

project name	Khartoum New International Airport (KNIA)		
	Sanitation design		
owner	Project Implementation Unit for KNIA, Khartoum (Sudan)		
prime consultant	Dorsch Consult Airports, Munich (Germany)		
location	Khartoum (Sudan)		
project duration	begin	october 2003	
	end	december 2006	

The airport of Khartoum is located close to city center and a permanent peril. Possibilities for airport extension do not exist due to the rapid growing city.

The Presidency and its Project Implementation Unit for KNIA plan a new Greenfield airport, for 6.5 million passengers per year, some 40 km south of Khartoum.

responsibilities

sanitation relevant contribution to airport site selection

master planning, design, specification writing for sanitation infrastructure:

- water service: potable water transmission line 15 km/DN300/40 l/s (9.3 miles/12 in/634 gpm), ground water line 10 km/DN200 (6.2 miles/8 in), reservoirs for potable and firefighting water 2,000 m³ (70,600 ft³), distribution networks, irrigation system
- sewer system: sewer network, sanitary and storm water sewer pumping stations, pressure mains, anaerobic, facultative ponds system for sewage treatment and reuse for irrigation.
- solid waste: collection, segregation, anaerobic digestion and biogas system

Turn key tender preparation and bid evaluation acc. to FIDIC "silver book"

Construction tender preparation acc. to FIDIC "red book" for ground water transmission lines and wells

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photographs



well head (t l, t c) well zone (t r), isolation valve chamber exterior (c l),



isolation valve chamber interior (c c), pipeline marker post (c r), line vent (d l), fire hydrants (d r)



pipeline marker post (c r), line vent (d l), fire hydrants (d r)

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White Nile at potable water transmission line White Nile crossing(d), ground water line PVC DN200 (8") (t)

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