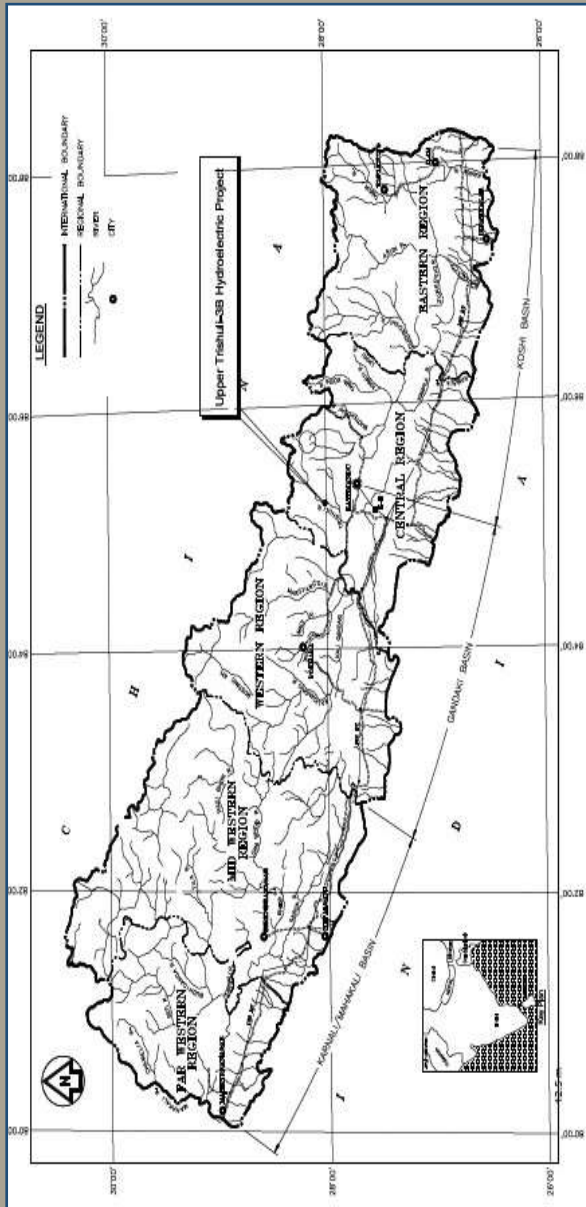


## LOCATION MAP



## SALIENT FEATURES OF UT3B HEP

### *Project Location*

Zone/ District	Bagmati/ Rasuwa and Nuwakot
Intake Site	Kispang Rural Municipality (Nuwakot) and Uttargaya Rural Municipality (Rasuwa)
Powerhouse Site	Kispang Rural Municipality (Nuwakot)

### *General*

Installed Capacity	37 MW
Type of Scheme	Run-of-River
Net Head	85.37 m
Mean Energy Generation(GWh)	Dry Seasons: 134.88 Wet Seasons: 157.708 Total (Annual): 292.584

### *Hydrology*

Catchment Area	4577 km <sup>2</sup>
Mean Annual Discharge	192 m <sup>3</sup> /s
Design Discharge (at 70% POE)	51.0 m <sup>3</sup> /sec

### *Powerhouse*

Turbine	Vertical Axis Francis
No. of Units	2 x 19.1 MW
Dimension	(37.6 x 16.8 x 27.4) m <sup>3</sup>

### *Transmission Line*

Length	3 km
Voltage	132 kV
Distance	From Powerhouse to Trishuli 3B Hub



## TRISHULI JAL VIDHYUT COMPANY LIMITED



**Brief Introduction**  
August 2017

**Upper Trishuli 3B Hydroelectric Project**  
Kispang R. Municipality, Nuwakot

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## Introduction

TJVCL was established on 11<sup>th</sup> May 2011 (28<sup>th</sup> Baishak, 2068) in collaboration with Nepal Electricity Authority (NEA) and Nepal Doorsanchar Company Limited (NDCL). The Company is currently working on developing Upper Trishuli 3B Hydroelectric Project. The generation license to construct UT3B HEP was issued to TJVCL on 7th June, 2015 (24<sup>th</sup> Jestha, 2072).

## Project Background

Upper Trishuli 3B Hydroelectric Project (UT3B HEP) is a run-off-river (ROR) type cascade project of Upper Trishuli 3A HEP (60 MW) which lies in the Trishuli River. The project is located at Rasuwa and Nuwakot District of Nepal. The project consists of two generating units with total installed capacity of 37 MW. Each unit consists of 19.1 MW Francis Turbine. The company has planned to manage its capital requirement

from debt and equity under the debt: equity ratio of 70:30. The project is in the stage of financial closure including the debt portion required for the project with funding agencies and the equity investment from NEA, NDCL, Local Development Agencies and General Public.

## Current Project Status

- ❖ Generation License issued by Department of Electricity Development (DOED).
- ❖ Power Purchase Agreement (PPA) has been completed on August 22, 2017.
- ❖ The project is scheduled to start construction by the end of 2017.
- ❖ ELC Electroconsult SpA, Italy in association with Soil Test (P) Ltd. Nepal is working as Owner's Engineer.
- ❖ Contractor selection is in progress.
- ❖ Construction of Camp Buildings has been completed.
- ❖ Construction of Test Adit Tunnel is at final stage.
- ❖ Land acquisition process for powerhouse area is near to complete.

## Features

- ❖ Since the project is a cascade of UT3A HEP, no additional dam is required.
- ❖ The headrace and penstock are relatively shorter in length.
- ❖ A discharge of 51 m<sup>3</sup>/ sec can be achieved for almost 8 months of the year.
- ❖ The transmission line distance is shorter (just 3 km) and is connected to the proposed Trishuli 3B Hub.

## Justification of Project

Load shedding has been one of the major problems in Nepal. The power demand has not been fulfilled completely. The adverse effect of load shedding has not only affected civilians' daily life but also has affected the economy of the nation. Construction of UT3B HEP and connection of 37 MW of electricity to the national grid will ease the current power demand to some extent.