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Formula One, also known as Formula 1 or F1 is the highest class of single-seater auto racing, sanctioned by the Fédération Internationale de l'Automobile (FIA). The F1 season consists of a series of races, known as Grands Prix, held on purpose-built circuits. The results of each race are combined to determine two annual World Championships, one for the drivers and one for the constructors. Till 2010, races have held have been held at 68 circuits in 29 countries.

Formula 1 and India

The 69th F1 circuit in the 30th country is being built in India. The races would be held at the Buddh International Circuit in Greater Noida, 50 km from Delhi.

The circuit length is approximately 5.14 kilometres (3.19 miles) and the track is spread in an area of 875 acres.

The track in all has 16 largely medium speed corners where F1

cars will lap at an average speed of 210 kph. The back straight will let F1 cars reach 320 kmph making it one of the fastest tracks in the world. The expected F1 car lap time is 1 minute 17 seconds. With 60 laps in each race, the total race length is 308.4 km The initial seating capacity is speculated to be around 150,000. However there are plans to increase the seating capacity to 200,000 later on. A grand stand with a capacity of 13,000 will overlook the turn 10 and turn 11 giving the F1 fans an opportunity to be a part of the action.

Communication needs of the Formula 1 track in India

While designing the track and its associated infrastructure, it was a pre-requisite that the communication system provided for signal integrity as the system would be used for critical functions such as signaling, barrier actuation, close-circuit television, etc. While designing the track and its associated infrastructure, it was a pre-requisite These cables would be installed

within the stadium control center, spectator stands, on the racetrack and in the pit stops, in a variety of deployments such as direct burial in trenches, in ducts, on cable trays. Further, the cables had to sustain the annual climatic conditions in Noida.

Additionally, the cables had to be designed to minimize the hazards on human health and safety in the event of a fire.

Sterlite's solution

Sterlite manufactured and supplied a diverse range of fiber optic cables that enabled installation flexibility, whilst maintaining high health & environment standards and communication signal integrity.

The Sterlite fiber optic cables used for indoor deployment were designed with LSZH (Low smoke zero halogen) as outer jacketing.

LSZH is a material that is composed of thermoplastic or thermoset compounds that emit limited smoke and does not produce a dangerous gas/acid combination or toxic smoke when exposed to flame.

Conclusion

The Indian edition of the Formula 1 race was held at the 'Buddh International Circuit', which is the 69th circuit in a select league of 30F1 host countries. The first event took place on October 30, 2011, and this was the 17th race of the 2011 Formula 1 season. Sterlite is proud to be closely associated with India's first F1 races.

The Sterlite Advantage

Global experience Sterlite has a significant experience in implementation of projects for Government incumbents, utilities and enterprises. End-to-end project implementation Sterlite ensures



complete control over the value chain and delivers end-to-end project management services. Qualified and experience talent pool Sterlite has a qualified talent pool, experienced in network design, project management, network implementation and network maintenance.

Credible partners

Sterlite has partnered with reputed project management companies and Original Equipment Manufacturers (OEMs), to ensure that the delivery of the project is streamlined.

Solution development for newer applications

Sterlite continues to enhance its portfolio taking into account the bandwidth needs evolving from client applications.

Local Support

With offices in 10 countries, Sterlite always has a relationship manager who is a mere phone call away, to understand your growth aspirations and to explore areas where it add value to your business.

About Sterlite Technologies

Sterlite Technologies is a leading global provider of transmission solutions for the power and telecom industries. Equipped with a product portfolio that includes power conductors, optical fibers, telecommunication cables and a comprehensive telecom systems / solutions portfolio, Sterlite's vision is to 'Connect every home on the planet'. Sterlite is also executing multi-million dollar power transmission system projects, pan-India.

