



### Customer

BHEL EDN Bangalore  
(www.bhel.com)

### Country

India

### Date of delivery

February 2010 (accompanying framework agreement for 10 years)

### Summary

- Design and delivery of electrical systems
- Supply of 5 drive systems
- Supply of 3 on-board electricity systems
- Supply of 3 vehicle control units (VCUs)
- Technology transfer to BHEL

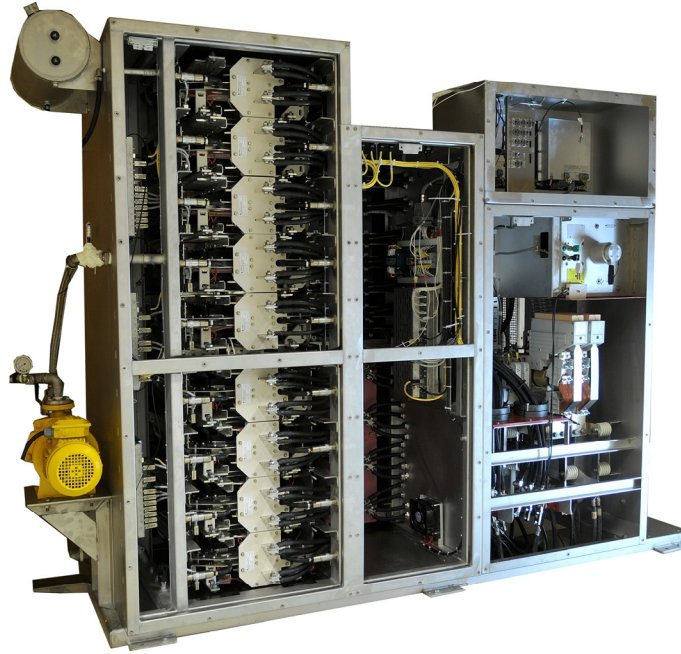
## Electrical systems Locs India

Strukton Rolling Stock is designing and supplying electrical systems for 115 6000 HP locomotives for Indian Railways. The principal is Bharat Heavy Electricals Ltd. (BHEL) in Bangalore.

The assignment consists of designing the drive system, on-board electricity supply system and VCU for the 6000HP locomotive. Additionally, for the first of a series of assignments within the scope of the framework agreement, Strukton Rolling Stock will be supplying five drive systems, three on-board electricity supply systems and three vehicle control units (VCUs).

In addition to designing and delivering electrical systems, technology transfer is an integral part of the contract. Strukton Rolling Stock will design the systems in cooperation with engineers from BHEL, subsequently delivering at least 115 systems to BHEL in various stages of completion. The framework agreement has a term of 10 years.





### Assignment scope

The first assignment involves supplying five drive systems, three on-board electricity supply systems and three VCUs. The overall delivery consists of 115 sets comprising:

#### On-board electricity supply system & traction (one set consists of 2x TRC cabinets and 2x AUX cabinets)

- 10 complete built-up (CBU) sets
- 30 semi knocked down (SKD) sets
- 75 complete knocked down (CKD) sets

#### VCU (one set consists of 2x VCU units)

- 10 complete built-up (CBU) sets
- 15 semi knocked down (SKD) sets
- 75 complete knocked down (CKD) sets

### Further details

Bharat Heavy Electricals Ltd. was looking for a supplier that was willing to transfer knowledge related to the commissioned products as well. As such, the company hoped to increase its own knowledge of the products sufficiently to be able to maintain the equipment throughout its lifecycle. The intended cooperation between BHEL and Strukton was established and signed in the form of a Business Sharing Agreement. The agreement established all the details and structure of the order and assignment to supply a total of 115 sets for the 6000 HP locomotive.

Part of the agreement involves several BHEL employees participating actively in the design, start-up and test phases. Employees from BHEL and officials representing the body responsible for approval within Indian Railways (RDSO) will also be present when testing the different types of modules and systems.

### For further information, please contact:

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