

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

NORTH SINAI DEVELOPMENT ORGANIZATION  
MINISTRY OF WATER RESOURCES AND IRRIGATION  
THE ARAB REPUBLIC OF EGYPT

THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT  
(PHASE III)

( DETAILED DESIGN STUDY )

VOLUME II : TENDER DOCUMENT OF PACKAGE 1  
( KM 86.500 TO KM 108.466 )

( VOL. II-1 : INVITATION FOR TENDER, CONDITIONS OF CONTRACT,  
TECHNICAL SPECIFICATIONS AND BILL OF QUANTITIES )

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SANYU CONSULTANTS INC.  
PACIFIC CONSULTANTS INTERNATIONAL

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**ARAB REPUBLIC OF EGYPT**

**MINISTRY OF WATER RESOURCES AND IRRIGATION  
MECHANICAL AND ELECTRICAL DEPARTMENT  
ON BEHALF OF  
NORTH SINAI DEVELOPMENT ORGANIZATION**

**NORTH SINAI DEVELOPMENT PROJECT**

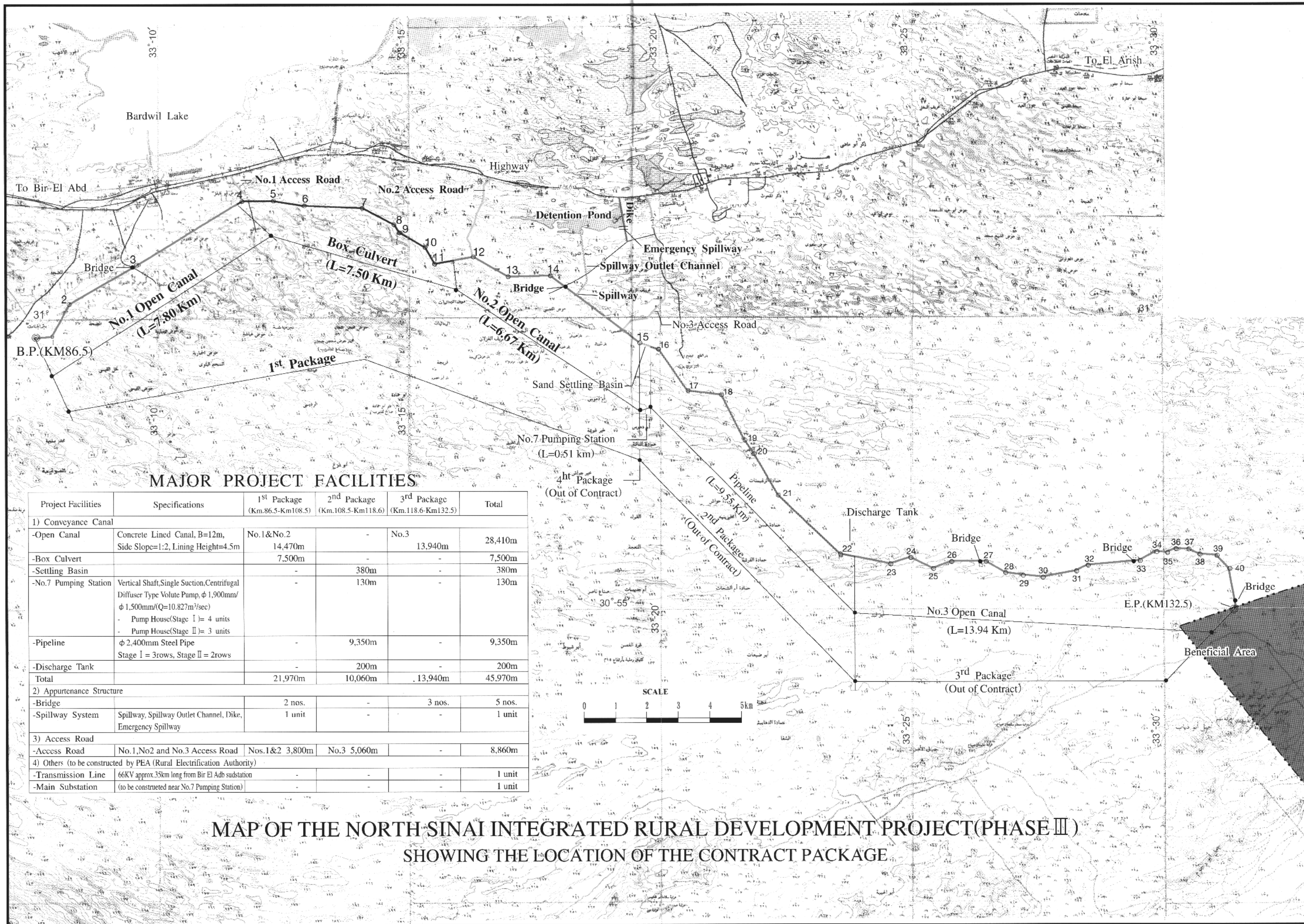
**CONVEYANCE SYSTEM OF  
EL SHEIKH GABER EL SABBAAH CANAL  
BETWEEN KM 86.500 AND KM 108.466**

**TENDER DOCUMENTS**

**VOLUME I (1)**

**MODEL NO. 2333B <COMMITTEE>  
TENDERING CONDITIONS  
INSTRUCTIONS TO TENDERERS  
GENERAL CONDITIONS  
SPECIFICATIONS & TECHNICAL CONDITIONS**

**(month) 200x**



**MAJOR PROJECT FACILITIES**

Project Facilities	Specifications	1 <sup>st</sup> Package (Km.86.5-Km108.5)	2 <sup>nd</sup> Package (Km.108.5-Km118.6)	3 <sup>rd</sup> Package (Km.118.6-Km132.5)	Total
<b>1) Conveyance Canal</b>					
-Open Canal	Concrete Lined Canal, B=12m, Side Slope=1:2, Lining Height=4.5m	No.1&No.2 14,470m	-	No.3 13,940m	28,410m
-Box Culvert		7,500m	-	-	7,500m
-Settling Basin		-	380m	-	380m
-No.7 Pumping Station	Vertical Shaft, Single Suction, Centrifugal Diffuser Type Volute Pump, $\phi$ 1,900mm/ $\phi$ 1,500mm (Q=10.827m <sup>3</sup> /sec) - Pump House (Stage I) = 4 units - Pump House (Stage II) = 3 units	-	130m	-	130m
-Pipeline	$\phi$ 2,400mm Steel Pipe Stage I = 3 rows, Stage II = 2 rows	-	9,350m	-	9,350m
-Discharge Tank		-	200m	-	200m
<b>Total</b>		<b>21,970m</b>	<b>10,060m</b>	<b>13,940m</b>	<b>45,970m</b>
<b>2) Appurtenance Structure</b>					
-Bridge		2 nos.	-	3 nos.	5 nos.
-Spillway System	Spillway, Spillway Outlet Channel, Dike, Emergency Spillway	1 unit	-	-	1 unit
<b>3) Access Road</b>					
-Access Road	No.1, No.2 and No.3 Access Road	Nos.1&2 3,800m	No.3 5,060m	-	8,860m
<b>4) Others (to be constructed by PEA (Rural Electrification Authority))</b>					
-Transmission Line	66KV approx. 35km long from Bir El Adb substation	-	-	-	1 unit
-Main Substation	(to be constructed near No.7 Pumping Station)	-	-	-	1 unit

**MAP OF THE NORTH SINAI INTEGRATED RURAL DEVELOPMENT PROJECT (PHASE III)  
SHOWING THE LOCATION OF THE CONTRACT PACKAGE**

# **Conveyance System of El Sheikh Gaber El Sabbah Canal between Km 86.500 and Km 108.466**

## **Contents**

### **Volume I (1) Model No. 2333B <Committee>**

Part One :Tendering Conditions and Instructions to Tenderers

Part Two :General Conditions

Part Three :Specifications of Works and Technical Conditions

Chapter 1 General

Chapter 2 Part (A) Specifications for Works Shown in the Contract Drawings

Part (B) Specifications for Different Works Parts - Foundation Works

Chapter 3 Materials Specifications

### **Volume I (2) Model No. 2333B <Committee>**

Article 69: Details and General Conditions

### **Volume I (3) Particular Conditions of Contract**

### **Volume II Bill of Quantities**

Summary and Total

OC-0100 No.4 and No.2 Open Canals

BC-0200 Box Culvert Conduit

SW-0300 Spillway System

AR-0400 No.1 and No.2 Access Roads

MW-0500 Mechanical Works

### **Volume III Tender Drawings**