

### **Ongoing or In Pipeline Private Sector Participation Projects (PSP) In HydroPower Sept. 2007**

<b>Sr.No.</b>	<b>Name of Project</b>	<b>State (District)</b>	<b>Company</b>	<b>Features</b>
1	Jalaput Dam Toe HEP	Andhra Pradesh (Visakhapatnam) and Orissa (Koraput)	Orissa Power Consortium Ltd.	18 MW, Estimated Cost Including IDC Rs. 69.68 crores.
2	Bharali II	Arunachal Pradesh	Reliance Energy, ADA Group	The 600 MW Bharali II is in the East Kameng basin. PFR has been drawn up by the state government. Company will have to come up with DPR.
3	Government of Arunachal Pradesh	Arunachal Pradesh	Plans for DBOOT HEPs	Planning to build 13 HEPs on DBOOT basis. The projects are proposed at Amulin, Emini, Angoline, Mithudon, Etabu, Malinye, Emra -I, Emra - II, and Elango in Dibang valley and at Sissiri in the lower Dibang valley, at Hutong -I in Anjaw, Demwe in Lohit and Kalai - II in Anjaw.
4	Hutong II	Arunachal Pradesh	Reliance Energy, ADA Group	The 1,250 MW Hutong-II is in the Lohit basin. PFR has been drawn up by the state government. Company will have to come up with DPR.
5	Kalai I	Arunachal Pradesh	Reliance Energy, ADA Group	The 1,450 MW Kalai I Project is in the Lohit basin. PFR has been drawn up by the state government. Company will have to come up with DPR.
6	Name of the projects not known	Arunachal Pradesh	Jaypee Group, Reliance Energy, & DS Group	Three private sector entities, entered into agreements with the Arunachal government to develop hydropower projects with aggregate capacity 4,800 MW involving an investment of Rs. 25, 000 crores. From some reports it seems that the projects are Siyom and Lower Siyang. The initial work on the projects was done by NHPC since these projects were issued by the power ministry in favour of NHPC. But now the state government has signed MOUs with Reliance Energy and JP Associates.
7	Talong Hydroelectric Project	Arunachal Pradesh (East Kameng)	GMR Energy, subsidiary of GMR Group	160 MW, Rs. 900 crore project for which GMR Energy has signed a MOU for implementation, operation and maintenance of the on Kemang river. The project will be implemented on BOOT basis. The project is in advanced stage of development. The DPR of the project has already been prepared and the MOEF has accorded environment clearance for stage I subject to clearances from all the concerned authorities, construction work is expected to start within a year's time. Tariff for the first year is expected to be far below the current power rates in the north-eastern sector. The company has offered 14 percent of free power to AP government and 2 paisa/KWH as additional benefit to the state. The tariff will be fixed by the Central Electricity Regulatory Commission. The company has offered 12 percent equity to the state in the hydro power company. HEP is scheduled to be commissioned by end of 2011.
8	Naying HEP	Arunachal Pradesh (West Siang)	DS Construction Ltd	1000 MW, BOOT project on Siyom river. First such project for the company.

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9	Chuzachen HEP	East District (Sikkim)	Gati Infrastructure, a unit of Gati Group	99 MW project with 48.5 mts. high dam. Cost of the project is Rs. 448.76 crores. State clearance to the project is given on 30.11.2004. Environment clearance and Forest clearance obtained on 09.09.2005 and 09.01.2006 respectively. Civil works and Hydro-Mechanical works awarded to M/s SEW & PRASAD (Joint Venture) on 12.08.2006. E&M works awarded to M/s Alstom Projects (I) Ltd. on 20.12.2006. Financial closure documentation is in progress.
10	Budhil HEP	Himachal Pradesh	Lanco Green Power Pvt. Ltd.	70 MW project from a 58 mts. high dam, costing, from a Rs. 418 crore is under execution in private sector by M/s LANCO. Civil, HM and E&M works awarded. All works awarded and are under progress. Financial closure achieved in March, 2006.
11	Government of Himachal Pradesh	Himachal Pradesh	Global Invitation of Bids for Implementation of Hydroelectric Projects	Proposals have been invited for implementation of 28 identified and other self-identified hydro electric projects in the private sector on BOOT basis of which 12 are in the range of 5-100 MW and the rest above 100 MW. Pre-feasibility report is ready for 8 of them.
12	Government of Himachal Pradesh	Himachal Pradesh	Invitation for Proposals for the Implementation of HEPs in the Private Sector on BOOT basis.	Proposals have been invited for implementation of 23 Hydro Electric Projects in the Private Sector on BOOT basis of which 11 are in the range of 7-90 MW and the rest above 100 MW. All the project are self identified and pre-feasibility report is ready for 7 of them. The projects are spread in the districts of Lahaul & Spiti, Chamba, Shimla, Kangra and Kinnaur in HP.
13	Kutehr Hydel Project	Himachal Pradesh	Bidding process on - DS Construction Ltd. planning to be the highest bidder.	DSCL is planning to be an independent power producer by emerging as the highest bidder for this 260 MW project worth Rs. 1058 crore.
14	Baspa Stage II	Himachal Pradesh (Kinnaur)	M/s. Jai Prakash Hydro Power Ltd.	300 MW, Assured Return of 16% + incentives, 10 year tax holiday, Commissioned on - 27.05. 2003
15	Karcham Wangtoo	Himachal Pradesh (Kinnaur)	M/s. JayPee Karcham Hydro Power Corp.	1000 MW, cost Rs. 5900 crores. Lot of local opposition.s Public Hearing has had to be postponed several times due to improper procedures adopted and local opposition. Financial closure achieved on 30.3.2006. River diversion works completed and river diverted on 11.04.2007.
16	Sorang Hydroelectric Project	Himachal Pradesh (Kinnaur)	M/S Himachal Sorang Power Private Limited, Hyderabad / Shimla	100 MW project costing Rs. 562 crores on Sorang Khad, a tributary of Sutlej. Civil works awarded to M/s SSJV Pvt. Ltd. and Electrical works to M/s Voith Siemens in June, 2007.
17	Allain Duhangan	Himachal Pradesh (Kullu)	M/s. Rajasthan Spinning & Weaving Mills Ltd.	192 MW, On the rivers Allain and Duhangan, Funded by World Bank (IFC), Rs. 922 crores cost, Very strong local protests. Allain river diversion and excavation for the barrage completed.
18	Malana HEP	Himachal Pradesh (Kullu)	M/s. Malana Power Co. Ltd.	86 MW, De facto Captive Power Plant, Commissioned on - 7/2001

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19	Dhamwari Sunda HEP	Himachal Pradesh (Shimla)	M/s. Dhamwari Power Co. Ltd.	70 MW, Estimated Cost including IDC Rs. 440 crores.
20	Malana II HEP	Himachal Pradesh (Shimla)	M/S Everest Power Company	100 MW, with the dam height of 45.5 mts. Upstream of Malana I on Beas river . Original cost was Rs. 663 crores. Now revised cost is Rs. 598 crores. Project is under execution in private sector by M/s Everest PC. Civil works awarded. Financial closure on 03.08.2006. Works started w.e.f. 01.01.2006. PPA signed between PTC India Ltd. and M/s Everest Power Ltd on 25.07.2005.
21	Sawalkot HEP	Jammu & Kashmir	SPAS Norway, Ozaltin Turkey & HCC Ltd. India	1,200 MW project, costing Rs. 7000 crores approved by J&K cabinet to be constructed by a consortium of three companies on turnkey basis. The two foreign companies, SPAS Norway and Ozaltin Turkey will invest Euro 415 million, with HCC Ltd. spending Rs. 1,926 crore.
22	Uri Hydel Project	Jammu & Kashmir	Hindustan Construction Company	240 MW project entails investment of Rs. 650 crores (Rs. 75 crore of cost escalation over the years) is slated to be complete in September 2009. The project will come up in four units (4x60).
23	Markandeshwar HEP, Chickmagalur	Karnataka	DPR being prepared	The DPR for Ittina Energy's 2x2.5 MW (upstream) Markandeshwar HEP scheduled for completion. The project would set up a 10 MW (2x5 MW) Markandeshwar Mini hydel based unit on Bhadra river with an investment of Rs. 50 crore. The unit comprises 2x2.5 MW upstream and 2x2.5 MW (downstream).
24	Shongtong Karcham & Sainj HEP	Kinnaur, Himachal Pradesh	EOI Invited by Himachal Pradesh State Electricity Board	For 402 MW Shongtong Karcham & 100 MW Sainj HEPs in HP on turnkey basis through deferred release of payment.
25	Handia Hydropower Project	Madhya Pradesh	EOI Invited	50 MW Project, On Narmada River At Tail End of Indira Sagar Reservoir.
26	Maheshwar Hydropower Project	Madhya Pradesh (Khargone)	M/s. Shree Maheshwar Hydel Power Corp. Ltd	400 MW project on river Narmada, PPA in 1994, Was to be operational by 2000. The original cost of the project was Rs. 1569 crores which has now increased to Rs. 1673 crore. The height of the dam would be 535 mts. Works at the dam site were stalled in 2001, started again in Dec 2005. The project is facing Rehabilitation & Resettlement problems and funds constraint. Work has been stopped due to strong resistance by Narmada Bachao Andolan since 1998. Several international companies, ECAs have withdrawn. The project was being executed by S. Kumars. Now in public sector control. SEW Constructions has received a letter of intent from the project scompany for supply, fabrication and erection of crest gates for a 10x40 MW hydel-based power plant.
27	Wainganga HEP	Maharashtra (Chandrapur)	SMS Vidhyut Private Limited	3x4.5 MW (13.5 MW) project. Project will be jointly financed by SMS Vidhyut Private Limited and National level financial institution in India.
28	Pench Kamptee-Khairy LBC HEP	Maharashtra (Nagpur)	SMS Vidhyut Private Limited	2x2.2 MW project. Project will be jointly financed by SMS Vidhyut Private Limited and National level financial institution in India.

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29	Pench Kamptee-Khairy RBC HEP	Maharashtra (Nagpur)	SMS Vidhyut Private Limited	2x0.7 MW project. Project will be jointly financed by SMS Vidhyut Private Limited and National level financial institution in India.
30	Morbe HEP	Maharashtra (Panvel, Raigad)	Bids invited to install hydroelectric project	Bids invited for Pre-Qualification and for Price for electricity generation at Morbe Dam of NMMC, from manufacturer or bidder who intend to install Hydro Electric Project of 1.5 MW or more capacity on BOT basis for the period of 30 years from the date of commissioning of the project.. Developer is allowed to sell all the energy generated in the project to any utility or the third party.
31	Teesta VI HEP	Sikkim	M/s Lanco Energy Private Ltd.	500 MW, Cost Rs. 1561 crores Environmental Clearance obtained in September 2006. Sikkim Government to hold 26% equity. Lot of opposition continuing against this project and the others in Sikkim by the local people including the Lepchas, Sangas and other indigeneous people from Dzongu region aganist destroying their centuries old habitat and culture.
32	Jorethang Loop HEP	Sikkim	Dans Energy Pvt. Ltd.	96 MW project. The project on Rangit river is taken up with out consultation with the local people and without providing them information about project impacts EIA or the carbon credits for which the project has applied.
33	Panan HEP	Sikkim	Himagiri Hydro Energy Pvt. Ltd., Hyderabad	280 MW project. The project would have a 56 mts. High dam on Tolung Chhu river. MOEF has given clearance to the project on 02.01.07. Project would require almost 27 hec. of forest land within the Dongzu region in Sikkim which has a special protected status granted by the constitution of India and prohibits any outside activity within the region to preserve the Lepcha culture.
34	Teesta Stage III HEP	Sikkim (North District)	M/s. Teesta Urja Ltd.	1200 MW, 60 mts.height. Estimated Cost including IDC Rs. 5705.55 crores. TEC from CEA accorded on 12.05.2006. Environment clearance obtained in Aug, 2006. Infrastructure works are in progress. LOA issued to the consortium of CKD-NEC-SEW-CGGC ABIR-SABIR on 18.04.2007 for execution of the project on turnkey basis. Financial closure has been achieved on 14th August, 2007.
35	Uttaranchal Jal Vidyut Nigam Limited (UJVNL), Dehradun	Uttaranchal	Expression Of Interest	UJVNL has issued global invitation for EOJ to execute one of its large, green site hydro power projects, in association with a JV partner. The equity participation will be 51% minimum for UJVNL & 49% maximum for JV partner.
36	Bhilangana HEP	Uttaranchal	Swasti Power Engineering Ltd.	22.5 MW. Still in the early stages of consutation and clearances. Sources say that the project is being carried out without proper consultation with the local people, this would lead to violating the rights of the people and the CDM norms of consultation with the local people and the stakeholders.
37	Vishnu Prayag	Uttaranchal (Chamoli)	M/s. Jaiprakash Power Venture Ltd.	400 MW, Estimated Cost Including IDC Rs.1615 crores on BOO basis. The project is designed on the river Alaknanda. 12% free power would go to the state and the rest would be purchased by UPPCL. Commissioned in June 2006. PPA for the project was signed in Sept. 2002

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38	Srinagar HEP	Uttaranchal (Pauri Garhwal)	M/s. Alaknanda Hydro Power Co. Ltd. (GVK Group Company)	330 MW, from a 66.5 mts. high dam. Estimated Cost including IDC Rs.1699 crores. TEC accorded by CEA on 14.6.2000. Order for civil works awarded to M/s NCC-GVKPL consortium on 11.06.07. LOA for E&M works issued to M/s BHEL in April,2007. Financial closure achieved on 3.8.2007.
39	Urthing Sobla HEP	Uttaranchal (Pithoragarh)	M/s. Reliance Energy Ltd.	280 MW, on Dhauliganga river.
40	Singoli Bhatwari HEP	Uttaranchal (Rudraprayag)	M/s. Larsen & Toubro	60 MW project costing Rs. 500 crores, on Mandakini river on BOOT basis for 45 years. DPR is under preparation.