

done

**ENVIRONMENTAL
IMPACT ASSESSMENT (EIA)**

**IN THE NORTHERN &
SOUTHERN PARTS OF
PORT SUDAN
MAIN HARBOUR**

Conducted by

INSTITUTE OF MARINE RESEARCH

IN Collaboration With

**FACULTY OF MARINE
SCIENCES & FISHERIES**

RED SEA UNIVERSITY

A STUDY SUBMITTED TO

**SEA PORT CORPORATION
PORT SUDAN**

NOVEMBER - 2006

CONTENTS

INTRODUCTION	1
- Purpose of study	2
MATERIALS & METHODS	3
- Description of study sites	3
- Execution plan	4
- Physical variables	4
- Chemical properties	4
- Biological properties	5
- Geological properties	5
RESULTS & OBSERVATIONS	6
- Physical water properties	6
- Air/ water temperature (C°)	6
- Transparency (m)	6
- Hydrogen – ion concentration (pH)	6
- Salinity (S‰)	7
- Chemical variables	8
- Dissolved Oxygen (DO ₂)	8
- Nutrients	8
▪ Phosphate – Phosphorus (PO ₄ – P)	8
▪ Nitrate – Nitrogen (NO ₃ – N)	8
▪ Nitrite – Nitrogen (NO ₂ – N)	9
▪ Silicate – Silicon (SiO ₃ – Si)	9
▪ Biocarbonate & carbonate ions	9
- Geological studies	10
- Bottom sediments	10

