

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



**SUDAN UNIVERSITY
OF SCIENCE & TECHNOLOGY**



College of Graduate Studies

Problems of voltage rise in new Commissioned
High voltage 220kv singa- kassala
Transmission line

مشكلات ارتفاع الجهد الرابط بالخط الجديد 220kv
بين سنجة وكسلا

A thesis submitted in partial fulfillment for the
Requirements of the Degree of M.Sc in Electrical
Engineering (power)

Prepared by:

Bdar Eldin Ali Adam Alnor

Supervised by :

Associate prof. Khamis Arbeesh Sadeldeen

February 2013