



PROJECT SHEET NO. 4

Construction of the 5* hotel in Chad

4

Supply and installation of heavy-current
and low-current structural power lines.

230,000

The main lines in the individual buildings are placed in cable trays, which – considering that the structure is located in Central Africa – comply with the requirements of a tropical climate. 230,000 m of cables were used for heavy-current power lines within this structure.



Through coordinated cooperation between the technical department and logistics in Slovakia and the local team in Chad, we were able to ensure the supply and installation of equipment in compliance with French standards while meeting an ambitious deadline.

We can supply and install electrical installations both at home and in any African region.

5* hotel, N'Djamena

The necessity of infrastructure development on the African continent made it possible for BK group to expand to this market in 2010 and contribute to the development of the country of Chad, located in Central Africa. From 2013 - 2015, BK group participated in the construction of the 5* hotel in the capital N'Djamena through the supply and installation of electrical installations. The complex consists of five functional facilities – a hotel, kitchen, conference centre, negotiation centre, and energy centre with a total surface of 38,230 m². The seven-storey hotel building houses 175 rooms, including suites, two restaurants, bars, and offices. The three-storey conference centre building consists of several small rooms and one large negotiation room named the 'Hemicycle,' dominating the building with its round floor plan.

Scope of cooperation

All specialised activities within this project were carried out in cooperation with the Belgian CFE group. Our task was to supply and install heavy-current power lines, install low-current power lines, grounding, and lightning protection of the structure. The overall performance of the installed structure is 3.2 MVA, ensured by two high-voltage transformers with a performance of 1,600 kVA. To ensure continuous power supply to the structure, we used 3 standby diesel generators with a performance of 800 kVA each. This equipment is located in the energy centre building and is connected to the individual facilities of the complex.

3.2

The overall performance of the installed structure is 3.2 MVA, ensured by two high-voltage transformers with a performance of 1,600 kVA.

800

To ensure continuous power supply to the structure, we used 3 standby diesel generators with a performance of 800 kVA each.

Project challenges

1
2
3

Tropical climate Based on the fact that the structure is located in a Central African country, it was our task to supply equipment complying with the requirements regarding operational capability in a tropical climate with high temperatures, high dust formation, and significant air humidity.

Quality The design stage and the subsequent implementation stage on the part of BK group complied with French technical standards, which required a careful selection of suppliers and material.

Human factor Local conditions required a high level of resilience on the part of our employees, who demonstrated their professionalism and skill through their work in a foreign-language environment – both in contact with the Client, as well as in the management of our local subcontractors.

Management of the logistics of material supply on the African market is a challenge for us.

A major challenge in the course of the construction was the planning and management of the logistics of material supply, as the supply possibilities in this region are very restricted and the delivery times incomparably longer than in Europe. Our specialist logistics team worked continuously to ensure a constant supply of material, in order to maintain the continuity of work and to prevent delays in its execution. The situation was even more challenging due to the low level of market development in Chad, which often makes it impossible to purchase the necessary basic materials and tools.

Within the 5* hotel project located in the capital of Chad, N'Djamena, we ensured the transport and supply of material amounting to 125,635 kg to the construction site over a period of 18 months.

Material transport was carried out in several ways in cooperation with the Client and various carriers: road, rail, maritime, and air. Important European logistics junctions for the 5* hotel project included several airports (Milan, Brussels, Liège), ports (Antwerp, Le Havre), and the central warehouse in Piešťany. Material transported in containers via a maritime route from Europe was reloaded onto trucks after delivery to the port in Douala, Cameroon, and then transported via road or rail to N'Djamena, Chad.



The saying 'measure twice, cut once' applies strongly to Chad. Any failure in planning with regard to the design and implementation process will backfire in the form of lost time and expensive transport costs.

7,021

Our services can be provided regardless of the distance from our headquarters, as was the case with the capital of Chad, N'Djamena, located 7,021 km from Piešťany.

38,230

The total surface of the 5* hotel, consisting of five functional facilities, is 38,230 m².

125,635

Our logistics department supplied 125,635 kg of material for electrical installations via road, maritime, and air transport from Europe to Africa.

Coordination of the material needs of the project.

The logistics team of BK group, in collaboration with the technical department, coordinated the material needs of the project beginning with the order, its processing, and preparing for export to the final delivery to the end user (timely delivery and transport of material within the required deadlines to places of export from the EU). The material had to be accompanied by the necessary export documentation (invoices, Bureau Veritas inspections, customs).

Last but not least, it was necessary to ensure the flow and exchange of information between the logistics department of BK group and the Client's implementation team to ensure flexible supplies while minimising the risks resulting from the current transport conditions and the political situation in the country of delivery.



About BK group

Based on years of experience, BK group brings its clients comprehensive and efficient solutions and savings in the field of building technology in compliance with EU and global standards. During its 20+ years of existence, the group has provided its services both in Slovakia and in foreign markets, primarily in Romania, Russia, Algeria, and Chad. BK group's customers include local and multinational companies operating in the residential and administrative, commercial, public, and industrial sectors.

We are building insiders. Our individual client approach, personal involvement, and pro-client thinking, along with an expertise in all areas of our specialisation, enable us to assume full responsibility and liability for our clients. This results in the provision of professional services and long-term, honest relationships with our clients. Thanks to our experience, accountability, and flexibility, we enable our customers to develop their core businesses at a faster pace.

Related documents can also be found at www.bkgroup.info

Building Insiders



Dopravná 19, 921 01 Piešťany, Slovak Republic
T +421 33 79 88 888 F +421 33 79 88 777 E bk@bkgroup.info
www.bkgroup.info