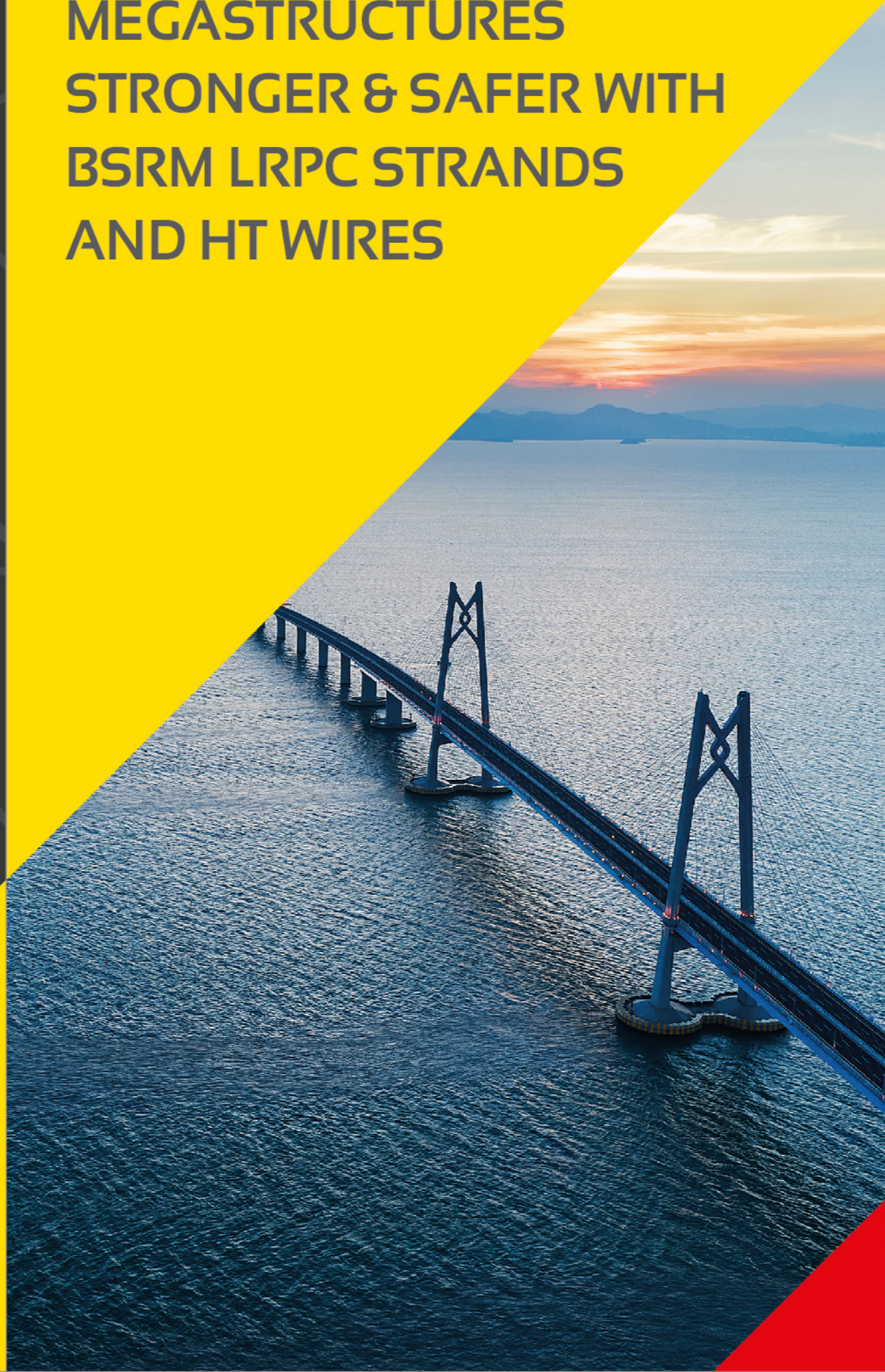




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BUILD MEGASTRUCTURES STRONGER & SAFER WITH BSRM LRPC STRANDS AND HT WIRES



Low Relaxation Pre-stressed Concrete Steel Strands and HT Wires conform to Global Standards like ASTM A 416 M, JIS G 3536, BS 5896, IS 14268, GB/T 5223 etc. and can be made to meet any other required specification.

LRPC Strands are utilized in construction of pre-stressed concrete girders for roads, rivers and railway bridges, flyovers, slabs, domes, silos and hangers. LRPC Wires are used in high-rise buildings, railway sleepers, PC poles for power transmission & distribution, PC piles for massive foundation works, etc.



LRPC Stranded Wire



LRPC HT Wire

Low Relaxation

Pre-stressed concrete steel wires (Single and Stranded) lose applied stress with the passage of time when forcibly embedded in concrete. Stress Relaxation symbolizes the descent of stress and is significantly linked to the design of pre-stressed concrete structures. Low Relaxation Wires & Strands have the capacity of limiting loss of Relaxation to only 2.5%, after being in stressed conditions for 1000 hours at a temperature of 20°C, provided the initial loading is at 70% of the specified minimum breaking strength. This advantage is far superior than Normal Relaxation wires.

Low Relaxation vs Normal Relaxation

- Reduction in stress loss at ambient & rising temperatures.
- Balanced stress-strain ratio.
- Tendons charged with more effective force generation from lowered loss of relaxation.
- Minimization in the size of structure which saves concrete and has a lighter output.
- Lower relaxation ensures a commendable diminution in the quantity of steels used, undoubtedly saving steel in the process.



Products

- HT Wires sizes : 6, 7, 8 and 9mm
- LRPC Strands sizes : 9.53, 12.7 and 15.2 mm (7 ply)
- 3 Wire Strand : 3-ply 3 mm (Coming Soon)

State of the Art Testing Facilities

- Physical Testing Lab (Ensuring accurate diameter, lay length, lauging and surface finish)
- Proper Chemical Testing Facilities
- Metallurgical Testing Facilities (Microstructure and material composition checking)
- Tensile Testing m/cs (Tensile and breaking strength checking)
- Low Relaxation Testing Facilities (Relaxation testing)
- Bend Testing m/c (Bendability testing)
- Torsion Testing m/c

Specifications of Combined LRPC WIRE & Strand Line

LRPC Strand : 9.53, 12.70 and 15.2 mm (7 ply)

HT Wire dia : 6, 7, 8 and 9mm

BSRM Wires uses the latest State of the Art technology, maintaining global standards in manufacturing for LRPC wires, introduced for the first time in Bangladesh.

- Anti-rust oil coating
- Descaling, electro pickling, phosphating & lime coating of wire rods
- Controlled heating & cooling with tensioning of wire rods



LRPC Single Coil



LRPC Strand Coil

Packing

LRPC strands will be delivered in the form of cheese coils from 1.5 MT to 3.5 MT as specified by customer. HT Wires will be delivered in the form of cheese coils from 1 MT to 2.5 Mt as specified by customer. The starting end will be clearly identifiable in the coil.

- Strapping in radial direction
- Water proof covering
- Head identification marking