

STATE POLLUTION CONTROL BOARD DEPARTMENT OF FOREST, ENVIRONMENT & WILDLIFE MANAGEMENT GOVERNMENT OF SIKKIM **DEORALI, GANGTOK.**

PUBLIC NOTICE

M/s Sikkim Hydro Power Ventures Ltd. (a subsidiary of Gammon India Ltd.) proposes to construct a 66 MW hydro-electric project by utilizing the water of Rimbi Khola, a tributary of Rathangchu in the West District of Sikkim. The Salient features of the project are as under:

RANGIT – II HYDROELECTRIC PROJECT (2 x 33 MW)

SALIENT FEATURES:

Sikkim

West Sikkim Rimbi Khola

Brahmaputra

LOCATION

State District River **River Basin**

Diversion site

Longitude Latitude Nearest Airport Nearest Railway

88⁰10'32'' E

27⁰ 18'46" N Bagdogra – 145 km New Jalpaiguri (BG) – 130 km

TYPE OF PROJECT

Туре	Run-of-River
Installed Capacity	66 MW (2 x 33)
Annual Energy Generation	296.21 MU (90% dependable year)

HYDROLOGY & CLIMATE

Catchment Area (up to head works) Average yield 90% dependable Maximum Maximum daily rainfall

116.52 sq. km 393 MCum 1155 MCum 363.9 mm

Minimum daily rainfall Maximum design flood Portable maximum flood Seismic factors Horizontal direction Vertical direction	9.8 mm 1152 cumec 1152 cumec 0.23 g 0.15 g
DIVERSION ARRANGEMENT	0.13 5
Diameter of Diversion tunnel Tunnel length Open channel DAM	3.40 m 120.57 m 118.73 m
DAM Type of Dam Height of Dam Top level of Dam Full Reservoir Level (F.R.L) M.D.D.L Maximum Water Level (M.W.L) Dead storage capacity Gross Storage Capacity Live Storage (between FRL & MDDL) Number of Spillways Size of Spillway Gate Crest Elevation (Sluice) Type of Sluice Gate Number of Overflow Bays Size of (ungated) overflow Bay Crest Elevation of ungated (Ogee Spillway) Length of the dam at top Free Board for FRL Maximum Tail Water Level River Bed Level Expected Foundation Level Energy dissipation device Intake Structure	Concrete gravity dam 40 m 1365 m 1360 m 1352 m 1362.5 m 1340 m 2.25 MCum 0.223 MCum 3 6.00 m x 6.00 m 1340.00 m Radial 1 6.00 m 1360.5 m 96.22 m 7.5 m 3 m 1341 m 1334 m 1325 m Ski Jump Bucket 1 no. with invert at El. 1343 m and of Size 3 m width and 6 m height

POWER HOUSE

Type of Power House Length of Power House Width of Power House No. of Units Type of Turbine Surface 52.50 m 16.00 m Two Pelton Wheel

Rated Unit Capacity	33 MW
Excitation System	Static
Heaviest component to be transported	50 MT
Power House Crane	1 no. 125/25 T
Maximum Gross Head	626.00 m
Rated Net Head	600.00 m
Design Discharge	12.46 cumec

TAIL RACE CHANNEL

Size of Tail Race Channel
Length
Туре
Tail Race Bed Level

SWITCH YARD

Location Number & Size of Bays Voltage Level Type of Switchyard 170 m x 2.00 m x 3.30 m 50.00 m (approx.) Free Flow 724.50 m

On the bank of Kalej Khola 2 nos. 80.00 x 70.00 m 132 KV Outdoor

CONSTRUCTION PERIOD

36 Months

PROJECT COST

a)		Total estimated cost at Jan. 2007 Price level	
	i)	Gross	Rs. 358.63 crore
b) c)		Civil work Electrical & Mechanical works	Rs. 166.29 crore
•)		(including Transmission Lines)	Rs. 114.08 crore
d)		Cost/MW Installed	Rs. 5.43 crore
e)		Cost of Energy Generation per Kwh at Bus bar for 90% dependable year	
	i)	Tariff per unit for first year (90% dependable year)	Rs. 2.57/KWh
	ii)	Average (for 5 years)	Rs. 2.47/KWh

Whereas by notification of the Govt. of India in the Ministry of Environment & Forest, Govt. of India No. S.O. 1533 (E) dated 14th September 2006 issued under sub-section (1) and clause V of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 read with clause (d) of sub-rule (3) of Rule 5 of Environment (Protection) Rules, 1986 and in suppression of the notification no. S.O. 60 (E) dated 27th January 1994 as made mandatory under part II, section 7, sub-section 3 dated 14th September 2006, the State Pollution Control Board is required to conduct Public Hearing in the interest of the public for preparing recommendations based on the technical assessment of documents and data furnished by the Project Authorities for obtaining necessary environmental clearance from MoEF, Govt. of India. Therefore notice is hereby given to all concerned persons, having a plausible stake in the environment aspects of the project or activity and to provide responses in writing or by participating in the public hearing to be conducted on 6th August 2008 at Pelling School ground, West Sikkim at 10.00 A.M. onwards. Any person having plausible stake in the environmental aspects of the project or activity can submit their responses before the hearing date which may be addressed to the Member-Secretary, State Pollution Control Board, Department of Forest, Env. & Wildlife Management, Govt. of Sikkim, Deorali, Gangtok. Further access to the details of the project/executive summary, has been made available in the web-site www.sikenvis.nic.in and at the offices of the State Pollution Control Board, Sikkim, Deorali, Gangtok, Office of the District Collector (West) Gayzing, District Industry Office, Gayzing, West Sikkim and Zilla Parisad Bhawan, Gayzing, West Sikkim.

> Sd/- **Member Secretary,** State Pollution Control Board, Deptt. of Forest, Env. & W/L Management, Govt. of Sikkim, Deorali – Gangtok.