

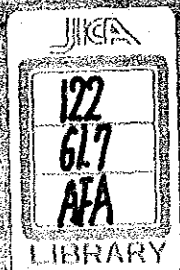
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**ROYAL IRRIGATION DEPARTMENT
MINISTRY OF AGRICULTURE AND COOPERATIVES
KINGDOM OF THAILAND**

THE BANG PAKONG DIVERSION DAM PROJECT

PREQUALIFICATION DOCUMENTS

FEBRUARY 1993



Prepared by:

**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SNAYU CONSULTANTS INC.**

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**ROYAL IRRIGATION DEPARTMENT
MINISTRY OF AGRICULTURE AND COOPERATIVES
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1. NOTICE OF PREQUALIFICATION TO APPLICANTS

- 1) The Royal Irrigation Department (hereinafter called "the Department") of the Ministry of Agriculture and Cooperatives of the Government of the Kingdom of Thailand, intends to invite reputable international contractors who have extensive experience in the construction of dams and supply of equipment to bid for the Bang Pakong Diversion Dam Project (hereinafter called "the Project") in the province of Chachoengsao.
- 2) It is expected that the contract for the Project will be signed sometime in 1994 and that the Project will be completed in _____ months.
- 3) Applicants should submit Prequalification Documents including filled-in Prequalification Forms and supplementary papers and brochures to the Department.
- 4) All communications and queries relating to the above shall be addressed to:

International Procurement Section
Procurement and Property Division
The Royal Irrigation Department
Samsen Road, Bangkok 10300
Thailand

2. INSTRUCTIONS TO THE APPLICANTS

A. SUBMISSION OF APPLICATION

- A.1. Prequalification Documents including filled-in Prequalification Forms and supplementary papers and/or brochures shall be submitted in ten (10) copies (one original and nine duplicates) in sealed envelopes, on or before _____ (hour) , _____ (date) _____, 1993 (Bangkok time), by hand or by registered mail addressed to:

International Procurement Section
Procurement and Property Division
The Royal Irrigation Department
Samsen Road, Bangkok 10300,
The Kingdom of Thailand

The envelopes must be clearly marked on the outside with the following wordings, "Prequalification Documents for the Bang Pakong Diversion Dam Project from _____"
(Name of Applicant and Address).

- A.2. All information in the Prequalification Documents shall be provided in English. If any information is given in any other language, it shall be accompanied by an English translation. Failure to comply with this requirement may result in the disqualification of the applicant.
- A.3. Any erasures and other alterations shall be initialed by the person signing the Prequalification Documents.
- A.4. All registered partnerships, corporations, or other juristic persons who have experience in the construction of diversion dams and supply of equipment for similar projects in Thailand, and have an office, branch or agent in Thailand, may apply for prequalification, either as an individual or in a joint-venture. In the case of a joint-venture, the name of the lead party, the scope of work for each member with joint and several responsibility, and the maintenance of the joint-venture through the period of the contract shall be clarified.

- A.5. Prequalification Documents shall show the competence of the applicants stating, among other things, details of their experience and past performance on similar projects, capabilities of their personnel, equipment, plant facilities and financial position.
- A.6. Full answers shall be given to all questions in the Prequalification Forms. If necessary, additional sheets shall be attached.
- A.7. The signing of the Prequalification Documents shall be deemed to guarantee the truth and accuracy of all statements and answers given by the applicants.
- A.8. A prospective contractor shall have extensive experience either in the construction of diversion dams and in the supply of equipment. The applicant will not be considered prequalified by the Department, unless he possesses a good reputation, ability, experience, capable personnel, sufficient equipment for the Project and net current assets and working capital regarded as adequate by the Department to satisfactorily execute the Project. The contract shall be awarded to the contractor who is able to meet all his obligations.
- A.9. The Department shall inform all applicants, whether or not they are selected to bid for the Project.
- A.10. Prequalified applicants will be invited to purchase the bid documents from the Department.
- A.11. Prequalification Documents submitted by the applicants will be treated as confidential but will not be returned to the applicants.
- A.12. Qualified applicants will be required to submit their bid based on the design and specifications contained in the bid documents.
- A.13. The Bid and contract will be interpreted in accordance with the laws and customary practice of the Kingdom of Thailand. The language of the contract shall be in English and the contractor's senior supervisory staff for the Project shall fluently speak, read and write the English language.

A.14. The particulars of the Project given herein are provisional and must be considered only as advance information to assist the prospective applicants in deciding whether or not to apply for prequalification. Notice of prequalification shall not form part of the contract which may be subsequently entered into by the Department.

B. EVALUATION OF PREQUALIFICATION DOCUMENTS

B.1. The Prequalification Documents submitted by the applicants will be used by the Department in determining, according to the sole judgment and discretion of the Department, the competence of prospective contractors. As such, an applicant waives any claim against the Department with respect to the decision of the Department regarding his qualification.

B.2. It shall be understood that if discrepancies are found in the Prequalification Documents submitted, the application will be considered unsatisfactory, and the applicant will be held ineligible to bid until he explains the discrepancies to the satisfaction of the Department. The Department will not communicate with the applicants with regard to the prequalification except when seeking clarification.

B.3. The Department shall have the right to accept or reject the application for the qualification of applicants based on the documents submitted by the applicants. The decision of the Department is considered final.

B.4. With respect to technical information and financial information, the applicant shall inform the Department of the name, position, and address of a person/s who may be contacted for further information.

3. OUTLINE OF THE PROJECT

(1) Name of the Project

The Bang Pakong Diversion Dam Project.

(2) Employer

The Royal Irrigation Department

(3) Consultant

(4) Project Site

Bang Pakong District, Province of Chachoengsao

(5) Features of the Project Facilities

1. Bang Pakong Diversion Dam

Design Flood	:	1,600 m ³ /sec
Length of Diversion Dam	:	166 m
Tide Protection Gates		
- Regulating Gate	:	Double Leaf Wheel Type Gate, 30 m span x 2 sets, Height of Upper Gate, 3.1 m Height of Lower Gate, 6.9 m
- Flood Gate	:	Single Leaf Wheel Type Gate, 30 m span x 3 sets, Height of Gate 10 m
Pier	:	Height 26.5m, Length 19.0 m, Thickness 4 m
O/M Bridge	:	Width 5 m, Prestressed Concrete Box Girder Bridge span length 33.15 m x 5 spans
Foundation Works	:	P.C. Pile Foundation
Concrete Volume	:	approx. 38,000 m ³

2. Diversion Canal

Bottom Width	:	80 m
Slope of Bank	:	1:7.5
Excavation Depth	:	approx. 11 m

- Length of Canal : approx. 2.2 km (including the section of the Bang Pakong diversion dam)
- Excavation Volume : approx. 3,500,000 m³ (including an excavation for Bang Pakong diversion dam)
3. Closure Dam
- Crest Length : approx. 250 m
- Dam Height : 15.9 m (not including height of camber)
- : 12.0 m
- Width of Dam Crest : 1:5.0
- Slope of Embankment : approx. 310,000 m³ (rock material 60,000 m³, coarse-grained soil material 250,000 m³)
- Embankment Volume
4. Road
- Road Width : Total Width 9 m, Width of Asphalt Pavement 6 m
- Road Length : approx. 2.6 km
5. Road Bridge
- Bridge Class : First Class
- Width of Bridge : 9.0 m
- Type of Bridge : Prestressed Concrete Box Girder Bridge
- Length of Bridge : span length 30.6 m x 8 spans
6. Pumping Station
- Pump Discharge : 16 m³/sec (960 m³/min)
- Actual Pump Head : 5.4 m
- Pump : Vertical Shaft Type Mixed Flow Pump, o 1,350 mm x 4 units
- Prime Mover : Electric Motor 350 kw x 3 units
Diesel Engine 500 PS x 1 unit
- Pump House : R.C made, Total Floor Area approx. 500 m²
- Concrete Volume : approx. 3,000 m³
7. Control System & Electrical Facilities
- Control System : Remote Control System for Tide Protection Gates & Pumps, ITV Monitoring System, Two River Water Level Gauging Stations, etc.
- Electrical Facilities : Incoming Electrical Works, Substations, Distribution Lines, etc.
8. O/M Building : Area of Building Lot approx. 60 ha, Control House, Training

Center Building, Residential
Houses, etc.

(6) Construction Period

() months

(7) Warranty Period

Twelve (12) months after the Certificate of Completion is
issued.

4. DOCUMENTS TO BE SUBMITTED

4.1. Prequalification Documents consist of the following Forms. The applicants shall fill-in all these Forms and submit the same along with the supplementary papers and brochures, if any.

- (1) Application Letter (Form-A)
- (2) Identification of Applicant (Form-B)
- (3) Financial Statements of the Applicant for the last five (5) years (Form-C)
- (4) Joint-Venture (Form-D)
- (5) Personnel-1 (Form-E)
- (6) Personnel-2 (Form-F)
- (7) List of Construction Equipment (Form-G)
- (8) Proposed Subcontractors (Form-H)
- Identification of Subcontractor (Form-I)
- (9) Experience-1: Table of Yearly Contract Amounts/No. of the Applicant for the last five (5) years (Form-J)
- (10) Experience-2: Diversion Dam Projects Completed in the last ten (10) years (Form-K)
- (11) Experience-3: List of Equipment supplied in the last ten (10) years (Form-L)
- (12) Experience-4: Diversion Dam Projects in progress (Form-M)
- (13) Experience-5: Description of Gates, Pumps and Control Systems supplied in the last ten (10) years (Form-N)
- (14) Additional Information (Form-O)

4.2. Detailed financial statements for the last three (3) years certified by registered auditors shall be attached to Form B "Financial Statement in the last five (5) years". The percentage of equity of an individual organization or a joint-venture which is held by institutions or individuals outside the country in which they are registered shall also be given in this financial statement.

4.3. A list of partners in the joint-venture proposed for the Project shall be attached to Form D "Joint-Venture". All partners in a

joint-venture shall properly fill-in Forms-B, C, E, F, G, J, K, M, and O, except where not applicable.

- 4.4. A detailed description of five (5) key personnel for the construction work who could be assigned to this Project (engineers and supervisory staff for construction) shall be given in Form F "Personnel-2".
- 4.5. A detailed list of construction equipment which an applicant would provide for the Project shall be given in Form G "List of Construction Equipment". Indication of "to be purchased" or "to be hired" of the required equipment shall be listed below those "owned" by the applicant. The remarks "to be purchased" or "to be hired" shall be entered in the "Remarks" column.
- 4.6. A list of manufacturers together with a list of proposed supervisors for the installation for the Project shall be attached to Form H "Proposed Subcontractors". Taking into consideration the importance of the performance and durability of the equipment to be used in the Project, the applicant should carefully consider selection of possible manufacturers, and preparation of data for the equipment. If the manufacturers of the gates, pumps, and control systems that were proposed by the applicant do not have sufficient capacity for or extensive experience in operating these facilities, the applicant may be rejected.
- 4.7. An applicant may associate with other contractors, manufacturers and subcontractors that he proposes in Forms "D" and "H" in the subsequent bidding should he be prequalified. An applicant who has been prequalified may, at the time of the bidding, propose alternative manufacturers and subcontractors. However, such partners shall be equally or better qualified and approved by the Department.
- 4.8. Detailed project experience in diversion dam projects in the last ten (10) years shall be given in Form K "Experience-2".
- 4.9. Experience in the supply and installation of the equipment for the last ten (10) years shall be listed in Form L "Experience-3". "Equipment" is applied to gates, pumps and control systems. "Equipment" to be listed in Form L "Experience-3" and Form N "Experience-5" is applied to the gates, pumps and control systems as described in item (5) of "3. Outline of the Project."

- 4.10. A list of current contracts of diversion dam projects shall be given in Form M "Experience-4".
- 4.11. Details shall be given in Form-N "Experience-5" of ten (10) major projects/experiences, if any, during the last ten (10) years for which gates, pumps and control systems, as defined in item (5) of "3. Outline of the Project," were supplied. Whether they were supplied by the partner/s or subcontractor/s, shall be specified, making their present situations and reference sources clear.

5. PREQUALIFICATION FORMS

(1) APPLICATION LETTER FORM FOR PREQUALIFICATION

Date _____

Ref. No. _____

Director General
The Royal Irrigation Department
Sansen Road, Bangkok 10300
Thailand

Subject: Prequalification Documents for The Bang Pakong Diversion
Dam Project (xx.....)

Dear Sir:

We, the undersigned applicant, having examined the Prequalification Form Documents consisting of Notice of Prequalification to Applicants, Instructions to Applicants, and Outline of Project for the above-mentioned Project, hereby submit, for your evaluation, our Prequalification Documents including the Forms supplied, duly accomplished, as well as other relevant papers. These documents contain full and detailed information of our capabilities.

All information and data submitted herein is true and correct, and we are ready to respond to your queries or give further information relating to our application documents through the following person and address.

For technical information For financial information

(Name of the person to be contacted) _____

(Position) _____

(Address) _____

(Tel. Tlx No., etc.) _____

We are aware of the right of the RID to accept or reject our application for the prequalification and will thus adhere to the decision of the RID.

Yours sincerely,

(2) IDENTIFICATION OF APPLICANT

Prepared on: (Date)

Certified by: (Name)

1. Name of Applicant:

2. Date of Establishment:

3. Head Office Address:

Telephone No.:

Fax No.:

4. Name & Position of Principal Officers:

5. Objective / Purpose of Establishment:

(Quote the related clause of registration to prove the category of business, and attach a full copy of English translation of company's registration.)

6. Address of Office, Branch or Name & Address of Agent in the Kingdom of Thailand, if any.

7. Permanent Employees:

- (1) Civil Engineers
- (2) Architects
- (3) Mechanical Engineers
- (4) Electrical Engineers
- (5) Administration
- (6) Others
- (7) Total

8. Brochure:

(Attach a brochure or other documents to explain capacity and experience of the applicant, if any.)

As attached hereto.

(3) FINANCIAL STATEMENTS OF THE APPLICANT IN THE LAST FIVE (5) YEARS

(Unit: Million Baht)

	FY 1987	1988	1989	1990	1991
1. Total Assets	_____	_____	_____	_____	_____
Liquid Assets	_____	_____	_____	_____	_____
Fixed Assets	_____	_____	_____	_____	_____
2. Total Liabilities	_____	_____	_____	_____	_____
Liquid Liabilities	_____	_____	_____	_____	_____
Fixed Liabilities	_____	_____	_____	_____	_____
Reserve Fund	_____	_____	_____	_____	_____
3. Paid-Up Capital	_____	_____	_____	_____	_____
4. Legal Reserve	_____	_____	_____	_____	_____
5. Surplus Fund	_____	_____	_____	_____	_____
Special Reserve	_____	_____	_____	_____	_____
Reserve brought forward	_____	_____	_____	_____	_____
Profit	_____	_____	_____	_____	_____
6. Total of items 2 to 5 above	_____	_____	_____	_____	_____

(4) JOINT VENTURE

If the applicant intends to enter into a Joint-Venture for the Project, please give the following information. If not, please indicate "not applicable."

1. Names and addresses of Joint-Venture Partners:

2. Name of Applicant leading the Joint -Venture:

3. Clarification of items required in A.4 of "Instructions to the Applicants":

(5) PERSONNEL - 1

1. Number of staff: _____ Technical: _____ Administrative: _____

2. Please list present key engineers:

Name	Present position	Years of experience with the Company / in construction

(6) PERSONNEL - 2

Key Personnel who would be assigned to the Project

Name: Present position:
Years of experience - with the Company:
- in construction:

Major works for which responsible (type and value) :

Linguistic ability relevant to project:

Name: Present position:
Years of experience - with the Company:
- in construction:

Major works for which responsible (type and value) :

Linguistic ability relevant to project:

Name: Present position:
Years of experience - with the Company:
- in construction:

Major works for which responsible (type and value) :

Linguistic ability relevant to project:

(7) LIST OF CONSTRUCTION EQUIPMENT

On the basis of the information provided in the pre-qualification documents please indicate the main construction equipment considered by the Applicant to be necessary for undertaking the project and whether this equipment is "owned", "will be purchased", or "hired" by the Applicant.

No.	Kind of Equipment	Unit	Number	Remarks

(8) PROPOSED SUBCONTRACTORS

1. If it is foreseen that any part of the Contract will be sub-contracted, please state the type of work to be undertaken by the sub-contractor(s), and if known, please give the name and address of the sub-contractor(s) and supervisors for installation, if any.

2. Fabrication facilities (to be completed only if relevant to the Project):

Summary:

Description:

Location:

Capacity:

Annual Turn-over:

IDENTIFICATION OF SUBCONTRACTOR

Prepared on: (Date)

Certified by: (Name)

1. Name of Firm:

2. Date of Establishment:

3. Head Office Address:

Telephone No.:

Fax No.:

4. Name & Position of Principal Officers:

5. Objective / Purpose of Establishment:

6. Address of Office, Branch or Name & Address of Agent in the Kingdom of Thailand, if any.

7. Total number of Permanent Employees:

(1) Administration

(2) Engineering ()

(3) Others

8. Brochure:

As attached hereto.

(Attach a brochure or other documents, if any, to explain capacity and experience of the subcontractor)

(9) EXPERIENCE-1

TABLE OF YEARLY CONTRACT AMOUNTS/NO. OF THE APPLICANT IN THE LAST 5 YEARS

(Unit: Million Baht)

	FY 1987	1988	1989	1990	1991
1. Domestic Contract	_____	_____	_____	_____	_____
Public Works	-----	-----	-----	-----	-----
Private Works	-----	-----	-----	-----	-----
2. Overseas Contract	_____	_____	_____	_____	_____
OECF Loan	-----	-----	-----	-----	-----
IBRD / IDA Loan	-----	-----	-----	-----	-----
ADB Loan	-----	-----	-----	-----	-----
Other Loans	-----	-----	-----	-----	-----
Japanese Grant-Aid	-----	-----	-----	-----	-----
Other Governments	-----	-----	-----	-----	-----
Japanese Enterprises	-----	-----	-----	-----	-----
Foreign Enterprises	-----	-----	-----	-----	-----
3. Total of items 1 & 2 above	_____	_____	_____	_____	_____

Exchange Rate: 100 Baht / _____

(10) EXPERIENCE-2
DIVERSION DAM PROJECTS COMPLETED IN THE LAST 10 YEARS

(Note: Please mark an asterisk (*) for project/s in Thailand.)

Name of Employer	Name, location and type of projects	Name of Supervising Engineer	Contract Price and Date	Percentage of participation of company in the project/s	Was contract satisfactorily completed, including time provision?

(11) EXPERIENCE-3

LIST OF EQUIPMENT SUPPLIED IN THE LAST 10 YEARS

(Unit: Million Baht)

(Note: Please mark an asterisk (*) for equipment supplied in Thailand.)

Contractor _____

<u>Name of Project</u>	<u>Client*</u>	<u>Contract Amount**</u>	<u>Contract Period</u>	<u>Major Works</u>
------------------------	----------------	--------------------------	------------------------	--------------------

/* In case of Grant-Aid project, mark G at the end of the name of the client.

** ... If Contract Amount is in Foreign Currency, convert the amount to Thai Baht with the exchange rate at the time of the contract.

(12) EXPERIENCE-4 : DIVERSION DAM PROJECTS IN PROGRESS

Give information of all projects in progress, including those where the applicant has received a letter of intent, but a formal contract has not yet been awarded.

Employer	Name of Supervising Engineer	Location and Description of Work	Percentage Participation of Company in the Project/s	Value of Contract	Value Completed and Certified	Percentage of Projects Completed	Scheduled Date of Completion of Work

(13) EXPERIENCE-5
DESCRIPTION OF GATES, PUMPS AND CONTROL SYSTEMS SUPPLIED
IN THE LAST TEN (10) YEARS

Project Name :	Location :
Client and Address :	
Project Cost :	Project Duration :
Role of Consultants :	Service Period :
Name of Staff Members who worked on the Project :	
Project Description :	

(continuation)

Project Description :

Present Situation :

Outstanding Matters :

(14) ADDITIONAL INFORMATION

Please add any further information which you consider to be relevant in the evaluation of your application for pre-qualification. If you wish to attach other documents, please list them below, or indicate "not applicable" if not relevant.

JICA