedanta Aluminium Limited.

He can be contacted at - sampatk@kecrpg.com



**Mr. Anjan Banerjee**, is the Vice President - Manufacturing for Vadodara Cables unit.

**Mr. Banerjee** is a BE-Mechanical and MBA (Operations) with around 27 years of experience. His last assignment was with Cable Corporation of India as the Executive Vice-President - Operations, prior to which he was with NICO as President - Operations.

He can be contacted at - banerjeeaa@kecrpg.com



**For additional information/details/queries and to subscribe to C2C, please write to:**

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