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REQUEST FOR PROPOSAL

Country: Pakistan

Province: Khyber Pakhtunkhwa

District: Abbottabad

Project Name: Feasibility study for Establishment of 03 Water Supply Schemes Each in Thandiani, Khanspur & Changlagali.

Title of Consultancy

1. Feasibility study for Establishment of 03 Water Supply Schemes Each in Thandiani, Khanspur & Changlagali.
2. Survey work along with detail design & cost estimate Of all project components and submission of PC-I.

DEFINITIONS:

- a) "Client" means the agency with which the selected Consultant signs the Contract for the Services.
- b) "Consultant" means any entity including a Joint Venture that will provide the Services to the Client under the Contract.
- c) "Contract" means the Contract signed by the Parties and all the attached documents listed in its Clause 1, that is the General Conditions (GC), the Special Conditions (SC) by which the GC may be amended or supplemented, and the Appendices.
- d) "Data Sheet" means such part of the Instructions to Consultants used to reflect specific assignment conditions.
- e) "Day" means calendar day.
- f) "Government" means the government of Khyber Pakhtunkhwa.
- g) "Instructions to Consultants" means the document which provides short listed Consultants with all information needed to prepare their Proposals.
- h) "Joint Venture" means a Consultant which comprises two or more Partners each of whom will be jointly and severally liable to the Client for all the Consultant's obligations under the Contract.
- i) "Personnel" means qualified persons provided by the Consultant and assigned to perform the Services or any part thereof.
- j) "Proposal" means a technical proposal or a financial proposal, or both.
- k) "QBS" means Quality-Based Selection.
- l) "QCBS" means Quality- and Cost-Based Selection.
- m) "RFP" means this Request for Proposal.
- n) "Services" means the work to be performed pursuant to the Contract.
- o) "SSS" means the Single Source Selection.
- p) "Standard Electronic Means" includes facsimile and email transmissions.
- q) "Sub-Consultant" means any person or entity with whom the Consultant associates for performance of any part of the Services and for whom the Consultant is fully responsible.
- r) "Terms of Reference" (TOR) means the document included in the RFP, which explains the objectives, scope of work, activities, tasks to be performed, respective responsibilities of the Client and the Consultant, and expected results and deliverables of the assignment.

Location & Date:

Galiyat Development Authority Abbottabad

Dated: _____/_____/2017

Name & Address of Consultant:

1. INTRODUCTION

- 1.1 You are hereby invited to submit a technical and a financial proposal for consulting services required for the Assignment named in the attached Data Sheet (referred to as "Data Sheet" hereafter) annexed with this letter. Your proposal could form the basis for future negotiations and ultimately a contract between your firm and the Client named in the Data Sheet.
- 1.2 A brief description of the Assignment and its objectives are given in the attached TORs.
- 1.3 The Client (Galiyat Development Authority.Abbottabad) has been entrusted the duty to implement the Project as Executing Agency by the *Government of Khyber Pakhtunkhwa* and funds for the project for the phase have been approved and provided in the budget for utilization towards the cost of the Assignment, and the Client intends to apply part of the funds to eligible payments under the contract.
- 1.4 To obtain first-hand information on the Assignment and on the local conditions, you are encouraged to pay a visit to the Client before submitting a proposal and attend a pre-proposal conference if specified. Your representative shall meet the officials of the Galiyat Development Authority. Please ensure that these officials are advised of the visit in advance to allow adequate time for them to make appropriate arrangements. You must fully inform yourself of local conditions and take them into account in preparing your proposal.

1.5 **Please note that:**

- i) The cost of preparing the proposal and of negotiating the contract, including a visit to the Client, are not reimbursable as a direct cost of the Assignment; and
- ii) The Client is not bound to accept any of the proposals submitted.

1.6 We wish to remind you that in order to avoid conflicts of interest:

- i) Any firm providing goods, works, or services with which you are affiliated or associated is not eligible to participate in bidding for any goods, works, or services (other than the Services and any continuation thereof) resulting from or associated with the project of which this Assignment forms a part; and
- ii) Any previous or ongoing participation in relation with the project by your firm, its professional staff, its affiliates or associates under a contract may result in rejection of your proposal. You should clarify your situation in that respect with the Client before preparing the proposal.

2. DOCUMENTS

- 2.1 To prepare a proposal, please use the attached Forms/Documents..
- 2.2 Consultants requiring a clarification of the Documents must notify the Client, in writing, not later than Five (05) days before the proposal submission date. Any request for clarification in writing, or by cable, telex or telefax shall be sent to the Client's address indicated. The Client shall respond by cable, telex or telefax to such requests.
- 2.3 At any time before the submission of proposals, the Client may, for any reason, whether at its own initiative or in response to a clarification requested by a consulting firm, modify the Documents by amendment. The amendment shall be sent in writing or by cable, telex or telefax to all prospective consulting firms and will be binding on them. The Client may at its discretion extend the deadline for the submission of proposals.

3. PREPARATION OF PROPOSAL

- 3.1 You are requested to submit a technical and a financial proposal. Your proposal shall be written in English language.

Technical Proposal

- 3.2 In preparing the technical proposal, you are expected to examine all terms and instructions included in the Documents. Failure to provide all requested information shall be at your own risk and result in rejection of your proposal.

Bid security at 2% of the bid cost in shape of call deposit / pay order in the name of DG GDA, Abbottabad to be put in the technical proposal envelope, failing which both the technical & financial proposals will be considered as non-responsive.

- 3.3 During preparation of the technical proposal, you must give particular attention to the following:

- i) If you consider that your firm does not have all the expertise for the Assignment you may obtain a full range of expertise by associating with other firms or entities. You may also utilize the services of expatriate experts but only to the extent for which the requisite expertise is not available in any Pakistani Firm. You may not associate with the other firms invited for this Assignment unless specified in the Data Sheet.
- ii) Subcontracting part of the Assignment to other consultants if considered desirable; the same sub-consultant may be included in several proposals, subject to limitations in the Data Sheet.
- iii) The estimated number of key professional staff required for the Assignment is stated in the Data Sheet. Your proposal should be based on a number of key professional staff months substantially in accordance with the above number. However you may propose changes in the light of your experience through your comments on the TOR. The detailed design shall be carried out on only one feasible route.
- iv) The key professional staff proposed shall be permanent employees of the firm unless otherwise indicated in the Data Sheet.
- v) Proposed staff should have experience preferably under conditions similar to those prevailing in the area of the Assignment. The minimum required experience of proposed key staff shall be as listed in the Data Sheet.
- vi) No alternative to key professional staff may be proposed, and only one curriculum vitae (CV) may be submitted for each position.
- vii) Study reports must be in the English Language. Working knowledge of the national language by the firm's personnel is recommended. The knowledge of the regional language where the Assignment is located will be considered additional qualification.

3.4 Your technical proposal shall provide the following and any additional information, using the formats attached in Appendix 1:

- I-Form-1 A brief description of the Consultant's organization and an outline of recent Five Years experience on assignments of a similar nature. For each assignment, the outline should indicate, inter alia, the profiles of the staff provided, duration, contract amount and firm's involvement.
- I-Form-2 A list of projects presently being under taken by the Firm and expertise-wise total number and number of staff deployed on the projects being presently under-taken.
- I-Form-3 Consultants' understanding of the objectives of the project, their approach towards the assignment and a description of methodology that the consultants propose to perform on the activities and completion of the assignment.
- I-Form-4 Any comments or suggestions on the TOR;
The Consultant's comments, if any, on the data, services and facilities to be provided by the Client and indicated in the TOR.
- I-Form-5 CVs recently signed by the proposed key professional staff. Key information should include number of years with the firm, and degree of responsibility held in various assignments.
- I-Form-6 A monthly work plan, illustrated with a bar chart of activities and graphics of the critical path method (CPM) or Project Evaluation Review Techniques (PERT) type.
- I-Form-7 A schedule for compilation and submission of various types of reports as envisaged in Appendix-II of TOR .
- I-Form-8 A work plan and time schedule for the key personnel also showing the total number of person-months by each key person.
- I-Form-9 The composition of the proposed staff team, the tasks which would be assigned to each staff members and their positions.

10. If the Data Sheet specifies training as a major component of the Assignment, a detailed description of the proposed methodology, staffing, budget and monitoring.
 11. Any additional information as requested in the Data Sheet.
- 3.5 The technical proposal shall not include any financial information. The Consultant's comments, if any, on the data, services and facilities to be provided by the Client and indicated in the TOR shall be included in the technical proposal.

Financial Proposal

- 3.6 The financial proposal should list the costs associated with the Assignment. These normally cover remuneration for staff in the field and at headquarters, per diem, housing, transportation for mobilization and demobilization, services and equipment (vehicles, office equipment furniture and supplies), printing of documents, surveys and investigations. These costs should be broken into foreign (if applicable) and local costs. Your financial proposal should be prepared using the formats attached as Appendix 2 i.e. Form Nos. 1 through 6. Your financial proposal shall clearly state the amount for construction supervision only.
- 3.7 The financial proposal shall also take into account the professional liability as provided under the relevant Contract for Engineering Consultancy Services Govt. of Khyber Pakhtunkhwa GDA Abbottabad and cost of insurances specified in the Data Sheet.
- 3.8 Costs may be expressed in currency(ies) listed in the Data Sheet

4. SUBMISSION OF PROPOSALS

- 4.1 You shall submit one original technical proposal and one original financial proposal and the number of copies of each indicated in the Data Sheet. Each proposal shall be in a separate envelope indicating original or copy, as appropriate. All technical proposals shall be placed in an envelope clearly marked "Technical Proposal" and

the financial proposals in the one marked "Financial Proposal". These two envelopes, in turn, shall be sealed in an outer envelop bearing the address and information indicated in the Data Sheet. The envelope shall be clearly marked, "DO NOT OPEN, EXCEPT IN PRESENCE OF THE EVALUATION COMMITTEE."

- 4.2 In the event of any discrepancy between the copies of the proposal, the original shall govern. The original and each copy of the technical and financial proposals shall be prepared in indelible ink and shall be signed by the authorized Consultant's representative. The representative's authorization shall be confirmed by a written power of attorney accompanying the proposals. All pages of the technical and financial proposals shall be initialed by the person or persons signing the proposal.
- 4.3 The proposal shall contain no interlineation or overwriting except as necessary to correct errors made by the Consultants themselves. Any such corrections shall be initialed by the person or persons signing the proposal.
- 4.4 The completed technical and financial proposals shall be delivered on or before the time and date stated in the Data Sheet.
- 4.5 The proposals shall be valid for the number of days stated in the Data Sheet from the date of its submission. During this period, you shall keep available the professional staff proposed for the assignment. The Client shall make its best effort to complete negotiations at the location stated in the Data Sheet within this period.

5. PROPOSAL EVALUATION

- 5.1 A two-envelope procedure shall be adopted in ranking of the proposals. The technical evaluation shall be carried out first, followed by the financial evaluation. Firms shall be ranked using a combined technical/financial score.

Technical Proposal

- 5.2 The evaluation committee appointed by the Client shall carry out its evaluation, applying the evaluation criteria and point system specified in the Data Sheet. Each responsive proposal shall be attributed a technical score (St). Firms scoring less than seventy (70) percent points shall be rejected and their financial proposals returned un-opened.

Financial Proposal

For Quality cum Cost Based Selection

- 5.3 The financial proposals of the consulting firms scoring equal to or greater than 70%, on the basis of evaluation of technical proposals shall be opened in the presence of the representatives of these firms, who shall be invited for the occasion and who care to attend. The Client shall inform the date, time and address for opening of financial proposals as indicated in the data Sheet. The total cost and major components of each proposal shall be publicly announced to the attending representatives of the firms.
- 5.4 The evaluation committee shall determine whether the financial proposals are complete and without computational errors. The lowest financial proposal (Fm) among the three shall be given a financial score (Sf) of 100 points. The financial scores of the proposals shall be computed as follows:

$$S_f = \frac{100 \times F_m}{F}$$

(F = amount of specific financial proposal)

- 5.5 Proposals, in the quality cum cost based selection shall finally be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T- the weight given to the technical proposal, P = the weight given to the financial proposal; and T+P=1) indicated in the Data Sheet:

$$S = S_t \times T \% + S_f \times P \%$$

6. NEGOTIATION

- 6.1 Prior to the expiration of proposal validity, the Client shall notify the successful Consultant that submitted the highest ranking proposal in writing, by registered letter, cable telex or facsimile and invite it to negotiate the Contract.

- 6.2 Negotiations normally take from two to five days. The aim is to reach agreement on all points and initial a draft contract by the conclusion of negotiations.
- 6.3 Negotiations shall commence with a discussion of your technical proposal. The proposed methodology, work plan, staffing and any suggestions you may have made to improve the TOR. Agreement shall then be reached on the final TOR, the staffing, and the bar charts, which shall indicate activities, staff, periods in the field and in the home office, staff months, logistics and reporting.
- 6.4 Changes agreed upon shall then be reflected in the financial proposal, using proposed unit rates (no negotiation of the staff month rates).
- 6.5 Having selected Consultants on the basis of, among other things, an evaluation of proposed key professional staff, the Client expects to negotiate a contract on the basis of the staff named in the proposal. Prior to contract negotiations, the Client shall require assurances that the staff members will be actually available. The Client shall not consider substitutions of key staff except in cases of un-expected delays in the starting date or incapacity of key professional staff for reasons of health.
- 6.6 The negotiations shall be concluded with a review of the draft form of the contract. The Client and the Consultants shall finalize the contract to conclude negotiations. If negotiations fail, the Client shall invite the Consultants that received the second highest score in ranking to Contract negotiations. The procedure will continue with the third in case the negotiation process is not successful with the second ranked consultants.

7. **AWARD OF CONTRACT**

- 7.1 The contract shall be awarded after successful negotiations with the selected Consultants and approved by the competent authority. Upon successful completion of negotiations/initialling of the draft contract, the Client shall promptly inform the other Consultants that their proposals have not been selected.

7.2 The selected Consultant is expected to commence the Assignment on the date and at the location specified in the Data Sheet.

8. DATA SHEET

8.1 The minimum required experience of proposed Key staff is:

S#	Positon	Minimum Acadmic Qulaification	No. of Years of Professiona l Experience in similar projects	Minimum No. of similar project for specific expertise	No. of Years of Professional Experience
1	Project Manager / Sr. Water Supply Engineer.	BSc (Civil Engineering	10	8	12
2	Principal Water Supply Engineer.	BSc (Civil Engineering)	10	8	12
3	Junior Water Supply Engineer.	BSc (Civil Engineering)	10	8	12
4	Environmenta l Engineer	BSc (Civil Engineering)	10	8	12
5	Documentatio n Engineer.	BS/ B-Tech Engineer.	10	8	12
6	Quantity Surveyor.	DAE Civil Tech.	10	8	12
7	Surveyor.	DAE Civil.	10	8	12
8.	Structure Engineer.	M.Sc Structure Engineering.	10	8	12
9.	Computer Operator.	Bachler	03	03	05
10	Draftsman / Auto Cad Operator.	Diploma in Draftsman ship /Cad Operator	05	03	05

8.2 Professional liability, insurances (description or reference to appropriate documentation): Covered under clause 3.4 of of KPK Contract for Engineering Consultancy Services.

8.3 The number of copies of the Proposal required is: One original + One Copy

8.4 The address for writing on the proposal is :

The Director General

Galiyat Development Authority

ZTBL Building, Mansehra Road, Abbottabad

Telephone: 0992-9310240

Email : gdaatd@gmail.com

Fax: 0992-331535

Website: www.gda.gkp.pk

8.5 The date and time of proposal submission are: 06.04.2017 at 02 P.M.

8.6 Validity period of the proposal is (days, date): 60-days

The location for submission of proposals is: DG GDA, ZTBL Building, Mansehra Road, Abbottabad.

8.7 The points given to each category of evaluation criteria are:

	<u>Description/Items</u>	<u>Points</u> *
1)	Experience at Standing: (20)	
	ii). Genral Experience	[8]
	iii). Experinece in Similar nature of work	[12]
2)	Work Plan/Methodology (30)	
	i) Proposed Work Plan	(15)
	li .Methodology	[15]
3)	Qualification and competence of the Key Staff for the Assignment (50)	
	(i) Academic and General qualification	[20]
	(ii)Practical experience	[30]

- The minimum qualifying technical score [70] Points.

8.8 The weights given to the Technical and Financial Proposals are:-

Technical: 0.7
Financial : 0.3

The Assignment is expected to commence on:-

Sincerely,

[DG GDA Abbottabad]

Enclosures

- Sample Forms for:-
- Technical Proposal
- Financial Proposal
- Terms of Reference

STANDARD FORMS

APPENDIX-I

TECHNICAL PROPOSAL FORMS

Form 1

FIRM'S REFERENCE

**Relevant Services Carried Out in the Last Five Years
Which Best Illustrate Qualifications**

Using in the format below, provide information on each reference assignment for which your firm, either individually as a corporate entity or as one of the major companies within a consortium, was largely contracted.

Assignment Name:		Country:
Location within Country:		Professional Staff Provided by Your Firm:
Name of Client:		No of Staff:
Address:		No of Staff Months:
Start Date (Month/Year):	Completion Date (Month/Year):	Approx. Value of Services (in Current USD/Rs.)
Name of Associated Firm (s), if any:		No. of Months of Professional Staff Provided by Associated Firm(s)
Name of Senior Staff (Project Director/Co-ordinator, Team Leader) involved and functions performed:		

Narrative Description of Project
Description of Actual Services Provided by Your Staff

Consultants' Name: _____

PRESENT STAFF DEPLOYMENT

(As of _____)

Major Project(s) Presently Undertaken		
Project Name	Location	Associates(s)

Field of Expertise	Total Number of Permanent Staff	Staff Assigned to Above Projects

***APPROACH PAPER ON METHODOLOGY PROPOSED
FOR PERFORMING THE ASSIGNMENT***

Approach and Methodology proposed by the firm to carry out the assignment is sub divided in to several areas which include the following heads.

- Understanding of objectives
- Quality of Methodology
- Proposal Presentation
- Work Plan and manning schedule
 - Activity Schedule
 - Team Organization
 - Bar Chart
 - CPM
 - Staff Duty Matrix
 - Staffing Schedule
 - Estimate of Staff Months

COMMENTS/SUGGESTIONS OF CONSULTANT

On the Terms of Reference (TOR)

1.

2.

3.

4.

5.

6.

Etc.

On the data, services and facilities to be provided by the Client indicated in the TOR:-

1.

2.

3.

4.

5.

Etc.

FORMAT OF CURRICULUM VITAE (CV) FOR PROPOSED KEY STAFF

1. Proposed Position: _____
2. Name of Firm: _____
3. Name of Staff: _____
4. Profession: _____
5. Date of Birth: _____
6. Years with Firm: _____
7. Nationality: _____
8. Membership in Professional Societies: _____
(Membership of PEC is Mandatory)
9. Detailed Tasks Assigned on the Project: _____

10. Key Qualifications:

[Give an outline of staff member's experience and training most pertinent to tasks on assignment. Describe degree of responsibility held by staff member on relevant previous assignments and give dates and locations. Use up to one page].

11. Education:

[Summarize college/university and other specialized education of staff member, giving names of institutions, dates attended and degrees obtained.]

12. Employment Record:

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, title of positions held and location of assignments. For experience in last ten years, also give types of activities performed and client references, where

appropriate.

13. Languages:-

[Indicate proficiency in speaking, reading and writing of each language: excellent, good, fair, or poor].

14. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these bio-data correctly describe myself, my qualifications and my experience.

Signature of Staff Member

Date: _____
Day/Month/Year

WORK PLAN/ACTIVITY SCHEDULE

Items of Work/Activities	Monthly Programme from date of assignment (in the form of a Bar Chart)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Completion and Submission of Reports

Reports	Date

WORK PLAN AND TIME SCHEDULE FOR KEY PERSONNEL

Name	Position	Months (in the form of a Bar Chart)															Number of Months
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

Full Time: _____

Part Time: _____

Activities Duration _____

Yours faithfully,

Signature _____
(Authorized Representative)

Full Name _____

Designation _____

Address _____

**COMPOSITION OF THE TEAM PERSONNEL AND THE TASKS TO
BE ASSIGNED TO EACH TEAM MEMBER**

1. Technical/Managerial Staff

Name	Position	Task Assignment

2. Support Staff

Name	Position	Task Assignment

APPENDIX-II

FINANCIAL PROPOSAL FORMS

Form 1

BREAKDOWN OF RATES FOR CONSULTANCY CONTRACT

Project: _____ Firm: _____

Name	Position	Basic Salary per Cal. Month	Social Charges (%age of 1)	Overhead (%age of 1+2)	Sub-Total (1+2+3)	Fee (%age of 4)	Rate per Month for project Office	Field Allow. (%age of 1)	Rate per Month for Field Work
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

Notes:

Item No. 1 Basic salary shall include actual gross salary before deduction of taxes. Payroll sheet for each proposed personnel should be submitted at the time of negotiations.

Item No. 2 Social charges shall include Client’s contribution to social security, paid vacation, average sick leave and other standard benefits paid by the company to the employee. Breakdown of proposed percentage charges should be submitted and supported (see Form 2).

Item No. 3 Overhead shall include general administration cost, rent, clerical and junior professional staff and business getting expenses, etc. Breakdown of proposed percentage charges for overhead should be submitted and supported (see Form 3).

Item No. 5 Fee shall include company profit and share of salary of partners and directors (if not billed individually for the project) or indicated in overhead costs of the Company.

Item No. 7 Normally payable only in case of field work under hard and arduous conditions.

Full Name: _____

Signature: _____

Title: _____

ESTIMATED LOCAL CURRENCY SALARY COSTS/REMUNERATION

S.No.	Name	Position	Staff-Months	Monthly Billing Rate	Total Estimated Amount (Rs.)
II	Non-Technical Staff				
		Sub-Total:			

DIRECT (NON-SALARY) COSTS

S.No.	Nomenclature	Unit	Quantity	Unit Price (Rs)	Total Amount (Rs.)	Remarks
1	Rental of Vehicles (at least Single cabin Pick up not more than 05 years old)	Per Month				
2	Fuel Consumption including Maintenance of Rental Vehicles	Per Month				
3	Salary of Drivers	Per Month				
4	Rental Office + Accommodation with minimum Covered Area 2500 Sft. Including the Utility Bills of Telephone, Electricity and Sui Gas, etc.	Per Month				
5	Sweeper	Month				
6	Stationary Charges	Per Month				
7	Establishment of laboratories, Provision of Survey and Laboratory Equipment's	-				
8	Vehicles provided by the client for supervision	-	-	-	-	-

Project Title -----

ADP No. _____

SUMMARY OF COST OF CONSULTANT

				Millions
S.No.	Description	Design Phase	Construction Supervision Phase	Amount (Rs.)
1.	Salary Cost/Remuneration			
2.	Direct (Non-salary) Cost			
3.	Contingencies			
4.	Grand Total			

Final cost (in figure)
(in words)

Dated ___/___/_____

Chief Executive/Authorized Signature & Seal _____

Address of the company _____

[Form 6 shall be submitted on Company letter head and signed by chief Executive or Authorized Agent]

TERMS OF REFERENCE (TOR ARE AS UNDER:

**GOVERNMENT OF KHYBER PAKHTUNKHWA
GALIYAT DEVELOPMENT AUTHORITY, ABBOTTABAD**



**FEASIBILITY STUDY / SURVEY WORK AND DETAILED DESIGN (INCLUDING
PREPARATION OF PC-I / COST ESTIMATE) FOR "ESTABLISHMENT OF 03 WATER
SUPPLY SCHEMES EACH IN THANDIANI, KHANSPUR & CHANGLAGALI AREA
GALIYAT DISTRICT ABBOTTABAD".**

MARCH-2017

GALIYAT DEVELOPMENT AUTHORITY ABBOTTABAD.

**TERMS OF REFERENCE (TOR) FOR FEASIBILITY STUDY / SURVEY WORK AND
DETAILED DESIGN (INCLUDING PREPARATION OF PC-I / COST ESTIMATE) FOR
"ESTABLISHMENT OF 03 WATER SUPPLY SCHEMES EACH IN THANDIANI,
KHANSPUR & CHANGLAGALI AREA GALIYAT DISTRICT ABBOTTABAD".**

1. FEASIBILITY STUDY THE ESTABLISHMENT OF WATER SOURCE

- i. The main task of the feasibility study will be to study and select a viable water source i.e ground water or surface water from the most suitable rivers or some other suitable source spring etc. adjacent to the identified project areas so as to ensure potable water supply to the project area.
A part from this the study of the existing water supply system in the project area may be carried out and recommendation for its improvement should be submitted. The following points i.e study of existing water supply system and proposals are required as a part of the feasibility report.
- ii. The consultant shall collect all maps, data, reports, documents and information etc related to the existing water supply system in the project area from the concerned departments such as PHE, TMA's etc. This data and reports will be reviewed.

- iii. Carry out general condition survey of the gravity / pumping based with detailed tests and investigations in collaboration with the concerned agency / department.
- iv. On the basis 2 and 3 carry out situation analysis of ascertain / ensure the suitability of water quality the water from the ground water from existing facilities and also evaluate and quantify the work from rehabilitation / improvement of the facilities.
- v. The consultant shall collect the data of existing available water in project area and calculate the projected water demand upto 2036.
- vi. For the projected water demand, the consultant undertake evaluation / comparative study of potential ground and surface water sources available, to select the most reliable and sustainable water source, which about could be developed economically for the water supply to the project area.
- vii. Established zones of the project area for water supply if required.
- viii. The consultant shall conduct reconnaissance survey to assess the economical and viable routes of transmission main for supply to the established zones, the tentative location for treatment plant and other components of the project.
- ix. The consultant shall closely interact / coordinate with the PKHA, PHE, C&W, TMA etc, on various issues such as right of way, water rights, etc.
- x. The consultants shall prepare BOQ and costs of development of various options of water source and recommend the most feasible and economical water source to be developed for the project along with cost of acquiring land for water sources.
- xi. Prepare water quality reports of the selected source of water.
 - a. Physical
 - b. Chemical
 - c. Bacteriological
- xii. Conduct investigation and exploration study on the water sources to be identified in the nearby surrounding areas.
- xiii. Monitor and record the discharge of all the sources in, to collect the past rainfall data for the last 6-10 years and also monitor and report high flood for the last ten years.
- xiv. Trial pits to ascertain the sub oil strata at the selected sites of intake works.
- xv. Development and monitoring of the source after detail design of intake structure.
- xvi. The time period for the consultancy services / completion of work shall be 02 months.

2. SURVEY WORK ALONG WITH DETAILED DESIGN OF ALL THE PROJECT COMPONENTS AND SUBMISSION OF PC-I

A. DATA COLLECTION & ANALYSIS

- I. Socio Economic Condition
- II. On-going projects about water supply
- III. Plants about water supply
- IV. Topographical and hydrological mapping

Detailed reconnaissance survey will be done by experienced engineer. Topographic survey shall be carried out by conventional land survey methods by using modern survey equipments. The field survey shall in general consist of establishing vertical and horizontal control, from which further detail survey shall be undertaken.

- **Reconnaissance Survey:**

Field study shall be carried for establishment of water works, lying of Supply Main pipe line at the most suitable and feasible route. Similarly site selection for storage reservoir and survey of distribution network showing existing and proposed spot levels at all control points / nodes and other important structure shall be noted and clearly presented of survey sheet.

- Permanent BMS shall be established at suitable locations of the project area at given intervals. A Bench Mark shall be established at the source and the storage reservoirs of all the schemes to be surveyed and designed. BMS shall be located on permanent structures at suitable safe locations where they may last for maximum period of time. A BM shall be according to the given criteria and specifications. BM leveling shall be carried out using automatic leveling instruments and compatible leveling staves. Check leveling shall be carried out independently by a different person or same person on another day. Acceptable mis-closure between the two results will be of the order $2\% +$ or $-$ field procedure suitable to achieve the requirements shall be adopted.
- **Horizontal Control:**
EDM traverse shall be run with traverse stations established at suitable spaced interval. A typical traverse station shall consist of a small steel nail driven into ground or mark chiseled on some existing concrete surface. All field distances shall be measured two ways once in the forward direction and second time in the backward direction from the forward station. All horizontal angles shall be measured on one face only. The traverse shall be a closed loop traverse with permissible closure accuracy of 1:10,000.
- **Detail topographic Survey & Contouring**
Top survey physical and geographical features and terrain situation elevation-wise detail survey shall be carried out by any one of the following methods or by suitable combination of.
- **Tachometric Method**
Spot elevations shall be taken at regular intervals for generating cross sections at suitable intervals.
This may be done by leveling method or tachometric technique or by using EDM/Total Station. Similarly longitudinal profile shall be generated from the field survey data available from spot elevation taken for a cross sections and the detail survey.
Preparation of the Maps of the project at the scale of 1:500 shall be prepared within 50 meters on both sides of the centre line of the proposed line and approaches. The approaches shall be surveyed and mapped upto a minimum of 50 meters each side of the line. The coordinates of various components (Source and Surface Reservoirs) shall be provided by the consultants of each of the project in the project area.

V. Geological, Hydrological, hydrographical and metrological.

- VI. All the projects in the project area should be marked on a District Map.
- VII. Institute and organizational arrangements for O&M (Operation and Maintenance)
- VIII. Collect and review all existing studies, reports, project documents, PC-Is and Maps / drawings prepared by various departments or consultants and update the data keeping in view the changed scenario (depletion of underground water source against increase in population)
- IX. Population and Population density of various areas, union councils / zones of the project area.
- X. Existing and future (20 years) domestic, industrial, commercial and public demand of water in the project area.
- XI. Carry out socio economic and EIA studies.

B. STUDY OF EXISTING WATER SUPPLY SCHEMES IN THE IDENTIFIED AREAS.

- I. Preparation of Maps with a scale of 1:2000 to showing all existing water supply schemes in the project area, its functionality and locations of the various components of the schemes.
- II. Water availability of existing schemes (if any) to the project area.

C. STUDY OF OPERATION AND MAINTENANCE OF EXISTING WATER SUPPLY SCHEMES

- I. Work out rehabilitation needs and its costs.
- II. Provision for future development.
- III. Operational costs of water production from existing surface.
- IV. Provision for cost of acquisition of land for lying of pipe line (supply main and distribution)

D. RECOMMENDATIONS FOR FUTURE WATER SUPPLY SCHEMES

- I. Design criteria and treatment method of the surface water.
- II. Transmission lines for raw water to the treatment facilities.
- III. Dividing the project area into different zones and proposal of interlinking with the existing facilities and its improvement if any.
- IV. Selection of feasible sites for structures such as treatment works and storage reservoirs.
- V. Selection for feasible routes for supply main and distribution networks.

E. DESIGN & PREPARATION OF COST ESTIMATES & TENDER DOCUMENTS

The consultant shall prepare the detailed design and drawings of the project components including intake structure, treatments units, supply mains, storage reservoirs and distribution networks.

- I. Detail design along with drawings of the intake structure
- II. Detail design and selection of routes and pipe material for supply main
- III. Detail design of treatment unit
- IV. Detail design of structure surface reservoirs
- V. Detail design and selection of routes and pipe material for distribution networks
- VI. To prepare a draft copy of the PC-I and only after the approval, 10 Nos of PC-

Is to be submitted both in hard and soft form.

VII. The Tender Documents will be prepared according to PHE standards.

F. DESIGN CRITERIA

- I. Population for the design should be projected for 20 years based geometric growth method.
- II. Water consumption rate to be taken as per living standards and requirements of the community.
- III. Suitable peak factor to be adopted.
- IV. Minimum Terminal pressure of 10 meters to be adopted and type of material to be designed in conformity with maximum permissible pressure.
- V. Hazen William's formula to be used of pipeline.
- VI. Protection works for source, supply main, reservoirs etc, shall be properly designed.
- VII. Design of treatment at source point with such flow rate that meets the peak demand.
- VIII. The consultant shall prepare the estimate of capital investment and O&M outlay and undertake economical and financial analysis.

G. RECOMMENDATIONS FOR OPERATION, MAINTENANCE & MANAGEMENT

- I. The capacity of existing institutional responsibility for sectoral development and service, including infrastructural development operation and maintenance and revenue collection.
- II. Within existing government frame work, recommendation for organizational arrangement for the implementation and subsequent operation and management. It includes strengthening of existing TMA's and Public Health Engineering Departments.
- III. Alternate options for the operation, maintenance and cost recovery including community participation GDA, TMA's Union Council, private public partnership etc.

H. PROJECT DELIVERABLES

The consultant shall prepare and submit the following reports to the client during the project period.

- I. Fortnightly reports to be submitted regarding progress of the project/survey work.
- II. Inception report, survey plans of the project and final feasibility report at the end of 1st moth.
- III. Draft/final detailed design/drawing and PC-I at the end of 2nd month

J. OFFICE EXPENSES/UTILITIES ETC.

**Assistant Director (T)
Galiyat Development Authority
Abbottabad**

**Director
Galiyat Development Authority
Abbottabad**

Section 1. Letter of Invitation.

Date:

Invitation No:

Deadline for submission of Proposals:-

To,

Dear Sir

1. Local Government Elections & Rural Development Department Khyber Pakhtunkhwa through GDA intends to improve Water Supply facilities in Galiyat District Abbottabad Pakistan. The Project is named is **Feasibility Study for Establishment of 03 Water Supply Schemes Each in Thandiani, Khanspur & Changlagali**. The project is financed by Government of Khyber Pakhtunkhwa.
2. The Galiyat Development Authority, Abbottabad Pakistan through Local Government Election & Rural Development Department Khyber Pakhtunkhwa now invites proposal from the eligible firms for **Feasibility Study for Establishment of 03 Water Supply Schemes Each in Thandiani, Khanspur & Changlagali**. More details on the services are provided in the bidding documents.
3. This Request for Proposal (RFP) is valid for National firms having qualified relevant planning and Engineering Professionals duly registered with PEC.
4. For the above purpose qualified firm are invited to submit technical & financial proposals for this assignment as per KPPRA rules. The selection shall be based on quality plus cost basis as per KPPRA rules.
5. Please inform us in writing at the following address.

Office of the Director General,
Galiyat Development Authority,
Khyber Pakhtunkhwa,
ZTBL Building Mansehra Road, Abbottabad.

Interested firms are hereby invited to submit their technical / financial proposals for **Feasibility Study for Establishment of 03 Water Supply Schemes Each in Thandiani, Khanspur & Changlagali**. In the stipulated time, the Galiyat Development Authority Abbottabad will organize a brief session & site visit on an appropriate date and time for the interested firms.

Yours sincerely,

Director General,
Galiyat Development Authority,
Khyber Pakhtunkhwa,
ZTBL Building Mansehra Road, Abbottabad.

Ph: 0992-9310240
Fax: 0992-331535
Email: gdaatd@gmail.com.



FEASIBILITY STUDY FOR ESTABLISHMENT OF 03
WATER SUPPLY SCHEMES EACH IN THANDIANI,
KHANSPUR & CHANGLAGALI.

REQUEST FOR PROPOSALS.

TEHSIL AND DISTRICT ABBOTTABAD.

MARCH, 2017.

FUNDED BY PROVINCIAL GOVT:

DIRECTOR GENERAL GDA, ABBOTTABAD