

GREATER THAL CANAL PHASE-II, CHUABARA BRABCH
CALL FOR EXPRESSION OF INTEREST / (SHORT LISTING)
FOR ENGINEERING CONSULTANCY SERVICES

Project Name:	Greater Thal Canal – Phase II, Chaubara Branch
Consulting Service:	Design Review, Preparation of Construction Drawings and Resident Construction Supervision.
Deadline for Submission:	June 6, 2016 at 13:00 hr.
Place of Submission	Project Director, PMU-LBDC Improvement Project, Canal Bank, Mustafa-abad, Lahore.
Implementing Agency:	Punjab Irrigation Department through Project Director, PMU - LBDCIP

A - CLIENT

Position:	Project Director
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B - INTRODUCTION

The Greater Thal Canal Project area lies in the eastern part of the Thal Doab bounded by river Indus on the west and rivers Jhelum and Chenab on the east. On the west the proposed project area abuts with the existing Thal Canal command boundary and falls within the

boundaries of Bhakkar, Layyah, Khushab and Jhang districts. The eastern part of the Doab, which was left out from the original Thal Canal project, constitutes the Greater Thal Canal area. This area, a vast desert spread over about 1.976 million acres, has been lying barren for centuries except for some rainfed agriculture, mostly during Rabi. It has now to be considered for development through irrigated agriculture.

The irrigation network of Greater Thal Canal Project consists of four command systems of Branch canals namely, Mankera, Chaubara, Dhingana and Noorpur and one command system of Mehmood sub branch of Dhingana branch with 65 distributaries and 29 minors.

Phase –I of the project involving construction of Main Canal and Mankera Brach was implemented by WAPDA. Now Go Punjab is entrusted to implement remaining part of the Project:

Phase-I (Completed in 2008 by WAPDA)

- Construction of Main Canal, its 8 Nos. Direct Distributaries with Minors.
- Construction of Mankera Branch and Distribution System.

Phase-II (to be under taken now)

- Construction of Chaubara Branch Canal and Distribution System.

Phase-III (Yet not started)

- Construction of Dhingana Branch Canal and Distribution System.
- Construction of Mahmood Sub Branch Canal and Distribution System.
- Construction of Noorpur Branch Canal and Distribution System.

Phase-I had, already, been completed in 2008 at a cost of Rs. 10.17 Billion by WAPDA, through five contract packages. Remaining contracts were dropped by WAPDA and are now to be implemented by Punjab out of provincial resources.

Government of Punjab has now decided to construct Phase II comprising Chaubara Branch System under Annual Development Programme (ADP) 2015-2016, with a total cost of 6,261 (million). PC-I has already been approved.

Chaubara Branch System aims at development of 294,110 acres CCA new irrigated agriculture in eastern part of the Thal Doab which falls within the boundaries of Bhakkar and Layyah districts.

The project will not only result in an increase in farm income but also the opportunities for labour will increase which will bring prosperity to the people in the project area and thus reduce drift of people to other areas for work.

The project will have many positive impacts including increase in agricultural production resulting in boost to economy, improvements in physical environment including atmosphere, climate, land and water, improvement in quality of life due to betterment in socio-cultural and Socio-economic conditions and enhancement of infra-structural and public health facilities.

C - SCOPE OF PHYSICAL WORK

Major works of this project include:

- Construction of Chaubara Branch Canal and its Distribution System.

Chaubara Branch Canal offtakes from Greater Thal Canal at Tail RD 112+472, where a head regulator for this canal has already been constructed. The Chaubara Branch System comprises of a branch canal and a network of distributaries & minors of the length 73 km and 345 km respectively. Length of branch and system is given below

S. No.	Name of Channel	Length (RDs)
1	Chaubara Branch	235+032
2	Gauhar Distributary	69+538
3	Sadhan Minor of Gauhar Dy.	36+965
4	2-R Minor of Gauhar Dy.	20+090
5	Kora Distributary	25+565
6	Bindian Distributary	86+981
7	1-L Minor of Bindian Dy.	7+942
8	Karlu Distributary	63+632
9	Dadu Distributary	76+656
10	1-R Minor of Dadu Dy.	26+211
11	Kamal Distributary	20+906
12	Haider Distributary	90+354

S. No.	Name of Channel	Length (RDs)
13	Chinna Distributary	97+189
14	Jiwan Minor of Chinna Dy.	47+935
15	Sultan Distributary	71+770
16	1-R Minor of Sultan Dy.	19+286
17	Bahadur Distributary	54+482
18	Chaubara Distributary	164+911
19	Feroz Minor of Chaubara Dy.	22+663
20	Shah Minor of Chaubara Dy.	46+646
21	Mool Minor of Chaubara Dy.	44+158
22	Kalwan Minor of Chaubara Dy.	24+325
23	Chaubara Minor Chaubara Dy.	110+957
18	Chaubara Distributary	164+911
19	Feroz Minor of Chaubara Dy.	22+663
20	Shah Minor of Chaubara Dy.	46+646
21	Mool Minor of Chaubara Dy.	44+158
22	Kalwan Minor of Chaubara Dy.	24+325

Major works includes the following and others:

- Earth work for making canal prism.
- Canal lining by canal lining machine, with batching plant.
- Bambo-bushing for berm formation.
- Construction of Hydraulic Structures (Head Regulators / Cross Regulators / Distributors / Falls etc.)
- Construction of Outlets
- Construction of Bridges
- Installation of Electrical / Mechanical Equipment

D - SOURCE OF FUNDING

The PC-1 of Project namely “Construction of Greater Thal Canal Project – Phase II (Chaubara Branch)” has been approved by the PDWP of Punjab Government, with a cost of Rs. 6,261 (m). The project is to be funded by ADP allocations.

E - OBJECTIVE OF HIRING CONSULTANCY SERVICES

The following are the objectives for hiring the consultancy services:

- To ensure to construct a reliable and sustainable irrigation system of specified quality, in accordance with the construction contract and reviewed design & drawings. In this regard the hired Consultants are expected to perform all necessary services required to attain the objectives.
- To supervise the construction of the irrigation system according to scope works specified in the works contract, quality of specified standards, within stipulated time, to obtain the objective the consultants will be delegated powers.
- To shift the responsibility of design to the Consultants, with a view that the consultants will be solely responsible for visualization and realization of design, by performing the design review or redesign, where necessary.
- To make Consultant’s role proactive and not limited to watch and see or monitor and report, by leading all activities for execution of the physical works, forewarning the contractor and informing the client regarding all coming challenges.
- To hold the Consultants wholly responsible for production rate of the physical works, control of works cost and quality of the construction.
- To deliver the services with professional commitment, by applying knowledge of management of integration, cost, scope, time, quality, procurement, communication, human resource, stakeholder and risk in using the current day practices of project management, for execution, monitoring & control and closing of project.

F - SCOPE OF CONSULTANCY SERVICES

Supervisory Consultants are proposed to hire, in accordance with PPRA Rule, for performing design review, redesign wherever required, preparation of construction drawing; supervise and carry out survey and investigation; project management; contract administration; inspection and testing of works; verification of works, certification of payment; control and monitoring of quantity of works, scope, time and quality. The works contract will be awarded using 66 clause Punjab Government contract document to the contractor. The Engineer Incharge will delegate all necessary powers, reckoned to him under the works Contract, to the Consultants so that the Consultants will be wholly responsible for the functions described above. These function also include issuing of instructions; determination of costs and rate; evaluation of contractor's proposals; value engineering; issuance of Variation Order of a specified threshold; preparation of Appropriation Request for issuance of Variation Order by the Engineer for proposals more than threshold, making recommendations on contractor's claims after proper valuation, determination and justification.

The Supervisory Consultants will deliver all services necessary to control the quantities, (scope), quality, schedule and other project constrains to construct a product of good quality, on time, according to given scope and without a cost over run. To perform this function and to attain the objectives for hiring consultancy services, the Consultants are encouraged to deliver all services necessary, including the services, mentioned below. The scope of services for this consultancy assignment will include, but not limited to the following functions:

- Assistance in bid evaluation and award of contract
- Design review, redesign if necessitated, refinement of design.
- Supervise and/or carry out survey and leveling
- Preparation of Construction Drawings
- Project management
- Construction supervision in the role of the Engineer.
- Verification of executed quantities and certification of payments.
- Contract administration
- Monitoring, reporting and control
- Advising Client on resolution of technical issues/proposals
- Closing
- Services during maintenance period

- Support and assistance for preparing response to audit paras
- Revision of PC-I, updating financial outlay.

G - KEY PERSONNELS

Among other the important key personnel will be the following:

1	Project Manager (PM)	Essentially PMP or M.Sc. Construction Management with basic degree of B.Sc. Civil Engg.
2	Contracts/ Claims Specialist/ Deputy Project Manager- DPM	MSc Construction Management with basic degree of B.Sc. Civil Engg.
3	Chief Resident Engineer	BSc Civil Engineering
4	Principal Hydraulic Design Engineer	M.Sc. Hydraulics Engg or equivalent with B.Sc. Civil Engg
5	Planning & Scheduling Engineer	B.Sc.Civil Engg with MSc. Engg in Construction Management/Project Management or equivalent
6	Principal Hydraulic Design Engineer	M.Sc. Hydraulics Engg or equivalent with B.Sc. Civil Engg
7	Senior Hydraulic Design Engineer	M.Sc. Hydraulics Engg with B.Sc. Civil Engg
8	Senior Engineer Design (Mechanical) (01 No.)	B.Sc. Mechanical Engg, preferably M.Sc. Mech Engg
9	Senior Engineer Design (Geotechnical) (01 No.)	M.Sc. Geotechnical Engg. with basic degree of B.Sc. Civil Engg

10	Senior Engineer Design (Electrical) (01 No.)	B.Sc. Electrical Engg, preferably M.Sc. Elect Engg
11	Resident Engineer Civil (02 No.)	B.Sc. Civil Engg or equivalent
12	Asstt Resident Engineer (Civil) (4 No.s)	B.Sc Civil Engg
13	Material Engineer/Quality Assurance/ Quality Control Specialist	B.Sc Civil Engg preferably M.Sc Civil Engg

The person months of key personnel are about 640, while the total person months are approximately 1240.

H - ELIGIBILITY

The Applicant including all of the component firms of the association, shall be registered under relevant law, with the concerned authority. The Consultancy firms with valid PEC registration, in relevant engineering disciplines and allied fields are eligible to apply. The lead firm must have experience of working in local conditions. Expression of Interest with all attachments shall be in English.

J - ENTITLEMENT OF CONSULTANTS FOR DELIVERY OF SERVICES

The Consultant is encouraged to collaborate with other consulting firms and/or individual consultants as well as specialized consultants/experts if deemed necessary to reinforce the needed institutional and technical competence. The Lead firm shall provide at least 51% of the key person-months including Project Manager and Deputy Project Manager and minimum of 51% of the total man-months. The lead firm will be fully and wholly responsible for the performance of a possible association, without effecting the individual responsibility of the partnering firms.

K - TYPE OF SELECTION

The Consultants will be hired on QCBS procedure, as described in PPRA Rules. The probable percentage will be 80:20. The procedure will include the following:

(i) Preparing a short list of consultancy firms/associations (ii) Preparation of the RFP (iii) solicitation of proposals to shortlisted consultancy firms - Issuing of the RFP (iv) Receipt of proposals (v) Evaluation of technical proposal (vi) Public opening of financial proposal (vii) Evaluation of financial proposals (viii) Ranking of proposals and letter of award and (ix) negotiation and signing off the contract.

Firms not prequalified will be informed accordingly.

L - SELECTION CRITEREA FOR SHORT LISTING

Following criteria will be followed for shortlisting of Consultancy firms.

Criterion # 1

Adequacy and Completeness of Expression of Interest. The application of the consultancy firms shall be adequate and complete to the requirement of this criterion. The component documents shall contain the following features, for the lead consultant and all associated partners:

- Covering Letter, comprising the firm's name, address, contact person, telephone, fax and email;
- Corporate profile and status (maximum 10 pages), including clear statements of type, property and key task of the association;
- Registration with PEC, for the relevant engineering disciplines and allied fields.
- Certificate of National Tax Number
- Legally binding signed declaration of undertaking from all applicants (leading company as well as all partners) that the firm has not been black listed by Federal or Punjab governments or any agencies thereof;
- List of major projects undertaken by the firm in the last 7 years, in the required field.
- Short CVs of the personnel that can be proposed for Project Manager, Deputy Project Manager, Hydraulic Engineer and Chief Resident Engineer, with alternative nomination (8 short CVs), with information about education, years

of professional experience, years with firm, current employer, years of experience in similar posts.

- Total professional strength on permanent roll of the firm, (only listing the professional with more than 2 years of continuous stay in the company and who are still on the roll the firm).
- Declaration of intent of submitting a proposal in case of being short-listed.

Criterion # 2

The annual turnover of the lead firm is more than Rs. 500 (m) for any of the last three (3) years.

Criterion # 3

Positive operating profit, accumulated over last three (3) years, for the lead firm.

Criterion # 4

Lead firm must comply the following:

- i) (a) Two detailed design assignments for physical works costing more than Rs. 3,000 (m) each, involving new/rehabilitation irrigation projects on a major river or canal system, completed in last 7 years. OR
(b) Alternatively, four detailed design assignments for physical works costing more than Rs. 1,500 (m) each, involving new/rehabilitation irrigation projects on a major river or canal system, completed in last 7 years.
- ii) At least two (2) construction supervision assignments (in the role of the Engineer) of projects of physical works of Rs. 3000 (m) each, involving construction/ rehabilitation on canal system or barrage, with geographical scattering, completed in last 7 years.

For the two sub-criteria above works which are substantially completed (more than 95% completion) can also be included.

Criterion # 5

The understanding between the partnering firms for joining hand for making an association (JV or consortium) with fifty one percent (51%) shares to the lead firm and that the Lead firm will provide all bank guaranties. Experience of the lead firm in local conditions as a lead firm is an essential requirement.

M - SPECIAL RIGHTS

The Client has a right to reject any application, without assigning any reason.

EVIDENCE OF COMPLAINE WITH SELECTION CRITEREA

The firms should not provide irrelevant documents which are not solicited in this section of request, no promotional material should be considered for evaluation. In the evaluation process the Client will exam and evaluate the case presented in the Expression of Interest/ application for shortlisting of consultancy firms and associations. The applicant must submit comprehensive documentation encompassing a complete depiction of consultant's capacity, in finance and technical capacity, to undertake the services to attain the objectives of the project. The Client will judge the documents submitted to demonstrate the compliance with the Selection Criteria. A Pass/Fail exercise will be performed on the documentation submitted as an evidence to compliance with the criteria. Noncompliance with any of the Selection Criteria or sub-Criteria will lead rejection of the application and consequently will not beshortlisted. Applicant shall provide and organize the documents in the following manner:

- The Applicant shall provide, to the requirement of this document, evidence of compliance separately against each criteria.
- The Applicant shall place the documents in separate sections, divided by a separator, for each Selection Criterion.
- Only those documents will be considered for evaluation against a particular Selection Criteria, which are place in the respective exclusive section, for that Criteria.
- Any document place outside the section exclusive for certain Selection Criterion will not be considered, in any case.

Compliance with Criterion # 1

All document mentioned are mandatory to submit. All documents in the Expression of interest as required by this request must be complete to present the capacity of the firm/association. Failure to submit the required documents, in completeness, will lead to the rejection of the application.

Compliance with Criterion # 2

The Applicant is required to demonstrate the requirement, supported with the authenticated Audited Certification.

Compliance with Criterion # 3

The Applicant is required to demonstrate the requirement, supported with the authenticated audited certification, audited balance sheets, profit and loss statements etc.

Compliance with Criterion # 4

Provide project sheets/ reference sheets, in separate sub-section for each sub-Criteria, (2 sub-section) supported by completion certificate for all completed assignments or letter of satisfaction (by the Client) for substantially completed works.

Compliance with Criterion # 5

Provide the requisite document Memorandum of Understanding between the partnering firms (or alternatively letters of intent from all partnering firms) regarding; i) forging into an association with fifty one percent (51%) shares to the lead firm, ii) that the lead firm will provide all bank guaranties, and iii) that Lead firm will be responsible for the delivery and performance, without effecting the responsibility of the individual component firms.

N - TIME SCHEDULE

Mobilization of Supervisory Consultants is expected to take place one month before the issue of Letter of Acceptance to the Contractors to participate in the pre-award negotiations with Contractors. The Consultants services is likely to start in the month of September. All the physical works contracts shall be completed within 1460 days (excluding the Defects Liability Period). The Supervisory Consultants shall submit their work program and manning schedule agreeable to the Client to ensure efficient supervision. The first financial review shall be submitted one month after the commencement of works.

P - CONFLICT OF INTEREST

The Client considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations and that such

conflict of interest may contribute to or constitute a prohibited practice. Firms involved in such practices will be bar to participate in the selection process.



Q - FORMAT FOR PROJECT SHEETS

NAME OF FIRM		
NAME OF ASIGNMENT		
LOCATION		COST AT COMPLETION/SUBTANTIAL COMPLETION OF PHYSICAL WORKS (not for design assignments)
NAME OF CLIENT		INITIAL CONSULTANCY FEE
DATE OF START	DATE OF COMPLETION	FINAL CONSULTANCY FEE
ORIGINAL TIME OF COMPLETION		TOTAL PERSON-MONTHS IN ASSOCIATION
ACTUAL DURATION OF ASSIGNMENT		PERSON-MONTH BY FIRM
NAMES OF PARTNERING FIRMS OF ASSOCIATION, with name of lead firm		PERCENT SHARE OF YOUR FIRM
NAME OF EMPLOYEES YOU PROVIDED TO THE PROJECT		
DESCRIPTION OF PROJECT		
DESCRIPTION OF SERVICES YOUR FIRM PROVIDED		