

UPPER BALEPHI HYDROPOWER PROJECT

SALIENT FEATURES

SN	FEATURES	CHARACTERISTICS
GENERAL		
1	Name of Project	Upper Balephi Hydropower Project
2	Type	Run of River
3	Install Capacity	46 MW
4	Progress	Infrastructure Development (Access Road, Labor camp) construction work on progress

PROJECT LOCATION

1	Latitude of Project Area	85° 46' 46"E and 85° 48' 03" E
2	Longitude of Project Area	27° 58' 59" N and 28° 01' 23" N
3	Project Area	Jugal Rural Municipality, Sindhupalchowk, Province 3

TECHNICAL INFORMATION

1	Hydrology	
	Catchment Area	270.38 km ²
	Design Discharge (Q 40 %)	12.72 m ³ /s
2	Weir and Intake	
	No. of Intake	
	Type of Weir	Diversion weir with side intake
	Length	42 m
3	Desanding Basin	
	Type	Hopper Type, Single bay with Bypass channel

SN	FEATURES	CHARACTERISTICS
4	Head Race Tunnel	
	Tunnel on Right Bank	4100 m
	Adit Tunnel	150 m
5	Steel Penstock	
	No of Penstock Pipe	
	Length of the single Penstock Pipe	650 m
6	Power House	
	Type	Underground
	Number of Generating Units	3 , 12, 500 kVA each
	Turbine Type	Pelton
7	Power and Energy	
	Gross Head	438 m

CURRENT STATUS OF THE PROJECT

1	Feasibility Study	Completed
2	Detailed Project Report	In the Process, Scoping and ToR Approved
3	EIA	Final report submitted to Ministry of Environment
4	PPA and PPA Rate	Applied for PPA on January 30, 2019
		Rs. 4.8/unit for Wet Season
		Rs. 8.40/unit for Dry Season
5	Land Acquisition	Completed

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DEVELOPMENT MODALITY

1	Development modality	Option open for Equity Investment
2	Role of the Foreign Partner	Up to 70% equity investment
3	Role of the Developer	Project management, award construction contract, monitoring and supervision of project, local issues liasioning and settlement, liasioning with Government entities as and when required, evacuate electricity to the national grid.
4	Development Period	<ul style="list-style-type: none"> ■ Financial Closure: January 2019-2020 ■ Construction Planning: <ul style="list-style-type: none"> ■ Infrastructure development work 2019 ■ Tunnel excavation to start by 2020 ■ Other civil structures to start by end of 2020 ■ Completion Date: March 2022

INDICATIVE FINANCIALS

1	Total Project Cost (including Interest During Construction)	\$ 72.5 Million
2	Interest Rate (including hedging cost)	12%
3	Project IRR	15.61%
4	Equity IRR	18.88%

CONTACT DETAILS

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