

TRISULI GALCHHI HYDROPOWER PROJECT

SALIENT FEATURES

SN	FEATURES	CHARACTERISTICS
GENERAL		
1	Name of Project	Trisuli Galchhi Hydropower Project
2	Type of the Scheme	Run of River
3	Catchment Area	5731 Km ² (approx..)
4	Net head	19.1 m
5	Design Discharge	176.00 m ³ /s
6	Install Capacity	30 MW

PROJECT LOCATION

1	Latitude	27051'48"
2	Longitude	85005'47"
3	Project Area	Ratmate & Buddhasingh VDC of Nuwakot District, Province No. 3

TECHNICAL INFORMATION

1	Diversion Type	Barrage Type Structure with 6 radial gates of 12 m x 5 m
	Height of Barrage (from deepest foundation level)	25.5 m
	Length of Overflow Section	103 m
	Length of Non overflow Section	168.5 m
2	Desander basin	
	Type	RCC type, Rectangular with hopper
	Number	2 nos.
	Size	116 m (L) x 23 m (W)
	Depth	14 m

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3	Silt Flushing Arrangement	
	Type	Vertical lift side gate
	Nos	2
	Length	2 m x 2 m
4	Power Intake Service Gate	
	Nos.	4
	Size	3.3 m x 4 m
	Type	Vertical Lift roller gate
	Hoist	Rope drum hoist
	Stop Log Gate	
	Nos.	4
	Size	3.3 m x 4 m
	Type	Vertical Lift roller gate
	Hoist	Rope drum hoist
5	Penstock	
	Type	Circular steel lined
	Size of Penstock Pipe	4 m dia
	Length	45 m
6	Power House	
	Type	Semi Surface type
	Number of units	4
	Size	67.2 m x 18.5 m
7	Draft Tube Gates	
	Nos.	8
	Size	3.6 m x 4 m
	Type	Vertical lift gate
	Hoist	Gantry Crane
8	Tailrace Pool	
	Length	20.6 m
	Bed Width	60.3 m
9	Transmission line & grid connection	
	Transmission Line	132 kVA substation
10	Access Road Connection	All season motorable road is available

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CURRENT STATUS OF THE PROJECT

1	Feasibility Study	Completed
2	Detailed Project Report	Completed
3	EIA/IEE	Completed
4	PPA and PPA Rate	Completed
5	Land Acquisition	Completed

DEVELOPMENT MODALITY

1	Development modality	Public Private Partnership/looking foreign partner
2	Role of Foreign Partner	Arrange Debt/Equity for the project
3	Role of Local Developer	Facilitation and investment in agreed capital structure
4	Development Period	
	a. Pre-Construction Period	Ready to go for construction
	b. Financial Closure	1 Year
	c. Construction Period	30 months
	d. Concession Period	30 years

INDICATIVE FINANCIALS

1	Total Project Cost (including Interest During Construction)	~USD 51 Mn.
2	Project IRR	20.33%
3	Equity IRR	32.19%
4	Project Benefit-Cost Ratio	1.53

CONTACT DETAILS

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