

## **EXPRESSION OF INTEREST (EoI)**

From  
Interested Eligible Individuals/Organisation/Firms  
For

Engagement of Social Expert (Domain Expert) to interact with International Experts of ADB, provide necessary inputs to them, assist them in collection of data and its review and preparation and revision of domain specific reports in respect of Proposed Jamrani Drinking Water Multipurpose Project on Gola River, Haldwani, Nainital, Uttarakhand

Office Of General Manager,  
Project Implementation Unit, Jamrani Drinking Water Multipurpose Project ,Haldwani  
Uttarakhand Project Development & Construction Corporation Ltd

Irrigation Department Uttarakhand

Email: [eejcd3@gmail.com](mailto:eejcd3@gmail.com)

SHORT TERM TENDER NOTICE NO. 02/PM1/PIUJ/UPDCC/2021-22

**“Expression of Interest” (Eoi)**

Assignment Title: Engagement of Social Expert (Domain Expert) to interact with International Experts of ADB, provide necessary inputs to them, assist them in collection of data and its review and preparation and revision of domain specific reports in respect of Proposed Jamrani Dam Project on Gola River, Haldwani, Nainital, Uttarakhand

Applications are invited for the position of Social Expert as detailed below by the undersigned from all the interested eligible Applicants/Consultants/Firms for the above said assignment.

The Eoi documents and TOR (Terms of Reference) for the above domain experts will be available on the website of <https://www.uttarakhandirrigation.com> from 25/05/2021 onwards. Corrigendum to this notice if any shall only be uploaded on the above website. Applications for the above positions can be submitted to the Email [eejdcd3@gmail.com](mailto:eejdcd3@gmail.com).

Notes :

1. Interested individuals/consultants/firms may submit their proposals to the email address provided above.
2. The last date of receiving applications is 5:00 PM 31st May 2021.
3. The shortlisted candidates shall be called for an interview before the selection committee constituted by the competent authority.
4. Interview schedule shall be intimated separately to the shortlisted candidates.
5. No TA/DA shall be provided for attending the interview.
6. For any queries and clarification bidders may contact at the above mentioned email ID or the following email address :-  
[Email-eejdcd3@gmail.com](mailto:Email-eejdcd3@gmail.com)

**Project Manager-I  
Office of General Manager, PIU Jamrani  
Haldwani**

## Expression of Interest (Eoi)

### 1.0 Introduction

Uttarakhand Irrigation Department has planned to utilize the water resources of Gola river by constructing a dam on river Gola, Distt Nainital (Uttarakhand) for providing total additional irrigation potential of 57065 ha in Uttarakhand and UP. Apart from this, the dam is to augment the drinking water needs for the ever increasing population of Haldwani which faces acute water crisis during summer months. In addition, a small hydropower unit for generating 14 MW power is also proposed to be constructed as a part of the project.

The project envisages construction of a 130.60 meters high dam on Gola river located about 10 km upstream of existing Gola barrage at Kathgodam in Nainital district of Uttarakhand. A part of stored water shall be released into the existing canal systems constructed during Phase-I of the project to meet the irrigation and drinking water requirements.

The Detailed Project Report of the Project has been accorded approval by the respective central and state departments. The project is proposed to be financed by the Asian Development Bank and various specialized studies are proposed to be carried out. A Social Expert is proposed to be engaged for an initial duration of 04 months to interact with the International Experts of ADB and provide the necessary inputs to them:

### 2.0 Salient Features of the Project

#### I. General

|                                |   |
|--------------------------------|---|
| 1. Latitude                    | 29016' 12.50" N   |
| 2. Longitude                   | 79036' 43.92" E   |
| 3. Topo-map                    | 65 E / 12   |
| 4. Location                    | 10 Km upstream of Kathgodam<br>in Nainital District, Uttarakhand, |
| 5. Village                     | Jamrani   |
| 6. Tehsil                      | Haldwani  |
| 7. District                    | Nainital  |
| 8. State                       | Uttarakhand   |
| 9. Name of the river           | Gola  |
| 10. Name of Basin              | Ganga   |
| 11. Catchment Area of dam site | 450 Km <sup>2</sup>   |

#### II. Hydrology

|                                     |            |
|-------------------------------------|------------|
| 1. Average Annual Rainfall          | 2016 mm    |
| 2. Average Annual yield at dam site |            |
| a. 50% Dependable year              | 393.31MCM  |
| b. 75% Dependable year              | 283.06 MCM |
| 3. Flood                            |            |
| a. Probable Maximum Flood           | 8427Cumec  |
| b. Diversion Flood                  | 500 Cumec  |

#### III. Dam and Spillway Arrangements

|                    |                                       |
|--------------------|---------------------------------------|
| 1. Type            | Roller Compacted Concrete Gravity Dam |
| 2. Length at Crest | 433.50 m                              |

|                             |   |
|-----------------------------|---|
| 3. Max height above deepest | 150.60 m Foundation level (Elev. - 615m)  |
| 4. Crest of Spillway        | 716.00 m  |
| 5. Width at top             | 10 m  |
| 6. Top of Dam               | 765.60m   |
| 7. Type of gate             | Radial type   |
| 8. No. and size of gate     | 4 No. 8 m (W) x 12 m (H) for gate<br>Spillway and 2 no. 5 m (W) x 7.5 m<br>(H) for Under Sluice |
| 9. Discharge passing        | 6536 Cumec for Spillway and 2036<br>Cumec for under Sluice                                      |
| 10. Free board              | 2 m above MWL   |

#### IV. Energy Dissipation Arrangement

|   |                        |
|---|------------------------|
| 1. Type   | Trajectory Bucket type |
| 2. Invert Level of bucket(for Spillway and                            | 666 m Under Sluice)    |
| 3. End sill elevation of lip (for<br>Both spill way and under sluice) | 712 m                  |

#### V. Diversion Arrangement

|                           |  |
|---------------------------|--|
| 1. Type                   | Horse shoe shaped  |
| 2. Diameter               | 1 No. 6.5 m dia.   |
| 3. Length                 | 565 m on right bank of Gola river  |
| 4. Lining                 | Concrete (M20 grade)   |
| 5. Upstream coffer dam    | 15 m high (rock fill type with concrete Lined<br>upstreamface)                   |
| a. Top width              | 6 m  |
| 6. Downstream coffer dam  | 7 m high (Rock fill type<br>with concreteLined<br>downstream face M 15<br>grade) |
| a. Top width              | 7 m  |
| 9. Diversion design flood | 500 Cumec  |

#### VI. Reservoir

|                                     |                          |
|-------------------------------------|--------------------------|
| 1. Top dam level                    | 765.60 m                 |
| 2. Max water level                  | 763.60 m                 |
| 3. Full reservoir level             | 762.00 m                 |
| 4. M.D.D.L                          | 717.47 m                 |
| 5. River bed level                  | 635.00 m                 |
| 6. Gross Storage at El. 762.00 m    | 208.60 MCM               |
| 7. Live Storage                     | 142.72 MCM               |
| 8. Dead Storage                     | 65.88 MCM                |
| 9. Submergence Area at El. 762.00 m | 428.57 Ha at El. 762.00m |

#### VII. Intake

|                          |                                |
|--------------------------|--------------------------------|
| 1. Type                  | Bell mouth entry type (2 Nos.) |
| 2. Centre line of intake | 713.80 m                       |

|                                 |  |
|---------------------------------|--|
| 3. Dia. of Intake               | 2.0 m                                  |
| 4. Height of trash rack opening | 6.18 m                                 |
| 5. Crest level                  | 712.80 m                               |
| 6. Size of intake gate          | 1.66 m (W) x 2 m (H)                   |
| 7. Design Discharge             | 7.22 cumec                             |
| 8. Silt excluder bottom outlet  | 2 Nos. each of size 5 m (W) x7.5 m (H) |
| 9. Invert of under sluice       | 701 m                                  |

### **VIII. Penstock**

|   |   |
|---|---|
| 1. No of penstock                       | 2 Nos. bifurcating into 2 penstock each of 1.2 m diameter to serve vertical Francis Turbine |
| 2. Length (up to D line of power House) | 155.0 m   |
| 3. Diameter                             | 1.7 m for 2 Nos. and 1.2 m for 4 Nos.   |

### **IX. Power House**

|                                  |                           |
|----------------------------------|---------------------------|
| 1. Location                      | On right bank             |
| 2. Type                          | Surface                   |
| 3. No of size of units           | 4 Nos.                    |
| 4. Type of turbine               | Vertical Francis turbine  |
| 5. Installed capacity            | 4 x 3.5 MW                |
| 6. Net design head               | 106.82 m                  |
| 7. Design discharge for one unit | 3.61 Cumec                |
| 8. Size of power house           | 55.30 m x 14.0 m x 23.0 m |

### **X. Kathgodam Barrage**

|                                  |             |
|----------------------------------|-------------|
| 1. Length                        | 81.00 m     |
| 2. Crest level of other bays     | 506.50 m    |
| 3. Crest level of sluice bays    | 506.50 m    |
| 4. Bed level of river downstream | 502.00 m    |
| 5. Design discharge              | 32.50 Cumec |
| 6. Pond level                    | 510.75 m    |

### **XI. Irrigation**

|  |            |
|--|------------|
| 1. CCA                                       | 150027 Ha  |
| 2. Area being irrigated at present           | 238317 Ha  |
| 3. Further area proposed to be Irrigated     | 57065 Ha   |
| 4. Total irrigated area                      | 295382 Ha  |
| 5. Existing average intensity of Irrigation  | 158.85 %   |
| 6. Proposed average intensity of Irrigation  | 196.88 %   |
| 7. Total requirement of water for Irrigation | 416.30 MCM |

### **XII. Rehabilitation & Resettlement Aspects**

|                                      |           |
|--------------------------------------|-----------|
| 1. Area of Submergence Villages      | 49.343 Ha |
| 2. No of affected families           | 415       |
| 3. No of affected Villages (hamlets) | 06        |
| 4. Affected total population         | 965       |

### **3.0 Eligibility Criteria**

- i) The applicants can apply in capacity of individuals/consultant firms/ organizations
- ii) Interested firms should be a registered company under the Companies Act.
- iii) Applicants should have valid PAN, TAN and GST Registration No. as the case may be.
- iii) The applicants or its associate should have carried out/ carrying out consultancy work in the field of water resources project.
- iv) The applicants or its associate should have a team of professionals in the related field. The signed CV of Domain Experts shall be submitted as a part of the technical bid.

### **4.0 Essential Qualifications and Experience for Social Expert:**

- i) PG in Social Science/ MSW with more than 08 years of experience in relevant field and at least 03 years experience in EAP's.
- ii) Experience with ADB/ WB/ JICA funded project is desirable.
- iii) Experience in Resettlement and Area Development Plan is desirable
- iv) Experience in socio-economic survey and formulation of Social Management Plan and R&R Plans is desirable.
- v) Experience of working in Uttarakhand/ similar terrain is desirable.

### **5.0 Terms of Reference**

#### **5.1 Objectives of the Assignment**

The objective of engagement of Social Expert is to interact with the International Experts of ADB on issues related to the specific domains, provide the necessary inputs required by them and assist them in collection of the data and its review, preparation and revision of domain specific reports.

#### **5.2 SCOPE OF WORKS (TOR)**

Broad scope of work for the Social Expert proposed under the assignment is as given below:

- i. To form Rehabilitation and Resettlement Plan framework for Jamrani Drinking Water Multipurpose Project in compliance with ADB's SPS and Right to Fair Compensation & Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
- ii. Preparation of reports and technical presentations required by the Department.
- iii. Attending the project related meetings at various locations.
- iv. Interacting with the Project affected families, public representatives on behalf of the client, mediating between Department and Project affected families to make R&R policy.
- v. Any other related activity as envisaged by the project authorities.

#### **5.3 Deliverables**

The assignment shall be basically man-month based but it is the responsibility of the concerned Expert to carry out the activities assigned in "Scope of Work" to the satisfaction of the client. In case the Client is not satisfied with the performance of the Expert, the Client may ask the Firm to replace the concerned consultant with an acceptable substitute. The Firm/Individual is to assess the requirement of necessary support staff required for smooth delivery of assignment by the Expert and incorporate the cost of the same in the man-month cost of the Expert.

Ordinary place of working for the Domain Expert would be the project office but He/ She may

be required to travel to different places like Dehradun, Delhi and other places. No separate charges on this account shall be payable and the Firm is to incorporate these costs in the man-month costs of the Expert.

The Expert is also required to submit along with the application for the assignment the expected consolidated remuneration on a monthly basis inclusive of all charges (food, lodging, travel etc.)

#### **5.4 Evaluation Process**

The Expert shall be evaluated on the basis of meeting of the Eligibility Criteria and Experience. A maximum of 100 marks shall be given on the above basis. Evaluation Sheet is being annexed as ANNEXURE -1 to this document. Names of candidates scoring a minimum of 70 marks for meeting the qualification and experience criteria shall be shortlisted for interview process. Final selection of candidates shall be based on interview.

#### **5.5 Performance Security / Security Deposit**

A sum of 3% of the value of the contract shall be deposited at the time of signing of Contract by the successful candidate as performance security and the same shall be returned after successful completion of the assignment.

A sum of 5% shall be deducted from each bill as security deposit and shall be refunded after a period of two years from successful completion of the assignment.

#### **5.6 Copy Rights and Confidentiality Clause:**

The department has full and sole rights on the outputs generated by the Domain Expert. All information/ reports/ data related to project shall be maintained confidential and shall not be shared with anyone without the prior consent of the department.

#### **5.7 Proposal Submission Procedure :**

The proposal shall be submitted in form of Technical & Financial bids . The technical bid shall comprise of the following :

- a) Curriculum Vitae showing relevant qualifications and experience.
- b) Bid validity of the quoted rates and acceptance of conditions of the bid on a non-judicial stamp paper of Rs.100.00 duly signed on Re-1.00 revenue stamp affixed on it.

Financial proposal shall be filled and submitted by the candidates in the prescribed format at ANNEXURE-2 and shall be inclusive of all costs associated for completion of the assignment (food, stay, travel, per diem, support staff etc.) but exclusive of taxes as applicable.

| Technical Evaluation Sheet- Social Expert |               |   |  | ANNEXURE-1 |   |   |
|---|---------------|---|--|------------|---|---|
| Social Expert                             |               |   | Maximum Marks                                    | Experts    |   |   |
|   |               |   |  | 1          | 2 | 3 |
| A   | Qualification | Doctorate Degree in Sociology or allied field                                       | 20   |            |   |   |
|   |               | Master Degree in Sociology or allied field  | 15   |            |   |   |
|   |               | <b>Total Qualification (Maximum)</b>  | <b>20</b>  |            |   |   |
| B   | Experience    | (i) Experience of 03 years in Externally Aided Projects like ADB /WB/JICA/KFW etc . | 20, if Experience of more than 03 years in EAPs. |            |   |   |
|   |               |   | 10, if Experience of between 1-3 years in EAPs   |            |   |   |
|   |               |   | 20, if experience is 15 years or more            |            |   |   |
|   |               | (iii) Total No. of years of Working Experience                                      | 15, if experience is between 10 to 15 years      |            |   |   |
|   |               | (iv) Experience of working in hilly terrain   | 20   |            |   |   |
|   |               | (v) Experience in R&R and ADB's SPS policy  | 10   |            |   |   |
|   |               | <b>Total Experience (Maximum)</b>   | <b>80</b>  |            |   |   |
| <b>Grand Total (A+B)</b>                  |               |   | <b>100</b>                                       |            |   |   |



## ANNEXURE-2

| <b>Tender inviting Authority:</b> Project Manager, PIU Jamrani, UPDCC Ltd, Haldwani   |   |          |       |            |        |                   |
|---|---|----------|-------|------------|--------|-------------------|
| <b>Name of Work:</b> Engagement of Social Expert to interact with International Experts of ADB, provide necessary inputs to them, assist them in collection of data and its review, preparation and revision of domain specific reports in respect of Proposed Jamrani Drinking Water Multipurpose Project on Gola River, Haldwani, Nainital, Uttarakhand |   |          |       |            |        |                   |
| Name of bidding Firm/ Consultant / Individual   |   |          |       |            |        |                   |
| S.No  | Item Description  | Quantity | Units | Basic Rate | Amount | Amount (in words) |
| 1   | Engagement of Social Expert to interact with International Experts of ADB, provide necessary inputs to them, assist them in collection of data, its review and preparation and revision of domain specific reports in respect of Proposed Jamrani Drinking Water Multipurpose Project on Gola River, Haldwani, Nainital, Uttarakhand. |          |       |            |        |                   |
| <b>Total in Figures</b>   |   |          |       |            |        |                   |
| <b>Quoted Rate in Words</b>   |   |          |       |            |        |                   |