

R&M Delivers Industrial Protection Rated Products in an Operating Factory Environment

For Toyota Kirloskar Motor (TKM), one of the leading car manufacturers on Indian soil, it became imperative to expand to meet the ever growing automobile demand in the Indian market. However, this required a best-of-breed solution, and that's where R&M came into the picture with IP rated products that are stable and in line with the industry standards to withstand harsh industrial conditions.

Toyota Kirloskar Motor (TKM) is a joint venture between Toyota Motor Corporation and the Kirloskar Group established in 1997 to manufacture and sell Toyota cars in India. Currently, it is the seventh largest car manufacturer in India. TKM believes that the success of this venture depends on providing high-quality products and services to all valued customers.

In 1999, TKM rolled out its first car in India. The factory data networks were supplied by R&M. This factory is located in Bidadi and has a capacity of rolling out

80 000 cars every year. This factory was commissioned to develop the very popular Toyota Qualis for the Indian market and is now used to manufacture the Toyota Innova, Corolla and Fortuner.

Due to an increase in demand and development of newer models, TKM sanctioned the development of a second factory in 2008 which is located within the same premises as the first factory. With an initial capacity of 70 000 vehicles per annum, TKM is looking to increase capacity to 200 000 vehicles per annum depending on demand. This plant will manufacture new as well as existing models. These models are passenger vehicles, including the Corolla, as well as a new compact vehicle. The new compact vehicle is also expected to be exported to other countries in the future.

For both factories, TKM was looking for a solution that was stable, in line with industry standards, and one that would withstand harsh industrial conditions. It was this requirement that helped earn R&M a spot in the bidding process. The project in the first factory involved the

FACTS AND FIGURES

- 24 core SMF outdoor FO cable – 2000 m
- SC pigtails SM – 108
- 19" 1U Unirack 12 x SC duplex unloaded – 2
- 6 core MMF indoor/outdoor FO cable – 23360 m
- 3U global patch panel – 31
- Installation cable CAT 5e F/UTP, 4P, 200 MHz, LSZH – 26840 m
- SM connections
Splash line IP54 – 488
- Splash cap IP 54 – 608
- Cable gland IP67 M20 – 608
- CAT 5e information outlet shielded – 1181
- Splash sleeve transparent – 728

WHY R&M?

- Assisted the client in design of the network – played a critical role in building confidence with the client
- Invested time to understand client requirements
- Quality and modularity of product design on the global panels
- IP rating products – R&M industrial grade products and solutions

Toyota Innova



090.5696

implementation of an entire network infrastructure and backbone with R&M's industrial grade structured cabling products. The R&M solutions for IP categories 54 to 67 (as per IEC 60529) and MICE environmental classes 2 and 3 (as per ISO/IEC 24702) ensure security in the case of critical environmental influences. Hence, the network connection is fully protected against water vapor, hot water, salt water, splash water, oil, any type of dust, and general air pollution.

The entire project is in line with the relevant industry standards to be able to withstand industrial conditions. The challenge during the installation process was that it had to be undertaken in a fully operating factory (which meant moving machine parts). In spite of such circumstances, R&M along with project partners was able to deliver a solution that ensured best practices. In addition to delivering quality products and in-

stallations, R&M was also able to win the customer's confidence by providing complete network design. During the process R&M also ensured extended support in delivery and regular site visits.

R&M along with project partners was able to deliver a solution that ensured best practices.

Vidya Prakash, DGM, Information Systems Division, Toyota Kirloskar Motor, said, "We appreciate the commitment of R&M in providing excellent innovative

solutions, quality, delivery, and support meeting our expectations and requirements."

Shajan George, Technical Director India, RO-IND, R&M India said, "This project is an example of the persistency shown by R&M in the face of such a challenge. The entire R&M team worked closely with the clients not only in delivering innovative products but also in developing practical design solutions."

R&M, through its exemplary efforts in the first project, has also bagged the order for the second factory, where the link redundancy is being taken care of at each node level. ■



010.2264

IP54 SM outlet, splash-proof



090.5787

George Shajan | R&M India
george.shajan@rdm.com