



# INVESTOR PRESENTATION FINANCIAL YEAR 18-19: SEP'2018



## **Presentation Outline**

**NHPC Today Financial Highlights Financial Ratios** Other Business Initiatives **Projects At Glance** 



Our Vision: To be a global leading organization for sustainable development of clean power through competent, responsible and innovative values.

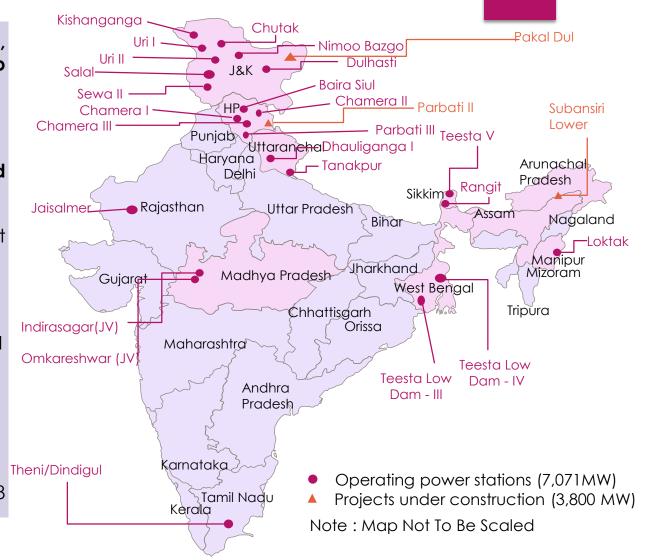
# NHPC-Today



**NHPC-Energising India With Hydropower** 

- Incorporated in 1975 with authorised capital of Rs. 200 crore, the present authorised capital is Rs.15000 crore (Paid Up Capital Rs.10,259 crore)
- Mini-Ratna Category-I PSU (since Apr-08)
- Established track record, strong operational performance and in-house engineering capabilities
- Involved across the entire chain of hydro power project development – from concept to commissioning.
- Presence across 11 states.
- 15% share of installed hydro-electric capacity in India (6,971 MW out of 45,487 MW\*).
- Consultancy business.
- Exposure to international business opportunities.

\* Source-CEA as on 30.09.2018



#### PHYSICAL SNAPSHOT

Installed Capacity

- Power Stations under Operation-22 Nos. (5551 MW\*)
- Power Stations with Subsidiary (NHDC) 2 Nos. (1520 MW)
- ❖ Total Operational Projects 24 Nos. (7071 MW)



- Projects Under Construction (including JV) :-
  - Hydro 3 Nos. (3800 MW)



- **❖** Projects Awaiting Clearances: -
  - **Standalone 5 Nos. (4995 MW)**
  - Joint Venture 3 Nos. (1934 MW)
  - Subsidiary 1 Nos. (66 MW)



**❖** Projects under Pipeline 3 Nos. (1160 MW)

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Hydro Power is 12% (45487 MW) of All India Installed Capacity (346083 MW\*\*).



NHPC Contribution is 16% of Installed Hydro Power On Consolidated Basis.

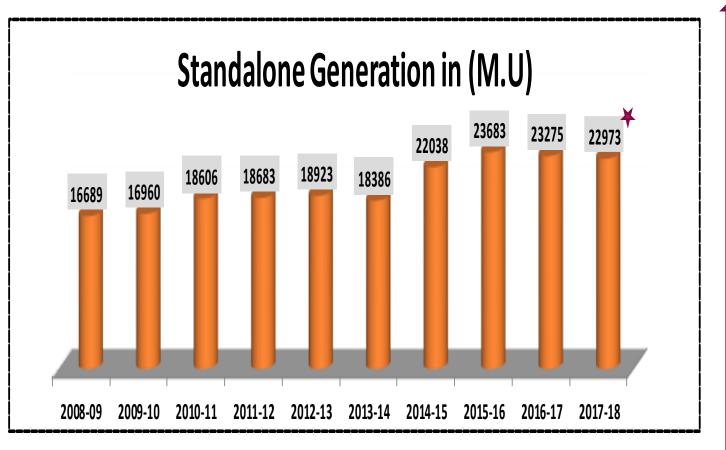
Status	Capacity (MW)
Operational Projects	7,071
Projects Under Construction (including JV)	3,800
Projects Under Clearance:	
Stand alone	4,995
JV Projects	1,934
Subsidiaries	66
Projects Under Pipeline	1,160
Total	19,026
Total	

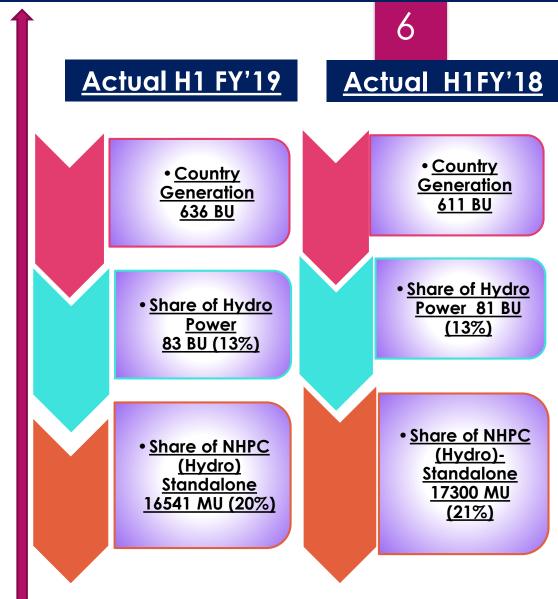
<sup>\*</sup> Including 50 MW Wind Power Project, Jaisalmer & 50 MW Solar Power Project, Tamilnadu.



<sup>\*\*</sup> Source-CEA as on 30.09.2018

## NHPC 's Track Record – A Ten Year Digest





¥ Hydro: 22899 MU, Wind: 70 MU & Solar: 4 MU.

# Financial Highlights





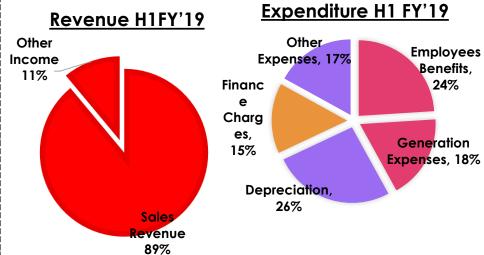
## Financial Highlights: Standalone



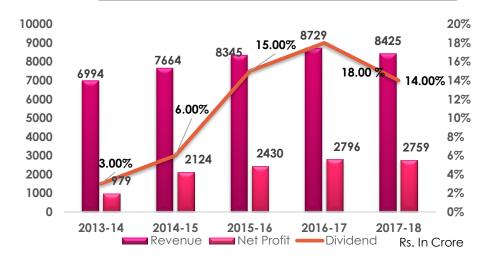
Rs. In Crore

Davija ulava	FY'19	9		FY'18		% Cha	nge
Particulars	Half Year	Qtr-2	Half Year	Qtr-2	Full Year	Half Year	Qtr-2
Sale/Revenue from Operation	4624.01	2495.02	4299.20	1971.69	6934.03	7.56	26.54
Other Income	584.48	471.56	623.56	519.01	1491.00	-6.27	-9.14
Total Income (A)	5208.49	2966.58	4922.76	2490.70	8425.03	5.80	19.11
Generation Expenses	517.98	278.37	539.29	261.78	716.39	-3.95	6.34
Employee Cost	713.10	361.09	764.95	359.90	1585.33	-6.78	0.33
Finance Cost	449.52	228.29	476.56	235.62	922.32	-5.67	-3.11
Depre. & Amort.	776.99	404.44	704.07	350.48	1405.89	10.36	15.40
Other Expenses	505.87	258.93	492.61	234.69	989.18	2.69	10.33
Total Expenditure(B)	2963.46	1531.12	2977.48	1442.47	5619.11	-0.47	6.15
Rate Regu. Income <b>(C)</b>	200.65	57.51	343.55	142.59	719.82	-41.60	-59.67
PBT (A-B+C)	2445.68	1492.97	2288.83	1190.82	3525.74	6.85	2 <b>5</b> .37
Tax	489.60	274.46	407.53	172.18	767.09	20.14	59.40
Profit After Tax	1956.08	1218.51	1881.30	1018.64	2758.65	3.97	19.62
Other Comprehensive Income	-29.05	-10.37	28.49	24.13	5.88	-201.97	-142.98
Total Comprehensive Income	1927.03	1208.14	1909.79	1042.77	2764.53	0.90	15.86





#### Revenue Vs. Net Profit Vs. Dividend





		<u> </u>
Equity and Liabilities	H-1 FY'19	FY'18
Share Holder's Funds	29966	28328
Loan Funds-Long Term	16308	16728
Deferred Tax Liabilities	1104	1077
Other Long term Liabilities & Provisions	1931	1689
Current Liabilities & Provisions	5923	5653
Total Equity & Liabilities	55232	53475
ASSETS		
PPE (incl. investment property)	23452	19071
Capital Work in Progress	14419	18814
Other Intangible Asset	918	923
Non Current Financial Asset	4598	4649
Non Current Assets (Others)	1255	1444
Regulatory Asset	3801	3600
Trade Receivables	2490	1097
Cash and Bank Balances	1309	1472
Current Assets (Others)	2990	2405
Total Assets	55232	53475

#### **Debtors Position**



# S. Particulars As on As on As on N. 30.09.18 30.06.18 31.03.

Sale of Energy

As on 30.09.18	As on 30.06.18	As on 31.03.18	As on 31.12.17	As on 30.09.17
2414.94	1799.25	1123.59	1784.16	2108.42

More than 60 1180.08 690.26 715.74 659.61 926.99 days (Net of Provn.)

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#### **Debtors Ageing**

Total Debtors (Sales of Energy) - 30.09.18: 2414.94 Crs

Less Than 60 p Days: 1234.86 Crs More Than 60 Days: 1180.08 Crs

#### Top Five Debtors – Gross Amount (in Crs.)

Name	30.09.18			31.03.18
	Total	More than 60 days	Total	More than 60 days
PDD, J&K	870.18	645.86	624.48	541.86
UPPCL, UP	675.49	372.24	87.85	
PSPCL, Punjab	208.22	36.43	49.14	-
WBSEDCL	189.53		78.24	
BSES Yamuna	110.32	110.32	179.88	179.88

#### **Collection Efficiency**

Opening Debtors- 1124 Crs.

Billing During H1FY19-4155 Crs.

Closing Balance- 2415 Crs.

Collection During H1 FY19- 2864 Crs.

Collection Efficiency- 54% aprx.

Debtor Turnover (days) - 78

## **Incentives Position**



-	-	

	Comparative Incentive YoY (in Crs.)										
SI.	Particulars			FY18-19					FY17-18		
		Q-1	Q-2	Q-3	Q-4	Total	Q-1	Q-2	Q-3	Q-4	Total
1	Secondary Energy	-	-			-	-	20.85	46.12	58.17	125.14
2	Incentives	155.87	155.78			311.65	172.37	144.22	9.81	9.08	335.48
3	Deviation Chrgs.	66.59	46.20			112.79	48.47	40.46	52.31	40.90	182.14
	G. Total	222.46	201.98			424.44	220.84	205.53	108.24	108.15	642.76
4	PAF	92.32%	92.88%			92.60%	97.22%	94.40%	76.79%	73.15%	85.32%

#### **Supplements**

Power Station With Highest PAF Incentive: URI-II (Rs. 87 Cr., PAF: 96.4%, NAPAF-55%)

Power Station with highest Deviation Charges: Salal (Rs. 29 Cr.)

Power Station Giving Best Generation: Chamera 1 (100% of the annual design energy)

#### Supplements

Power Station with Highest PBT- Dulhasti (Rs. 412 Crs)

NHPC Profit per MW: Rs. 35 lakhs (H1 FY'19), Rs. 36 lakhs (H1 FY'18)

NHPC Profit per Employee: Rs. 28 lakhs (H1 FY'19), Rs. 25 lakhs (H1 FY'18)

## **Key Financials: H1 FY'19**

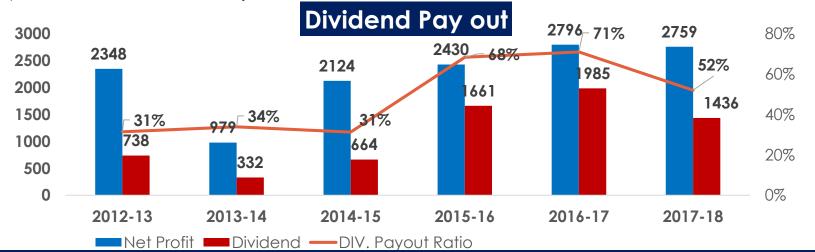


P&L	Standalone
Total Income	5208
EBITDA*	3594
EBITDA Margin	69%
PAT	1956
Profit Margin	38%
Dividend Pay Out (FY'18)	Rs 1.40 per Share/ 52% of Profit

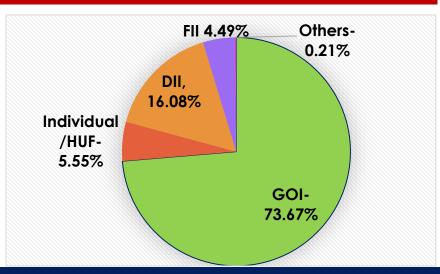
Balance Sheet	Standalone
Share Capital	10259
Net worth	29966
Long Term Debt	16308
Cash & Bank Bal.	1309
Gross Block	39345
CWIP	14419

12 ₹ In Crore

\* EBITDA calculation doesn't include Finance Charges of Rs. 77 Crore, Depreciation of Rs. 2 Crore and Other Income of Rs.21 Crore which pertains to Subansiri Lower Project.



#### Shareholding pattern as on 30.09.18



S. No.	Particulars	H1 FY'19	FY'	18
Particulars		Standalone	Standalone	Consolidated
1.	PAT (Rs. in Crore)	1956.08	2758.65	2503.90
2.	Net-worth (Rs. in Crore)	29965.95	28328.15	30017.90
3.	No. of Equity Shares (In Crore)	1025.93	1025.93	1025.93
4.	EPS (Rs.)	1.91#	2.69	2.44
5.	Earning Yield(%)*	7.28#	9.73	8.82
6.	Dividend Per Share (Rs.)		1.40	
7.	Dividend Yield(%)*		5.06	
8.	Book Value per share (Rs.)	29.21	27.61	29.26
9.	PB Ratio*	0.90	1.00	0.94
10.	PE Ratio*	9.76	10.28	11.33
11.	Return On Net worth (%)	6.53#	9.74	8.34
12.	Market Capitalisation (In Crore)*	26931	28367	
13.	Debt Equity Ratio	0.60	0.65	0.61

<sup>\*</sup> Stock Price (BSE): as on 16.11.18: Rs. 26.25 & as on 31.03.18: Rs. 27.65, EPS for PE Ratio: 2.69 (2017-18)

# Not annualized



Shareholding Pattern: 51:49 (NHPC: GoMP)

**Installed Capacity: 1520 MW** 

Design Energy: 2120.17 MU

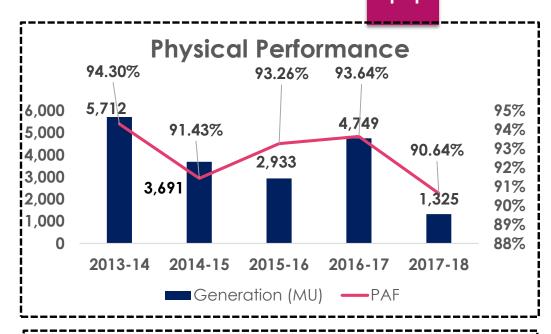
Generation: 1325.25 MU (FY'18), 4748.5 (FY'17)

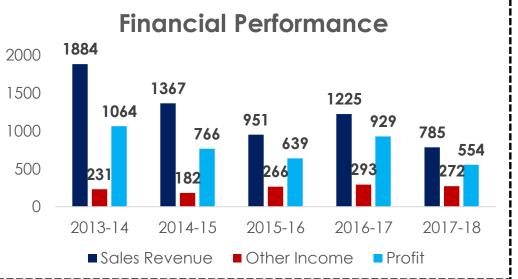
PAF: 90.64% (FY'18), 93.64% (FY17)

Sales Revenue: Rs. 785 Crs. (FY'18), 1225 Crs (FY'17)

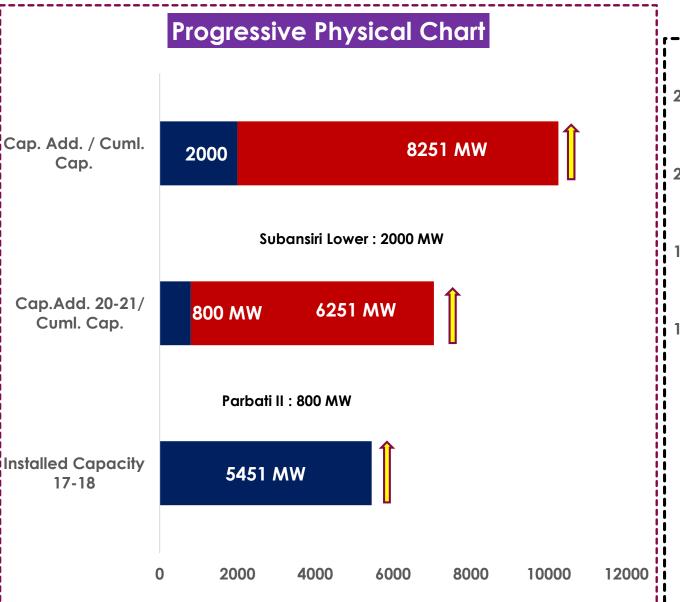
Profit: 554 Crs. (FY18), 929 Crs. (FY17)

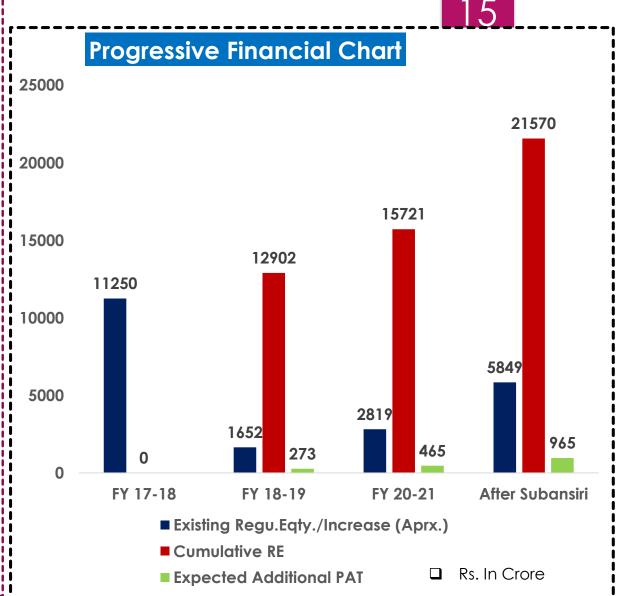
PAF Incentive: FY18- Rs. 24 crore FY17- Rs. 40 Cr.





# NHPC –Progressive Physical & Financial Schedule (Hydro)







## NHPC - CAPEX



F.Y	Amount (Rs. In Crore)	Remarks
2012-13	3307	(Actual)
2013-14	3219	(Actual)
2014-15	2615	(Actual)
2015-16	2793	(Actual)
2016-17	2438	(Actual)
2017-18	2722	(Actual)
2018-19	2740	BE

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Going Forward CAPEX is expected to be higher after resumption of active Construction works at Subansiri Lower Project and clearance of pipelined projects.



## NHPC – Major Highlights H1 FY'19

- ❖ Unit # 1 & 2 of Parbati-II HE Project (4 x 200 MW) in Himachal Pradesh has been successfully synchronized with the grid on 14.09.2018 & 22.09.2018 respectively.
- ❖ Memorandum of Understanding (MOU) has been signed on 03.09.2018 with Bharat Heavy Electricals Limited (BHEL) for consultancy and joint cooperation in Hydro-electric Projects in India for a period of 3 years from the date of signing
- ❖ All Units of Kishanganga H. E. Project has been put under commercial operation (Unit # 1 w.e.f. 18.05.2018 & Unit # 2 & Unit # 3 w.e.f. 24.05.2018).
- ❖ Power Purchase Agreement (PPA) in respect of Kishanganga HE Project (3X110MW) has been signed on 22.06.2018 with U.P. Power Corporation Limited (UPPCL) for a period of 35 years from the date of commercial operation (COD) of last unit of the above Project. PPA with Chhattisgarh State Power Distribution Company Ltd. has already been signed on 11.08.2016.
- ❖ License for trading of power granted by CERC on 23.04.2018.
- ❖ MoU for the year 2018-19 with Ministry of Power (MoP), Govt. of India was signed on 20.04.2018

# Other Business Initiative

- ☐ Solar Energy
- **□Wind Energy**



#### **Solar Power**



#### 32 MW Solar Power Project in Jalaun, Uttar Pradesh

JVC of NHPC Ltd. & UPNEDA namely 'Bundelkhand Saur | Share of NHPC & UPNEDA: >=74:<=26 Urja Limited' formed on 02.02.2015

Current Status: Signing of PPA under Progress. 63.491 Ha land got transferred from UPNEDA and Mutation of the land in favour of BSUL finalised on 04.12.2017. Bidding process under progress.

#### **Wind Power**



#### 8 MW Wind Power Project in Palakkad District of Kerala

8 MW Wind Farm to be set up in Palakkad District, Kerala.

Order issued by KSEB on 10.11.2017 to purchase power from 8 MW Wind Project @ Rs. 4.53/unit or tariff fixed by KSERC, which ever is lower.

Current Status: Allotment of Land by State Govt. is under process. Signing of PPA by KSEB is awaited. Bidding process under progress.



# NHPC Projects At A Glance



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S. No	NHPC Project & State	Installed Capacity (MW)	Design Energy (MU)	Year of comm.	Capital Cost as on 31.03.18	Tariff (18-19) (Rs. /Kwh)	Type of the project
1	Baira Siul (3x60) Himachal Pradesh	180	779.28	1981 (Sep)	209.28	2.04	Run of River (ROR) with small pondage
2	Loktak, (3*35) Manipur	105	448.00	1983 (May)	179.65	3.85	Storage
3	Salal, (6x115) Jammu & Kashmir	690	3082.00	1987 (Nov)	1012.93	2.36	ROR
4	Tanakpur, (3x40) Uttarakhand	94	452.19	1992 (Apr)	421.43	3.29	ROR
5	Chamera-I, (3x180) Himachal Pradesh	540	1664.55	1994 (Apr)	2095.07	2.28	Storage
6	Uri-I, (4x120) Jammu & Kashmir	480	2587.38	1997 (Apr)	3440.88	2.10	ROR
7	Rangit, (3*20) Sikkim	60	338.61	2000 (Feb)	497.46	3.80	ROR with small pondage
8	Chamera-II, (3*100) Himachal Pradesh	300	1499.89	2004 (Feb)	2009.80	2.01	ROR with small pondage
9	Dhauliganga-I, (4x70) Uttarakhand	280	1134.69	2005 (Oct)	1754.25	2.43	ROR with small pondage.
10	Dulhasti, (3x130) Jammu & Kashmir	390	1906.8	2007 (Mar)	5219.00	6.00	ROR with small pondage

## NHPC – Projects in Operation... contd.



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S.No.	NHPC Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.18	Tariff (18-19) (Rs. /Kwh)	Type of the project
11	Teesta-V, (3x170) Sikkim	510	2572.70	2008 (Mar)	2776.49	2.33	ROR with small pondage
12	Sewa-II, (3x40) Jammu & Kashmir	120	533.53	2010 (Jun)	1156.30	4.52*	ROR with small pondage
13	Chamera-III , (3x77) Himachal Pradesh	231	1108.17	2012 (Jun)	2174.40	4.25*	ROR with small pondage
14	Chutak , (4x11) Jammu & Kashmir	44	212.93	2013 (Jan)	939.90	8.45	ROR
15	TLDP-III, (4x33) West Bengal	132	594.07	2013 (Mar)	2083.28	6.20*	ROR with small pondage
16	Nimoo Bazgo, (3x15) Jammu & Kashmir	45	239.33	2013 (Jan)	1062.05	9.79	ROR with small pondage
17	Uri –II, (4x60) Jammu & Kashmir	240	1123.77	2014 (Feb)	2433.77	5.61	ROR
18	Parbati-III (4x130) Himachal Pradesh	520	701.40	2014 (May)	2748.52	5.47*	ROR with small pondage
19	TLDP IV (4x40), West Bengal	160	720.00	2016 (Aug)	1867.58	2.89*	Run of River with small poundage
20	Kishanganga (3x110) Jammu & Kashmir	330	1712.96	2018 (Mar)	5755.24	3.54*	Run of River with Pondage
	Total-A	5451	23412.25		39837.28	3.38	* Provisional

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### **Renewable Energy**

S.No	Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.2018	Tariff 18-19 (Rs./unit)	Place of Project
1	Wind Power	50	94.25	2016	329.66	3.69*	Lakhmana, Jaisalmer
2	Solar Power	50	105.96	2018	283.62	4.41	Theni/Dindigul District, Tamilnadu
	Total-B	100	200.21		613.28	*Excluding GBI	of Rs. 0.50 per unit & REC.
Sub Total Stand-alone(A+B)		5551	23612.46		40450.56		

## Operational Projects with Subsidiary

D:(A+B+C)

S.No	Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost	Tariff 18-19 (Rs./Kwh)	Type of the project
1	Indrasagar, (8x125) Madhya Pradesh	1000	1442.70	2005	4600.54	3.68	Storage
2	Omkareshwar, (8x65) Madhya Pradesh	520	677.47	2007	3009.88	5.90	Storage
	Total-C	1520	2120.17		7610.42		
	Grand Total-	7071	25732.63				

## NHPC: Projects Under Construction

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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 –Sep'18 (Rs. Crore)	Expected Commissioning Schedule
Subansiri Lower (250X8) Assam/ Ar. Pradesh	2000	7421	Reservoir	6285.33 (Dec02)	19496.34 (Apr'17)	10295.42	Within 4 years after resumption of work
Parbati II (200x4) Himachal Pradesh	800	3108.66	Run of River with small pondage	3919.59 (Dec01)	9394.80 (Apr'18)	7058.21	FY 20-21 (Q-3)
Total (A)	2800	10529.66		10204.92	28891.14	17353.63	

<b>Proje</b>	oject Under Construction-JV											
S.No	Projects	Installed Capacity (MW)		Cost (In Cr.) & PL	Status							
1	Chenab valley Po	wer Projects Ltd.	(JV between NH	PC (49%) JKSI	PDC (49%), & PTC (2%)							
i)	Pakal Dul (4x250) J&K	1000	3330.18	8112 (Mar 13)	DAM & Power House Package awarded & work started. Bidding process for other works is under progress.							
	TOTAL(B)	1000	3330.18	8112								
			4005004									

## NHPC Standalone Projects Under Clearance

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NH	PC

S.No.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
1	Kotli Bhel–IA (3x65) (Uttarakhand)	195	1025.50	2625 (Oct17)	In the PIB Meeting on 23 <sup>rd</sup> Oct'13, project was recommended for investment subject to clearance from Hon'ble SC for Uttarakhand Projects. Decision of Hon'ble SC is awaited.
2	Teesta-IV (4x130) (Sikkim)	520	2373	5697 (Jun 18)	All statutory clearances received except forest clearance (stage-II). Approval of pre-investment activities conveyed by MoP on 03.05.2016. FRA Compliance is underway. Draft PIB memo for implementation of project submitted on 24.09.2018.
3	Dibang (12x240) (Ar. Pradesh)	2880	11223	28080 (Jun 18)	Concurrence to Project, Environment Clearance and Forest Clearance available. PIB memo circulated by MoP on 12.07.2018. Replies to various agencies furnished by MoP.
4	Tawang –I (3x200) (Ar. Pradesh)	600	2963	6173 (Dec 16)	All statutory Clearances have been received except Forest clearance. FRA compliance is underway and Basin Study Report has been submitted and accepted. After receipt of Forest Clearance (Stage-I), the process for PIB / CCEA shall be initiated. DIB meeting held for pre-investment activities on 24.10.18, where the proposal has been recommended. MoM is awaited.
5	Tawang –II (4x200) (Ar. Pradesh)	800	3622	7588 (Sep 15)	All statutory clearances received except forest clearance (stage-II). FRA Compliance is underway. Approval of pre-investment activities by MoP accorded on 28.07.16
	Total	4995	21206.50	50163	

# NHPC –JV Projects Under Clearance



	Projects Under JV										
S.No	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Cr.) & PL	Status						
1	Chenab valley Pov	wer Projects Ltd. (J	V between NHI	PC (49%) JKS	PDC (49%), & PTC (2%)						
(i)	Kiru (4x156) J&K	624	2272.02	4605 (May17)	Appraisal of DPR accorded by CEA on 13.06.16. Forest Clearance accorded by State Forest Department of Govt. of J&K on 19.05.16. Environment Clearance accorded by MoEF &CC on 24.06.16. Draft PIB note seeking recommendation for implementation of Kiru Project submitted to MoP on 10.08.17. PIB memo circulated by MoP on 01.02.18.						
(ii)	Kwar (4x135) J&K	540	1975.54	4231 (Sep17)	Environment Clearance accorded by MoEF on 10.04.17. Forest Clearance accorded by State Forest Department on 08.08.2014. Appraisal of DPR accorded by CEA on 23.02.17. Draft PIB note seeking recommendation for implementation of Kwar Project submitted to MoP on 21.12.17. PIB memo circulated by MoP on 07.03.18						
	TOTAL	1164	4247.56	8836							

Foreig	Foreign Assignment Under JV Scheme									
1	Chamkharchhu (Bhutan)	770	3344.47	6187 (Dec 16)	<ul> <li>Project to be developed by JVC of NHPC and DRUKGreen Power Corporation, Bhutan.</li> </ul>					
					<ul> <li>Joint venture Agreement cum Share Holder's Agreement of proposed JV Company is ready for signing.</li> </ul>					
					<ul> <li>SHA &amp; AOI shall be signed after finalisation of concession agreement with RGoB &amp; CCEA approval of GoI. Revised draft material for PIB Memorandum submitted to MoP on 23.06.2017 &amp; PIB memo circulated by MoP on 08.09.2017. Reply to all observations of various agencies stand submitted.</li> </ul>					
J	V Grand Total	1934	7592.03	15023						

# NHPC –Subsidiary Under Clearance



	Projects Under Subsidiary											
S.No	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Cr.) & PL	Status							
1	Loktak D/S (2x33) Manipur (JV between NHPC (74%) & Govt. of Manipur (26%)	66	333.76	1394 ( Nov17)	<ul> <li>JVC formed &amp; Board started functioning.</li> <li>Environmental clearance has been accorded in Jan'13.</li> <li>Forest Clearance has been accorded by MOEF on 22.12.2014.</li> <li>Concurrence by CEA accorded on 05.05.2017.</li> <li>Draft PIB memo submitted to MoP on 06.09.2018.</li> </ul>							
	TOTAL	66	333.76	1394								

# NHPC – Projects Under Pipeline



S. No.	Projects	State	Installed Capacity (MW)
Projects Un	der FR/DPR Preparation		
1	Bursar*	Jammu & Kashmir	800
2	Dhauliganga Intermediate	Uttarakhand	210
3	Gauriganga-III A**	Uttarakhand	150
	Total		1160

<sup>\*</sup>DPR submitted to CEA on 06.01.2017 & the same is under examination at CEA/CWC.

<sup>\*\*</sup>DPR submitted to CEA on 30.03.2018.

## Trading Business of NHPC



- ❖ License from CERC for Category I Trader granted on 23.04.2018.
- Trader membership of Indian Energy Exchange "IEX" obtained on 17.05.2018.
- Registration on Discovery of Efficient Electricity Price (DEEP) portal for short term & medium term trading of power activated from 16.05.2018.
- ❖ NHPC targets around 9000 MUs for trading in FY 2018-19 & FY 2019-20.
- NHPC as a trade member has sold 99246 non solar REC in IEX, generated from its Wind Power Project, Jaisalmer, Rajasthan against generation up to 31.07.2018. Total revenue against the same is Rs. 10.51 crores.
- ❖ Around 1.5 Lacs RECs are also expected to be traded in FY 2018-19 & FY 2019-20.







