Hydroelectric Power Plants in Bihar

**Agnoor**
Location: Bihar
Operator: Bihar State Hydroelectric Power Corp Ltd
Configuration: 2 X 50 kW S-Turbine
Operation: 2006
T/G supplier: Boving Foures
EPC: Alternate Hydro Energy Center, Nippon Power Ltd
Quick facts: The Agnoor project is built on the Patna Branch Canal near its confluence with Sone Eastern Main Canal and has a head of 3.37m. The Sone Canal System is one of the oldest canal systems in India dating to 1874.

Photograph courtesy of Bihar State Hydroelectric Power Corp Ltd
Posted 5 Mar 2006

**Dhelabagh**
Location: Bihar
Operator: Bihar State Hydroelectric Power Corp Ltd
Configuration: 2 X 500 kW Semikaplan
Operation: 2006
T/G supplier: HPP
EPC: AHEC
Quick facts: Completion of this project ran 25mos over schedule. The budget was Rs 6.70cr.

Photograph courtesy of Alternate Hydro Energy Center
Posted 27 Dec 2008

**Eastern Gandak Canal (Valmikinagar)**
Location: Bihar
Operator: Bihar State Hydroelectric Power Corp Ltd
Configuration: 3 X 5 MW bulb
Operation: 1995-1997
T/G supplier: Fuji
EPC: Central Electricity Authority, Central Water Commission, Hindustan Steel and Construction Ltd
Quick facts: The Gandak Barrage at Valmikinagar uses water from a catchment which lies partly in Nepal and partly in India. The governments of India and Nepal entered into an agreement in Dec 1959 (somewhat modified in 1964) for the purpose of the construction of the barrage and water sharing. The barrage was built in 1968/69. The hydro project includes a bypass channel for power generation plus a low-head hydro plant. The scheme was funded with a Dec 1984, ¥1,630mn loan from JICA.

Photograph courtesy of Bihar State Hydroelectric Power Corp Ltd
Posted 11 Mar 2006

**Sone Eastern Link Canal (Barun)**
Location: Bihar
Operator: Bihar State Hydroelectric Power Corp Ltd
Configuration: 2 X 1.65 MW bulb
Operation: 1996
T/G supplier: Neyripic, Alsthom-Jumont
EPC: BHEL, Mednani Construction

Photograph courtesy of Bihar State Hydroelectric Power Corp Ltd

**Sone Western Link Canal (Dehri)**
Location: Bihar
Operator: Bihar State Hydroelectric Power Corp Ltd
Configuration: 4 X 1.65 MW bulb
Operation: 1993
T/G supplier: Neyripic, Alsthom-Jumont
EPC: Central Electricity Authority, Central Water Commission, BHEL, National Projects Construction Corp Ltd
Quick facts: This small hydro utilizes 3.87m of head near the confluence of the Sone Western Link Canal with Sone Western main canal. The power channel is 798m long and the tail face channel is...
Hydroelectric Power Plants in Kerala & Tamil Nadu

Chembukadavu I
Location: Kerala
Operator: Kerala State Electricity Board
Configuration: 3 x 900 kW Francis
Operation: 2004
T/G supplier: ??
Quick facts: Chembukadavu I&II were constructed with Chinese equipment and assistance in Kozhikode Dist to improve power supply to the north Malabar area.
Photograph courtesy of Alternate Hydro Energy Center
Posted 27 Dec 2008

Chettipeda
Location: Andhra Pradesh
Operator: Andhra Pradesh Power Generation Corp Ltd
Configuration: 2 x 500 kW Semikaplan
Operation: 1989
T/G supplier: ESAC, Compton Greaves
EPC: Avant-Garde Engineers and Consultants
Quick facts: Chettipeta was commissioned on 10 Jan 1991 at a cost of Rs 0.88 cr. The plant is on the Godavari Barrage reservoir.
Photograph courtesy of Alternate Hydro Energy Center
Posted 27 Dec 2008

Kundah II
Location: Tamil Nadu
Operator: Tamil Nadu Electricity Board
Configuration: 5 x 35 MW Pelton
Operation: 1960-1988
T/G supplier: Dominion Engineering Works, Canadian General Electric
Quick facts: The Kundah project is the largest hydroelectric plant in the state and was developed per the Canada India Colombo Plan of 1956. It was the first large-scale, cascade-type development in the country and utilizes the Bhavani River catchment area in the Nilgiris Mountains.
Photograph courtesy of Tamil Nadu Electricity Board
Posted 27 Jul 2008

Lower Meenmutty
Location: Kerala
Operator: Kerala State Electricity Board
Configuration: 2 x 1.5 MW, 1 x 500 kW Francis
Operation: 2006
T/G supplier: VA TECH, TD Power Systems
EPC: VA TECH, Asian Techs
Quick facts: In Jul 2003, this small hydro was contracted to Asian Techs-VA Tech Joint Venture at a cost of Rs 12.38 cr. The initial schedule called for completion by Feb 2005 but in the event, the first unit was not synchronized until 12 Mar 2006. Average output is expected to be 7.6 GWh/yr.
Photograph courtesy of Alternate Hydro Energy Center
Posted 29 Dec 2008

Maravakandy Dam
Location: Tamil Nadu
Operator: Tamil Nadu Electricity Board
Configuration: 1 x 750 kW Semikaplan
Operation: 1993
T/G supplier: Fouress, Kirloskar
Quick facts: Maravakandy Dam is near Masinagudy and the Mudumalai Wildlife Sanctuary.
Photograph courtesy of Alternate Hydro Energy Center
Posted 1 Jan 2009

Mettur Dam
Location: Tamil Nadu
Operator: Tamil Nadu Electricity Board
Configuration: 4 x 12.5 MW Francis
Operation: 1937-1948
T/G supplier: English Electric, Williams Works, Metropolitan Vickers
EPC: Sir M Visweswaraiah, Government Engineering College
Quick facts: The multipurpose Mettur Dam was built where the River Kaveri enters the plains. The dam is one of the oldest large-scale dams in India having been built in 1934 to provide hydroelectricity and irrigation water to Salem, Tiruchirappalli and Thanjavur districts. The 1700m dam creates Stanley Reservoir and supports a hydropower complex including the dam-based power station.
Photograph by vvenka1 (wikipedia)
Posted 12 Nov 2008
Parson’s Valley
Location: Tamil Nadu
Operator: Tamil Nadu Electricity Board
Configuration: 1 X 30 MW
Operation: 2000
T/G supplier: Punjab Power Generation Machines
EPC: ITD Cementation India Ltd
Quick facts: This plant was commissioned in Mar 2000 and represents Stage VI of the Kundah scheme. The site is in the Nilgiris Mountains not far from the Ooty Hill Station.

Photograph courtesy of Tamil Nadu Electricity Board
Posted 27 Jul 2008
# Hydroelectric Power Plants in India - Mizoram

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<th>Operation</th>
<th>T/G supplier</th>
<th>Quick facts</th>
<th>Photograph</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kau-Tlabung</td>
<td>Mizoram</td>
<td>Mizoram Power &amp; Electricity Dept</td>
<td>2 X 1.5 MW Turgo</td>
<td>2005</td>
<td>Eastern Overseas Corp</td>
<td>This is a run-of-the-river SHP in scheme on the Kau-Lui River in Lunglei district. Components include a 70m long diversion dam, gated Intake structures, a 1.4km water conductor system, a 382m steel penstock, and a surface powerhouse. The plant cost Rs32.5cr.</td>
<td>Photograph courtesy of Mizoram Power &amp; Electricity Dept</td>
<td>10 Jun 2010</td>
</tr>
<tr>
<td>Khawiva</td>
<td>Mizoram</td>
<td>Mizoram Power &amp; Electricity Dept</td>
<td>3 X 350 kW Turgo</td>
<td>1988</td>
<td>Jyoti</td>
<td>Khawiva is 10km from Lunglei town. The project has a small reservoir and 186m long power channel.</td>
<td>Photograph courtesy of Mizoram Power &amp; Electricity Dept</td>
<td>10 Jun 2010</td>
</tr>
<tr>
<td>Serlui-A</td>
<td>Mizoram</td>
<td>Mizoram Power &amp; Electricity Dept</td>
<td>2 X 250 kW, 1 X 500 kW Turgo</td>
<td>1984</td>
<td>Jyoti</td>
<td>Serlui-A is run-of river scheme near Aizawl town. It has a diversion weir in Zawngkawt Lui stream, a 3.4km headrace water conductor into a forebay located on the top of a hillock at an elevation of 280 m. The powerhouse is foot of the hill. Power is evacuated via a 5km, 11kV line to Aizawl.</td>
<td>Photograph courtesy of Mizoram Power &amp; Electricity Dept</td>
<td>10 Jun 2010</td>
</tr>
<tr>
<td>Serlui-B</td>
<td>Mizoram</td>
<td>Mizoram Power &amp; Electricity Dept</td>
<td>3 X 4 MW Kaplan</td>
<td>2008</td>
<td>BHEL</td>
<td>Serlui-B has a 293m long, 51m high earthfill dam a 415m headrace tunnel, a 135m pressure tunnel, and a semi-underground powerhouse. The project cost Rs 191cr.</td>
<td>Photograph courtesy of Mizoram Power &amp; Electricity Dept</td>
<td>10 Jun 2010</td>
</tr>
<tr>
<td>Teirei</td>
<td>Mizoram</td>
<td>Mizoram Power &amp; Electricity Dept</td>
<td>3 X 1 MW Francis</td>
<td>1999</td>
<td>??</td>
<td>Teirei is in W Phaileng village, Mamit district.</td>
<td>Photograph courtesy of Mizoram Power &amp; Electricity Dept</td>
<td>10 Jun 2010</td>
</tr>
<tr>
<td>Tuipui</td>
<td>Mizoram</td>
<td>Mizoram Power &amp; Electricity Dept</td>
<td>2 X250 kW Francis</td>
<td>1991</td>
<td>??</td>
<td>This hydro plant is 10.5km fro Champhai.</td>
<td>Photograph courtesy of Mizoram Power &amp; Electricity Dept</td>
<td>10 Jun 2010</td>
</tr>
</tbody>
</table>
# Hydroelectric Power Plants in India - Punjab

<table>
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<tr>
<th>Plant</th>
<th>Location</th>
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<th>Configuration</th>
<th>Operation</th>
<th>T/G supplier</th>
<th>Quick facts</th>
</tr>
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<tbody>
<tr>
<td>Anandpur Sahib</td>
<td>Punjab</td>
<td>Punjab State Electricity Board</td>
<td>4 X 33.5 MW Kaplan</td>
<td>1985</td>
<td>BHEL</td>
<td>This project is 32km downstream from Bhakra Dam near the historic town of Anandpur Sahib, birthplace of Khalsa. The plant was constructed to take advantage of additional waterflows from the Beas and Sutlej rivers. A new 34km canal was built from Nangal Reservoir on the Sutlej River. Two identical powerhouses were built at Ganguwal and Nakkian, each connecting to the Punjabi 132kV grid. Peak generation to date was 1,072 GWh in 1998/99.</td>
</tr>
<tr>
<td>Bhakra</td>
<td>Punjab</td>
<td>Bhakra Beas Management Board</td>
<td>5 X 108 MW (left), 5 X 157 (right) Francis</td>
<td>1960-1968</td>
<td>Hitachi, GEC, LMZ, Electrosila Hydropower Institute</td>
<td>This was the first large multipurpose hydro project in Punjab. Excavation of the diversion tunnels started in 1948 and Prime Minister Jawaharlal Nehru placed the first bucket of concrete for the dam in Nov 1955. The facility uses the Sutlej River to supply drinking and irrigation water for portions of six states. The 226m high dam has a crest length of 518m.</td>
</tr>
<tr>
<td>Chupki</td>
<td>Punjab</td>
<td>Punjab Energy Development Agency</td>
<td>2 X 750 kW Semikaplan</td>
<td>1989</td>
<td>Triveni, Compton Greaves, Electrosila Hydropower Institute</td>
<td>This is one of four minihydel plants on the Abohar Branch Canal. Development started in 1994/95 making PEDA an early adopter of canal falls power plants in India.</td>
</tr>
<tr>
<td>Mukerian</td>
<td>Punjab</td>
<td>Punjab State Electricity Board</td>
<td>6 X 15 MW, 6 X 19.5 MW Kaplan</td>
<td>1983-1989</td>
<td>BHEL</td>
<td>Mukerian is one of the main hydel stations in northern Punjab and consists of four powerhouses, each with three identical sets. These are built on a 37km canal originating at the Shah-Nehar Barrage downstream of Pong Dam on the River Beas.</td>
</tr>
<tr>
<td>UBDC</td>
<td>Punjab</td>
<td>Punjab State Electricity Board</td>
<td>3 X 15 MW, 3 X 15.45 MW Kaplan</td>
<td>1932-1982</td>
<td>AEI, HEL, BHEL</td>
<td>The Upper Bari Doab Canal project (UBDC) is near Pathankot in Gurdaspur Dist. The multipurpose UBDC draws water from River Ravi downstream of the Ranjit Sagar Dam at Thein. Each of the two stages has three machines located at various locations along the main channel.</td>
</tr>
</tbody>
</table>
# Hydroelectric Power Plants in India - Punjab

## Anandpur Sahib
- **Location:** Punjab
- **Operator:** Punjab State Electricity Board
- **Configuration:** 4 X 33.5 MW Kaplan
- **Operation:** 1985
- **T/G supplier:** BHEL

**Quick facts:** This project is 32km downstream from Bhakra Dam near the historic town of Anandpur Sahib, birthplace of Khalsa. The plant was constructed to take advantage of additional waterflows from the Beas and Sutlej rivers. A new 34km canal was built from Nangal Reservoir on the Sutlej River. Two identical powerhouses were built at Ganguwal and Nakkiain, each connecting to the Punjabi 132kV grid. Peak generation to date was 1,072 GWh in 1998/99.

Photograph courtesy of Punjab State Electricity Board

## Bhakra
- **Location:** Punjab
- **Operator:** Bhakra Beas Management Board
- **Configuration:** 5 X 108 MW (left), 5 X 157 (right) Francis
- **Operation:** 1960-1968
- **T/G supplier:** Hitachi, GEC, LMZ, Electrosila
- **EPC:** Hydropower Institute

**Quick facts:** This was the first large multipurpose hydro project in Punjab. Excavation of the diversion tunnels started in 1948 and Prime Minister Jawaharlal Nehru placed the first bucket of concrete for the dam in Nov 1955. The facility uses the Sutlej River to supply drinking and irrigation water for portions of six states. The 226m high dam has a crest length of 518m.

Photograph courtesy of Ministry of Water Resources

## Chupki
- **Location:** Punjab
- **Operator:** Punjab Energy Development Agency
- **Configuration:** 2 X 750 kW Semikaplan
- **Operation:** 1989
- **T/G supplier:** Triveni, Compton Greaves
- **EPC:** Avant-Garde Engineers and Consultants

**Quick facts:** This is one of four minihydel plants on the Abohar Branch Canal. Development started in 1994/95 making PEDA an early adopter of canal falls power plants in India.

Photograph courtesy of Alternate Hydro Energy Center

## Mukerian
- **Location:** Punjab
- **Operator:** Punjab State Electricity Board
- **Configuration:** 6 X 15 MW, 6 X 19.5 MW Kaplan
- **Operation:** 1983-1989
- **T/G supplier:** BHEL

**Quick facts:** Mukerian is one of the main hydel stations in northern Punjab and consists of four powerhouses, each with three identical sets. These are built on a 37km canal originating at the Shah-Nehar Barrage downstream of Pong Dam on the River Beas.

Photograph courtesy of Punjab State Electricity Board

## UBDC
- **Location:** Punjab
- **Operator:** Punjab State Electricity Board
- **Configuration:** 3 X 15 MW, 3 X 15.45 MW Kaplan
- **Operation:** 1932-1982
- **T/G supplier:** AEI, HEL, BHEL

**Quick facts:** The Upper Bari Doab Canal project (UBDC) is near Pathankot in Gurdaspur Dist. The multipurpose UBDC draws water from River Ravi downstream of the Ranjit Sagar Dam at Thein. Each of the two stages has three machines located at various locations along the main channel.

Photograph courtesy of Punjab State Electricity Board
<table>
<thead>
<tr>
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<th>Configuration</th>
<th>Operation</th>
<th>T/G supplier</th>
<th>EPC</th>
<th>Quick facts</th>
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<tbody>
<tr>
<td><strong>Dehar</strong></td>
<td>Rajasthan</td>
<td>Bhakra Beas Management Board</td>
<td>6 X 165 MW Francis</td>
<td>1977-1983</td>
<td>BHEL, GEC-Alstom</td>
<td>Beas Construction Board</td>
<td>Dehar is on the right bank of River Sutlej upstream of Slapper bridge. The water coming out of Sundemagar Sutlej Tunnel enters into a surge shaft. At the exit end, the tunnel is trifurcated into 8ft steel outlet pipes.</td>
</tr>
<tr>
<td><strong>Hirakud (Burla)</strong></td>
<td>Rajasthan</td>
<td>Orissa Hydro Power Corp Ltd</td>
<td>2 X 49.5 MW Kaplan, 2 X 32 MW Francis, 3 X 37.5 MW Kaplan</td>
<td>1956-1990</td>
<td>English Electric, Voith, Siemens, Hitachi</td>
<td>EPC: Beas Construction Board</td>
<td>The Hirakud Dam is on the River Mahanadi 15km upstream of Sambalpur town and was the first post-independence major multi purpose river valley project in the country. Pandit Jawaharlal Nehru laid the foundation stone in 1948. The Burla powerhouse is on the right bank at the dam and there is a second smaller powerhouse at Chiplima 22km downstream. Units 3 &amp; 4 were rebuilt and uprated to 32 MW by Voith Siemens.</td>
</tr>
<tr>
<td><strong>Jawahar Sagar</strong></td>
<td>Rajasthan</td>
<td>Rajasthan Rajya Vidyut Prasaran Nigam Ltd</td>
<td>3 X 33 MW Francis</td>
<td>1973-1974</td>
<td>AC, CGE</td>
<td>EPC: Beas Construction Board</td>
<td>Jawahar Sagar dam is the third dam in the series of Chambal River projects, located 29km upstream of Kota and 26km downstream of Rana Pratap Sagar dam. The concrete gravity dam is 45m high and 393m long.</td>
</tr>
<tr>
<td><strong>Maheshwar</strong></td>
<td>Madhya Pradesh</td>
<td>Shree Maheshwar Hydro Power Corp Ltd</td>
<td>10 X 40 MW Kaplan</td>
<td>2010</td>
<td>BHEL</td>
<td>BHEL, SEW Construction, Prasad &amp; Co</td>
<td>In 1993, the government awarded the concession for the 400-MW Maheshwar project to the Indian textile company S Kumars. The site in Nimad District 2km upstream from the town of Mandleshwar had been in development since 1978. After years of delay and numerous changes in</td>
</tr>
<tr>
<td><strong>Mahi Bajaj</strong></td>
<td>Rajasthan</td>
<td>Rajasthan Rajya Vidyut Utpadan Nigam Ltd</td>
<td>2 X 25 MW, 2 X 45 MW Francis</td>
<td>1986-1989</td>
<td>BHEL</td>
<td>BHEL</td>
<td>Development of the multistate Mahi Bajaj Sagar Project started with laying of the foundation stone in 1960. The project is named after national leader Shri Jamnala Bajaj. Major construction activities started in 1972 and the project was dedicated by Prime Minister Indira</td>
</tr>
</tbody>
</table>
Ownership, the project is now controlled by Shree Maheshwar Hydro Power Corp Ltd, 68.7% owned by Entegra Ltd. Entegra in turn is controlled by MW Corp Pvt Ltd, a company that was formed as part of the reorganization of S Kumars Group in December 2006. Work restarted in November 2005 and the plant is scheduled for start-up by year-end 2010 at a final cost of Rs 27.6bn.

Photograph courtesy of Entegra Ltd
Posted 17 Feb 2010

Gandhi in Jan 1983. Releases from Mahi Reservoir are to Power House I (2 x 25 MW), 8km from Banswara town, for sale into Rajasthan. The share of Gujarat state is routed to Power House II (2x45 MW) 40km from Banswara town on the bank of the Anas River, a major tributary of the Mahi.

Photograph courtesy of Ministry of Water Resources
Posted 9 Apr 2006
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<th>Plant Name</th>
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<th>Operator</th>
<th>Configuration</th>
<th>Operation Year</th>
<th>T/G Supplier</th>
<th>EPC</th>
<th>Quick Facts</th>
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<tbody>
<tr>
<td>Akkihebbal</td>
<td>Karnataka</td>
<td>Cauvery Hydro Energy Ltd</td>
<td>2 x 2.75 MW</td>
<td>2007</td>
<td>??</td>
<td>??</td>
<td>Akkihebbal SHP is on the River Hemavathi, a tributary to the River Cauvery. The station was commissioned in Aug 2007.</td>
</tr>
<tr>
<td>Almatti Dam</td>
<td>Karnataka</td>
<td>Karnataka Power Corp Ltd</td>
<td>5 x 55 MW, 1 x 15 MW Kaplan</td>
<td>2005</td>
<td>Kvaerner, Siemens, Siemens, Gammon</td>
<td>Kvaerner, Siemens, Gammon</td>
<td>The Almatti Dam power house was built on the toe of an existing dam on the Krishna River in Bagalkot Dist. The power station was in development for years as part of the Upper Krishna multipurpose project. The 1,500m long dam was built by Gammon from 1991-1998, but operation of a hydro project necessitated increase water storage. This was contested by Andhra Pradesh and finally settled until Apr 2000 by Supreme Court order. Power station development dates to 1992 when the state government signed an MOU with Asia Power Corp Ltd. The project then went to a joint venture consortium under Chamundi Power Corp Ltd, which eventually came up with a revised project report after the Supreme Court judgment for setting up the power house at an estimated cost of Rs 1469.8cr. This proposal was rejected by the CEA and the project was turned back to KPCL and approved by CEA in Mar 2002 at an estimated cost of Rs674cr including financing. Construction and commissioning thereafter was to schedule.</td>
</tr>
<tr>
<td>Ghataprabha</td>
<td>Karnataka</td>
<td>Karnataka Power Corp Ltd</td>
<td>2 x 16 MW Kaplan</td>
<td>1992</td>
<td>BHEL</td>
<td>??</td>
<td>This dam across the Mahi River, a major tributary of the Krishna River, was completed for irrigation purposes in 1979. The powerhouse is located on the right bank of the dam headworks.</td>
</tr>
<tr>
<td>Hemavathy Left Bank</td>
<td>Karnataka</td>
<td>Subhash Projects and Marketing Ltd</td>
<td>2 x 10 MW Kaplan</td>
<td></td>
<td></td>
<td>??</td>
<td>Kabini Dam</td>
</tr>
<tr>
<td>Kabini Dam</td>
<td>Karnataka</td>
<td>Subhash Projects and Marketing Ltd</td>
<td>2 x 10 MW Kaplan</td>
<td></td>
<td></td>
<td>??</td>
<td>Kabini Dam</td>
</tr>
<tr>
<td>Kadamane</td>
<td>Karnataka</td>
<td>Paschim Hydro Energy Pvt Ltd</td>
<td></td>
<td></td>
<td></td>
<td>??</td>
<td>Kadamane</td>
</tr>
</tbody>
</table>
**Operator:** Hemavathy Power & Light Pvt Ltd  
**Configuration:** 4 X 4 MW S-Turbine  
**Operation:** 2001  
**T/G supplier:** Flovel, BHEL  
**EPC:** Madhucon Projects  
**Quick facts:** The Hemavathy Left Bank Canal project consisted of an intake channel and pond, intake structure, power house, tailrace channel and pond. The original developer and owner was Sandur Manganese & Iron Ores Ltd, but the plant was sold in Mar 2004.  
*Photograph courtesy of Madhucon Projects Ltd  
Posted 26 Jul 2008*

**Operator:** Paschim Hydro Energy Pvt Ltd  
**Configuration:** 2 X 4.5 MW Pelton  
**Operation:** 2007  
**T/G supplier:** VA TECH, Sanelec Excitation Systems  
**EPC:** Subhash Projects  
**Quick facts:** The Kadamane minihydel scheme includes a small diversion weir across Kadamane stream, a head race tunnel, surge shaft, penstock tunnel and buried penstock connecting to the two generating units. The first unit became operational in Apr 2007 and the second in Jun 2007. KVK Energy has a 20% stake in the plant, which has a PPA with Karnataka Power Transmission Corp Ltd.  
*Photograph courtesy of Alternate Hydro Energy Center  
Posted 28 Dec 2008*

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**Operator:** Ambuthirtha Power (P) Ltd  
**Configuration:** 2 X 11 MW Kaplan  
**Operation:** 2007  
**T/G supplier:** Fouress, Resita  
**EPC:** TCE, Asian Tech, Coastal Projects  
**Quick facts:** Development and construction of MGHETRS was managed by Soahm Renewable Energy. The project is near Jog Falls, Shimoga, and features a 25m diversion dam and a 3.2km, 4.5m dia headrace tunnel. It was one of the first Indian projects commissioned under the Indian Electricity Act 2003 to be classified as a "Captive Power Project" by Praxair India (P) Ltd and also one of the first registered as a CDM project. Financing was by a consortium, led by Housing and Urban Development Corp Ltd (HUDCO) and including Rural Electrification Corp and Syndicate Bank. Equity partners are India Clean Energy Ltd and Praxair India Pvt Ltd.  
*Photograph courtesy of Soham Renewable Energy Pvt Ltd  
Posted 17 May 2010*

**Operator:** Cauvery Hydro Energy Ltd  
**Configuration:** 2 X 1.5 MW Kaplan  
**Operation:** 1998  
**T/G supplier:** Jyoti  
**Quick facts:** Shiva was built across a power channel drawn from the River Cauvery. The station went into operation in Sep 1998.  
*Photograph courtesy of Cauvery Hydro Energy Ltd  
Posted 15 May 2010*
## Hydroelectric Power Plants in India - Uttarakhand

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<th>Operator</th>
<th>Configuration</th>
<th>Operation</th>
<th>T/G supplier</th>
<th>EPC</th>
<th>Quick facts</th>
</tr>
</thead>
</table>
| **Galogi** | Location: Uttarakhand | Operator: Uttaranchal Jal Vidyut Nigam Ltd | Configuration: 2 X 1 MW, 2 X 500 kW Pelton | Operation: 1907-1914 | T/G supplier: Boving |  | Quick facts: This plant on the Bhatta River in Dehradun District is considered India’s second oldest hydroelectric plant. In 1998, SCP and Alternate Hydro Energy Centre (AHEC) University of Roorkee completed mechanical, civil and electrical repairs for the power station. Funding for the project was from CIDA. Further rehabilitation efforts are in train.  
Photograph courtesy of Gestion Conseil SCP  
Posted 26 Aug 2007 |
| **Dhauliganga** | Location: Uttarakhand | Operator: National Hydroelectric Power Corp Ltd | Configuration: 4 X 70 MW Kaplan | Operation: 2005 | T/G supplier: Alstom | EPC: Electrowatt, Kajima, Daewoo, Samsung, Hindustan Construction | Quick facts: This project is a run-of-the-river scheme on the Dhauliganga River, a tributary of the Kali on the Indo-Nepal border. It was authorized in Apr 1991 at a cost of Rs 602 crore and construction started in Feb 2000. Civil works include a 56m concrete face rock-fill dam, a 5.29km headrace tunnel, and an underground powerhouse, all built in very difficult terrain in the Indian Himalayas. The project is designed to generate 1,134 GWh/yr with grid connection via a 300km, double-circuit 220kV transmission line to Bareilly set up by Power Grid Corporation Ltd.  
Photograph courtesy of National Hydroelectric Power Corp  
Posted 19 Apr 2006 |
| **Sobla** | Location: Uttarakhand | Operator: Uttaranchal Jal Vidyut Nigam Ltd | Configuration: 2 X 3 MW Francis | Operation: 1999 | T/G supplier: Kvaerner |  | Quick facts: This plant is on the Dhauliganga River in Pithoragarh District. It is scheduled for overhaul and modernization by 2009.  
Photograph courtesy of Gestion Conseil SCP  
Posted 26 Aug 2007 |
| **Tehri Dam** | Location: Uttarakhand | Operator: Tehri Hydroelectric Development Corp Ltd | Configuration: 4 X 250 MW Francis | Operation: 2006-2007 | T/G supplier: Kharkov, UETM | EPC: Hydropower Institute, National Projects Construction Corp Ltd | Quick facts: The two-stage, Tehri dam and hydroelectric project is on the Bhagirathi River. The 260.5m rockfill dam is the largest in Asia and one of the tallest in the world. The scheme was first |
contemplated in 1949, but development took over 50 yrs and was the target of extended protests by local citizen groups. Final approvals for construction were in 1990. In 1996, the protests forced the Indian Prime Minister to appoint an expert committee to review the project, but the results were inconclusive and final appeals were dismissed in the fall of 2003. The second phase consists of a pumped-storage power plant with four more 250-MW sets.

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