

**RPG CABLES**

(A Division of KEC International Limited)

Your Vital Link

C2C

CABLES TO CUSTOMERS

www.rpgcables.com

October 2014

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"People focus is built into the RPG DNA and is perhaps the most important driver of corporate performance,"

Harsh Goenka,
Chairman,
RPG Group

"The first step in exceeding your customer's expectations is to know those expectations"

Roy H. Williams

FROM THE ED's DESK

Dear Friends,

It's been a roller coaster quarter - with highs, very highs, and lows; just like the Stock Market. The new Government at the Centre means business, but like the proverbial elephant, everything moves at a snail's pace in India. And we take two steps forward and three back. Like the spectrum allocation controversy almost ruined the Telecom Industry some years back, the Coal blocks allocation judgement threatens to derail the Power Industry. And so life goes on, slow but sure.

It was a good quarter for us, in many ways. Opportunities abound, and if everyone was not focussed at the top line growth alone, we would see happier days. We won several Awards for our Quality systems and initiatives at our Vadodra facility, and we also got several organisations to approve and accredit our facility for sourcing of products.

We have completed the Type Test for our 220 kV range of cables at KEMA, which is the most reputed Testing facility in the world. The test was done on the largest cable ever made in India, having a 2,000 sq mm Milliken copper conductor. Now you can be reassured that we have the capability of manufacturing and installing very large cables. What is even more interesting is that these cables will come to you with a circuit guarantee, as the Joints and Terminations for these cables are brought to you by our sister company, Raychem RPG.

We have recently started a Development Centre for the manufacture of unique cables to meet the challenges faced by our customers. If you have a problem, or need help with power evacuation or transportation, we are happy to go back to the drawing board to identify a possible solution that meets your requirements. Speak with us. October 2014 has been a very unusual month, with perhaps more holidays than working days. I hope you enjoyed quality time with your near and dear ones, and are all charged up to herald the winter and the start of sweet days.

Best wishes,
Nikhil Gupta





TESTING OF 220 kV CABLES

EHV underground cables are now the backbone of the transmission system in major cities in India and EHV UG cable network is growing day by day. While UG cables of 66 kV - 132 kV were already in use by various utilities for long time, the 220 kV UG cable requirement has also started growing fast lately. Therefore, it becomes important to have understanding of test requirements for 220 kV grade XLPE cables, which are mostly tested as per IEC standard 62067, while cables of 66kV-132kV voltage grade are tested as per IEC 60840.

The following are the major differences in testing requirements for 220 kV cables:

Type testing is required to be carried out before supplying on a general commercial basis. The Type Tests for 220 kV XLPE cables is required to be carried out on cable system – i.e. Cable + Accessories (Terminations & joints), while it is usually carried out on cable alone for cables of

66kV-132 kV voltage grade. Type Tests are carried out in reputed independent test laboratories – like KEMA, CESI etc.

The details of tests applicable for 220kV XLPE Cables are as under:

A. Routine Test

Tests made by the manufacturer on each manufactured cable length to check if it meets the specified requirements.

B. Sample Tests

Tests made by the manufacturer on samples of complete cable, taken from a complete cable at a specified frequency, so as to verify that the finished product meets the specified requirements.

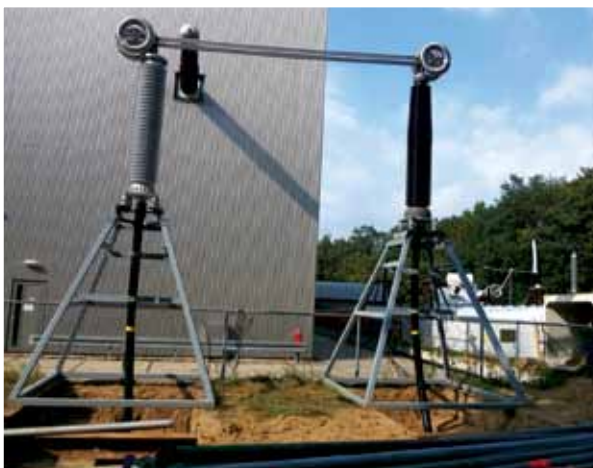
C. Type Tests

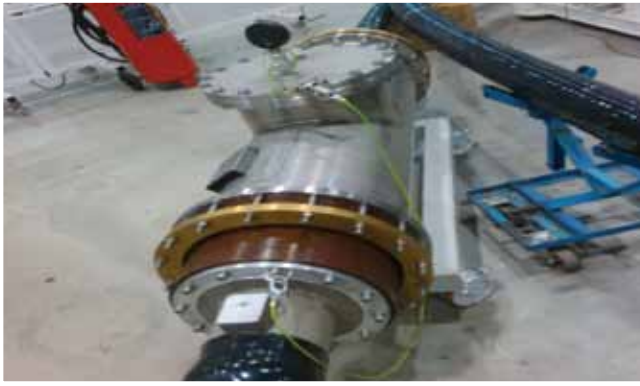
Tests made before supplying, on a general commercial basis, on a type of cable system in order to demonstrate satisfactory performance characteristics to meet the intended application.

Once successfully completed, these tests need not be repeated, unless changes are made in the cable or accessory with respect to materials, manufacturing process, design or design electrical stress levels, which might adversely change the performance characteristics.

D. Prequalification (PQ) test

Test made before supplying, on a general commercial basis, a type of cable system





TESTING OF 220 kV CABLESContd.

covered by this standard, in order to demonstrate satisfactory long term performance of the complete cable system. When a prequalification test has been successfully performed on a cable system, it qualifies the manufacturer as a supplier of cable systems of the same family with the same or lower voltage ratings as long as the calculated nominal electrical stresses at the cable insulation screen are equal to or lower than for the tested cable system.

As mentioned above, PQ test is simulation of cable installation at site, cable is partly laid in ground, partly in air and partly in pipe and tunnel. It is installed with one accessory of each type – e.g. outdoor terminations with porcelain insulator and composite insulator, GIS termination, straight through joint and insulated (cross bonded) joint etc. Due care is required in installation of accessories and is done by expert jointers approved by accessory manufacturers.

Extension of Prequalification Test (EQ Test)

Tests made before supplying, on a general commercial basis, a type of cable system covered by this standard, in order to demonstrate satisfactory long term performance of the complete cable system, taking into account an already prequalified cable system.

When a prequalified cable system is changed by exchanging a cable and/or accessory with another one that is already prequalified in another cable system with the same or higher calculated nominal electrical stresses at the insulation screen of the subjected system, the current prequalification shall be extended with this or other cable and/or accessory. To refer IEC 62067 for test details, in case EQ test is required to be performed.





“ACCELERATING PROFITABLE GROWTH THROUGH PEOPLE”

This was the theme of our Annual RPG Conference recently held in Mumbai. The RPG Group has achieved revenues of over Rs 18,000 crores in FY2013-14, and Mr. H. V. Goenka, Chairman of the Group, is looking to accelerate this growth in each of the businesses in the current year. Both employees and other stakeholders are considered critical to achieve this growth.

Guest lectures by Uday Kotak, Managing Director, Kotak Mahindra Bank, and Prof Wayne Brockbank of the University of Michigan focussed on large opportunities open to businesses in India under the new regime. It also dealt with what needs to be done to take advantage of these opportunities.

Differentiation through ‘Infinity’

We are constantly looking for opportunities to differentiate ourselves from other manufacturers in terms of quality of products, deliveries and Total Cost of Ownership.

In this journey, we constantly and extensively meet our customers and hold technical educational programs for their employees, both at our factories as well as customer premises.

In the last three months, we have conducted such ‘Infinity’ programs in India and overseas at prestigious customers such as Thyssen Krupp, Thermax, JSW, Dolvi as well as at Thrissur, through our partnership with Secure Electricals.

Similarly, we participated in an Exhibition of META at Madurai recently.

If you would like us to do such Day Seminars at your premises, do reach out to us through C2C.





VADODARA: THE QUALITY JOURNEY

“Winning is a habit”- Vince Lombardi



If you have been to the cultural capital of Gujarat in recent past, you will experience something extraordinary. Reach anywhere near the KEC International Ltd's Cable manufacturing facility and all you will feel around is an atmosphere filled with aura of winning.

RPG Cables Vadodara has established a structured problem solving methodology. Cross functional continual improvement projects such as “Capacity Utilization of Wire Drawing Machine”, “Single Minutes Exchange of Dies (SMED)” for Sheathing Operation Set-up time reduction and “Kaizens” for process improvements have boosted the organization's performance in terms of productivity, machine efficiency, machine utilization & capacity enhancement.

Redefining the boundaries of winning has become a regular practice at Vadodara. It's all about making a difference where ever we go. That's

exactly what was accomplished in a Kaizen and 5S Competition organized by Quality Circle Forum of India's Vadodara Chapter.

Winning 2 Gold Awards and 1 Silver Award in an extremely competitive event such as this is the sole reason for which words like “Incredible”, “Miraculous” and “Astounding” were introduced in an English Dictionary.

This unparalleled result is the outcome of the great determination and perseverance displayed by the team during the preparation and an impeccable execution during the competition.

Some of the other participating teams were, General Motors, CEAT, FAG Bearings, Adani Port, Reliance Industries, Grasim Industries, ABB, Bombardier, Welspun, etc.

The Vadodara Team achieved yet another feat by winning the Annual RPG TQM competition. RPG Cables shined bright and high by winning the ‘Best TQM Team’ for its Vadodara facility.





PEOPLE ON THE MOVE...



T. K Nandan

has been promoted as Vice President - Sales & Marketing (Telecom and Exports). He has a rich experience of 32 years, of which he has spent 5 years in KEC. He has done his Bachelors in Arts in the field of Economics and MBA in Marketing.



Sanjay Jadhav

has been promoted as General Manager- Sales & Marketing (Western Region). He has 23 years of experience of which he has spent 3 years in KEC. He has done his Engineering in Electricals.



Dinesh Gagrani

has joined us as Vice President- Finance. He is a Chartered Accountant and Company Secretary by profession and has 23 years of experience including 12 years with RPG.

Sridhar Rao has joined us as Head of Bangalore Branch and can be reached at bsrao@kecrpg.com.

We also have new representatives at the following locations:

- Dehradun – Anil Sharma (sharmaba@kecrpg.com)
- Vizag – Srinivasa Kumar (sunkaris@kecrpg.com)
- Chandigarh – Rajeev Kanwar (kanwarr@kecrpg.com)

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

Ms. Neha Choudhary

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