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Government of Nepal  
Ministry of Energy  
**Department of Electricity Development**  
Anamnagar

**Expression of Interest (EOI)**

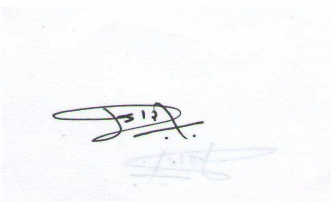
*For*

Feasibility Study and Initial Environmental  
Examination (IEE) Study of Lower Chamelia  
Hydropower Project (20 MW)

Job No. : **2071/72-8**

Budget Head: **308106-4**

**March, 2015**





**Government of Nepal**  
**Ministry of Energy**  
**Department of Electricity Development**  
**Anamnagar**

**Invitation for Expression of Interest (EoI) for Consultancy Services**

**(Date of First Publication 2071-12-5)**

1. As per the program for fiscal year 2071/72, the Government of Nepal (GoN) intends to conduct the following jobs as indicated in the table below using funds allocated by GoN. Hence, Department of Electricity Development (DoED) intends to prepare separate lists of competent local consulting firms for each of the Jobs indicated below. This Invitation for Expression of Interest (EoI) is made to invite applications from interested and eligible local consulting firms registered in Nepal under GoN rules & regulations and/or their joint ventures (JV) for the jobs.

<b>Job No.</b>	<b>Job Title</b>
2071/72-8	<b>Feasibility Study and Initial Environment Examine (IEE) Study of Lower Chamelia Hydropower Project (20 MW)</b>
2071/72-11	<b>Detail Geo-Technical Studies Including Topographical Survey Studies of Sharda-Babai Hydropower Project (93 MW), Salyan/Dang</b>
2071/72-16	<b>Environmental and Social Impact Study of Karnali (Chisapani) Multipurpose Project</b>
2071/72-17	<b>Energy Price and Power Market Study of Karnali (Chisapani) Multipurpose Project</b>
2071/72-18	<b>Detailed Engineering Design of Siwa Khola Small Hydropower Project</b>
2071/72-19	<b>Detailed Engineering Design of Lower Hongu Khola Small Hydropower Project</b>
2071/72-20	<b>Detailed Engineering Design of Inkhu Khola Small Hydropower Project</b>
2071/72-21	<b>Detailed Engineering Design of Budhi Ganga Khola Small Hydropower Project</b>
2071/72-22	<b>Pre-feasibility study of Upper Jhimruk Storage Project</b>
2071/72-23	<b>Rehabilitation of hydrological station and installation of cable way for hydrological/sediment observation, updating &amp; collection of hydrological/sediment data, &amp; Hydrological Model study at Chisapani, Karnali River</b>

2. The consulting firm can apply either singly or in JV. The number of consulting firms in a JV should not exceed three including the lead firm. In addition, same consulting firm is not allowed to enter into more than one JV for the same Job.



3. EoI documents could be obtained free of cost during office hours on all government working days within 15<sup>th</sup> day of first date of publication of this notice from Procurement Unit of DoED or can be downloaded from the website <http://www.doed.gov.np> or <http://www.moen.gov.np>. The instructions to applicants, prescribed formats, evaluation criteria, and detail information as well as the indicative Terms of Reference for the Job is provided in Annex along with EoI document.
4. Duly completed EoI documents in hard copy should be submitted for each Job separately to the address mentioned below clearly mentioning the name of the Job in sealed envelopes before 12 Noon (NST-Nepal Standard Time) within 16<sup>th</sup> day of first publication of this notice :

The Director General  
Department of Electricity Development  
Anamnagar, Kathmandu  
Tel: 4480326, Fax: 4480257, Email: info@doed.gov.np

5. If the deadline specified herein falls on a government holiday, the deadline shall be extended automatically to the next working day at the same hour.
6. Duly completed EoI documents received after the due date & time, shall be considered late, summarily rejected and returned un-opened.
7. The completed EoI documents received by the due date and within the specified time shall be opened at 14:00 (NST) on the 16<sup>th</sup> day of first date of publication of this notice in the presence of the applicants or their authorized representative who-so-ever wish to attend. Absence of the applicant or their authorized representatives, however, shall not obstruct or prevent the opening of the EoI in any way.
8. The EoI documents received from the applicants will be evaluated on the basis of the approved eligibility and evaluation criteria. The evaluation of EoI application of JV consulting firm(s) will be done in cumulative basis. Only six top ranked consulting firm obtaining at least 50 % marks in the EoI evaluation process will be shortlisted for each job and considered as qualified firms.
9. Request for Proposal (RFP) for each Job will be issued to qualified short listed firms for respective Job for the submission of Technical and Financial Proposal. The Quality and Cost Based Selection (QCBS) procedure will be used for final selection of the consulting firm.
10. DoED reserves the right to accept or reject any or all EoI applications with or without giving any reason whatsoever.
11. Further information on this EoI can be obtained from above address of DoED during office hours in all working days prior to the deadline of submission of EoI.

# 1. INSTRUCTIONS TO APPLICANTS



## 1.1 INTRODUCTION

### 1.1.1 *Scope of Qualification*

The Department of Electricity Development (DoED) intends to prepare lists of competent local consulting firms to conduct studies for the feasibility study and Initial Environmental Examination (IEE) Study of Lower Chamelia Hydropower Project (20 MW), Darchula /Baitadi . This Invitation for Expression of Interest (EoI) is made to invite applications from interested and eligible local consulting firms registered in Nepal under GoN rules & regulations and/or their joint ventures separately for the job.

### 1.1.2 *Definition of Terms*

Unless otherwise specified, the following terms used in this EoI have the following meanings:

“Applicant” means a single consulting firm or their joint venture that intends to submit or submit completed EoI document as per notice and this EoI document.

“Authorized Representative” means an individual authorized by the Applicant as the duly authorized entity to legally bind the Applicant to the EoI process, is the authorized signatory to the process, and is the point of contact for DoED in connection with the process.

“Bidder” means a successful Applicant those are short listed under this EoI and submits Technical and Financial proposal in response to RFP.

“DoED” means the "Department of Electricity Development".

“EIA” means "Environmental Impact Assessment".

"EPA " means "Environment Protection Act, 1997"

"EPR " means "Environment Protection Regulation, 1997"

“GoN” means "Government of Nepal".

“IEE” means "Initial Environmental Examination".

“IT” means "Income Tax".

“JV” means "Joint Venture".

“Lead Firm” means an entity or firm that is the authorized leader of a team comprising the Lead Firm and its constituents to submit the EoI and perform the assignment.

“EoI” means "Expression of Interest".

“MOSTE” means "Ministry of Science, Technology and Environment ".

“MOEn” means Ministry of Energy.

“NEA” means Nepal Electricity Authority

“PRoR” means Pondage run of river

“RoR” means Run of river

“Project” means the Hydropower Project intended for study under this EoI and RFP.

“RFP” means a Request for Proposal.

"T/L" means Transmission Line.

“TOR” means "Terms of Reference".

“VAT” means "Value Added Tax".



## 1.2 GENERAL INSTRUCTION TO CONSULTANTS

### 1.2.1 Clarification on EOI Documents

A prospective Applicant requiring any clarification on this EOI document may seek clarification by contacting DoED during office hours on all working days prior to the deadline for submission of the completed EOI document at the address mentioned below

Contact person

**Sandip Kumar Dev**

Superintendent Engineer

Procurement Unit

DoED, Anamnagar, Kathmandu

Tel:- 4480218, 4480276, 4496800 Ext:-3202 Fax:- 4480257

### 1.2.2 Amendment to EOI Documents

1. At any time prior to the deadline for the submission of the completed EOI document, DoED may amend the EOI, for any reason, whether on its own initiative or in response to a clarification requested by an Applicant.
2. All Applicants will be notified in writing about the amendments. All Applicants will be bound by the amendments. Applicants will be required to acknowledge receipt of any amendment within three business days of such receipt. Otherwise, DoED will assume that the information contained in the amendment is taken into account by the Applicant in its Application.

### 1.2.3 Cost of Preparation of EOI and Liability

Applicant shall bear all costs associated with the preparation and submission of the EOI document. DoED will, in no case, be responsible or liable for these costs, or have any other liability to any Applicant, regardless of the conduct or outcome of the EOI process. DoED shall have no obligation to any Applicant to reimburse any costs incurred in preparing a response to this EOI.

### 1.2.4 Confidentiality of the Document

If an Applicant believes that any portion of the submittal is to be treated in confidence, he/she shall identify such information clearly in the submittal. DoED will make every effort to treat such documents in confidence as far as possible.

### 1.2.5 Joint Liability for Joint Venture Firms

By submitting an EoI in joint venture, the Applicant represents that, if qualified and if awarded the contract after the RFP process, the Applicant with its constituent members shall be jointly responsible to perform the obligations of such contract.



### 1.3 SUBMISSION OF EXPRESSION OF INTEREST (EOI)

#### 1.3.1 *Sealing and Marking*

1. The Applicant shall seal the one original and one copy of the completed EoI in separate envelopes, duly marking the envelopes as “Original” and “Copy”. These envelopes shall then be sealed in an outer envelope and marked as “Expression of Interest”. The inner as well as outer envelope shall clearly mention the Job number and title of consulting Job.
2. The inner and the outer envelopes shall be addressed to:  
The Director General  
Department of Electricity Development  
Anamnagar, Kathmandu  
Tel: 4480326, Fax: 4480257
3. The envelopes shall also indicate the name and address of the Applicant for identification purposes.
4. The Applicant shall also submit an electronic copy of the EOI documents. However, the evaluation of the EOI document shall be done only based on the hard copy of the EOI application submitted by the applicant.

#### 1.3.2 *Deadline for Submission*

1. The completed EOI document must be submitted to DoED at the address specified in Section 1.3.1 before 12:00 hr Nepal Standard Time (NST) **within 16<sup>th</sup> day from the date of first publication of this notice.**
2. The completed EOI documents received by DoED after the deadline set forth in Section 1.3.2 (1) shall be considered late and shall be summarily rejected and returned un-opened.
3. If the deadline specified herein falls on a government holiday, the deadline shall be extended automatically to the next working day at the same hour.

#### 1.3.3 *Withdrawal of EOI document*

An Applicant shall not be permitted to withdraw the EOI Application that has been submitted.

### 1.4 PUBLIC OPENING OF SUBMITTED EOI DOCUMENT

The completed EOI documents received by the due date and within the time specified in Clause 1.3.2 (1) will be opened at 14.00 hrs NST on the 16<sup>th</sup> day of first date of publication of this notice in the presence of the applicants or their authorized representative who-so-ever wish to attend. Absence of the Applicant or their authorized representative, however, shall not obstruct or prevent the opening of the EoI in any way. Applicants' each designated representative must bring a letter from the Applicant stating that he/she is authorized to represent the applicants for the public opening of the EOI document. Applicants or their



authorized representatives who are present at the time of opening shall sign in a register evidencing their presence.

During the opening, an authorized representative of DoED will read out the names of the applicants who have submitted the completed EOI document and then will open the submitted EOI envelopes.

## 1.5 PREPARATION OF THE EOI DOCUMENT

Detail procedure for preparation of EOI documents is given in section – 2.

## 1.6 EVALUATION PROCESS

DoED will carry out evaluation of the EOI documents based on the criteria approved by DoED. Anything not mentioned in this document regarding the EOI process shall be governed by the prevailing Public Procurement Acts and Regulations of Nepal.

The evaluation of EoI documents will be done in two stages (i) Screening of EoI Document of all firms for eligibility; and (ii) Evaluation of EoI document of eligible firms.

### 1.6.1 Screening of EoI Documents

All EOI documents received and duly opened as per Clause 1.4 of this document shall be screened to determine the eligibility of the Applicant. The basic criteria shall be as given in the attached Form A-4. The information/data provided in the form will be scrutinized to determine the eligibility of the Applicant. Only the Applicants fulfilling all the requirements will be considered as eligible for further consideration.

### 1.6.2 Detailed Evaluation of EoI documents

Applicants fulfilling the eligibility requirements as mentioned in Clause 1.6.1 will be further evaluated based on financial capability, experience of the Applicant in similar projects and specific experience of experts proposed for the study. Ongoing and planned projects shall not be considered for evaluation.

A scoring system is adopted to rank the Applicants in the order of merit based on the criteria. The maximum overall score that any Applicant can obtain is set at **100 Marks** and is distributed as follows:

S No	Description	Marks
1	Financial Capability of the Firm	20
2	Experience of the Firm	55
3	Proposed Key Professionals for the Study	25

The qualification criteria in each category has been further

**Detail Evaluation Criteria of the EOI document are as follows:**

S No	Description	Weightage	Marks
1	Financial Capability of the Firm Average Annual Turnover (AAT) in million NRs for best three years of last five consecutive fiscal years		<b>20</b>
	Cumulative AAT for JV	Single Entity	
	> 40	> 30	100 %
	30 to 40	20 to 30	85 %
	20 to 30	10 to 20	70 %
	< 20	< 10	0 %
2	<b>Experience of the Firm</b>		<b>55</b>
I	<b>General Work Experience of the firm</b>		10
A	More than 15 years of experience	100%	
B	10 to 15 years of experience	85%	
C	5 to less than 10 years of experience	70%	
D	Less than 5 years of experience	0%	
II	<b>Work experience of the firm in Feasibility Study or Detail Engineering Design of Hydropower Projects with capacity more than 5 MW in last 5 Years</b>		30
A	cumulative capacity of more than 50 MW	100 %	
B	cumulative capacity of more than 25 MW to 50 MW	85 %	
C	cumulative capacity of more than 10 MW to 25 MW	70 %	
D	cumulative capacity of less than 10 MW	0 %	
III	<b>Work experience of the firm in EIA or IEE Study in last 5 Years.</b>		15
A	Experience in EIA study of hydropower project	100 %	
B	Experience in IEE of Hydropower project	85 %	
C	Experience in IEE or EIA study of transmission line or other water resources projects.	70 %	
3	<b>Proposed Key Professionals for the Study (Qualification &amp; Experience)</b>		<b>25</b>
I	<b>Qualification of the Key Personnel:</b> Marks will be equally distributed among the list of key Personnel /Professionals		5
A	Ph. D. / Master Degree Holders	100 %	
B	Bachelor Degree Holders	85 %	
II	<b>Experience of the Key Professionals:</b>		<b>20</b>
A	Team Leader (Minimum 20 years of experience with Masters degree in relevant subject)	3.0	3
B	Hydropower Engineer and Environmental Study Team Leader (Minimum 15 years of experience with Masters degree in relevant subject)	2 x 2 = 4.0	4
C	Remaining others 13 Key Personnel/Professionals (Minimum 10 years of experience with Bachelor degree in relevant subject)	1.0 x 13 = 13	13
	<b>TOTAL MARKS</b>		<b>100</b>



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Note:

- a) The relevant figures/numbers of the each members of joint venture shall be added together to calculate cumulative figures/numbers of the joint venture's for the purpose of evaluation.
- b) The experience of the firm should be supported with evidence/proof in the form of experience/ completion certificates showing the project size and date of completion of the assignment. The experience of the firm without evidence/proof will not be considered for evaluation.
- c) The professionals hired from outside or part time/resource person will be evaluated with only 80 % weightage.
- d) Employee of Government or Semi Government or Government affiliated institution's employee need to submit official no objection letter to provide consultancy services. Failure to submit no objection letter for these professionals, evaluation of such professionals will not be done.
- e) If the same key professional is proposed by two or more firms/JV for the jobs listed in the Notice (invitation for EoI for consultancy services dated.....), marks will not be given for such professional.
- f) Similarly, same key personnel should not be proposed for more than one designation. If proposed so, marks will not be given for such professional.


#### **List of Key Personnel/Professionals**

- 1 Team Leader
- 2 Hydropower Engineer
- 3 Senior Surveyor
- 4 Engineering Geologist
- 5 Geotechnical Engineer
- 6 Hydrologist
- 7 Hydraulic Engineer
- 8 Electrical Engineer
- 9 Mechanical Engineer
- 10 Cost Estimator (Civil Engineer)
- 11 Economist (Financial Analyst)
- 12 Environmental Study Team Leader
- 13 Environmental Engineer
- 14 Sociologist/Anthropologist
- 15 Zoologist/Aquatic Life Expert
- 16 Botanist/Ecologist/Forest Expert

#### **1.6.4 Shortlisting of the Applicants**

Only six top ranked Applicants obtaining at least 50 % marks in the EoI evaluation process will be shortlisted and considered as qualified firms.

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Request for Proposal (RFP) will be issued to qualified short listed firms for respective Job for the submission of Technical and Financial Proposal. The Quality and Cost Based Selection (QCBS) procedure will be used for final selection of the consulting firm.

#### **1.6.5 Clarification during Evaluation by DoED**

1. During the evaluation, DoED may request the Applicant for necessary clarifications. The Applicant shall furnish the necessary clarifications expeditiously by post/courier/fax/e-mail or by any other means of communication to DoED at the address given in Clause - 1.2.1.
2. Failure to provide information essential clarification, or to provide timely clarifications or substantiation of the information furnished, DoED would be at liberty to declare such Applicant as non-responsive and reject his/her document.

#### **1.6.6 Rejection of EOI Document of Applicant**

1. DoED reserves the right to accept or reject any or all EOI proposals with or without giving any reason whatsoever and is not liable for any losses to Applicants due to such rejection.
2. Furnishing of false or wrong information, document or evidence by any firm or joint venture may result in rejection of the EOI document of the firm or their joint ventures. In addition in such cases, legal action shall be taken as per prevailing rules and regulations.

### **1.7 NOTICE OF RESULT OF EVALUATION**

All applicants irrespective of the qualified or non-qualified will be notified in writing the result of evaluation of qualification in due course of time. Applicants listed in the short-listing will be considered as qualified firm and will be invited to participate in the Request for Proposal process.

### **1.8 INDICATIVE SCOPE OF WORKS**

The information regarding the project and project area, scope of work etc are provided in Indicative Scope of Works in Annex.

## 2. PREPARATION OF EOI APPLICATION

The EOI document shall be structured in accordance with the outlines given in the EOI form and must contain accurate and complete information as requested in the EOI form. **The EOI document shall have no interlineations or overwriting, except as necessary to correct errors made by the Consulting Firm itself. Any such correction must be initialed by the person authorized to sign the application and stamped with the firm's seal.**

### 2.1.1 Documents for EOI

The completed EOI documents to be submitted by Applicants shall comprise of the following documents:

#### Information Regarding Technical & Financial Capability of the Consulting Firm

Form Type	Description/Content
<b>Form A</b>	General Information
<b>Form A-1</b>	Letter of Submission
<b>Form A-2</b>	Joint Venture Information
<b>Form A-3</b>	Self Declaration Form
<b>Form A-4</b>	Eligibility Status
<b>Form A-5</b>	Identification of the Consulting Firm
<b>Form A-6</b>	Financial Capability of the Consulting Firm
<b>Form B</b>	Relevant Work Experience of the Firm
<b>Form B-1</b>	Relevant Work Experience of the Firm in Feasibility studies/Detailed Engineering studies of Hydropower projects
<b>Form B-2</b>	Relevant Work Experience of the Firm in EIA/IEE Study of Hydropower and other Projects
<b>Form B-3</b>	Details of Form B-1 and B-2
<b>Form C</b>	Details of Key Professional Staffs to be Deployed for Study

**Note: The EOI documents should be prepared and submitted in above mentioned sequence providing supporting documents with respective Form.**

### 2.1.2 General Information

1. The Applicant shall provide a Letter of Submittal with completed forms as provided in the Format Forms A to C in the EOI document. All necessary information shall be presented to demonstrate the firm/joint venture's eligibility, capability, experience and professionals to be deployed for the study.
2. The Applicant shall enclose notarized copies of registration certificate, VAT certificate, and Tax clearance certificate. The applicants shall also enclose notarized copies of experience certificate or completion certificate, audit report of last five years and other relevant information.



**LETTER OF SUBMISSION**

*[Letterhead of the Applicant, In case of Joint Venture, of the Lead Firm)*

Date: .....

To:  
The Director General  
Department of Electricity Development  
Anamnagar, Kathmandu,  
Nepal

Sirs,

Being duly authorized to represent and act on behalf of .....

.....  
(hereinafter “the Applicant”), and having reviewed and fully understood all the information provided in EOI, the undersigned hereby apply for qualification by DOED as a consultant for the .....

1. DOED and its authorized representatives are hereby authorized to verify the statements, documents, and information submitted in connection with the submitted EOI. This Letter 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 you to verify statements and information provided in this EOI, or with regard to the resources, experience, and competence of the Applicant.
2. DOED and its authorized representatives are authorized to contact any of the signatories to this letter for any further information.
3. This application is made in the full understanding that all decisions by DOED related to this EOI are final, binding and not subject to review. DOED shall be under no obligation to inform the Applicant of the reasons for its decisions or actions.
4. The Applicant hereby provides willingness and commitment to abide by all applicable laws, regulations, and other requirements having the effect of law in the execution of this study, if selected.
5. All further communication concerning this EOI proposal should be addressed to the following person who is authorized to represent and to receive all communication on behalf of the Applicant and its constituents.

[Person & Designation]  
[Company]  
[Address]  
[Phone, Fax, Email]

6. The undersigned declare that the statements made and the information provided in the duly completed EOI proposal are complete, true and correct in every detail.



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Signed :

Name :

Designation :

For and on behalf of (Name of Applicant :  
or Lead Firm in the joint venture)

FORM A-2



**JOINT VENTURE INFORMATION**

If the EOI is being submitted in Joint Venture, provide Joint Venture Information

SN	NAME OF FIRM	Postal Address, TEL, FAX and E-mail	NAME OF CONTACT PERSON	TELEPHONE OF CONTACT PERSON	SHARE PERCENTAGE IN JV
1.	Lead Firm:				
2.	Partner Firm:				
3.	Partner Firm:				

Note:

1. Maximum three (3) Firms can make Joint Venture.
2. In case of JV, the minimum share percentage of lead firm must be 40. Also the lead firm should hold the power of attorney.
3. Provide duly signed and stamped joint venture agreement and power of attorney of the signatories by each member in the JV.

**Attachment**

1. Joint Venture Agreement
2. Power of attorney of the signatory (ies) of the Applicants

Yes/No



FORM A-3

**SELF DECLARATION FORM**

Date:.....

To,  
Director General  
Department of Electricity Development  
Anamnagar, Kathmandu

Sir,

We, .....  
(name of all Consulting Firm) declare that we are legally eligible to participate in the procurement process of consulting services for the ..... (title of consulting service).

We also declare that we do not have any conflict of interest in the said assignment.

We hereby also declare that we have not received any punishment while doing consulting business in the last five years.

*Note: (If any member of the consulting Firm is not eligible to participate in procurement process or has conflict of interest in the said assignment or has received any punishment while doing consulting business in the last five years, the same must be clearly mentioned in this form. Any history of litigation during the last five years shall also be declared here along with the relevant verdict.)*

**(Note: Each Consultant in JV need to submit Self Declaration document either jointly or individually with original signed and stamped with company seal together with EoI document)**



## ELIGIBILITY STATUS

### A. Eligibility Requirement

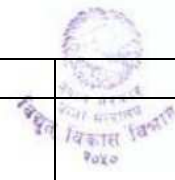
S No	Description	Status	Remarks
1	Notarized Copy of Valid Registration Certificate		
2	Notarized Copy of VAT Certificate		
3	Notarized Copy of Income Tax Clearance Certificate for FY 069/70 or Income Tax clearance /submission certificate for FY 070/71.		
4	Self Declaration as per clause 40 – 2 (e) of Public Procurement Rule, 2064 mentioning their eligibility, non-conflict of interest, non receipt of any punishment while doing consulting business		

Note: Each member of the JV shall submit the above eligibility documents.

In addition in case of Joint Venture, following documents should be provided

S No	Description	Status	Remarks
i	Joint Venture Agreement between the JV Partners duly signed & stamped with company seal by each member & clearly mentioning name of the lead firm, name of JV partners, role and responsibility of each member, name and signature of the authorized signatories. (In any case, the firms are not allowed to enter into more than one joint venture for same job)		
ii	Power of attorney of authorized signatories of JV agreement from their respective firm with signature & seal for each member of JV.		
iii	The total number of consulting firms including the lead firm should not exceed a maximum		





	of three numbers in joint venture		
iv	The minimum share percentage of the lead firm should be at least 40% and that of other JV partners should be at least 20%.		
v	Power of attorney to lead firm from JV partners		
vi	The lead firm should have an Average Annual Turnover of at least NRs. 20 million on average in the best three fiscal years among last five consecutive fiscal years.	AAT of the Lead Firm = ..... M NRs	

Consulting firm or any member of joint ventures, failing to submit above basic criteria or if do not meet eligibility criteria mentioned above, the consulting firm will be considered as non-eligible and will not be considered for further evaluation.

*The supporting documents in the form of copies of registration certificate, VAT Certificate and Tax Clearance/Submission Certificate shall be attached here:*



## IDENTIFICATION OF THE CONSULTING FIRM

Full name of the Firm:

Address:

Telephone number: Fax number: E-mail: Others:	<b>Year of Establishment:</b> Number of Years since establishment:
<b>Corporate Registration:</b> Date of Registration: Registration No: Date of last renewal: Valid up to:	<b>VAT Registration:</b> Date of Registration: VAT Registration No:
<b>Name and address of contact person:</b> Name and Designation of Contact Person: Address:  Telephone number (Office): Telephone number (Residence) : Mobile no: Fax: Email:	

*Note: In case of the applicant being joint venture, provide similar information for each member in the joint venture separately*



## FINANCIAL CAPABILITY OF THE CONSULTING FIRM

Full name of the Consulting Firm:

### FINANCIAL STATUS

#### Turn Over of last five consecutive fiscal years

Description	FY .....	FY .....	FY .....	FY .....	FY .....
<b>Turnover (NRs.)</b>					

Note:

1. Provide similar information for each member in case of joint venture.
2. Submit Audited Reports of last five consecutive fiscal years



## FORM B-1

(RELEVANT WORK EXPERIENCE OF THE FIRM IN FEASIBILITY STUDIES/DETAILED ENGINEERING STUDIES OF HYDROPOWER PROJECTS)

### (WORK EXPERIENCE OF THE FIRM IN HYDROPOWER PROJECTS)

S. N.	NAME OF PROJECT	LOCATION/	CLIENT	VALUE OF CONTRACT	YEAR OF COMPLETION	DESCRIPTION OF RELEVANT WORK CARRIED OUT
1.						
2.						
3.						
4.						

Note: **Details of the work completed by Consulting Firm (s) should be filled in Form B-3**

Date:

Signature & Designation of Applicant:

Seal of the Firm



**FORM B-2**

**RELEVANT WORK EXPERIENCE OF THE FIRM IN EIA/IEE STUDY OF HYDROPOWER AND OTHER PROJECTS (IN LAST FIVE YEARS)**

**(WORK EXPERIENCE OF THE FIRM IN EIA/IEE STUDY OF HYDROPOWER AND OTHER PROJECTS)**

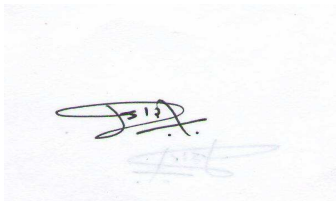
S. N.	NAME OF PROJECT (MENTION THE CAPACITY OF HYDROPOWER PROJECT STUDIED)	LOCATION	CLIENT	VALUE OF CONTRACT	YEAR OF COMPLETION	DESCRIPTION OF RELEVANT WORK CARRIED OUT
1.						
2.						
3.						
4.						

Note: **Details of the work completed by Consulting Firm (s) should be filled in Form B-3**

Date:

Signature & Designation of Applicant:

Seal of the Firm





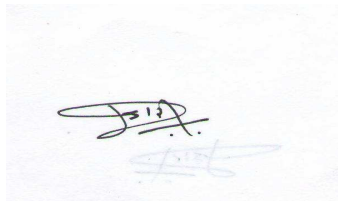
## FORM B-3

### DETAILS OF FORM B-1 AND B-2

(DETAILS OF THE WORKS SHOWN IN FORM B-1, FORM B-2)

"The following information should be provided in the format indicated for each reference project for which your company, either individually as a corporate entity or as a one of the major companies within a consortium as legally contracted by the client stated below".

<b>Project Name:</b>		<b>Country:</b>
Project Location:		Professional Staff Provided by your Company:
Name of client:		No. Staff:
		No. of Man-months:
Start Date: (Month/Year)	Completion Date: (Month/Year)	Approximate Value of Services:
Name of associated firm(s) if any:		No. of man-months of Professional Staff provided by associated firm(s).
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed:		
Detailed Narrative Description of Project;		
Detailed Description of actual Services Provided by your company:		





FORM - C

**DETAILS OF KEY PROFESSIONAL STAFF TO BE DEPLOYED FOR THE STUDY**

S. N.	DESIGNATION	NAME	QUALIFICATION (INCLUDING UNIVERSITY & YEAR OF DEGREE OBTAINED)	YEARS WITH COMPANY	TOTAL YEARS OF EXPERIENCE	FULL OR PART TIME
1.	Team Leader					
2.	Hydropower Engineer					
3.	Senior Surveyor					
4.	Engineering Geologist					
5.	Geotechnical Engineer					
6.	Hydrologist					
7.	Hydraulic Engineer					
8.	Electrical Engineer					
9.	Mechanical Engineer					
10.	Cost Estimator (Civil Engineer)					
11.	Economist (Financial Analyst)					
12.	Environmental Study Team Leader					
13.	Environmental Engineer					
14.	Sociologist/Anthropologist					



S. N.	DESIGNATION	NAME	QUALIFICATION (INCLUDING UNIVERSITY & YEAR OF DEGREE OBTAINED)	YEARS WITH COMPANY	TOTAL YEARS OF EXPERIENCE	FULL OR PART TIME
15.	Zoologist/Aquatic Life Expert					
16.	Botanist/Ecologist/Forest Expert					

Date:

Signature & Designation of Applicant:

Seal of the Firm





## SCOPE OF WORK

### Objective

The main objective of the consulting service is to conduct the Feasibility Study including the IEE study of the Hydropower Projects, which means that the objective of the proposed study is to examine technical and financial as well as economic viability of the project. The objective is also to conduct an IEE study based on the plan and design of the project proposed at feasibility level. The output should be in the form of a bankable report that will analyze and document all important aspects required for the formal approval of the Project by concerned government authorities of Nepal, and to serve as a basis when inviting participation for the implementation of the Project by private investors. As such, the Feasibility Study shall include all relevant baseline investigations, assessments and plans, drawings and cost estimates regarding technical, economic/financial, environmental, and socio-economic aspects. The IEE constitutes an integral part of the Feasibility Study in conformity with the environmental legislation of Nepal.

### Scope of Consulting Services

The prime task is to carry out the Feasibility Study including IEE study. Thus the scopes of the consulting services shall be as described in the following sections. The Consultant shall elaborate the work plan for all activities contemplated to complete the job that will be performed during the course of the study work. The consultant shall submit all the drawings, formats, methods of cataloging engineering calculations and reports to DoED for review. If DoED requires any changes, they shall be incorporated accordingly. However, the Inception Report must be accepted by DoED before any further work is embarked upon. The plant capacity should be designed based on the optimization process.

The Consultant shall review all available, relevant reports, data and information and collect the data so required. The Consultant shall then identify and recommend the extent of studies that will be necessary to complete the full feasibility study of the project.

Additional topographic surveys and field investigations shall be described in the proposal and a program for this work shall be further detailed and updated and reported on in the Inception Report. The specifications for the surveys and investigations will be as stated below.

The work plan prepared as part of the proposal shall be updated in light of the information collected, and the program for surveys and field investigations. The work plan shall show all contemplated activities which will be performed during the course of the study work. The work shall be broken down into discrete elements and the duration, scheduling, and resources required for each element shall be displayed on bar charts (Gant Diagrams).

The consulting service is divided into two components:

- a) Feasibility Study, and
- b) Initial Environmental Examinations (IEE) Study of Lower Chamelia.

Both of those services shall be carried out simultaneously. The Feasibility Study report shall contain, apart from other studies a short description of the IEE component, while the detailed report on IEE shall be presented separately. The Feasibility Study shall be carried out in accordance with this TOR. For any other matters not covered in the TOR, the consultant should refer to the Guidelines for Study of Hydropower Projects (December 2003). IEE study shall be carried out in accordance with the TOR approved by the Ministry of Energy as per requirements of

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the Environmental Protection Act, 1997 and Environmental Protection Rule 1997 and its amendments.



The scope of work to be carried out on this feasibility study includes, but not limited to;

- Topographical Survey, L-section/ x-section survey
- Hydrological, Sediment and Meteorological Studies including available data collection
- Engineering Geological Mapping
- Geophysical Surveys (2D ERT Survey or Seismic Refraction)
- Alternative configuration studies
- Drilling and field testing
- Construction material survey and testing
- Test pitting and trenching
- Test on core samples
- Transmission Line Survey
- Optimization studies
- Project Layout and Design
- Power evacuation study
- Construction Planning
- Cost Estimates
- Economic Evaluation
- Financial Analysis
- Sensitivity Analysis

Similarly the Consultant shall carry out the Initial Environmental Examinations (IEE) study of the project. The IEE study will be carried out by the IEE team of the Consultant in conjunction with the technical team of experts for the feasibility study. A separate detailed report of IEE shall be submitted to DoED. The IEE study shall be carried out in accordance with the Environment Protection Act, 2053 and the Environment Protection Rule, 2054.

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## GENERAL INFORMATION OF THE PROJECT



### Project Description of Lower Chamelia Hydropower Project (LCHP)

#### a) Location

Lower Chamelia Hydropower Project (LCHP) is located in Darchula/Baitadi district of the Far western Development Region of Nepal. The proposed intake of the project lies in Naugau village of Rudreshwor VDC, Darchula District at approximately 80° 36'30" E longitude and 29° 41'30" N latitude and Powerhouse site lies along the left Bank of Chamelia river, just at Naginigau of Dilasaini VDC Baitadi District. Approximate coordinate of proposed powerhouse at latitudes 29° 40' 22" N and longitudes 80° 33' 46" E.. The nearest airport is Gokuleshowar, which is 3-5 km along the project site.

#### b) Hydrology

Lower Chamelia Hydropower Head work site has total catchment area of 1084 km<sup>2</sup> at intake. There is no discharge measuring gauging station but Chamelia Project of NEA is under construction and tailrace will be utilized for this project. The mean annual flow estimated at intake is 23.10 m<sup>3</sup>/sec based on private sector proposal submitted to doed. The design flow is taken as 16.90 m<sup>3</sup>/sec at Q90 design discharge and Q40 is 36.40. The minimum and the maximum flow are 12.0 m<sup>3</sup>/s and 178.35 m<sup>3</sup>/s respectively.

#### c) Layout

Lower Chamelia Hydropower project is a run of river project. The available gross head is 67.50 m and the design discharge is 36.4 m<sup>3</sup>/sec giving a total installed capacity of 20 MW. The intake site is proposed in the tailrace outlet portion of the Chamelia Hydropower Project underconstruction by NEA the state owned company. The intake level is proposed at elevation of 750.00 m m.s.l. The Conveyance system is proposed a cannel of length around 200 m and headrace pipe of length 4500m or cannel as suitable up to it the proposed forbay site. Later, the design flow for power generation is conveyed from Surge tank to powerhouse by a 100 m long steel penstock pipe. Surface powerhouse is proposed on the left bank of the Chamelia river at elevation about 700 m m.s.l.

#### d) Energy

About 132.92 GWh annual energy will be generated through this project.

#### e) Access

The project area has access is available of Chamelia Project and Baitadi Gokulashwar Road. About 2 km project road need to be constructed.

#### g) Transmission

The nearest substation from the project site proposed at Chamelia substation which is approximately 8 Km far from proposed powerhouse site. It is proposed substation site to be constructed by Nepal Electricity Authority.

**Note:** This project description is based on Study Report submitted by a private Developer.

#### f) Project Layout diagram of Lower Chameliya Hydroelectric Project

