

SOMALI DEMOCRATIC REPUBLIC

Ministry of National Planning and Juba Valley Development

BAARDHEERE DAM PROJECT

CONTRACT PACKAGING SCHEME

1. General

Baardheere Dam Project is a complex and major project involving several disciplines of engineering. Implementations of such a hydropower project which involves works of various natures such as civil hydromechanical, electro-mechanical and electrical engineering disciplines, is normally carried out by awarding the works through different contracts, so as to lower the overall cost of the project and to ensure its timely completion.

The reduction in cost is achieved because specialized firms or contractors of small or medium size can participate directly in the tendering of relatively small amounts in the fields of their respective specializations, without including in their offers unnecessary costs of the general contractor's organizations.

On the other hand, the number of contracts has also to be restricted to an optimum so as to avoid extensive coordination and splitting of the responsibility for the completion of various project components between two or more contractors.

2. Contract packaging

Presently, the executing of the Baardheere Dam Project is tentatively envisaged to be carried out under the following five (5) contracts:

- (i) Contract C-3: Dam and Powerhouse - Civil Works and Hydromechanical Equipment;
- (ii) Contract E-1: Turbines, Generators and Misc. Installations;
- (iii) Contract L-2: Switchyard and Sub-stations;
- (iv) Contract L-3: Transmission Lines - Supply of Equipment;
- (v) Contract L-4: Transmission Lines - Erection of Equipment and Civil Works.

Estimated costs and time frame-work for various contracts are given herebelow:

Sr. No.	Contract No.	Title	Estimated Cost (million US\$)	Date of Award
1	C-8	Dam & Powerhouse - Civil Works & Hydro-mechanical Equipment	208.5 (Rcc) (Emb 195.8)	0
2	E-1	Turbines, Generators & Misc. Installations	25.8	16 months after C-8
3	L-2	Switchyard & Substations	20.6	13 months after C-8
4	L-3	Transmission Lines - Supply of Equipment	36.6	11 months after C-8
5	L-4	Transmission Lines - Erection of Equipment & Civil Works	27.1	5 months after C-8
Total			318.6 (with Rcc)	
			305.9 (with Emb)	

3. Tender documents

Tender documents for C-8, Dam & Powerhouse Civil Works & Hydromechanical Equipment, have already been prepared and are presently under World Bank's review. It is expected that the Tender Documents would be formally cleared by the Bank in the near future.

The Tender Documents are based on FIDIC format of Conditions of Contract. Payments for Civil Works are on unit-price basis while payments for hydromechanical equipment would be made in stages at various percentage rates commensurate with completion of relevant design/fabrication activities. Advance payments would also be admissible after signing of the contract.

4. Modifications to contract packaging scheme

The present contract packaging scheme is a tentative one and is subject to review and modification in accordance with the financing arrangements finalized for the project. Keeping this in view, there is a possibility of further splitting up of Contracts C-8, E-1 and L-2 into two contracts each.

2

5. In addition to above 5 packages there are also the following contracts related to the Project.

- | | |
|---|--------------|
| 1. Housing Facilities for BDP & Engineering | US \$ 8.80 m |
| 2. Engineering & Supervision | " "32.07 m |
| 3. Improvement of road from Baidoa
to Baardheere | " 251.93 m |

Total	US \$66.90 m
-------	--------------

Estimated cost for packages 1 to 5	318.60 m
------------------------------------	----------

Total	385.50 m
-------	----------

SOMALI DEMOCRATIC REPUBLIC

Ministry of National Planning and Juba Valley Development

BAARDHEERE DAM PROJECT

CIVIL WORKS AND HYDROMECHANICAL EQUIPMENT

PREQUALIFICATION OF CONTRACTORS

(All qualified for both options)

1. General

Government of Somali Democratic Republic plans to construct the Baardheere Dam Project on the Juba Valley River. The Project comprises a dam, power house civil works and supply and erection of certain hydromechanical equipment. The dam is located about 30 kms from Baardheere town which is about 370 kms northwest of Mogadishu.

The nature and quantum of work involved in the Project was so unique and enormous as to qualify the project as a major undertaking. Accordingly, in the larger interest of the Project, it was considered necessary to prequalify the firms for participation in the formal tendering competition.

2. Advertisement in National and International Press

A notice was accordingly published in July 1988 in the national and international press by the Baardheere Dam Project Office of the Ministry of National Planning and Juba Valley Development, Mogadishu inviting construction firms to apply for prequalification on prescribed forms contained in the Prequalification Document.

3. Applications received

A total of eighty (80) sets of Prequalification Documents were obtained by various firms and their representatives; however, twenty-five (25) applications from single firms and joint ventures were received - nine (9) applications from joint ventures formed by 27 firms and 16 from single entities. In all, 43 firms from various countries were thus involved.

4. Evaluation committee

Promptly upon receipt of applications for prequalification, an Evaluation Committee comprising a Chairman, a Coordinator and 7 members was constituted by the Minister of National Planning and Juba Valley Development. The basic aim of the Committee was to develop the general principles and procedures for evaluation as per criteria specified in the Prequalification Documents so as to ensure a uniform and consistent approach and methodology for the evaluation exercise. The prequalification criteria prescribed in the document was in accordance with World Bank guidelines.

5. Evaluation - General procedure

As specified in the Prequalification Documents, evaluation was carried out in the following two stages:

- (1) Technical Evaluation
- (ii) Financial Evaluation

The firms who qualified in the Technical Evaluation, were then considered for Financial Evaluation. A firm qualifying both in the Technical and Financial Evaluations was judged as prequalified to tender for the Baardheere Dam Project.

Firms which failed to qualify in the Technical Evaluation, were not further considered for Financial Evaluation.

6. Technical Evaluation

Technical Evaluation comprised study, scrutiny, analysis and appraisal of the following aspects of a firm/joint venture's credentials:

- (1) Experience of constructing similar dam projects;
- (ii) Personnel resources and number of staff likely to be made available for Baardheere Dam Project;
- (iii) Equipment resources and number and type of constructional equipment likely to be made available for the Project.

7. Financial Evaluation

Financial Evaluation involved determination of a firm/joint venture's tendering capability based on its current working capital (current assets minus current liabilities) as well as its net worth (total assets minus total liabilities) using the formulae specified in the Prequalification Documents.

According to the prescribed formulae, the firms were given the option of boosting up their respective tendering capabilities by obtaining additional lines of credit from banks, which was duly taken into consideration for evaluation.

5

8. Prequalified firms

Following completion of evaluation studies, the Draft Evaluation Report has already been submitted to the World Bank and is expected to be finalized shortly.

The undernoted 17 firms/joint ventures have been prequalified:

<u>Sr.No.</u>	<u>Name of Firm/Joint venture</u>	<u>Country</u>
(i)	Joint Venture of - Cogefar - Torno - Hochtief	Italy Italy W. Germany
(ii)	Joint Venture of - Italstrade - Bouygues - C. Muratori & C (CMC)	Italy France Italy
(iii)	Baardheere Dam Joint Venture - Impregilo - Dumez - Dyckerhoff & Widmann	Italy France W. Germany
(iv)	Bilfinger + Berger	W. Germany
(v)	China International Water & Electric Corporation	China
(vi)	HYUNDAI Engineering & Construction Co.	Korea
(vii)	Baardheere Dam Contractor - Zublin - Heilit + Woerner - Kunz - Consolidated Construction - ICORI	W. Germany W. Germany W. Germany Lebanon Italy
(viii)	DOCUS Construction & Trading Company	Turkey
(ix)	Joint Venture of - Vianini - Dragados - Salini	Italy Spain Italy
(x)	Archirodon (Saudi Arabia)	Panama

AFDB cannot finance

<u>Sr.No.</u>	<u>Name of Firm/Joint venture</u>	<u>Country</u>
(xi)	Societta Italiana per Condotte d'Acqua	Italy
(xii)	Palet Insaat ve Tic	Turkey
(xiii)	Joint Venture of - Philipp Holzmann - Strabag Bau AG - Imperesa Pizzaroti - Gambogi Construzioni	W. Germany W. Germany Italy Italy
(xiv)	Joint Venture of - Astaldi - Recchi	Italy Italy
(xv)	SOGEA	France
(xvi)	China State Construction Engg. Corporation (C.S.C.E.C.)	China
(xvii)	Spie Batignolles	France

BAARDHEERE DAM PROJECTS

RECENT REPORTS USED IN PREPARATION OF PROJECT

1. LAHMEYER POWER OPTIMISATION
2. ELC - REVISED COST ESTIMATES
3. ROCK FILL DAM OPTION. REPORT AND ANNEXES
4. TENDER DOCUMENT FOR MAIN CIVIL WORKS CONTRACT
5. REQUALIFICATION DOCUMENT FOR MAIN CIVIL WORKS CONTRACT AND BDP EVALUATION
6. PANEL OF EXPERTS REPORTS (7 MEETINGS)
7. HALCROW FOX DRAFT FINAL REPORT FOR RESETTLEMENT ISSUES
8. JESS DRAFT FINAL AND INTERIM REPORTS
9. HOMBOY STUDY
10. ARCHEOLOGICAL STUDY - PHASE ONE, UNIVERSITY OF GEORGIA
PHASE TWO, UNIVERSITY OF FLORIDA
11. INSTITUTIONAL STUDY, DRAFT FINAL
12. GTZ FLOOD RECESSION STUDY
13. GTZ MASTER PLAN FOR JUBA VALLEY, DRAFT FINAL
14. USBR SOILS ANALYSIS.

DONORS SHOULD CONTACT THE BDP FOR ANY COPIES OF THE ABOVE REPORTS NOT YET RECEIVED.

8