



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

**PUBLIC NOTICE**

M/s Shiga Energy Pvt. Ltd., proposes to construct a 97 MW hydro-electric project by utilizing the water of Rathong Chhu a tributary of Rangit River in the West District of Sikkim. The Salient features of the project are as under:

**TASHIDING HYDROELECTRIC PROJECT (2 X 48.5 MW)**

**SALIENT FEATURES:**

<b>PROJECT LOCATION</b>	
State	Sikkim
District	West
Stream	Rathang Chu River
Location (nearest village)	Tashiding
<b>BARRAGE</b>	
Latitude	27°20'28" N
Longitude	88°13'59" E
<b>HYDROLOGY</b>	
Catchment area at Barrage Site	553 sq. km.
Average Annual Inflow	2568 mm
Probable maximum Flood Discharge (PMF)	2690 Cumec
<b>RESERVOIR</b>	
Pond Level (FRL)	El. 910.00 m
Submergence area at FRL	1.33 ha
Stretch of Reservoir	0.27 km
<b>DIVERSION STRUCTURE</b>	
Type	Barrage
Top elevation of barrage	El. 917.0 m
Height of barrage above crest level	12 m
Length of barrage between abutments	42.50 m
Design flood	1650 cumec
<b>BARRAGE BAY</b>	
Crest elevation	EL. 898.00 m
Number	4
Width of each bay	6.5
Total floor length	138 m
<b>UNDER SLUICE BAY</b>	
Number	1
Total floor length	138 m
No. & Size	One, 6.5 m (W) x 9.0 m (H)
<b>INTAKE</b>	
Location	On right bank, 7.3 m upstream of barrage axis
Size of opening for trash rack	5 nos. 4 m (W)

Size of Intake opening	4.3 m (W) x 4.5 m (H)
Design Discharge	59.6 Cumec
<b>HEADRACE TUNNEL – HRT</b>	
Shape & Size	Horse Shoe, 4.5 m
Length	5.437 km
Design Discharge	49.6 cumec
<b>Adit to HRT</b>	
Location	About 1.59 km d/s of Barrage axis
Slope & Size	D-Shaped, 4.5 m
Length	236 m
<b>SURGE SHAFT</b>	
Vertical Shaft	Restricted Orifice Type
Height of shaft	61.05 m
Top of Surge Shaft	El. 936.00 m
Max. Surge level	El. 932.814 m
Min. Surge level	El. 879.45 m
<b>Adit to Surge Shaft Bottom</b>	
Shape & Size	D-Shaped, 4.5 m
Length	89 m
<b>PRESSURE TUNNEL PENSTOCK</b>	
Total Length upto Bifurcation	449 M
Internal Diameter	3.5 m
Number of anchor blocks	4
<b>POWERHOUSE</b>	
Type	Surface Powerhouse
Size	50.5 m (L) x 18.5 m (W) x 43 m (H)
Number of units	Two (2)
Rated Discharge per unit	24.8 cumec
Gross Head (monsoon period)	El. 226.00 m
Net Rated Head	213.33 m
Installed Capacity	2 x 48.5 MW
<b>TRANSFORMER</b>	
Type & capacity	Three phase, 11 KV/220 KV, 60 MVA, OFWF
Location	Outdoor on right bank of the river
Number	2
<b>TAILRACE TUNNEL</b>	
Type	Twin box, cut and cover tunnel
Length (including tail pool)	146 m
No. & Size	2 nos. x 6.5 m x 3.0 m
River Bed Elevation	EL. 682.00 m
<b>SWITCHYARD</b>	
Type	Outdoor
Location of switchyard	Upstream of pH on right bank at El. 705 and 710 m
<b>TRANSMISSION LINE</b>	
Type	Single Circuit 2 x 220 KV
Length	About 27 km
<b>CONSTRUCTION PERIOD</b>	
Construction Period in months (excluding preconstruction works)	33 months

Whereas by notification of the Govt. of India in the Ministry of Environment & Forest, Govt. of India No. S.O. 1533 (E) dated 14<sup>th</sup> 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 27<sup>th</sup> January 1994 as made mandatory under part II, section 7, sub-section 3 dated 14<sup>th</sup> 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 18<sup>th</sup> June 2009 at Chumbung Govt. Junior High School, Chumbung Block, Gyalshing, 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-Sikkim, Department of Forest, Environment & 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.sikenvs.nic.in](http://www.sikenvs.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-Sikkim,

Deptt. of Forest, Env. & W/L Management,

Government of Sikkim,

Deorali – Gangtok.

IPR.RO.....Dated.....