



# INVESTOR PRESENTATION

4<sup>th</sup> June, 2014

**NHPC Today**

**Financial Highlights**

**Investment Plan**

**Other Business Development Initiatives**

**Financial Ratios**

**Projects At a Glance**

# NHPC-Today

**A Mini Ratna Category–I Enterprise of Govt. of India with a Paid Up Capital of Rs. 11070.67 Crore.**



# NHPC –Physical Snapshot

- ✓ **Projects Completed on Standalone basis-18 Nos. (4987 MW)**
- ✓ **Projects Completed with Subsidiary 2 Nos. (1520 MW)**
- ❖ **Total Operational Projects – 20 Nos. (6507 MW)**
- **Projects Under Construction 4 Nos. (3290 MW)**
- **Projects Awaiting Clearances –**
  - ❑ Standalone - 5 Nos. (5115 MW)
  - ❑ Joint Venture - 3 Nos. (2120 MW)
  - ❑ Subsidiary – 1 Nos. (66 MW)
- **Projects in Pipeline 4 Nos. (2120 MW)**

**Installed Hydro Power (40531) is 16.68% of All India Installed Capacity of 243029 MW.**

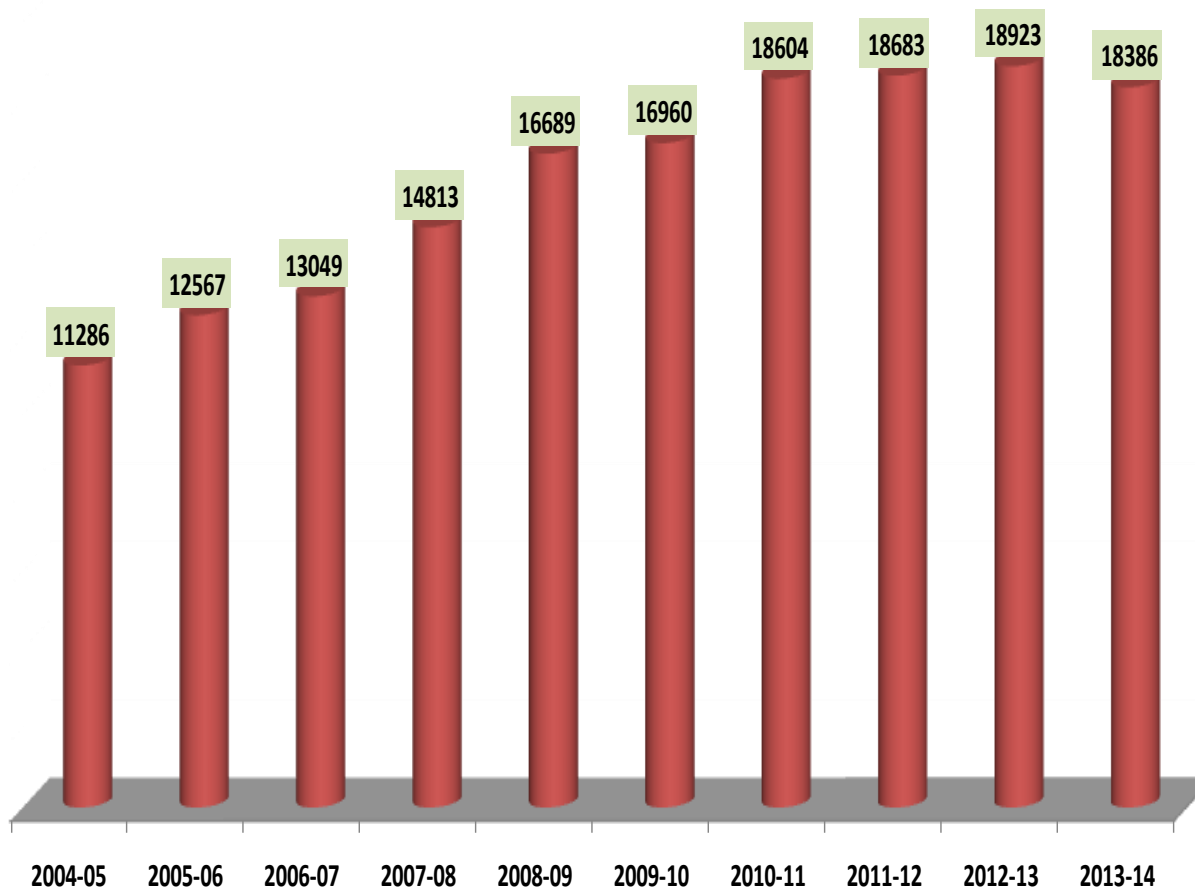
**NHPC Contribution (6507 MW) is 16.05% of Installed Hydro Power.**

**NHPC has added four power station during the FY 14 with Installed Capacity of 807 MW**



# NHPC 's Track Record – A Ten Year Digest

Standalone Generation in (M.U)



**Country Generation 13-14**  
**9,66,379 MU**



**Share of Hydro Power-**  
**1,34,731 MU (14%)**



**Share of NHPC-**  
**18,386 MU (14%)**

# NHPC- Financial Highlights

# PROFIT & LOSS (Rs. in Crore)

Power Station (No.)  Generation (MU)  Unit Sold (MU) :	FY 2013-14		<u>FY 2013-14</u> 18 [ 4857 MW] 18386 (16741+1645) 15942 (14611+1331)	<u>FY 2012-13</u> 14 [4050 MW] 18904 (18162+902) 16397 (15821+576)
	Subansiri Lower & TLDP-IV	Rest of Others		
Net Sales/Income from Operations	0	5335	5335	5049
Other Operating Income	0	202	202	262
Other Income	58	1399	1457	993
Total Income	58	6936	6994	6302
Employee Cost	108	951	1059	887
Depreciation & Amortisation	8	1203	1211	969
Other General Expenses	221	1395	1616	1099
Finance Cost	483	539	1022	385
Exceptional Items				-240
Prior Period Items	506	-3	503	-
Total Expenditure	1327	4084	5411	3100
PBT	-1268	2851	1583	3202
Tax	-268	872	604	854
PAT	-999	1978	979	2348

# FACTORS AFFECTING PAT (F.Y. 2013-14 v/s F.Y. 2012-13) (Rs. in Crore)

Factors for increase in PAT	Total
Increase in Net Sales	286
Decrease in Tax	250
Increase In Other income	464
<b>Increase (A)</b>	<b>1000</b>
<b>Factors for decrease in PAT</b>	
Decrease due to charging off expenditure during interruption period - Subansiri Lower and TLDP-IV	1327
Increase in Employee Cost	64
Increase in Generation, Administration & Other expenses	292
Increase in Depreciation & Amortization expenses	232
Increase in Finance Cost	154
Net Decrease in Other Operating Income	60
Exceptional Item (DTL)	240
<b>Decrease (B)</b>	<b>2369</b>
<b>Net Decrease in Profit After Tax (A-B)</b>	<b>1369</b>

# Incentive Position

## Details of Incentives, Secondary Energy, UI Charges (Rs. In Crores)

S.N o	Particulars of Incentives	FY2014					FY2013				
		Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
1	Secondary Energy	63.39	22.39	20.43	-20.15	86.06	63.14	41.46	22.53	-15.96	111.17
2	Incentives	93.85	92.6	20.51	-35.58	171.38	83.94	74.94	17.33	-17.49	158.72
3	UI Charges	23.37	11.58	21.88	15.24	72.07	44.13	23.79	21.42	26.52	115.86
Total		180.61	126.57	62.82	-40.49	329.51	191.21	140.19	61.28	-6.93	385.75

## PAF

FY2014		FY2013	
PAF Target	PAF Achievement	PAF Target	PAF Achievement
75.9%	77.7%	81%	85.3%

# FACTORS FOR DECREASE IN NET PROFIT

	REASONS FOR DECREASE IN PROFIT																
1	<p><b>Owing to interruption of construction activities at Subansiri Lower and TLDP IV Project, the Borrowing Cost and Administration &amp; Other Cost is Charged to P&amp;L in line with the opinion of EAC ( Expert Advisory Committee) of the ICAI.</b></p> <table><tr><th>Project</th><th>Borrowing Cost</th><th>Admin. &amp; Other Cost</th><th>Total</th></tr><tr><td>Subansiri Lower</td><td>766.90 crs</td><td>341.54 crs</td><td>1108.44</td></tr><tr><td>TLDP IV</td><td>91.35 crs</td><td>67.91 crs</td><td>159.26</td></tr><tr><td>Total</td><td>858.25</td><td>409.45</td><td>1267.7</td></tr></table>	Project	Borrowing Cost	Admin. & Other Cost	Total	Subansiri Lower	766.90 crs	341.54 crs	1108.44	TLDP IV	91.35 crs	67.91 crs	159.26	Total	858.25	409.45	1267.7
Project	Borrowing Cost	Admin. & Other Cost	Total														
Subansiri Lower	766.90 crs	341.54 crs	1108.44														
TLDP IV	91.35 crs	67.91 crs	159.26														
Total	858.25	409.45	1267.7														
2	<p><b>Shut down of Dhauliganga</b></p> <p>Due to cloud burst and unprecedented high flood in Uttarakhand in the early hours of June 17, 2013, water entered into Dhauliganga Power Station (280 MW) and submerged all the system resulting into stoppage of generation from the plant and damage to Generating Plant and Machinery and various ancillary structures of the power station.</p>																
3	<p><b>Decrease in Secondary Energy , Incentives and UI Charges</b></p> <p>There has been a net decrease in Secondary Energy , Incentives and UI Charges amounting to ₹56.24 crs.</p>																
4	<p><b>Decrease in Generation</b></p> <p>There has been a net decrease in generation amounting to 535 MUs from FY 2012-13 i.e a decrease of 1189 MUs in existing projects and increase of 654 MUs on account of new projects.</p>																

# Sale of Power-Debtor Details

## Debtors as on 31.03.2014

S.No.	Particulars	Amount (in Crs.)
1	Beneficiary wise Debtors	1838.69
2	UI Charges	6.61
3	Unbilled Debtors	426.04
4	PTC	0.27
G.Total		2271.61

## Beneficiary wise Debtors (Top Five) as on 31.03.2014

S.No.	Particulars	Amount (in Crs.)
1	PDD, J&K	1064.25
2	UPPCL, UP	179.61
3	PSPCL, Punjab	89.66
4	HPPC	62.01
5	BYPL, Delhi	56.32

## Break up of Beneficiary wise Debtors as on 31.03.2014

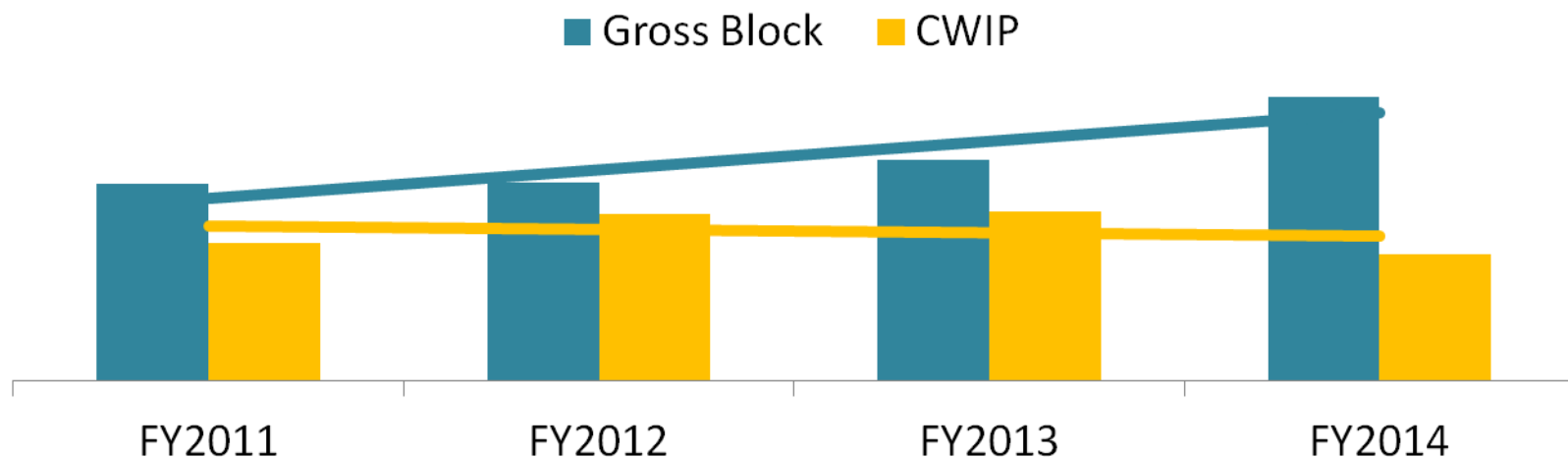
S.No.	Particulars	Amount (in Crs.)
1	Less than 60 days	853.39
2	More than 60 days	955.08

## Beneficiary wise Debtors More than 60 Days (Top Five) as on 31.03.2014

S.No.	Particulars	Amount (in Crs.)
1	PDD, J&K	870.66
2	BYPL, Delhi	29.37
3	MeCL, Meghalaya	15.94
4	BSPHCL, Bihar	13.72
5	BRPL, Delhi	9.44

# Gross Block V/s CWIP

S.No.	Particulars	Gross Block Amount (In Crs.)	CWIP Amount (In Crs.)	CWIP % to Gross Block
1	As on 31.03.2014	32931.02	14657.13	44.51 %
2	As on 31.03.2013	25720.04	19709.04	76.63 %
3	As on 31.03.2012	23060.93	19349.74	83.91 %
4	As on 31.03.2011	22874.93	15962.77	69.78 %



# NHPC-Achievements During the Current Fiscal

## Achievements during the FY 2013-14

### 1 Projects Commissioned during the FY 2013-14

Project	Capacity Added (MW)	Design Energy (Mus)	CCEA Cost (Rs. in Crore)	Revised Cost (Rs. in Crore)	Regulated Equity (Rs. in Crore)	Remark
TLDP III	132	594	769	1973	577.74	Units- 2 & 3 put on commercial operation on 01.04.2013 and Unit-4 on 01.05.2013 and Unit-1 on 19.05.2013.
Uri II	240	1123	1725	2321	506.49	All four units commissioned & put on commercial operation.
Parbati III	390	793	2348	2348	691.37	Units-1, 2 & 3 have been commissioned and put on commercial operation. Unit-4 of Project is likely to be commissioned by Aug-14.
Nimoo Bazgo	45	239	611	911	209.66	All units Synchronized/commissioned at available load on 10.10.2013 and commissioned at full load on 30 & 31 <sup>st</sup> Oct, 2013 and 02 <sup>nd</sup> Nov, 13.
<b>Total</b>	<b>807</b>	<b>3919</b>	<b>5453</b>	<b>7553</b>	<b>1985.26</b>	

### 2 Buyback of Equity Shares

- Buyback has been implemented in the month of Dec'13 for 123 crs equity shares @19.25 per share.
- Buyback has resulted in the reduction of Paid up Share Capital from ₹ 12300.74 crs to ₹ 11070.67 crs .
- Utilisation of the surplus cash of ₹ 2368 crore.

## Achievements during the FY 2013-14

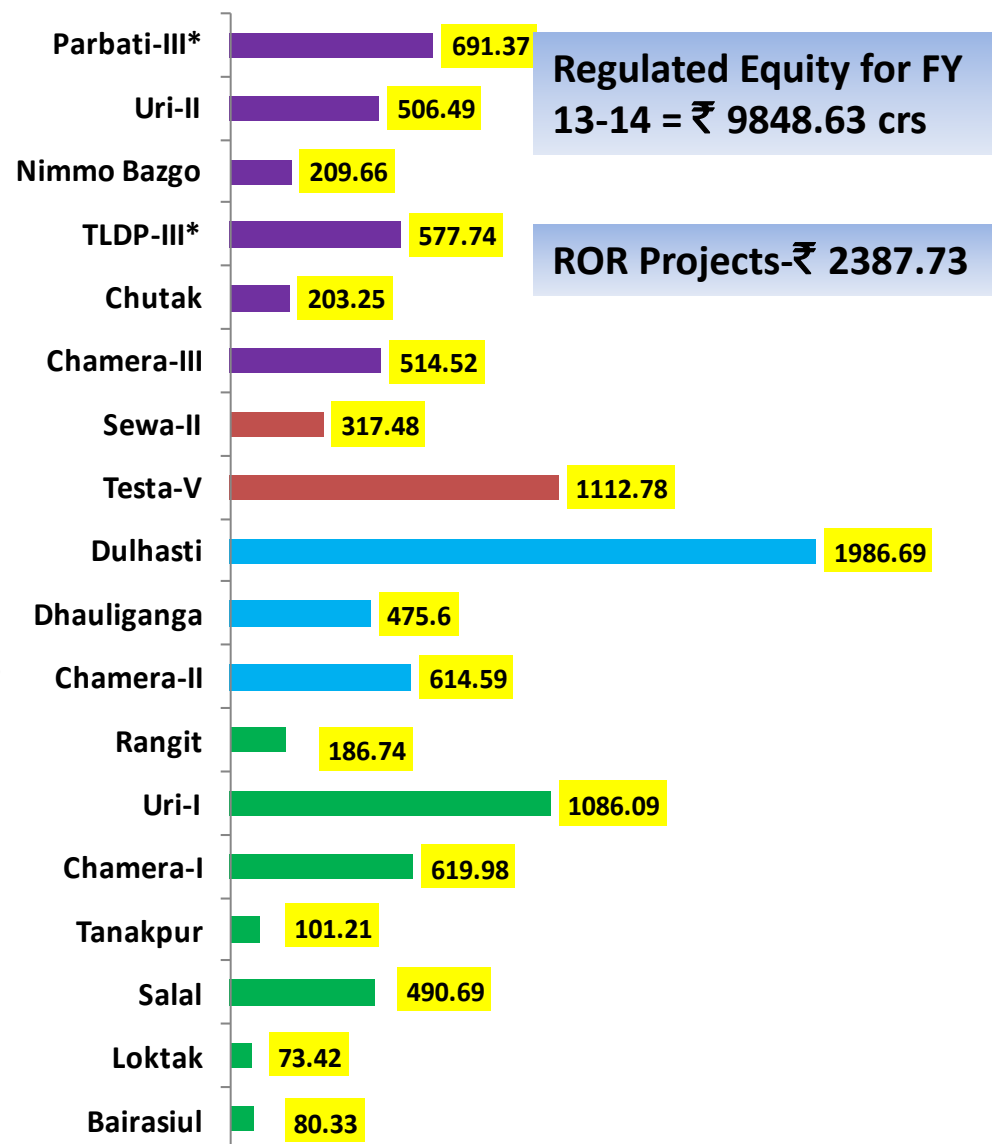
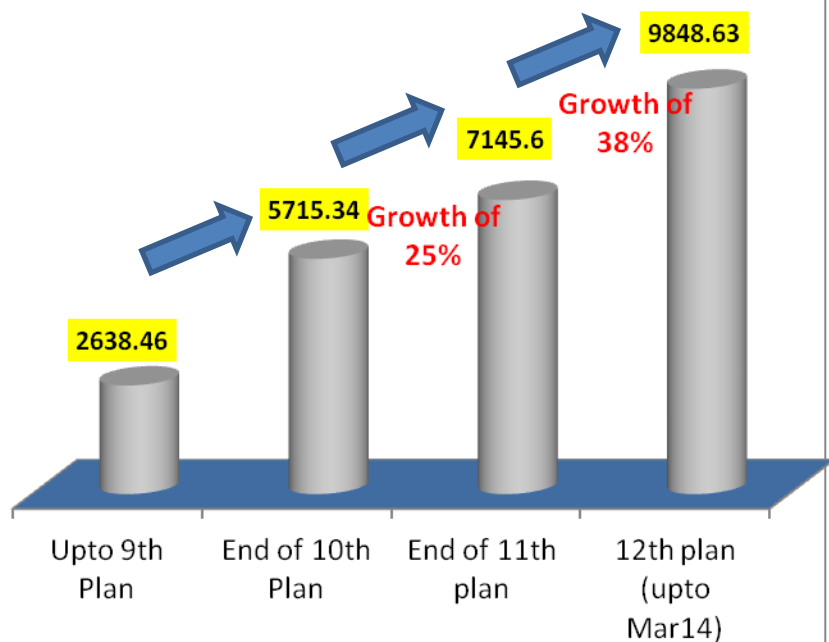
### 3. **Parbati-II - Awarding of Contract for HRT Works.**

- HRT works by TBM (Lot-PB-2A) has been awarded to M/S Gammon-CMC JV on 13.08.13.
- HRT works by DBM (Lot-PB-2B) has been awarded to M/s Valecha Engg. Ltd on 21.11.2014.
- The work is in progress.

### 4. **Dhauliganga - Restoration of Two units**

- Unit # 4 and Unit # 3 were Synchronized on 30.04.14 and 01.05.2014 respectively and both the units started generation from 03.05.2014 and 06.05.2014 respectively.
- Unit # 2 and Unit # 1 are expected to re-commission on 05.06.2014 and 15.06.2014 respectively.
- The company has received 100 crs against the Business Interruption Loss Estimate of ₹248.51 crs and has also received ₹35 crs against the Material Damage Loss Estimate of ₹211.05 crs.

# NHPC – Regulated Equity



Note: \*Equity Deployed in case of TLDP-III is based on petition filed with CERC and in case of Parbati-III is based on figure as per DPR/RCE.

# NHPC- Other Business Development Initiatives

- ☐ Solar Energy
- ☐ Wind Energy
- ☐ Thermal Energy

# Renewable Energy Initiatives

## Wind Power Project



- MOU signed with Government of Kerala on 06.01.2014 for development of grid interactive wind energy project with proposed installed capacity of 82MW in Palakkad District of Kerala on BOOT basis.
- C-Wet has been engaged for preparation of DPR, which is likely to be submitted by C-WET in June-2014.
- NIT for Domestic Competitive Bidding has been issued on 28.03.2014 for exploring options of setting up 50MW wind energy project on Turnkey Basis.



## Solar Power Project

- MOU Signed for formation of JVC for implementation of 50 MW Solar Power Project at Tehsil Kalpi, District Jalaun, Uttar Pradesh.
- NHPC Limited and Kerala State Electricity Board Limited (KSEB) signed an agreement for Development of Solar Power Projects by NHPC Limited in Kerala on 08<sup>th</sup> May 2014 at Thiruvananthapuram.
- In the first phase under this agreement, NHPC shall take up implementation of 50 MW grid linked solar power project at West Kallada Panchayat in Kollam District of Kerala.



## MOU With IFFCO & CSPHCL 1320 MW (660x2)

- Signed an MOU with IFFCO and CSPHCL for acquisition of IFFCO share (74%) in existing joint venture in thermal project of 1320 MW (660x2) at Sarguja in Chhattisgarh.
- Coal Supply-Tara Coal Block.
- 100% Power to be purchased by CSEB.
- Project Cost: ₹ 8480.56 crs.
- PIB Memo circulated by MoP.

## MOU With BSPGCL & PIRPAINTI BIJLEE COMPANY 1320 MW (660x2)

- MoU has been signed on February 22, 2014 amongst **NHPC Limited, Bihar State Power Generation Company Limited (BSPGCL) and Pirpainti Bijlee Company Pvt Limited (PBCPL)**.
- To develop 1320 (2X660) MW Pirpainti Supercritical Thermal Power Project in Distt Bhagalpur of Bihar state.
- Coal Supply- Deocha-Panchami Coal Block.
- PPA Signed between PBCPL & BSEB for purchase of 85% power.



# NHPC- Financial Ratios

# NHPC – Financial Ratios FY 2013-14



S.No	Particulars	FY 2014		FY 2013	
		Standalone	Consolidated	Standalone	Consolidated
1.	EPS	0.82*	1.02	1.91	2.13
2.	Book Value	23.90	25.87	22.63	24.69
3.	PB Ratio	0.80	0.74	0.88	0.81
4.	PE Ratio	23.38	18.78	10.42	9.35

S. No.	Particulars	FY 2014	FY 2013
1.	Market Capitalization	21145 crs	24478 crs
2.	Return on Net Worth	3.70% *	8.43
3.	Debt Equity Ratio	0.70	0.67

\* EPS & RoNW excluding impact of Subansiri Lower & TLDP-IV are Rs. 1.65 and 7.84% respectively

Note : P/E ratio and P/B ratio are based on Stock price as on March 31 of respective Financial Years.

# NHPC- Projects At Glance

# NHPC – Projects in Operation



S.N o	NHPC Project & State	Installed Capacity (MW)	Design Energy (MU)	Year of comm.	Completion Cost	Tariff 2013-14 (Rs. /Kwh)	Type of the project
1	Baira Suil , HP	180 (3x60)	779.28	1981	148.08	1.54	Run of River (ROR) with small pondage
2	Loktak, Manipur	105(3x35)	448.00	1983	135.68	2.78	Storage
3	Salal,J&K	690(6x115)	3082.00	1987	959.16	0.96	ROR
4	Tanakpur, UK	120(3x40)	452.19	1992	379.16	2.30	ROR
5	Chamera-I, H.P	540(3x180)	1664.55	1994	2400	2.01	Storage
6	Uri-I, J&K	480(4x120)	2587.38	1997	3300	1.61	ROR
7	Rangit, Sikkim	60(3x20)	338.61	1999	492.26	2.90	ROR with small pondage
8	Chamera-II,H.P.	300(3x100)	1499.89	2004	RC-1987.03 (Mar-04)	2.74	ROR with small pondage
9	Dhauliganga-I,	280(4x70)	1134.70	2006	1788.07	2.91	ROR with small pondage. Two units restored on 30.04.14 and 01.05.2014
10	Dulhasti, J&K	390(3x130)	1907.00	2007	5228.49	6.16	ROR with small pondage

# NHPC – Projects in Operation



S.No.	NHPC Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Completion Cost	Tariff 2013-14 (Rs. /Kwh)	Type of the project
11	Teesta-V, Sikkim	510(3x170)	2573.00	2008	2656.95	2.34	ROR with small pondage
12	Sewa-II, J&K	120(3x40)	533.52	2010	RC-1108.83 (Jul-10)	4.33	ROR with small pondage
13	Chamera-III ,H.P. Himachal Pradesh	231(3x77)	1104.00	2012 (Jun)	RC-2084.01 (Jan-11)	3.77	ROR with small pondage
14	Chutak , J&K	44(4x11)	212.93	2013 (Jan)	RC-893.77 (Jul-10)	6.26	Run of River
15	TLDP-III, W.B	132(4x33)	594.42	2013 (Apr)	RC-1972.99 (Jun-13)	5.57	ROR with small pondage
16	Nimoo Bazgo, J&K	45(3x15)	239.00	2013 (Oct)	RC-911 (Mar-11)	9.85	ROR with small pondage
17	Uri –II, J & K	240(4x60)	1123.76	2014 (Mar)	RC-2321.53	3.33	ROR
18	Parbati-III H.P.	520(4x130)	701.40	Unit-I , II & III (Mar-14), Unit-IV-22.05.13	RC-2715.92 (Mar-11)	6.36	ROR with small pondage
	<b>Total-A</b>	<b>4987</b>	<b>20975.63</b>				

**\*The Financial Implication of Water Usage Charges (Cess) in J&K Power Stations is ₹ 630.31 crs for FY 14.**

# NHPC – Operational Projects with Subsidiary



S. N o	Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Completion Cost	Tariff 2013-14 (Rs./Kwh)	Type of the project
	<b>Projects Completed with Subsidiary</b>						
1	Indirasagar, M .P	1000 (8x125)	1846.19	2005	4520.18	3.00	Storage
2	Omkareshwar, M.P	520 (8x65)	865.05	2007	3015.40	4.80	Storage
	<b>Total-B</b>	<b>1520</b>	<b>2711.24</b>		<b>7535.58</b>		
	<b>Grand Total(A+B)</b>	<b>6507</b>					

# NHPC – Projects Under Construction

NHPC Project	Installed Capacity (MW)	Design Energy (MU)	Type of the project	CCEA Estimated Cost (Rs. Crore) (Price Level)	Anticipated Project Cost (Rs. Crore)	Provisional Project Expenditure till – Mar'14 (Rs. Crore)	Likely Tariff (Rs./kwh)	*Expected Commissioning Schedule
TLDP IV (40x4) West Bengal	160	720	RoR with small pondage	1061.38 (MAR05)	1501.75 (JUL10)	*1 1482.30	2.05	FY 15-16 (Q-2)
Subansiri Lower (250X8) Assam/ Ar. Pradesh	2000	7421	Reservoir	6285.33 (DEC02)	10667.09 (DEC10)	*2 6788.30	1.40	FY 18-19 (Q-2)
Parbati II (200x4) Himachal Pradesh	800	3108	RoR with small pondage	3919.59 (DEC01)	5365.7 (AUG11)	4376.21	3.26	FY 18-19 (Q-2)
Kishanganga (110x3) Jammu & Kashmir	330	1350	RoR with small pondage	3642.06 (SEP07)	5497.72 (JUL13)	3286.78	6.99	FY 16-17 (Q-3)
<b>Total-A</b>	<b>3290</b>	<b>12599</b>		<b>14908.36</b>	<b>23032.26</b>	<b>15933.59</b>		

\*1 In case of Sub Lower ₹ 1108.44 crs charged to P&L. \*2 In case of TLDP IV ₹ 159.26 crs charged to P&L.

# NHPC Standalone Projects Under Clearance



S.No.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
1	Kotli Bhel–IA (3x65) (Uttarakhand)	195	1025	2091.85 (May 13)	In the PIB Meeting on 23.10.2013, project was recommended for investment subject to clearance from Supreme Court for Uttarakhand Projects.
2	Teesta-IV (4x130) (Sikkim)	520	2373	3930.75 (Jul 10)	Public hearing conducted on 29.03.2012. Stage-I forest clearance has been accorded on 26.02.2013. Environmental clearance awarded on 09.01.2014 by MOEF.
3	Dibang (12x250) (Ar. Pradesh)	3000	12210	23896 (Jul 13)	EC under process and FC not recommended by FAC. As desired by MOEF, revised forest proposal with reduced land requirement has been submitted to State Forest Department on 10.02.14.
4	Tawang –I (3x200) (Ar. Pradesh)	600	2963	5349.52 (Aug 11)	Environment clearance accorded by MoEF on 10.06.2011 Forest clearance is being pursued.
5	Tawang –II (4x200) (Ar. Pradesh)	800	3697	8028.62 (Nov 13)	Environment clearance accorded by MoEF on 10.06.2011. Stage-I Forest Clearance has been issued by MOEF on 08.01.2014.
<b>Total</b>		<b>5115</b>	<b>22268</b>	<b>43296.74</b>	

# NHPC -Projects Under Clearance

## Projects Under JV

S.No	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Cr.) & PL	Status
1	Chenab valley Power Projects Ltd. (JV between NHPC (49%) JKSPDC (49%), & PTC (2%))				
i)	Pakaldul (4x250) J&K	1000	3330.18	8814.25 (Mar 13)	The PIB Proposal is agreed in principle.
ii)	Kiru (4x150) J&K	600	2301.81	4068.13 (Jan 12)	TEC, EC under process. FC recommended by FAC of J&K on 22.08.2013. Formal FC letter awaited.
iii)	Kwar (4x130) J&K	520	1976.84	4375.50 (Jan12)	TEC and EC under process. FC recommended by FAC of J&K on 09.12.2013. Formal FC letter awaited.

## Projects with Subsidiary

1	Loktak D/S (2x33) Manipur (JV between NHPC (74%) & Govt. of Manipur (26%))	66	330.24	1522.39 ( Jul-13)	JVC formed & Board started functioning. Concurrence of CEA, is available. In-principle Forest Clearance has been accorded by MOEF on 03.03.11. Environmental clearance has been accorded in Jan'13. Updated DPR/Cost Estimate is under scrutiny in CEA.
<b>TOTAL</b>		<b>66</b>		<b>1522.39</b>	

# NHPC –Projects Under Pipeline

S. No.	Projects	State	Installed Capacity (MW)
Projects Under FR/DPR Preparation			
1	Bursar	Jammu & Kashmir	1020
2	Dhauliganga Intermediate	Uttarakhand	210
3	Gauriganga-IIIA	Uttarakhand	120
	Total		1350
Foreign Assignment Projects (FAP)			
1	Chamkharchhu (Under discussion at Govt. level as JV Project between NHPC And DRUK Green, Bhutan)	Bhutan	770
	Sub Total (FAP)		770
	Total		2120



Thank  
You