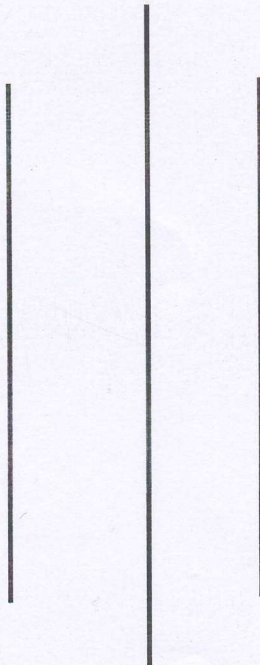




Nepal Investment Summit-2024



Government of Nepal
Ministry of Energy, Water Resources and Irrigation
Department of Electricity Development



Request for Expression of Interest (EOI)

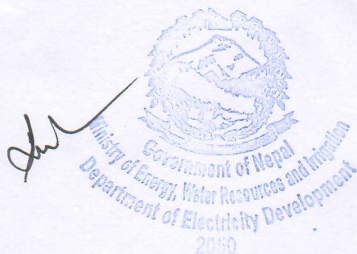
for

Project Name: Tom Dogar (Budhigandaki) Hydropower Project

Location: Gorkha, Nepal

EOI No.: NIS2024/DOED/EOI-01

EOI Issue Date: 28th April 2024



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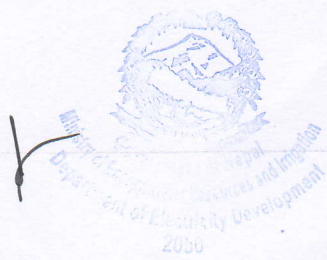
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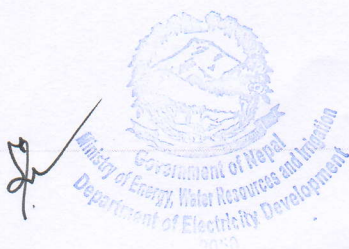


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ABBREVIATIONS

DOED	Department of Electricity Development
EOI	Expression of Interest
GoN	Government of Nepal
MoEWRI	Ministry of Energy Water Resources and Irrigation
NIS	Nepal Investment Summit
OIBN	Office of the Investment Board Nepal
PPP	Public-Private Partnership
RFP	Request for Proposal



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1 BRIEF DESCRIPTION

Investment Board Nepal is a high-powered agency chaired by Rt. Hon. Prime Minister established as a nodal agency for Public Private Partnership (PPP) and investment promotion in Nepal. Since its establishment, IBN has played an instrumental role in implementing transformative infrastructure projects fundamental to bolstering socio-economic development of the country. IBN has provided investment approvals – for both Public-Private-Partnership and direct private investment projects. Being guided by the Long-term Vision (2043), the 15th Plan and other subsequent policies of the Government of Nepal; and international commitments such as Sustainable Development Goals, IBN has been developing credible and bankable projects to garner investment.

The Third Nepal Investment Summit is scheduled for 28th & 29th April 2024. The main objective of the Summit is to promote Nepal as a promising investment destination and to attract domestic and foreign direct investment in various sectors in Nepal. The summit is expected to bring together prominent national and international speakers, dignitaries, sector specific experts and high-level government officials. During the Summit, various projects shall also be showcased to existing and new investors and developers.

A rigorous exercise has been undertaken to collect, evaluate, screen, and prepare projects for solicitation through EoI, market sounding, and other projects in pipeline. This expression of interest is issued at the NIS 2024 as per the Clause 16 of the Public Private Partnership and Investment Regulation 2077. The summit will also be an opportune venue for developers to meet potential investors for equity and debt portions in projects.

DOED is responsible for assisting the Ministry in implementation of overall government policies related to power/electricity sector. The major functions of the Department are to ensure transparency of regulatory framework, accommodate, promote and facilitate private sector's participation in power sector by providing "One Window" service and license to power projects. DoED has a provision of project bank for the projects studied by itself. Department intends to develop these projects under PPP model by selecting a developer through the competitive bidding. For Nepal Investment Summit-2024, the Department in close coordination with Ministry and OIBN, has selected some projects for solicitation. Among them, Tom Dogar (Budhigandaki) Hydropower Project is also one of them. Tom Dogar (Budhigandaki) Hydropower Project of capacity 40.20MW is identified at Budhigandaki River as a lucrative hydropower project with the potential to be developed using local resources. It is located just downstream of the Budhigandaki Prok Hydropower Project (Chilime Hydropower Company Limited) and upstream of Budhigandaki Nadi Hydropower Project (Surya Energy Pvt. Ltd). The feasibility and environmental study of the projects is being conducted and in the final stage.

A brief introductory description [Salient feature] of the projects is attached to this document.

2 BIDDING PROCESS SCHEDULE

The NIS 2024 Secretariat/OIBN shall endeavor to adhere to the following schedule to evaluate and shortlist from the EOI for the Request for Proposal.

EOI issue Date: 28th April 2024



Last date of submission of EOI: 2nd June 2024, 12:00PM (NST)

Opening of EOI Proposal: 2nd June 2024, 12:00PM (NST), at DoED Meeting Hall

Application Evaluation Result: 7th July 2024

Interested party(ies) can submit their EOI along with all necessary documents online at www.eoi.investinnepal.gov.np.

Contact Details:

Name of the Agency: Department of Electricity Development

Address: Sano Gaucharan, Kathmandu

Post Box No.: 2507

Phone No: (977-1-) 4534119, Fax: (977-1-) 5244257

Email address: info@doed.gov.np, Website: <https://www.doed.gov.np>

The department holds the right to cancel this EOI process at any time.

3 PRE-QUALIFYING CRITERIA

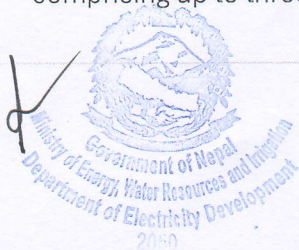
The applicants must meet the following pre-qualifying criteria to be considered for further evaluation and shortlisting.

- a) Minimum THREE years of experience of the applicant or lead partner (in case of JV/consortium) in Development of Hydropower Projects in Public Private Partnership (PPP) model.
- b) Must have completed development of at least one Hydropower Projects in past 5 years whose power capacity should not be less than 8.04 MW. (*Completed development projects means:*
 - (i) *For domestic developer, At least EM works-initiated projects; for which letter issued from DOED regarding the custom facilities is required,*
 - (ii) *For International Developer, project completion/operation certificate is required)*
- c) Net worth of the applicant or lead partner (in case of JV/consortium) should be equivalent to at least NPR 872.9 Millions [or Equivalent USD, *Note: the exchange rate of date of issue of EOI Notice will be taken for currency conversion.*] as per the last fiscal year's audited balance sheet/report. In case of JV/Consortium, the net worth will be calculated based on the percentage share as mentioned in the JV agreement of MOU.

4 APPLICATION PROCEDURE

The developer/investor who meets the above pre-qualifying criteria can make the application for the project. Following are the guidelines for the application procedure.

- a) Application can be made by a single entity or a group of entities (Consortium or JV) comprising up to three different companies/parties including a lead member.



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- b) A consortium/JV may fulfil the pre-qualifying criteria in a joint /cumulative manner, except for the number of years of work experience.
- c) A fee of NPR 150,000 shall be payable for each application (PPPIR 2077, Clause 17 (3)).
- d) The fee must be paid to the following account of DOED and the proof document (voucher) should be submitted along with EOI:

Bank Name: Rastriya Banijya Bank Limited, Teku Branch

Account Number: 1000200010000

Office Code: 308013501

Revenue Heading: 14229

Office Name: Department of Electricity Development (DOED)

Swift Code: RBBANPKA

- e) Please use "Company Name_Project Name" as the reference code for the payment made in the case of the online payment.
- f) Applicants should submit the EOI with all required documents by 2nd June 2024.
- g) The Government of Nepal (OIBN or MOEWRI or DOED or relevant government organization) shall review the proposal and ask additional information if required.
- h) The Government of Nepal shall shortlist the qualified applicants by 7th July 2024. The applicants will be notified accordingly.



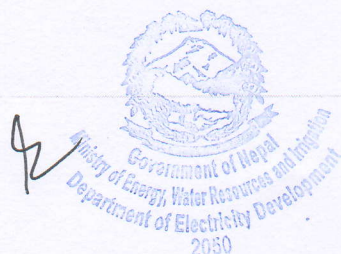
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5 CHECKLIST

The clause 17 of the PPPIR 2077 mentions that the interested investor shall acquire the request for expression of interest from the concerned agency or website and submit the documents as mentioned in the request for proposal document. Following documents and information should be submitted while submitting the EoI.

1. Notarized copy/ies of VAT/PAN registration certificate (for national developer) and official company registration certificate (for international developer).
2. Detailed profile of the developers/investors, including profile of senior management team, and annual report audited financial statements for at least past three years, latest tax clearance certificate.
3. In case of a consortium or JV an intent to form a JV or consortium, or consortium agreement or JV agreement or MoU.
4. Evidence of power of attorney.
5. Project concept, plan, and information on financial, economic, social, technical, and environmental feasibility.
6. Method of project implementation, project development modality and work schedule.
7. Business plan with basic financial statements
8. Financial arrangement and source of investment
9. Socio-economic contribution to Nepal
10. Expected support from GoN
11. All the documents need to be properly signed and stamped and sealed (in case of hard copy submitted).
Other relevant information, if any.



Attachment [Salient Features of the Project (Based on the Latest report from the Consultant)]

1. Location Details		
1.1	Province	Gandaki Province
1.2	District	Gorkha
1.3	Rural Municipality	Tsum Nubri Rural Municipality
1.4	Ward number	Bhijam ward no: 5 & Rana Gau ward no: 6
1.5	Major Local Places	Philim, Tsum valley
1.6	Latitude	28°29'16'' N to 28°30'37''N
1.7	Longitude	84°50'52'' E to 84°52'40'' E
2. Project Details		
2.1	Project Name	Tom Dogar (Budhigandaki) Hydroelectric Project
2.2	Headworks Site	Bihi village, Gorkha
2.3	Power house site	Rana Gau, Gorkha
2.4	Water Source	Budhigandaki river
2.4	Type of Scheme	Run-of-River
2.5	Installed Capacity	40.20 MW
2.6	Gross Head	92.5 m
2.7	Net Head	87.03 m
2.8	Design Plant Discharge	53.30 m ³ /sec
2.9	Annual Energy	233.316 GWh
2.10	Dry Energy	73.491 GWh (31.50 %)
2.11	Wet Energy	159.825 GWh
2.12	Access Road	<p>The nearest road network to the project area is Dovan (via Arughat Bazar) of Gorkha district, which lies North West of Kathmandu. The travel from Kathmandu-Dhading-Benighat-Arughat Bazar is about 127 km. From Arughat Bazar to Dovan village, there is approximately 40 km earthen road. From Dovan to Salleri, GON has opened track.</p> <p>From Salleri to Ranagaun (Powerhouse area) : 12.90 km (Formation width of 5.5 m)</p> <p>From Powerhouse to Bihi (Headworks area) : 3.90 km (Formation width of 5.5 m).</p>
3. Hydrology		
3.1	Catchment Area at Intake Site	2109.56 km ²

3.2	Design flood for Headworks	574.90 m ³ /sec
3.3	Riparian Release	15% of driest flow
4. Headwork		
4.1	Weir	
4.1.1	Type	Free Overflow Concrete gravity
4.1.2	Crest Level	1922 masl
4.1.3	Crest Length	35 m
4.1.4	Height of weir	6.5 m from the riverbed
4.1.5	Flood discharge capacity	574.90 m ³ /sec
4.2 Intake		
4.2.1	Type	Orifice type Side Intake
4.2.2	Nos of intake openings	6
4.2.3	Intake opening size (W*H)	3.35 m x 3.0 m
4.3 Under sluice		
4.3.1	Type	
4.3.2	Number of Under sluice Bays	2 Nos.
4.3.3	Under sluice opening (W x H)	4 m x 4 m
4.4 Gravel Trap		
4.4.1	Type	Hopper Bottom
4.4.2	No of bay	3 nos.
4.4.3	Min Particle size to be settled	5 mm
4.4.4	Size (L x B)	14.90 m x 8.0 m
4.5 Approach Canal		
4.5.1	Type of Culvert	NA
4.5.2	Size (B x H)	NA
4.5.3	Length	NA
4.6 Desander		
4.6.1	Type	Surface, Intermittent Flushing
4.6.2	No of bay	3
4.6.3	Dimensions (L x Bx H)	100 m x 19 m x 5.6 m
4.6.4	Minimum particle to be settled	0.2 mm
5 Headrace Conveyance		
5.1	Headrace Pipe	
5.1.1	Type	Steel pipe (E250)

5.1.2	Diameter	4.3 m
5.1.3	Length	130 m
5.2	Headrace Tunnel	
5.2.1	Type	Inverted-D type
5.2.2	Finished size (W x H)	5.8 m x 5.8 m
5.2.3	Total Length	1825 m
6	Surge Tank	
6.1	Type	Underground, circular concrete.
6.2	Diameter of Surge Tank	10 m
6.3	Height of Surge Tank	31.70 m
6.4	Maximum Upsurge Level	1936.45 m amsl
6.5	Minimum Down surge Level	1906.77 m amsl
7	Pressure Shaft and Penstock	
7.1	Penstock pipe	
7.1.1	Diameter of Pipe	4.0 m
7.1.2	Length	130 m
7.1.3	Thickness	10 mm to 31 mm
8	Powerhouse	
8.1	Type	Underground
8.2	Dimensions	38 m x 15 m x 23.5 m
9	Tailrace	
9.1	Type	Open channel
9.2	Size (Width x Height)	5.4 m x 4.0 m
10	Turbine and generator	
10.1	Number of Units	3
10.2	Type of Turbine	Francis
10.3	Axis type	Vertical
10.4	Rated capacity of each turbine	13.8 MW x 3 units
10.4	Rated capacity of each generator	15.76 MVA each
11	Transmission and Interconnection	
11.1	Switchyard	Underground (50 m X 12 m)
11.2	Type of Circuit	Single circuit line
11.3	Transmission Voltage	132 kV
11.4	Proposed Interconnection Point:	RPGCL Proposed Gumda substation of Gorkha district

11.5	Length	51.1 Km
12	Financial Parameters	
12.1	Construction Period	4 years
12.2	Price Level	2023
12.3	Project Cost	Total- 8729.686 (Inc. VAT & IDC) Civil- 3032.254 MNRs. HM- 467.120 MNRs. EM- 1167.408 MNRs. TL- 919.800 MNRs. IDC- 1048.484 MNRs.
12.4	Cost per MW	217.156 MNRs
12.4	Debt: Equity Ratio	70:30
12.5	Payback period (Simple)	6.58years
12.6	Loan Repayment Period	12 Years
12.7	Financial Indicators FIRR B/C Ratio	12.39.% 1.23.
12.8	Return on Equity	16.15%
12.9	Economic Indicators EIRR B/C Ratio	14.58% 1.48.
13	Land Required	
13.1	Government Land Required (ha)	10.13 ha
13.2	Private Land Required	4.75 ha