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**

<table>
<thead>
<tr>
<th>State</th>
<th>Sikkim</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>East Sikkim &amp; North Sikkim</td>
</tr>
<tr>
<td>River</td>
<td>Dikchu</td>
</tr>
<tr>
<td>Dam Site Location</td>
<td>150 m d/s of confluence of Bakcha Chu and Dikchu (Near village Lingdok)</td>
</tr>
<tr>
<td>Latitude</td>
<td>27°24’00”N &amp; 27°24’45” N</td>
</tr>
<tr>
<td>Longitude</td>
<td>88°35’20”E &amp; 88°32’00”E</td>
</tr>
<tr>
<td>Nearest Airport</td>
<td>Bagdogra</td>
</tr>
<tr>
<td>Nearest Railway</td>
<td>New Jalpaiguri</td>
</tr>
</tbody>
</table>

**HYDROLOGY**

| Catchment Area at Dam Site | 240 Km² |
| Design Flood              | 1100 m³/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 39m³/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 m³/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 m³/sec
Type Dufour
No. of de-silting chamber 1 no.
Size 106m long, 15m wide, 11.5m high
Total Design Discharge 39m³/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 39m³/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 & PENSTOCKS

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

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
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 Parishad 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.