

# **EXPRESSION OF INTEREST (EOI)**

**Title of Consulting Service: Geophysical Survey  
(ERT/VES) for Deep Tubewell Projects at Gorkha  
District**

**Method of Consulting Service: National**

**Project Name : Geophysical Survey (ERT/VES) for Deep Tubewell Projects at  
Gorkha District**

**EOI : GWRIO/Nawalpur/CS/RFP-01/081/82**

**Office Name: Ground Water Resource and Irrigation office, Nawalparasi (Ba.Su.Pa.)**

**Office Address: Nawalparasi (Ba.Su.Pa.) Kawaswoti Nawalparasi East**

**Funding agency : Government Budget**



## Abbreviations

CV	-	Curriculum Vitae
DO	-	Development Partner
EA	-	Executive Agency
EOI	-	Expression of Interest
GON	-	Government of Nepal
PAN	-	Permanent Account Number
PPA	-	Public Procurement Act
PPR	-	Public Procurement Regulation
TOR	-	Terms of Reference
VAT	-	Value Added Tax

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## **A. Request for Expression of Interest**

# Request for Expression of Interest

## Government of Nepal (GoN)

Name of Employer: Ground Water Resource and Irrigation office, Nawalparasi (Ba.Su.Pa.)

Date: 30-04-2025 00:00

Name of Project: Geophysical Survey (ERT/VES) for Deep Tubewell Projects at Gorkha District

1. Government of Nepal (GoN) has allocated fund toward the cost of Geophysical Survey (ERT/VES) for Deep Tubewell Projects at Gorkha District and intend to apply portion of this fund to eligible payments under the Contract for which this Expression of Interest is invited for National consulting service
2. The Ground Water Resource and Irrigation office, Nawalparasi (Ba.Su.Pa.) now invites Expression of Interest (EOI) from eligible consulting firms (“consultant”) to provide the following consulting services: Geophysical Survey for Deep Tubewell Projects at Gorkha District
3. Interested eligible consultants may obtain further information and EOI document free of cost at the address Ground Water Resource and Irrigation office, Nawalparasi (Ba.Su.Pa.), Ground Water Resource and Irrigation office, Nawalparasi (Ba.Su.Pa.) Gandaki Province  
Nepal during office hours on or before 15-05-2025 12:00 or visit e-GP system [www.bolpatra.gov.np/egp](http://www.bolpatra.gov.np/egp) or visit the client’s website <http://gwriokaski.gandaki.gov.np/>
4. Consultants may associate with other consultants to enhance their qualifications.
5. Expressions of interest shall be delivered online through e-GP system [www.bolpatra.gov.np/egp](http://www.bolpatra.gov.np/egp) Groundwater Resources and Irrigation Office, Nawalparasi (Bardaghat Susta Purba) on or before 15-05-2025 12:00
6. In case the last date of obtaining and submission of the EOI documents happens to be a holiday, the next working day will be deemed as the due date but the time will be the same as stipulated.
7. EOI will be assessed based on Qualification 35.0 %, Experience 50.0 %, and Capacity 15.0 % of consulting firm and key personnel. Based on evaluation of EOI, only shortlisted firms will be invited to submit technical and financial proposal through a request for proposal.
8. Minimum score to pass the EOI is 60

## **B. Instructions for Submission of Expression of Interest**

# Instructions for Submission of Expression of Interest

1. Expression of Interest may be submitted by a sole firm or a joint venture of consulting firms and the maximum number of partners in JV shall be limited to three.
2. Interested consultants must provide information indicating that they are qualified to perform the services (descriptions, organization and employee and of the firm or company, description of assignments of similar nature completed in the last 7 years and their location, experience in similar conditions, general qualifications and the key personnel to be involved in the proposed assignment).
3. This expression of interest is open to all eligible consulting firm/ company/ organization.
4. In case, the applicant is individual consultant, details of similar assignment experience, their location in the previous 4 years and audited balance sheet and bio data shall be considered for evaluation.
5. The assignment has been scheduled for a period of [2 Months]. Expected date of commencement of the assignment is 15-07-2025.
6. A Consultant will be selected in accordance with the QCBS method.
7. Expression of Interest should contain following information:
  - (i) A covering letter addressed to the representative of the client on the official letter head of company duly signed by authorized signatory.
  - (ii) Applicants shall provide the following information in the respective formats given in the EOI document:
    - EOI Form: Letter of Application (Form 1)
    - EOI Form: Applicant's Information (Form 2)
    - EOI Form: Work Experience Details (Form 3(A), 3(B) & 3(C))
    - EOI Form: Capacity Details (Form 4)
    - EOI Form: Key Experts List (form 5).
8. Applicants may submit additional information with their application but shortlisting will be based on the evaluation of information requested and included in the formats provided in the EOI document.
9. The Expression of Interest (EOI) document must be duly completed and submitted by electronically only using the forms and instructions provided by the system.
10. The completed EOI document must be submitted on or before the date and address mentioned in the "Request for Expression of Interest". In case the submission falls on public holiday the submission can be made on the next working day. Any EOI Document received after the closing time for submission of proposals shall not be considered for evaluation.

## **C. Objective of Consultancy Services or Brief TOR**



## C. Objective of Consultancy Services or Brief TOR

Government of Gandaki Province

Ministry of Energy, Water Resources and Water Supply

## Groundwater Resource and Irrigation Office

Nawalaparasi (Bardaghat Susta Purba )

### Terms of Reference (TOR)

For

### Geophysical Survey (ERT/VES) for Deep Tubewell Projects at Gorkha District

2025

#### 1.1 Background

An agricultural country Nepal needs efficient and round the year irrigation in order for crop diversification and increased cropping intensity thereby enhancing living standard through increased agricultural productivity. Groundwater resources offer reliable supply of water in the hydro-geologically favorable area. As is already known Nepal Terai is very rich in groundwater resources and is being exploited significantly for irrigation uses. In the recent years however there has been planned exploitation of groundwater even in the hills for irrigation uses. Every year more and more hill districts are being added to groundwater irrigation area. Compared to Terai, the hill area has complex geology and needs more precise study in order to arrive at any conclusion before exploitation of the resources. In this regard hydrogeological study through field survey and Resistivity survey (geophysical) is sought for *Deep Tubewell*



**Projects at Gorkha District** where groundwater may be potentially available for irrigation.

## 1.2 Location

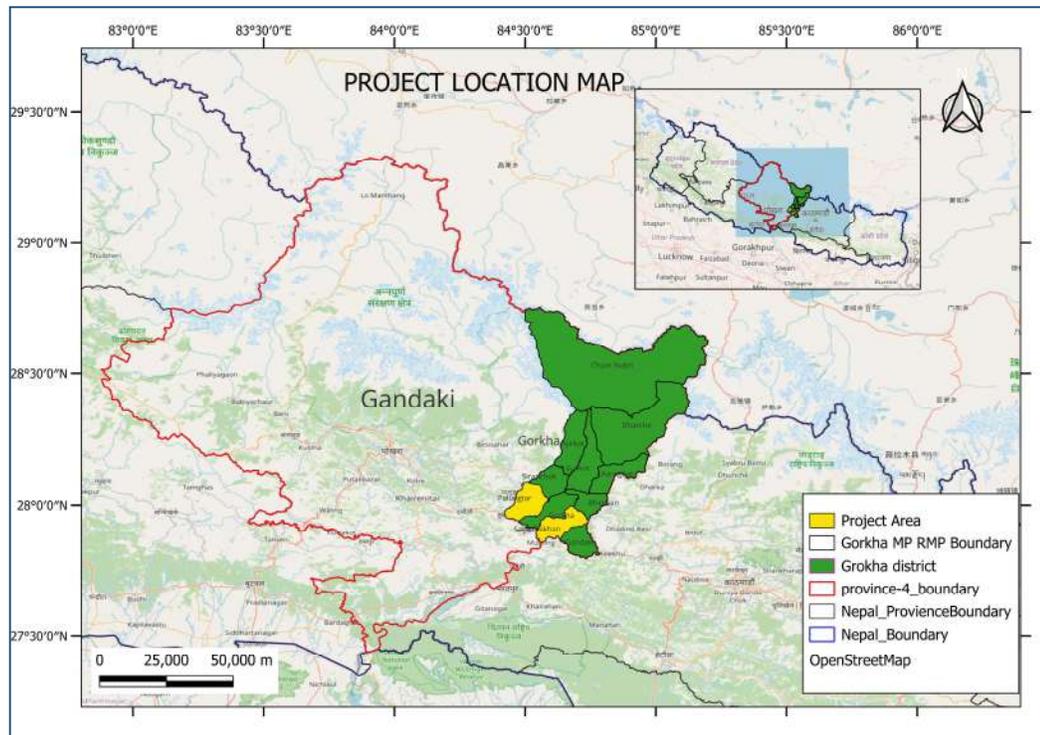
The present study area is located at :

**(1) Mulabari Bhumigat Sinchai Aayojna, Palungtaar-08, Gorkha**

**(2) Pipalswara Deep Tubewell Sinchai Yojana, Sahid Laxan RM-6, Jyamirswara**

**(3) Nibuwachaur Deep Tube well Sinchai Yojana, Palungtaar M-6**

**(4) Rinjeli Deep Tube Well Sinchai Yojana, Sahid Laxan RM-4, Taklung, Gorkha District**



## 1.3 Accessibility

The area is easily accessible with motorable road.

## 1.4 Scope and Objective

The main objective of the present study on geophysical exploration is to have information on hydrogeological set up of the area so that one will be able to decide whether or not groundwater may be exploited for irrigation.



. In order to meet the objectives, the scopes of works are as follows:

- Make assessment of topographical and morphological features of the area
- Review and conduct general geological and Hydrogeological survey of the area
- To carryout Resistivity survey Vertical Electrical Sounding (VES)/Electric resistivity Tomography (ERT) as per site condition and coordination with Employer. The survey must represent at least 50 ha of command area for each project.
- Compute, analyze and interpret the field data with computer added software.
- Make suggestion and recommendations on hydrogeological condition through geophysical, geological and geomorphologic observations.
- Report Preparation

### 1.5 Materials and methods

The methodology of the study that the consultant should follow consist of materials collection; literature collection and review, field planning, geological observation and geophysical (VES) survey with a depth of minimum 150 m. In case of ERT Survey the depth shall not be less than 120 m or as recommended by hydrogeologist, data computation, processing and interpretation; and finally report preparation.

### 1.6 Desk Study and Field Planning

Necessary equipment for proposed study is VES/ERT instrument with accessories (Ground Resistivity Meter), Topographic Map, District Map, GPS (Global Positioning System), Photographic Camera, Brunton Compass etc. Literatures and information related to topography, climate, geology, Socio-economic condition of the area should also be collected and reviewed. The general geology of the area needs to be taken from the geological map of the area. The description of the geology of the area should be done from the published and unpublished literatures and verified in the field by observation and field measurement.

### 1.7 Fieldwork and Data Acquisition

For the present study, Schlumberger/Wenner configuration needs to be used to obtain the resistance of ground surface. The electrodes expansion up to 360 m distance on either side of the sounding point (AB/2) is needed. The readings should be taken with potential electrode spacing 1m, 5m, 15m and 50m with current electrode spacing up to 360 m (AB/2). The survey line should be fixed in such a way that the information obtained from survey should represent the command area not less than 50 ha land in



each project. During the data acquisition, sudden topographic variations and possible source of noise like high voltage lines, buried pipe lines are to be avoided. GPS having high accuracy should be used to record the position of sounding point. Field photographs should be taken to characterize the topographical and morphological character of the area.

The surveyed data shall be recorded in standard data sheet in tabular format; which are used for analysis and interpretation.

### 1.8 Data Processing, Interpretation and Report Preparation

The acquired field data should be computed on spreadsheet and plotted. Computer added program needs to be used for data analysis and interpretation.

### 1.9 Expected Outcome of the Study

The Expected outputs of the Geophysical Survey are as follows:

- Comprehensive discussion, analysis and interpretation of VES/ERT data showing aquifer in the area.
- To recommend the depth for the groundwater Exploitation.
- Comprehensive report of the study with maps and photographs.

### 1.10 Timeline

The duration of the study is two months, effective from date of agreement.

### 1.11 Schedule of Implementation

The time schedule for the completion of the report is as follows.

S.N.	Description	No. of Reports to be Submitted	Due date for submission after effective date of contract agreement
1	Draft Report	1 hard copy with raw data in soft copy	1.5 month after the date of work order
2	Final Report	3 colors hard copies and soft copy	2 months after the date of work order

Note: The consulting firm should give oral presentation at office premises while submitting final report.



### 1.12 Mode of Payment

The amount shall be paid as per agreement to the consultant assigned for the study. However, the payment shall be made only after submission and acceptance of final report as per TOR.

## **D. Evaluation of Consultant's EOI Application**

# Evaluation of Consultant's EOI Application

Consultant's EOI application which meets the eligibility criteria will be ranked on the basis of the Ranking Criteria.

## i) Eligibility & Completeness Test

Sl. No.	Criteria Title	Compliance
1	Corporate Registration: UP to date Renew.(for FY 2081/082)	
2	Tax Clearance/Tax Return Submission/Letter of Time Extension for Tax Return Submission :FY 2080.81	
3	VAT/PAN Registration: Attached copy of Certificate/Extension Letter	
4	EOI Form 1: Letter of Application	
5	EOI Form 2: Applicant's Information Form	
6	EOI Form 3: Experience (3(A) and 3(B))	
7	EOI Form 4: Capacity	
8	EOI Form 5: Qualification of Key Experts	
9	In case of a natural person or firm/institution/company which is already declared blacklisted and ineligible by the GoN, any other new or existing firm/institution/company owned partially or fully by such Natural person or Owner or Board of director of blacklisted firm/institution/company; shall not be eligible consultant.	
10	If the corruption case is being filed to Court against the Natural Person or Board of Director of the firm/institution /company or any partner of JV, such Natural Person or Board of Director of the firm/institution /company or any partner of JV shall not be eligible to participate in procurement process till the concerned Court has not issued the decision of clearance against the Corruption Charges.	

## ii) EOI Evaluation Criteria

### A. Qualification

Sl. No.	Criteria	Minimum Requirement
1	Qualification of Key Experts	Master's Degree in related field i. Team Leader (Senior Hydrogeologist/Senior Geophysicist)-3 marks ii. Hydrogeologist/Geophysicist-2 marks
2	Experience of Key Experts	i. Team Leader (Senior Hydrogeologist/Senior Geophysicist)-10 to 15 years of experience in respective position-20 marks ii. Hydrogeologist/Geophysicist (5 to 10 years of experience in respective position)-10 marks

Score: 35.0

### B. Experience

Sl. No.	Criteria	Minimum Requirement
1	General Experience of consulting firm	a. Experience of the firm more than or equal to 10 years-----10 points Experience of the firm more than or equal to 8 years-----8 Points b. Experience of the firm more than or equal to 7 years-----7 Points c. Experience of the firm more than or equal to 5 years----- 6 points Total-10 marks
2	Specific experience of consulting firm within last 7 years.	a) Consulting Service in Geophysical (ERT/VES) Study

Sl. No.	Criteria	Minimum Requirement
		and Report Preparation Of Groundwater Irrigation Projects with command area 25 ha.to 50 ha (minimum 2 projects) each-15 marks Total-30 marks
3	Similar Geographical experience of consulting firm	Consulting service of similar nature in similar locations at least one project-10 marks

**Score: 50.0**

### C. Capacity

Sl. No.	Criteria	Minimum Requirement
1	Financial Capacity.[Average turnover required shall not exceed 150% of cost estimate]	The firm shall have annual average turnover (best 3 out of 7 Years) of NRs. 20,00,000/- -10 marks
2	Infrastructure/equipment related to the proposed assignment.[This Evaluation criteria should be deleted if infrastructure/equipment are not the part of the proposed assignment]	1. ERT Machine with accessories-1 set -5 marks

**Score: 15.0**

**Minimum score to pass the EOI is: 60**

Note : If the corruption case is being filed to Court against the Natural Person or Board of Director of the firm/institution /company or any partner of JV, such Natural Person or Board of Director of the firm/institution /company or any partner of JV such consultant's proposal shall be excluded during the evaluation.

## **E. EOI Forms & Formats**

## **E. EOI Forms & Formats**

Form 1. Letter of Application

Form 2. Applicant's information

Form 3. Experience (*General, Specific and Geographical*)

Form 4. Capacity

Form 5. Qualification of Key Experts

**Standard EOI Document**

**1. Letter of Application**

*(Letterhead paper of the Applicant or partner responsible for a joint venture, including full postal address, telephone no., fax and email address)*

Date: .....

To,

Full Name of Client: \_\_\_\_\_

Full Address of Client: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

Sir/Madam,

1. Being duly authorized to represent and act on behalf of (hereinafter "the Applicant"), and having reviewed and fully understood all the short-listing information provided, the undersigned hereby apply to be short-listed by **[Insert name of Client]** as Consultant for **[Insert brief description of Work/Services]**.
2. Attached to this letter are photocopies of original documents defining:
  - a) the Applicant's legal status;
  - b) the principal place of business;
3. **[Insert name of Client]** and its authorized representatives are hereby authorized to verify the statements, documents, and information submitted in connection with this application. This Letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by yourselves to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the Applicant.
4. **[Insert name of Client]** and its authorized representatives are authorized to contact any of the signatories to this letter for any further information.<sup>1</sup>
5. All further communication concerning this Application should be addressed to the following person,  
  
*[Person]*  
  
*[Company]*  
  
*[Address]*  
  
*[Phone, Fax, Email]*
6. We declare that, we have no conflict of interest in the proposed procurement proceedings and we have not been punished for an offense relating to the concerned profession or

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<sup>1</sup> Applications by joint ventures should provide on a separate sheet, relevant information for each party to the Application.

**Standard EOI Document**

business and our Company/firm has not been declared ineligible.

7. We further confirm that, if any of our experts is engaged to prepare the TOR for any ensuing assignment resulting from our work product under this assignment, our firm, JV member or sub-consultant, and the expert(s) will be disqualified from short-listing and participation in the assignment.
8. The undersigned declares that the statements made and the information provided in the duly completed application are complete, true and correct in every detail.

**Signed** :

**Name** :

**For and on behalf of (name of Applicant or partner of a joint venture):**

**Standard EOI Document**

**2. Applicant's Information Form**

*(In case of joint venture of two or more firms to be filled separately for each constituent member)*

1. Name of Firm/Company:
2. Type of Constitution (*Partnership/ Pvt. Ltd/Public Ltd/ Public Sector/ NGO*)
3. Date of Registration / Commencement of Business (*Please specify*):
4. Country of Registration:
5. Registered Office/Place of Business:
6. Telephone No; Fax No; E-Mail Address
7. Name of Authorized Contact Person / Designation/ Address/Telephone:
8. Name of Authorized Local Agent /Address/Telephone:
9. Consultant's Organization:
10. Total number of staff:
11. Number of regular professional staff:

*(Provide Company Profile with description of the background and organization of the Consultant and, if applicable, for each joint venture partner for this assignment.)*

**Standard EOI Document**

**3. Experience**

**3(A). General Work Experience**

*(Details of assignments undertaken. Each consultant or member of a JV must fill in this form.)*

<b>S. N.</b>	<b>Name of assignment</b>	<b>Location</b>	<b>Value of Contract</b>	<b>Year Completed</b>	<b>Client</b>	<b>Description of work carried out</b>
1.						
2.						
3.						
4.						
5.						
6.						
7.						

**Standard EOI Document**

**3(B). Specific Experience**

**Details of similar assignments undertaken in the previous seven years**

*(In case of joint venture of two or more firms to be filled separately for each constituent member)*

Assignment name:	Approx. value of the contract (in current NRs; US\$ or Euro) <sup>2</sup> :
Country: Location within country:	Duration of assignment (months):
Name of Client:	Total No. of person-months of the assignment:
Address:	Approx. value of the services provided by your firm under the contract (in current NRs; US\$ or Euro):
Start date (month/year): Completion date (month/year):	No. of professional person-months provided by the joint venture partners or the Sub-Consultants:
Name of joint venture partner or sub-Consultants, if any:	Narrative description of Project:
Description of actual services provided in the assignment:  <b>Note: Provide highlight on similar services provided by the consultant as required by the EOI assignment.</b>	

Firm's Name: \_\_\_\_\_

<sup>2</sup> Consultant should state value in the currency as mentioned in the contract

**Standard EOI Document**

**3(C). Geographic Experience**

**Experience of working in similar geographic region or country**

*(In case of joint venture of two or more firms to be filled separately for each constituent member)*

<b>No</b>	<b>Name of the Project</b>	<b>Location (Country/ Region)</b>	<b>Execution Year and Duration</b>
1.			
2.			
3.			
4.			
5.			
6.			
7.			

**Standard EOI Document**

**4. Capacity**

**4(A). Financial Capacity**

*(In case of joint venture of two or more firms to be filled separately for each constituent member)*

<b>Annual Turnover</b>	
<b>Year</b>	<b>Amount Currency</b>

- **Average Annual Turnover**

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*(Note: Supporting documents for Average Turnover should be submitted for the above.)*

**Standard EOI Document**

**4(B). Infrastructure/equipment related to the proposed assignment<sup>3</sup>**

<b>No</b>	<b>Infrastructure/equipment Required</b>	<b>Requirements Description</b>
<b>1.</b>		
<b>2.</b>		
<b>3.</b>		
<b>4.</b>		
<b>5.</b>		

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<sup>3</sup> Delete this table if infrastructure/equipment for the proposed assignment is not required.

**Standard EOI Document**

**5. Key Experts** *(Include details of Key Experts only)*

*(In case of joint venture of two or more firms to be filled separately for each constituent member)*

<b>SN</b>	<b>Name</b>	<b>Position</b>	<b>Highest Qualification</b>	<b>Work Experience (in year)</b>	<b>Specific Work Experience (in year)</b>	<b>Nationality</b>
1						
2						
3						
4						
5						

(Please insert more rows as necessary)