

# LOWER ARUN HYDROELECTRIC PROJECT

## SALIENT FEATURES

SN	FEATURES	CHARACTERISTICS
<b>GENERAL</b>		
1	Name of the Project	Lower Arun Hydroelectric Project
2	Sector	Hydropower
3	Type	Peaking Storage type with installed capacity of 679 MW (as per Inception Report Submitted to Department of Electricity Development (DOED) on July 2017)

### PROJECT LOCATION

1	Province	Province 1
2	Project Location	Sankhuwasabha and Bhojpur Districts ( <a href="#">Location Map</a> )
3	Project Area	The proposed project is located downstream of ongoing Arun-3 SHEP and upstream of proposed Sapta Koshi High Dam project. The dam site is about 34 km upstream whereas powerhouse site is 7 km upstream from Tumlingtar, the nearest airport.

### PROJECT FEATURES (AS PER INCEPTION REPORT SUBMITTED TO DOED 2017)

1	Project Layout	Concrete gravity dam on left bank of the river, waterway through Headrace tunnel into the underground powerhouse with 4 x 170 MW rated Francis Turbine.
2	Hydrology	Catchment Area: 27,959.00 km <sup>2</sup> Design flow: 348.48 m <sup>3</sup> /s Average annual flow= 329,00 m <sup>3</sup> /sec (Note: There is a Hydrological station of Department of Hydrology and Meteorology (DHM) namely: Station Number 604.5: Arun River at Turkeghat)

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### TECHNICAL COMPONENTS

1	Dam	80 m high Concrete gravity Dam. The crest elevation of the dam is 534.00 masl, tainter gate controlled Spillway. <b>Proposed Dam site:</b> The dam site is proposed downstream of Tombe village and upstream of Baguwa Khola and Arun confluence, Coordinates :27°29'3.86"N and 87°10'1.55"E )
2	Reservoir	Full supply Level: 532.00 masl Minimum Water Level: 522.00 masl Gross Storage: 18.22 Million m <sup>3</sup> Active Storage: 8.89 Million m <sup>3</sup> Dead Storage: 9.32 Million m <sup>3</sup>
3	Waterway	Around 12.4 km long concrete lined modified horse shoe shaped headrace tunnel proposed.
4	Powerhouse	An underground power station, with turbine, transformers and switching stations. <b>Proposed Powerhouse location:</b> 27°22'22" N and 87°10'36" E
5	Turbine	Four 170 MW rated Francis turbine with, <ul style="list-style-type: none"> <li>■ Net Head = 213.3 m</li> <li>■ Tail water Level : 305 masl</li> </ul>
6	Energy Generation	<ul style="list-style-type: none"> <li>■ Dry Season Energy : 948 GWh</li> <li>■ Wet Season Energy : 2613 GWh</li> <li>■ Total Energy: 3561GWh</li> </ul> 5 hours peaking operation in 6 months dry months (December to May) proposed.
7	Power Evacuation	As proposed from the study, the power evacuation to be carried by 400 KV double circuit transmission line of around 207 km long.

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#### DEVELOPMENT MODALITY

1	Development modality	Public Private Partnership
2	Role of the Government of Nepal	<ul style="list-style-type: none"> <li>■ Provision of government land, land acquisition, facilitation and project security</li> <li>■ Facilitating legal approvals/permits</li> <li>■ Review &amp; monitoring</li> </ul>
3	Role of the Private Sector	<ul style="list-style-type: none"> <li>■ Plan, design, build, finance and operate the facilities during the Concession Period</li> <li>■ Collection of revenues from the project during the Concession Period</li> <li>■ Handover to the Government after the Concession Period</li> </ul>

#### INDICATIVE FINANCIALS (AS PER INCEPTION REPORT SUBMITTED TO DOED 2017)

1	Total Project Cost	USD 1300 million
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# APPLICATION PROCEDURE

## PRE-QUALIFYING CRITERIA FOR THIS PROJECT

1. Minimum of 10 years of experience in field of energy project development, investment and management.
2. Evidence of Hydropower Projects Owned/Constructed/Operated Around the World. At Least Two Reference Projects of At Least 500 MW, With Verifiable Evidence.  
or,  
Evidence of Development And Operation of Energy Projects With Aggregate Capacity of Minimum 4000 MW.
3. The combined Net worth of the applicant shall not be less than USD 500 Million at the time of submission of bid.

## APPLICATION PROCEDURE

1. The developer/ investor who meet the above pre-qualifying criteria can make the application for this project.
2. Application may 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, coming together to implement the project.
3. A consortium/JV may fulfil the pre-qualifying criteria in a joint/cumulative manner, except for the number of years of work experience.
4. A fee of NRs 10,000 shall be payable for each application made (with application to one project counting as a single application).
5. The fee must be paid to OIBN (to the OIBN office or a dedicated desk at the Nepal Investment Summit), or by electronic transfer to the following bank account of OIBN:

**Office Code: 301003502**

**Office Name: Office of the Investment Board**

**Revenue Heading: 14229**

**Bank Name: Everest Bank Ltd.**

**Swift Code: EVBLNPKA**

Please use 'Company name\_Project name' as the reference code for the payment made in the case of an online payment.

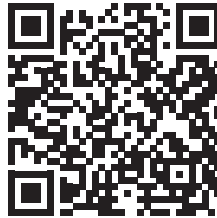
6. After payment of the fee is made, the OIBN shall assign an engagement manager and may provide additional documents or information relevant to the project (if available).

7. Applicants should submit the detailed proposal with all required documents by 20th April 2019. Applications shall be submitted in physical copies to the OIBN or emailed to [projects@ibn.gov.np](mailto:projects@ibn.gov.np).
8. The Government of Nepal (OIBN or relevant government agency at the relevant level of government) shall review the proposal and ask additional information if required.
9. The Government of Nepal shall decide on your application by 31st May 2019.

## DETAILED PROPOSAL CHECKLIST

1. Detailed profile of the developers/ investors, including profile of senior management team, annual report and audited financial statements for at least past three years (2015, 2016 & 2017), and consortium agreement or JV agreement or Memorandum of Understanding in the case of consortiums or JV.
2. Project concept, plan, and information on financial, economic, technical and environmental feasibility.
3. Method of project implementation, project development modality and work schedule
4. Business plan with basic financial statements
5. Financial arrangement and source of investment
6. Socio-economic contribution to Nepal
7. Expected support from GoN
8. Other relevant information, if any

**APPLY NOW**



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## CONTACT DETAILS



### **Office of the Investment Board**

ICC Complex, New Baneshwor

Kathmandu, Nepal

Phone: 977-1-4475277, 977-1-4475278

Fax: 977-1-4475281

Email: [projects@ibn.gov.np](mailto:projects@ibn.gov.np)