



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

PUBLIC NOTICE

M/s Sneha Kinetic Power Project Limited proposes to construct a 96 MW hydro-electric project by utilizing the water of River Dikchu, a tributary of Teesta River in the State of Sikkim. The Salient features of the project are as under:

DIKCHU HYDROELECTRIC PROJECT (3 X 32 MW)

SALIENT FEATURES:

LOCATION

State	Sikkim
District	East Sikkim & North Sikkim
River	Dikchu
Dam Site Location	150 m d/s of confluence of Bakcha Chu and Dikchu (Near village Lingdok)
Latitude	27 ⁰ 24'00"N & 27 ⁰ 24'45" N
Longitude	88 ⁰ 35'20"E & 88 ⁰ 32'00"E
Nearest Airport	Bagdogra
Nearest Railway	New Jalpaiguri

HYDROLOGY

Catchment Area at Dam Site	240 Km ²
Design Flood	1100 m ³ /sec

RESERVOIR

Full Reservoir Level (FRL)	EL 950.0 m
Minimum Draw Down Level (MDDL)	EL 939.0 m
Live Storage at FRL	0.33 M Cum

DIVERSION TUNNEL

Number	1
Size	6.0 m (Circular)
Length	300.0 m

TUNNEL INTAKE

Invert Level	EL 927.00 m
Size of each gate	4m x 4m
Trash Rack Size	7.3m x 8.8m (Steel Trash Racks)
Design discharge	39m ² /sec

DAM

Type	Concrete Gravity
Top Elevation of Dam	EL 956.0 m
Height of dam above riverbed level	35.0 m
Length of Dam	116 m
Riverbed level	EL 920.0 m (avg)

SPILLWAY

Design flood	1100 m ³ /sec
Type	Ungated Ogee Spillway
Length of spillway	60 m
Crest level of ogee portion	EL 950.0 m
No. of under sluices	2
Size of each radial gate	7m (W) x 8m (H)
Sill level of radial under sluice gate	EL 924.0 m

DESILTING ARRANGEMENT

Design discharge	39 m ³ /sec
Type	Dufour
No. of de-silting chamber	1 no.
Size	106m long, 15m wide, 11.5m high
Total Design Discharge	39m ³ /Sec
Particle size to be removed	≥ 0.2 mm (90% efficiency)
Silt flushing tunnel size	4.0m diameter
Length	250 m

HEADRACE TUNNEL

Size & Type	4 m dia, Horse Shoe Shaped, CC lined
Design discharge	39m ³ /sec
Length	5.7 km (approx)
Adits	2 Nos., 4 m D – Shaped

SURGE SHAFT

Size & Type	9 m diameter
Vertical Shaft Height	90 m

PRESSURE SHAFT & PENSTCKS

Pressure shaft Diameter	4.0 m (Circular)
Number	1
Underground Pressure Shaft Length	500 m
Penstocks Type & Number	Circular, 3 Nos.
Diameter	1.6 m
Length	50 m

POWER HOUSE

Type	Underground
Installed Capacity	96 MW
Number of units	3
Powerhouse cavern size (main)	65m x 15m x 35m
Type of turbine	Vertical Axis Francis Turbine
Tail water level at outlet	EL 581.0 m
Type of Turbine	Vertical Francis
C.L of Turbine	EL 582.0 m
Rated Head	350 m
Design Discharge	10.3 m ³ /sec

TAILRACE

Size	4 m dia
Type	Horse-shoe shaped
Length	1200 m
Design Discharge	39m ³ /Sec
Tail Water Level at Outlet	EL 581.0 m

SWITCH YARD

Type, Size & Location	Open, 150m x 100m & adjacent to powerhouse
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POWER GENERATION

Installed Capacity	96 MW
Annual energy generation in a 90% Dependable year	450.3 Mu
Annual energy generation in a 90% Dependable year on 95% machine Availability	439 Mu

CONSTRUCTION PERIOD	4 years
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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 16th November 2007 at Dikchu bazaar, East Sikkim at 10.00 A.M. onwards and 19th November 2007 at Ramthang Panchayat Bhawan, Ramthang, North Sikkim 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 excess 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 (East) Gangtok, Office of the District Collector, North – Mangan, District Industry Office, North-East, Gangtok, Sikkim and Zilla Parisad Bhawan, Gangtok, East Sikkim and Zilla Parishad Bhawan, Mangan, North Sikkim.

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