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:

LOCATION

State: Sikkim
District: West Sikkim
River: Rimbi Khola
River Basin: Brahmaputra

Diversion site

Latitude: 27° 18’ 46” N
Longitude: 88° 10’ 32” E
Nearest Airport: Bagdogra – 145 km
Nearest Railway: New Jalpaiguri (BG) – 130 km

TYPE OF PROJECT

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

HYDROLOGY & CLIMATE

Catchment Area: 116.52 sq. km
Average yield 90% dependable: 393 MCum
Maximum: 1155 MCum
Maximum daily rainfall: 363.9 mm
Minimum daily rainfall 9.8 mm
Maximum design flood 1152 cumec
Portable maximum flood 1152 cumec
Seismic factors
Horizontal direction 0.23 g
Vertical direction 0.15 g

DIVERSION ARRANGEMENT
Diameter of Diversion tunnel 3.40 m
Tunnel length 120.57 m
Open channel 118.73 m

DAM
Type of Dam Concrete gravity dam
Height of Dam 40 m
Top level of Dam 1365 m
Full Reservoir Level (F.R.L) 1360 m
M.D.D.L 1352 m
Maximum Water Level (M.W.L) 1362.5 m
Dead storage capacity 1340 m
Gross Storage Capacity 2.25 MCum
Live Storage (between FRL & MDDL) 0.223 MCum
Number of Spillways 3
Size of Spillway Gate 6.00 m x 6.00 m
Crest Elevation (Sluice) 1340.00 m
Type of Sluice Gate Radial
Number of Overflow Bays 1
Size of (ungated) overflow Bay 6.00 m
Crest Elevation of ungated (Ogee Spillway) 1360.5 m
Length of the dam at top 96.22 m
Width of the dam at top 7.5 m
Free Board for FRL 3 m
Maximum Tail Water Level 1341 m
River Bed Level 1334 m
Expected Foundation Level 1325 m
Energy dissipation device Ski Jump Bucket
Intake Structure 1 no. with invert at El. 1343 m and of
Size 3 m width and 6 m height

POWER HOUSE
Type of Power House Surface
Length of Power House 52.50 m
Width of Power House 16.00 m
No. of Units Two
Type of Turbine 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 170 m x 2.00 m x 3.30 m  
Length 50.00 m (approx.)  
Type Free Flow  
Tail Race Bed Level 724.50 m  

SWITCH YARD  
Location On the bank of Kalej Khola  
Number & Size of Bays 2 nos. 80.00 x 70.00 m  
Voltage Level 132 KV  
Type of Switchyard Outdoor  

CONSTRUCTION PERIOD 36 Months  

PROJECT COST  
a) Total estimated cost at Jan. 2007  
   Price level  
   i) Gross Rs. 358.63 crore  
   b) Civil work Rs. 166.29 crore  
   c) Electrical & Mechanical works (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.