

## COOPERATION WITH BHUTAN

As on 30.4.2012

### Hydro Potential of Bhutan

<b>Major River System in Bhutan</b>	<ul style="list-style-type: none"><li>• Torsa</li><li>• Wangchu (known as Raidak in India)</li><li>• Sankosh</li><li>• Manas.</li></ul>
<b>Hydro Potential</b>	23,760 MW from 76 hydro schemes (> 10 MW capacity)

**Following H.E. Projects have been developed / are under development under Indo-Bhutan Cooperation**

#### A. Projects under Operation

Sl. No.	Name of the project	Installed capacity (MW)	Total Cost Rs.(Crores)	Funding pattern	
				Loan	Grant
1	Chukha H.E. Project	336	246.00	98.40 (40%)	147.60 (60%)
2	Kurichu H.E. Project	60	555.00	222.00 (40%)	333.00 (60%)
3	Tala H.E. Project	1020	4125.85	1650.34 (40%)	2475.51 (60%)

#### B. Projects under Construction

Sl. No.	Name of Project	Installed Capacity (MW)	Total Cost Rs.(Crores)	Funding Pattern		Date of Agreement
				Loan	Grant	
1	Punatsangchhu H.E. Project Stage-I	1200	3514.81	2108.88 (60%)	1405.92 (40%)	July,2007
2	Punatsangchhu H.E. Project Stage-II	1020	3777.80	2644.46 (70%)	1133.34 (30%)	April,2010
3	Mangdechu H.E. Project	720	2896.30	2027.41 (70%)	868.89 (30%)	April,2010

**C. Projects for which DPR have been Prepared**

Sl. No.	Name of Project	I. C. (MW)	DPR prepared by	DPR submission / Acceptance for examination	Date of Agreement	Status
1	Kholongchu H.E. Project	650	SJVNL	July, 2011 / July,2011	Dec.,2009	DPR is under advanced stage of examination in CEA / CWC.
2	Sankosh H.E. Project	4060	THDC	Mar.,2011	Mar.,2010 (MoU)	DPR on Rockfill dam submitted by THDC in April,2009. DPR of concrete dam option submitted in March,2011. Revised DPR to be prepared by THDC based on the studies carried out by THDC in consultation with CEA, CWC and RGoB.
3	Bunakha H.E. Project	180	THDC	Dec., 2011 / Feb., 2011	June,2010	DPR under examination in CEA/ CWC.
4	Amochu Reservoir H.E. Project	620	NTPC	Oct., 2011 / Dec., 2011	Dec.,2009	DPR under examination in CEA/ CWC..
5	Wangchu H.E. Project	570	SJVNL	Jan., 2012 / Feb.,2012	Oct.,2010	DPR under examination in CEA/ CWC
6	Chamkharc hu – I (Digala)	670	NHPC	Mar., 2012	Dec.,2009	DPR submitted to CEA.

**D. Projects for which agreements have been signed between RGoB and CPSUs for Preparation of DPR**

Sl. No.	Name of Project	I.C. (MW)	CPSUs who have to prepare DPR	Schedule for Preparation of DPR/PFR	Date of Agreement	Status
1	Kuri Gongri H.E. Project	1800	NHPC	PFR by June, 2012	Dec.,2009	Work on the DPR suspended in June,2011. NHPC asked to carry out PFRs of two other options. PFR costs amounting to Rs. 14.5 Crores cleared by CEA in December, 2011. PFR agreement yet to be signed between DHPS, RGoB and NHPC.

