



Clean Power For Every Home



# INVESTOR PRESENTATION FINANCIAL YEAR 21-22 : March 2022



# Presentation Outline

2

NHPC Today

Financial Highlights

Financial Ratios

Renewable Energy

Projects At Glance



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



Subansiri Lower Project



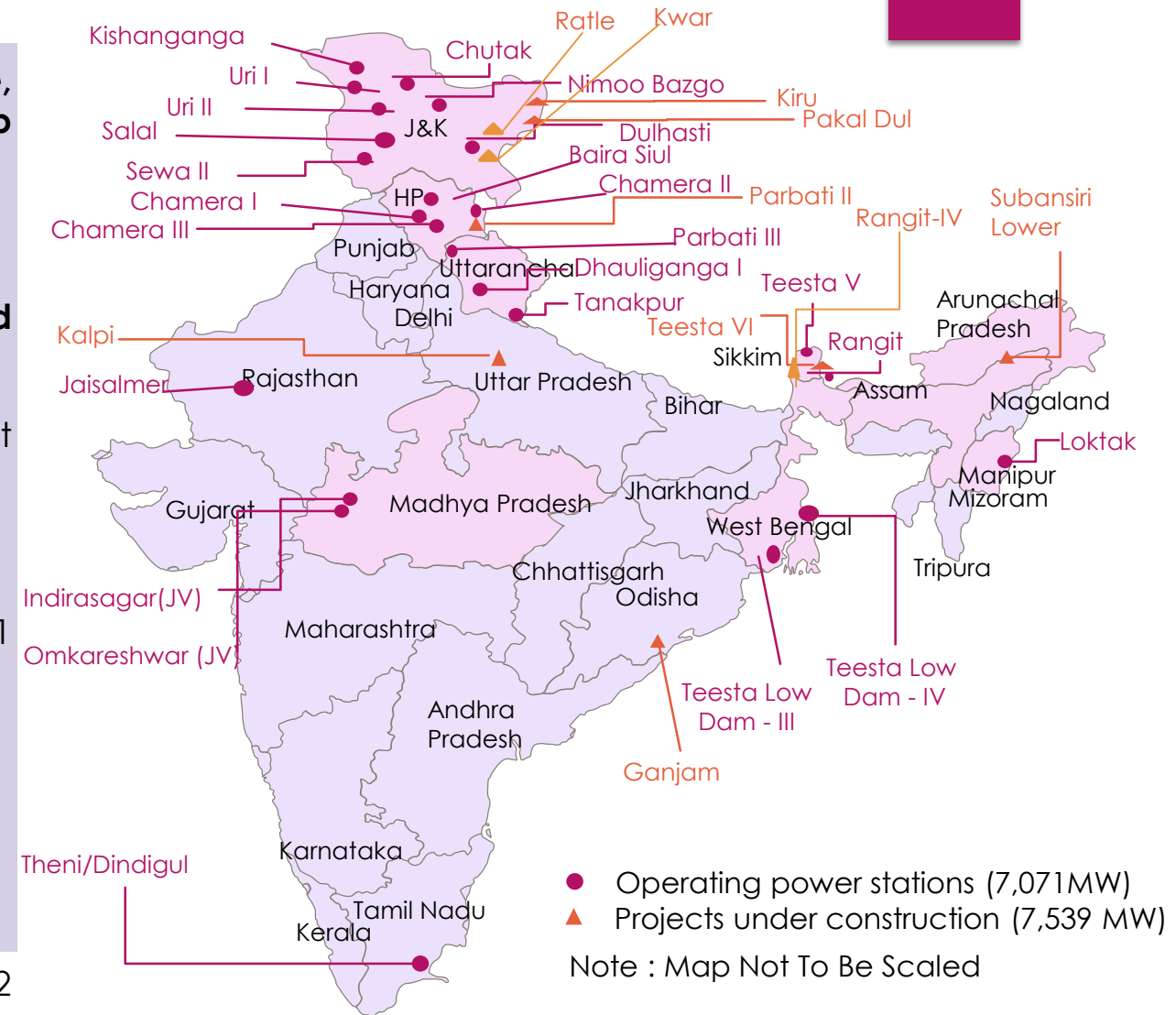
Teesta V, Sikkim

# PHYSICAL SNAPSHOT

4

- Incorporated in 1975 with authorised capital of Rs. 200 crore, the present authorised capital is Rs.15000 crore (Paid Up Capital Rs.10,045 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 13 states.
- 15% share of installed hydro-electric capacity in India (6,971 MW out of 46,723 MW\*).
- Consultancy business.
- Power trading business.
- Exposure to international business opportunities.

\* Source-CEA as on 31.03.2022



7071 MW installed capacity (6971 MW Hydro & 100 MW Renewable Energy) through 24 power stations

# PHYSICAL SNAPSHOT

5

## 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)

## Under Construction

- ❖ Projects Under Construction (including Subsidiary & JV) :-
  - Hydro & Solar - 10 Nos. (7539 MW)

## Awaiting Clearances

- ❖ Projects Awaiting Clearances : -
  - Standalone - 4 Nos. (5756 MW)
  - Joint Venture - 1 No. (930 MW)
  - Subsidiary – 1 No. (66 MW)

## Under Survey & Investigation

- ❖ Projects under Survey & Investigation - 3 Nos. (1130 MW)

Hydro Power is 12% (46723 MW) of All India Installed Capacity (399497 MW\*\*).

NHPC Contribution is 15% of Installed Hydro Power On Consolidated Basis.

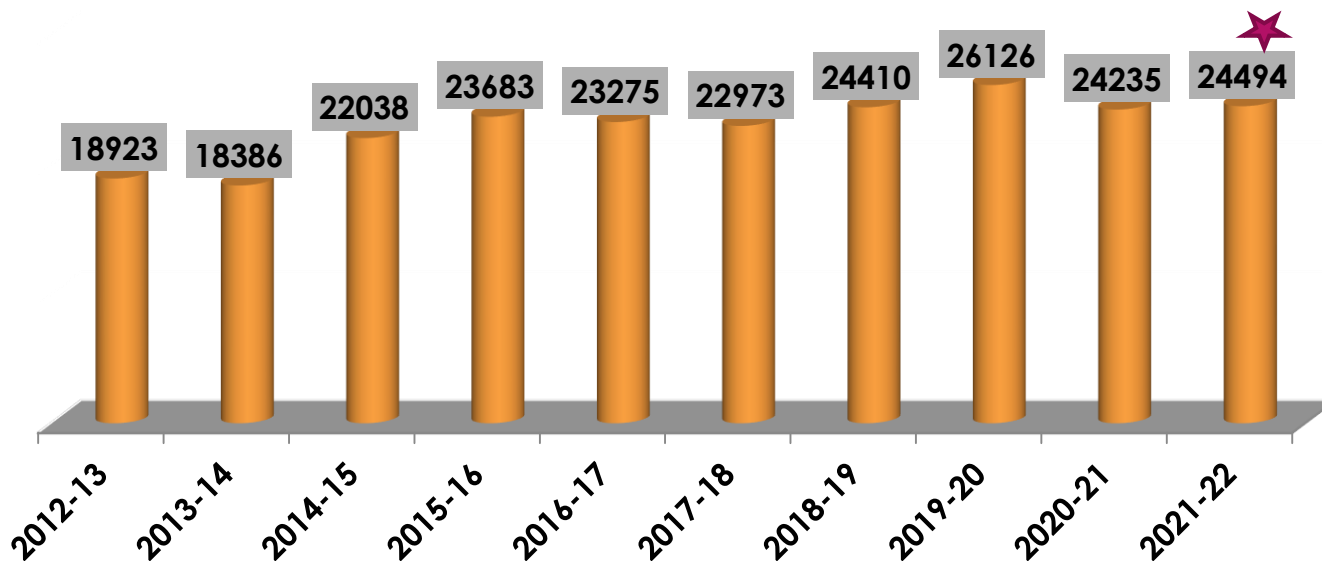
Status	Capacity (MW)
Operational Projects	7,071
Projects Under Construction (including Subsidiary & JV)	7,539
Projects Under Clearance:	
Stand alone	5,756
JV Projects	930
Subsidiaries	66
Projects Under Survey & Investigation	1,130
<b>Total</b>	<b>22,492</b>

\* Including 50 MW Wind Power Project, Jaisalmer & 50 MW Solar Power Project, Tamilnadu.

\*\* Source-CEA as on 31.03.2022

# NHPC 's Track Record – A Ten Year Digest

## Standalone Generation (in M.U.)



6

**Actual FY'22**

**Actual FY'21**

• Country Generation  
1321 BU

• Country Generation  
1235 BU

• Share of Hydro Power  
152 BU (12%)

• Share of Hydro Power  
150 BU (12%)

• Share of NHPC (Hydro) Standalone  
24329 MU (16%)

• Share of NHPC (Hydro) Standalone  
24083 MU (16%)

★ Hydro: 24329 MU(excl. infirm power of 361 MUs : Parbati II), Wind: 76 MU & Solar: 89 MU.

# Financial Highlights



Sewa II, J&K



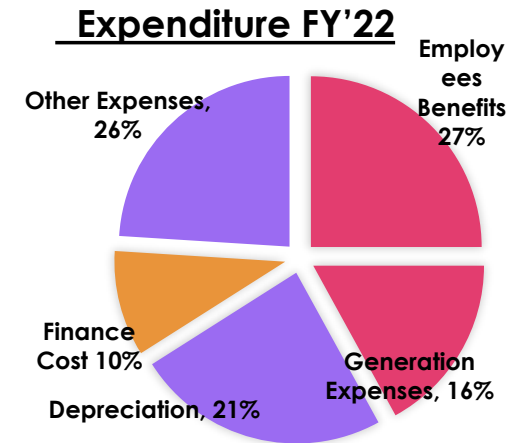
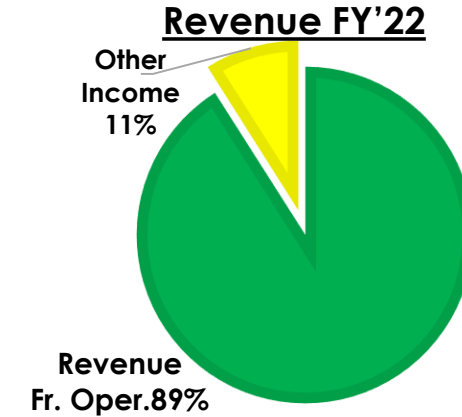
Chamera I, Himachal

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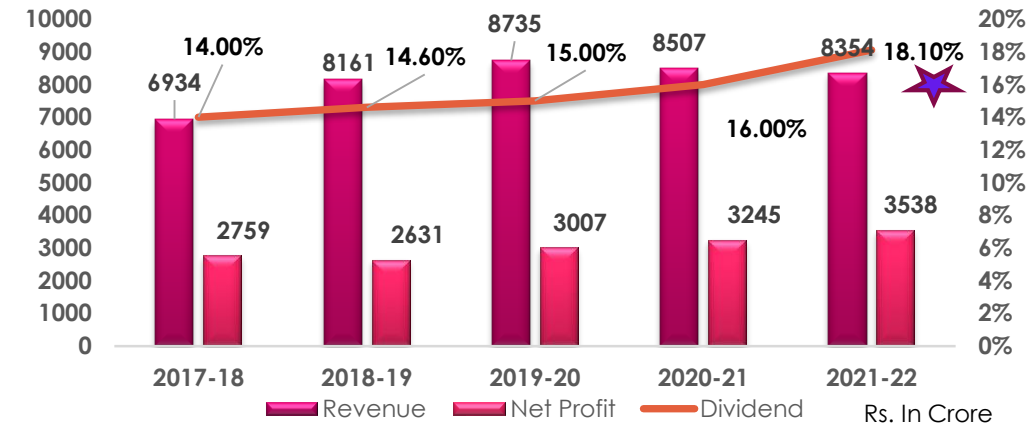
# Financial Highlights : Standalone

Particulars	FY'22		FY'21		% Change	
	12 Months	Qtr-4	12 Months	Qtr-4	12 Months	Qtr-4
Revenue from Operation	8353.80	1505.76	8506.58	1341.48	-1.80	12.25
Other Income	1026.18	501.72	1155.98	441.62	-11.23	13.61
<b>Total Income (A)</b>	<b>9379.98</b>	<b>2007.48</b>	<b>9662.56</b>	<b>1783.10</b>	<b>-2.92</b>	<b>12.58</b>
Purchase of Power - Trading	44.58	0.00	212.37	0.00	-79.01	0.00
Generation Expenses	841.24	134.10	854.37	131.18	-1.54	2.23
Employee Benefits Expense	1440.78	498.35	1393.91	345.16	3.36	44.38
Finance Cost	531.75	133.14	571.49	136.88	-6.95	-2.73
Depre. & Amort. Expense	1126.22	280.26	1228.65	230.27	-8.34	21.71
Other Expenses	1348.55	449.66	1419.61	410.24	-5.01	9.61
<b>Total Expenditure(B)</b>	<b>5333.12</b>	<b>1495.51</b>	<b>5680.40</b>	<b>1253.73</b>	<b>-6.11</b>	<b>19.28</b>
Exceptional Items (C)	0.00	0.00	185.00	0.00	-100.00	0.00
<b>PBT(Before RRA)(D=A-B-C)</b>	<b>4046.86</b>	<b>511.97</b>	<b>3797.16</b>	<b>529.37</b>	<b>6.58</b>	<b>-3.29</b>
Rate Regu. Income (E)	-1270.42	74.38	128.03	15.06	-1092.28	393.89
<b>PBT (After RRA) (F=D+E)</b>	<b>2776.44</b>	<b>586.35</b>	<b>3925.19</b>	<b>544.43</b>	<b>-29.27</b>	<b>7.70</b>
Tax (G)	-761.27	26.26	680.13	128.53	-211.93	-79.57
<b>Profit After Tax (H=F-G)</b>	<b>3537.71</b>	<b>560.09</b>	<b>3245.06</b>	<b>415.90</b>	<b>9.02</b>	<b>34.67</b>

## Revenue & Expenditure-Analysis



## Revenue Vs. Net Profit Vs. Dividend



★ Interim Dividend – 13.10% & Final Dividend 5.00%.



# Statement of Assets & Liabilities

Rs. In Crore



<b>Equity and Liabilities</b>	<b>FY'22</b>	<b>FY'21</b>
Share Holder's Funds	33486.10	31603.11
Loan Funds-Long Term	23179.49	21241.22
Deferred Tax Liabilities	2100.74	3589.36
Other Long term Liabilities & Provisions	4162.25	4117.51
Current Liabilities & Provisions	6057.77	5706.63
Regulatory Deferral Account Credit Balances	1313.27	0.00
<b>Total Equity &amp; Liabilities</b>	<b>70299.62</b>	<b>66257.83</b>
<b>ASSETS</b>		
PPE (incl. investment property)	19029.04	19179.09
Capital Work in Progress	20573.84	17852.56
Right of Use Assets	1783.12	1752.92
Intangible Asset	3.11	3.52
Non Current Financial Asset	10934.71	9782.22
Non Current Assets (Others)	3763.48	3560.71
Regulatory Asset	6948.11	6902.93
Trade Receivables	4621.48	4532.49
Cash and Bank Balances	1160.71	913.96
Current Assets (Others)	1482.02	1777.43
<b>Total Assets</b>	<b>70299.62</b>	<b>66257.83</b>

# Debtors Position

Rs. In Crore



10

## Total Debtors (in Crs.)

S. N.	Particulars	As on 31.03.2022	As on 31.03.2021	As on 31.12.2021	As on 30.09.2021	As on 30.06.2021
1	Trade Receivables	4621 (including unbilled debtors of Rs. 1961 Crs. for March'22)	4532 (including unbilled debtors of Rs. 1358 Crs. for March'21)	3257	3428	4062
2	More than 45 days*	1024	1804	1304	1961	2429

## Top Five Debtors\* (in Crs.)

Name	31.03.2022		31.03.2021	
	Total	More than 45 days	Total	More than 45 days
PDD, J&K (Incl. JKPCL)	1393	931	1451	986
UPPCL, UP	1146	0	793	298
WBSEDCL	640	0	669	46
PSPCL, Punjab	452	5	479	215
Chhattisgarh	161	0	91	1

\* Net of Provision

# Incentives Position

## Comparative Incentive YoY (in Crs.)

Sl.	Particulars	FY21-22					FY20-21				
		Q-1	Q-2	Q-3	Q-4	Total	Q-1	Q-2	Q-3	Q-4	Total
1	Secondary Energy	0.00	0.00	13.36	124.67	<b>138.03</b>	0.00	22.80	46.88	146.93	<b>216.61</b>
2	Incentives	134.64	178.29	88.94	22.20	<b>424.07</b>	148.25	136.54	75.11	49.74	<b>409.64</b>
3	Deviation Chrgs.	38.03	46.16	44.43	61.13	<b>189.75</b>	34.58	44.51	39.42	38.45	<b>156.96</b>
	<b>G. Total</b>	<b>172.67</b>	<b>224.45</b>	<b>146.73</b>	<b>208.00</b>	<b>751.85</b>	<b>182.83</b>	<b>203.85</b>	<b>161.41</b>	<b>235.12</b>	<b>783.21</b>
4	<b>PAF</b>	<b>92.45%</b>	<b>99.03%</b>	<b>84.47%</b>	<b>76.76%</b>	<b>88.19%</b>	<b>92.01%</b>	<b>92.69%</b>	<b>83.83%</b>	<b>74.33%</b>	<b>85.76%</b>

### Supplements

Power Station With Highest PAF Incentive : Uri-II (Rs. 75 Cr. PAF : 95.53%, NAPAF : 70%)

Power Station with highest Deviation Charges: Salal (Rs. 53 Cr.)

Power Station Giving Best Generation : Uri-II (147% of the annual design energy)

### Supplements

Power Station with Highest PBT- Dulhasti (Rs. 510 Crs)

NHPC Profit per MW: Rs. 64 lakhs (FY'22), Rs. 58 lakhs (FY'21)

NHPC Profit per Employee: Rs. 69 lakhs (FY'22), Rs. 58 lakhs (FY'21)

# Key Financials : FY'22

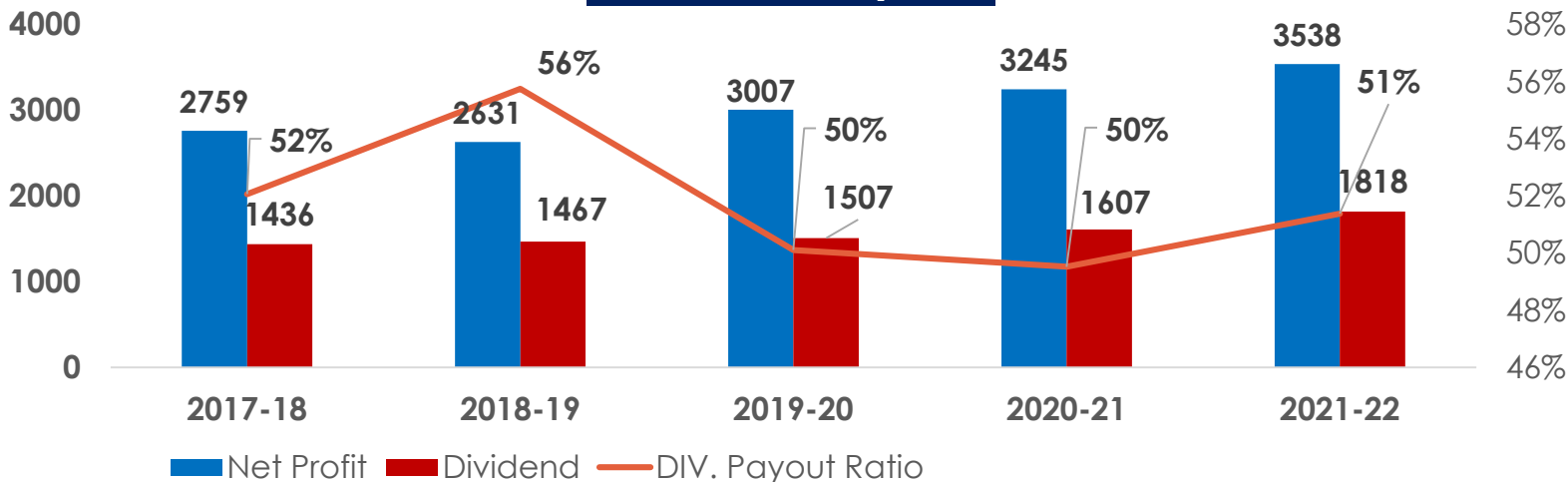
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Rs. In  
Crore

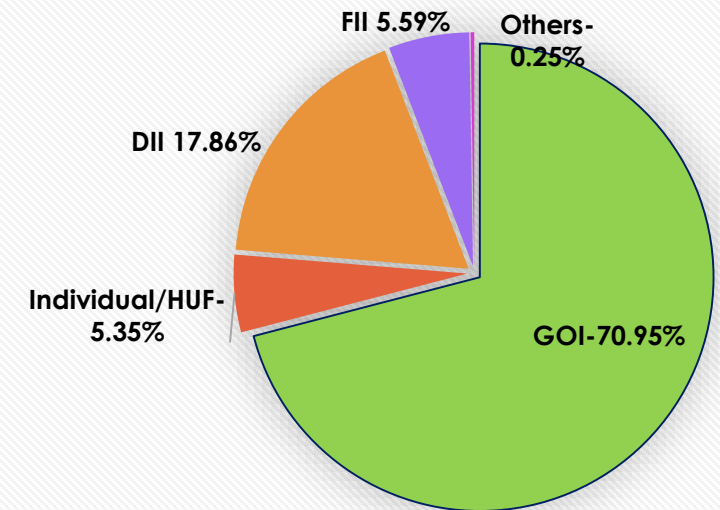
P&L	Standalone
Total Income	9380
EBITDA	5588
EBITDA Margin	60%
PAT	3538
Profit Margin	38%
Dividend Pay Out (FY'22)	Rs. 1.81 Per Share/ 51% of Profit

Balance Sheet	Standalone
Share Capital	10045
Net worth	33486
Long Term Debt	23179
Cash & Bank Bal.	1161
Gross Block	39742
CWIP	20574

## Dividend Pay out



## Shareholding pattern as on 31.03.2022



# NHPC – Key Ratios

S. No.	Particulars	FY'22		FY'21	
		Standalone	Consolidated	Standalone	Consolidated
1.	PAT (Rs. in Cr.)	3537.71	3523.57	3245.06	3271.78
2.	Net-worth (Rs. in Cr.)	33486.10	34920.98	31603.11	33053.30
3.	No. of Equity Shares (In Cr.)	1004.50	1004.50	1004.50	1004.50
4.	EPS (Rs.)	3.52	3.51	3.23	3.26
5.	Earning Yield(%)*	10.85	10.82	13.21	13.33
6.	Dividend Per Share (Rs.)	1.81		1.60	
7.	Dividend Yield(%)*	5.58		6.54	
8.	Book Value per share (Rs.)	33.34	34.76	31.46	32.91
9.	PB Ratio*	0.97	0.93	0.78	0.74
10.	PE Ratio*	9.22	9.25	7.57	7.50
11.	Return On Net worth (%)	10.56	10.09	10.27	9.90
12.	Market Capitalisation (Rs. in Cr.)*	32596		24560	
13.	Debt Equity Ratio	0.84	0.81	0.80	0.77

\*Stock Price (BSE): as on 23.05.2022 Rs. 32.45 & as on 31.03.2021 Rs. 24.45.

# NHDC Ltd. (Subsidiary) – Snapshots : FY 21-22

Shareholding Pattern : 51:49 (NHPC : GoMP)

Installed Capacity : 1520 MW

Design Energy : 2159.71 MUs

Generation : 2645 MUs (FY'22), 4236 MUs (FY'21)

PAF : 92.74% (FY'22), 94.82% (FY'21)

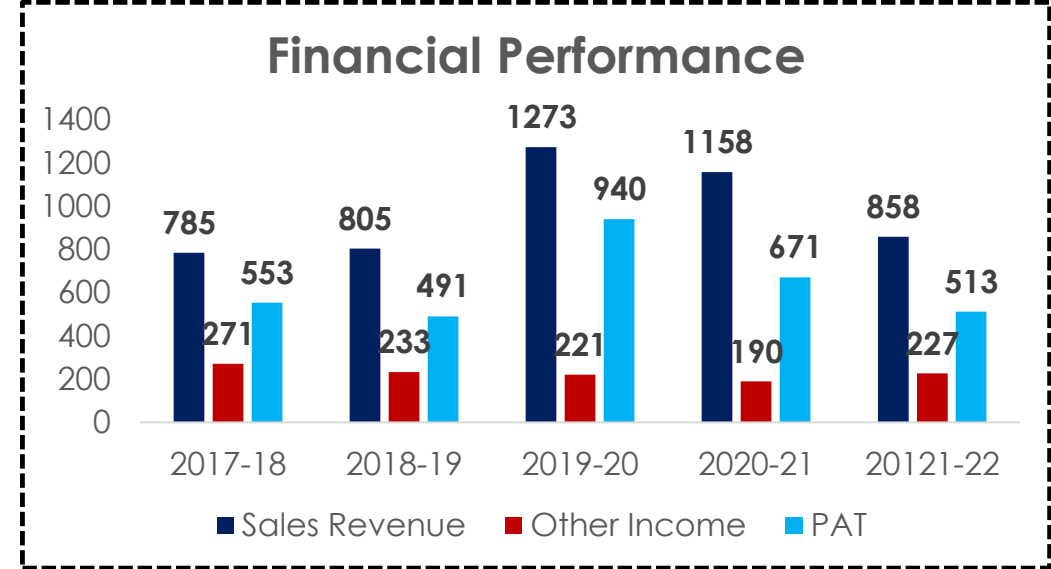
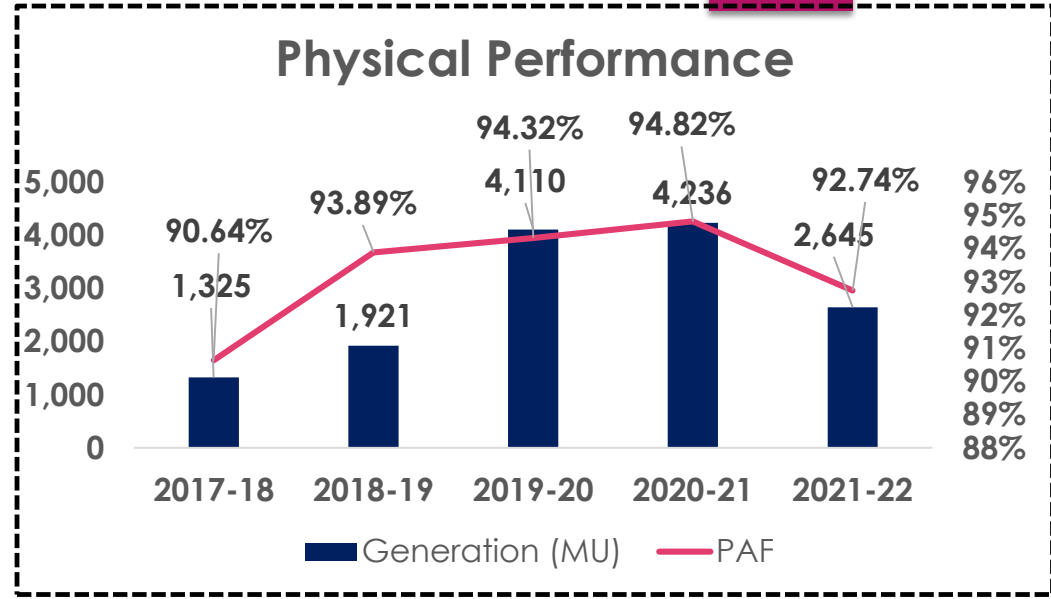
Revenue from operations : Rs. 858 Crs. (FY'22), 1158 Crs. (FY'21)

PAT : 513 Crs. (FY'22), 671 Crs. (FY'21)

PAF Incentive : Rs. 23 Crs. (FY'22), Rs. 34 Crs. (FY'21)

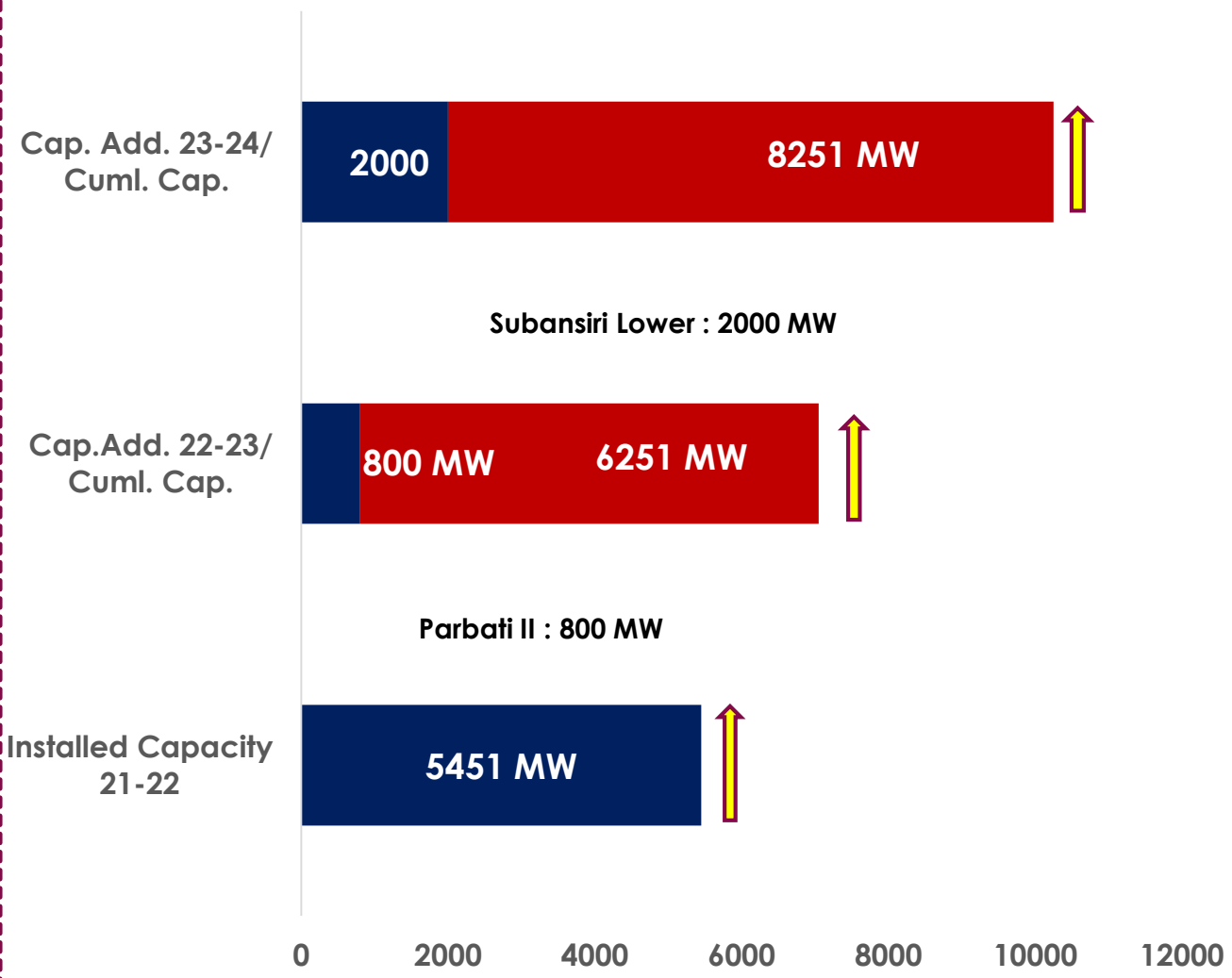
Secondary Energy : Rs. 56 Crs. (FY'22), Rs. 254 Crs. (FY'21)

Regulated Equity: Rs. 2014 Crs. (FY 2021-22)

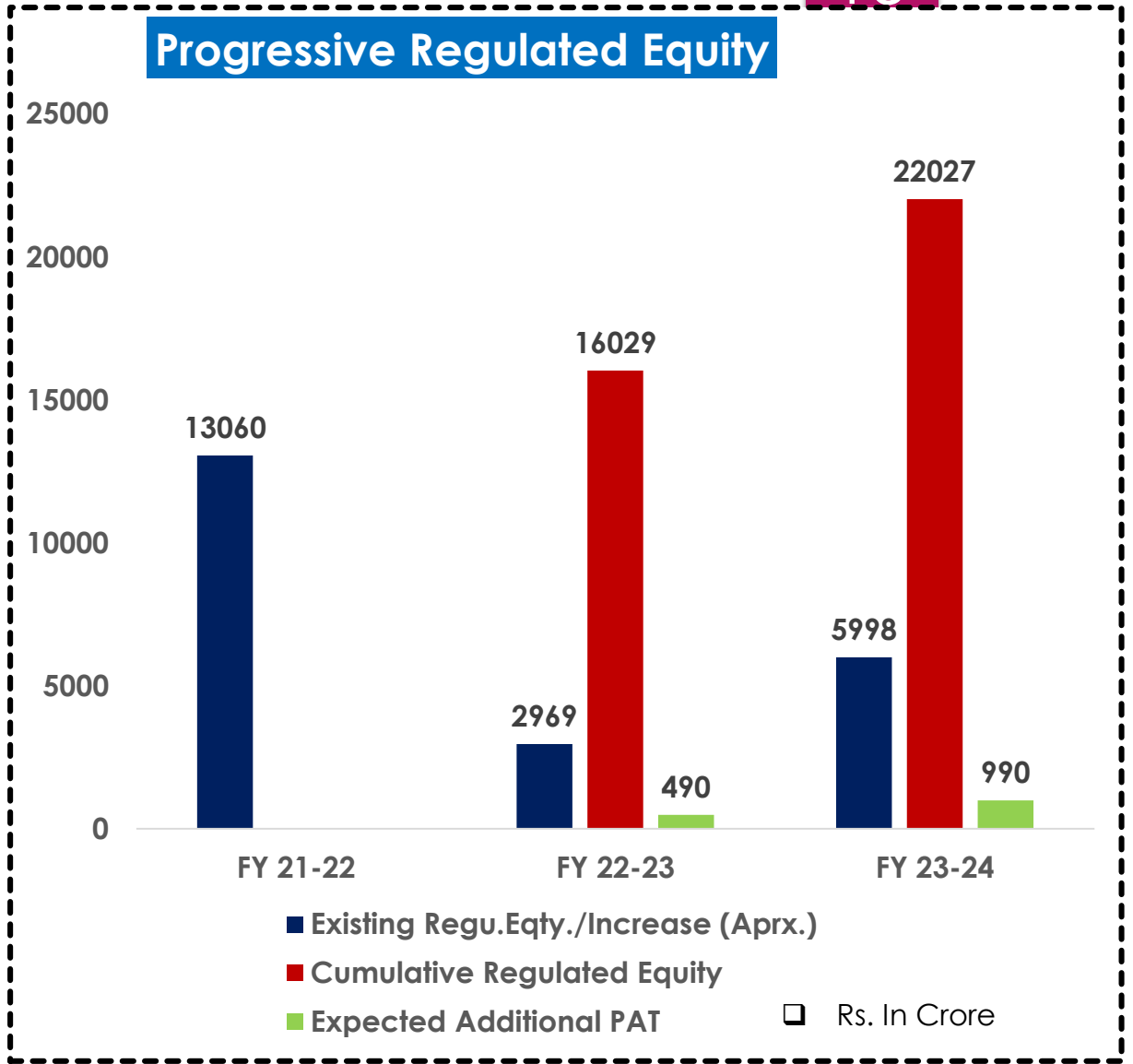


# NHPC – Capacity Addition & Regulated Equity (Hydro)

## Progressive Capacity Addition



## Progressive Regulated Equity



Power Station with highest generation during FY'22 : Salal (3486 MU, Annual D.E-3082 MU)



F.Y	Amount (Rs. In Crore)	Remarks
2014-15	2615	(Actual)
2015-16	2793	(Actual)
2016-17	2438	(Actual)
2017-18	2722	(Actual)
2018-19	2213	(Actual)
2019-20	4155	(Actual)
2020-21	3568	(Actual)
2021-22	5166	(Actual)
2022-23	5862	(BE)





- ❖ Some of the largest Hydroelectric Projects in the Siang and Subansiri Basins have been allotted to NHPC. The Projects in Subansiri Basin viz. 2000 MW Subansiri Upper and 1800 MW Subansiri Middle shall be developed by NHPC on standalone basis while 10000 MW Upper Siang and 2700 MW Siang Lower in Siang Basin are to be developed on JV mode.
- ❖ Hon'ble Prime Minister of India laid the foundation Stone of the Kwar Hydroelectric Project (540 MW) on 24.04.2022 and Cabinet Committee on Economic Affairs (CCEA) chaired by Hon'ble Prime Minister of India accorded investment approval to the project at an amount of Rs. 4526.12 crore.
- ❖ Ministry of Power has conveyed the Government investment sanction for implementation of Ratle HE Project at an amount of Rs. 5281.94 crore. The new joint venture of NHPC and Jammu & Kashmir State Power Development Corporation Limited (JKSPDC) by which the project shall be implemented has been incorporated namely "Ratle Hydroelectric Power Corporation Limited" on 1st June '21. The contract for Turnkey execution of the project has been awarded to M/s Megha Engineering and Infrastructure Limited on 18.01.2022.
- ❖ Power Purchase Agreement (PPA) has been signed between Bundelkhand Saur Urja Limited (BSUL) and Uttar Pradesh Power Corporation Limited (UPPCL) for Kalpi Solar Power Project on 28.04.2022 at a fixed tariff of Rs. 2.68/unit.
- ❖ NHPC bagged 1000 MW Solar Power Project at a Viability Gap Funding (VGF) of Rs. 44.90 Lakh/MW under CPSU Scheme, Phase-II, Tranche-III in the e-Reverse auction conducted by Indian Renewable Energy Development Authority (IREDA) on 23.09.2021. EPC Contracts for the same have also been awarded to the firms.
- ❖ NHPC signed Promoters' Agreement with Green Energy Development Corporation of Odisha Ltd. (GEDCOL) on 04.01.2022 for "Development of 500 MW Floating Solar Projects on different water bodies in Odisha". The equity shareholding of NHPC and GEDCOL in the proposed Joint Venture Company shall be in the proportion of 74:26.

# Renewable Energy

☐ Solar Energy



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## A (i) Standalone (Ownership Based)

### (a) Under Construction

S.No	Name of Project	Capacity (MW)	Estimated Capital cost (in Crs.)	Expected Commissioning Schedule	Tariff (Rs./unit)	Status of PPA
1	Solar Power Project, Ganjam (Odisha)	40	178.00	2022-23	2.75	PPA Signed with GRIDCO
2	1000 MW Grid Connected Solar Power Project under CPSU Scheme (Rajasthan-300 MW, Gujarat – 600 MW & Andhra Pradesh – 100 MW)	1000	6564.00	2023-24	2.45	Consent for procurement of power received for 825 MW, draft PPA under finalisation. Consent for procurement of balance 175 MW is under exploration.
<b>Total-(a)</b>		<b>1040</b>	<b>6742.00</b>			

### (b) Tender Stage

S.No	Name of Project	Capacity (MW)	Estimated Capital cost (in Crs.)	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Ground Mounted Solar, Jaisalmer (Rajasthan) under UMREPP	600	3000.00	2022-23	2.90	PPA under exploration
2	75 MW capacity ISTS connected Solar Power Project for sale of energy through Power Exchange	75	430.00	2023-24	2.80	Power to be sold through Power Exchange
<b>Total-(b)</b>		<b>675</b>	<b>3430.00</b>			
<b>Sub Total Standalone (Ownership Based) -A(i): (a+b)</b>		<b>1715</b>	<b>10172.00</b>			

## A (ii) Standalone (As Intermediary Procurer)

### (a) Under Construction

S.No	Name of Project	Capacity (MW)	Estimated Capital cost	Expected Commissioning Schedule	Tariff (Rs./unit)	Status of PPA
1	Projects through Solar Power Developers, Rajasthan	2000	0.00	2022-23	2.55 (1680 MW) 2.56 (320 MW)	PPA and PSA signed. Tariff adopted by CERC
	<b>Total-(a)</b>	<b>2000</b>	<b>0.00</b>			
<b>Sub Total Standalone (As Intermediary Procurer)-A(ii) (a):</b>		<b>2000</b>	<b>0.00</b>			
<b>Grand Total-A:[A(i)+A (ii)]</b>		<b>3715</b>	<b>10172.00</b>			

## B. JV Mode

### (a) Under Construction

S.No	Name of Project	Capacity (MW)	Estimated Capital cost	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Solar Power Project, Kalpi (UP) (JV-BSUL)	65	312.00	2022-23	2.68	Power Purchase Agreement has been executed between BSUL and UPPCL on 28 <sup>th</sup> April, 2022.
<b>Total- (a)</b>		<b>65</b>	<b>312.00</b>			

### (b) Tender Stage

S.No	Name of Project	Capacity (MW)	Estimated Capital cost	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Floating Solar Project, Odisha (Proposed JV between NHPC (74%) & GEDCOL (26%))	300	1500.00	2023-24	3.50	Under discussion with State Discom
2	Solar Park, Madhogarh (U.P.) (JV-BSUL)	45	210.00	2022-23	3.30	To be explored subsequently
3	Solar Park, Mirzaour (U.P.) (JV-BSUL)	100	480.00	2022-23	3.30	To be explored subsequently
<b>Total- (b)</b>		<b>445</b>	<b>2190.00</b>			

## B. JV Mode

### (c) Under Pipeline

S.No	Name of Project	Capacity (MW)	Estimated Capital cost	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Floating Solar Project, Odisha (Proposed JV between NHPC (74%) & GEDCOL (26%))	200	1000.00	2023-24	3.50	To be explored by JVC with State Discom
2	Solar Park, Jalaun (U.P.) under UMREPP (JV-BSUL)	1200	840.00	2023-24	To be discovered	To be explored subsequently
	<b>Total- (c)</b>	<b>1400</b>	<b>1840.00</b>			
<b>Grand Total-B:(a+b+c)</b>		<b>1910</b>	<b>4342.00</b>			

# NHPC Projects At A Glance



NHPC-Energising India With Hydropower

# NHPC – Projects in Operation

24

S. No	NHPC Project & State/UT	Installed Capacity (MW)	Design Energy (MU)	Year of comm.	Capital Cost as on 31.03.22	Tariff (18-19) (Rs. /Kwh)*	Type of the project
1	Baira Siul (3x60) Himachal Pradesh	180	708.59	1981 (Sep)	306.86	2.24	Run of River (ROR) with small pondage
2	Loktak, (3*35) Manipur	105	448.00	1983 (May)	183.73	3.89	Storage
3	Salal, (6x115) Jammu & Kashmir	690	3082.00	1987 (Nov)	1078.40	2.35	ROR
4	Tanakpur, (3x40) Uttarakhand	94	452.19	1992 (Apr)	430.74	3.30	ROR
5	Chamera-I, (3x180) Himachal Pradesh	540	1664.56	1994 (Apr)	2118.97	2.28	Storage
6	Uri-I, (4x120) Jammu & Kashmir	480	2587.38	1997 (Apr)	3458.50	2.11	ROR
7	Rangit, (3*20) Sikkim	60	338.61	2000 (Feb)	514.32	3.81	ROR with small pondage
8	Chamera-II, (3*100) Himachal Pradesh	300	1499.89	2004 (Feb)	2025.15	2.01	ROR with small pondage
9	Dhauliganga-I, (4x70) Uttarakhand	280	1134.69	2005 (Oct)	1771.54	2.43	ROR with small pondage.
10	Dulhasti, (3x130) Jammu & Kashmir	390	1907.00	2007 (Mar)	5231.78	5.07	ROR with small pondage



# NHPC – Projects in Operation... contd.

S.No.	NHPC Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.22	Tariff (18-19) (Rs. /Kwh)*	Type of the project
11	Teesta-V, (3x170) Sikkim	510	2572.70	2008 (Mar)	2844.96	2.33	ROR with small pondage
12	Sewa-II, (3x40) Jammu & Kashmir	120	533.53	2010 (Jun)	1153.36	5.48	ROR with small pondage
13	Chamera-III , (3x77) Himachal Pradesh	231	1108.17	2012 (Jun)	2144.58	3.94	ROR with small pondage
14	Chutak , (4x11) Jammu & Kashmir	44	212.93	2013 (Jan)	945.24	9.87	ROR
15	TLDP-III, (4x33) West Bengal	132	594.07	2013 (Mar)	1942.70	5.30	ROR with small pondage
16	Nimoo Bazgo, (3x15) Jammu & Kashmir	45	239.33	2013 (Jan)	1086.78	10.69	ROR with small pondage
17	Uri –II, (4x60) Jammu & Kashmir	240	1123.77	2014 (Feb)	2459.18	5.16	ROR
18	Parbati-III (4x130) Himachal Pradesh	520	1963.29	2014 (May)	2726.61	3.08	ROR with small pondage
19	TLDP IV (4x40), West Bengal	160	717.72	2016 (Aug)	1809.59	4.35	Run of River with small pondage
20	Kishanganga (3x110) Jammu & Kashmir	330	1712.96	2018 (Mar)	5983.71	4.10	Run of River with Pondage
	<b>Total-A</b>	<b>5451</b>	<b>24601.38</b>		<b>40216.70</b>	<b>3.35</b>	<b>* Tariff for 2019-20, 2020-21 and 2021-22 yet to be notified.</b>

## Renewable Energy

26

S.No	Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.2022	Tariff 21-22 (Rs./unit)	Place of Project
1	Wind Power	50	94.22	2016	330.40	3.67	Lakhmana, Jaisalmer
2	Solar Power	50	105.95	2018	290.59	4.41	Theni/Dindigul District, Tamilnadu
	<b>Total-B</b>	<b>100</b>	<b>200.17</b>		<b>620.99</b>		
<b>Sub Total Stand-alone(A+B)</b>		<b>5551</b>	<b>24801.55</b>		<b>40837.69</b>	<b>3.36</b>	

## Operational Projects with Subsidiary

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	1423.26	2005	5122.76	3.67	Storage
2	Omkareshwar, (8x65) Madhya Pradesh	520	736.45	2007	3088.38	4.55	Storage
	<b>Total-C</b>	<b>1520</b>	<b>2159.71</b>		<b>8211.14</b>	<b>3.97</b>	<b>* Tariff for 2019-20, 2020-21 and 2021-22 yet to be notified.</b>
<b>Grand Total-D:(A+B+C)</b>		<b>7071</b>	<b>26961.29</b>				

# NHPC: Projects Under Construction

27

## Project Under Construction-Standalone

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 -March'22 (Rs. Crore)	Expected Commissioning Schedule
Subansiri Lower (8X250) Assam/ Ar. Pradesh	2000	7422	Run of River	6285.33 (Dec'02)	19992.43 (Jan'20)	15506.40	FY 23-24 (Q-2)
Parbati II (4X200) Himachal Pradesh	800	3125	Run of River with small pondage	3919.59 (Dec'01)	9897.59 (Apr'20)	9596.51	FY 22-23 (Q-4)
<b>Total (A)</b>	<b>2800</b>	<b>10547</b>		<b>10204.92</b>	<b>29890.02</b>	<b>25102.91</b>	

## Project Under Construction- JV

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 -March'22 (Rs. Crore)	Expected Commissioning Schedule
Pakal Dul (4X250) UT of J&K	1000	3330	Run of River	8112.12 (Mar'13)	8112.12 (Mar'13)	2223.86	FY 25-26 (Q-2)
Kiru (4X156) UT of J&K	624	2272	Run of River	4287.59 (July'18)	4287.59 (July'18)	707.60	FY 25-26 (Q-2)
Kwar (4x135) UT of J&K	540	1976	Run of River	4526.12 (Sept.20)	4526.12(Sept.20)	137.79	FY 26-27 (Q-3)
<b>Total (B)</b>	<b>2164</b>	<b>7578</b>		<b>16925.83</b>	<b>16925.83</b>	<b>3069.25</b>	

# NHPC: Projects Under Construction

28

## Project Under Construction-Subsidiary

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 – March'22 (Rs. Crore)	Expected Commissioning Schedule
Teesta-VI (4X125) Sikkim	500	2400	Run of River	5748.04 (July'18)	5748.04 (July'18)	1440.50	FY 23-24 (Q-4)
Rangit-IV (3X40) Sikkim	120	508	Run of River with small pondage	938.29 (Oct'19)	938.29 (Oct'19)	209.43	FY 24-25 (Q-1)
Ratle (4X205+30) UT of J&K	850	3137	Run of River	5281.94 (Nov'18)	5281.94 (Nov'18)	10.36	FY 25-26 (Q-4)
<b>Total (C)</b>	<b>1470</b>	<b>6045</b>		<b>11968.27</b>	<b>11968.27</b>	<b>1660.29</b>	
<b>Total (A+B+C)</b>	<b>6434</b>	<b>24170</b>		<b>39099.02</b>	<b>58784.12</b>	<b>29832.45</b>	

S. No.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
1	Teesta-IV (4x130) (Sikkim)	520	2252	6113 (Apr'21)	<ul style="list-style-type: none"> <li>All statutory clearances have been received except forest clearance (stage-II).</li> <li>Compliance to FRA, 2006 is in progress.</li> <li>Approval for pre-investment activities has been received.</li> <li>PIB memo incorporating comments of appraising departments submitted to MoP on 08.04.2022.</li> <li>Hon'ble Minister of Power and Minister of New &amp; Renewable Energy, Govt of India vide DO letter dt 09.05.2022 requested Chief Minister of Sikkim for expeditiously resolving the pending issue of FRA compliance &amp; private land acquisition.</li> </ul>
2	Dibang (12x240) (Ar. Pradesh)	2880	11223	32983 (May'21)	<ul style="list-style-type: none"> <li>Concurrence to Project, Environment Clearance, Forest Clearance (Stage-I) and Forest Clearance (Stage-II) have been received.</li> <li>CCEA approval for Rs. 1600 crore to incur expenditure on pre-investment activities &amp; balance clearances of the project has been accorded.</li> <li>PIB meeting held on 06.05.2022, wherein PIB directed to put the proposal again after evaluation of cost benefit analysis of Flood Moderation aspects by Ministry of Jal Shakti (MoJS) besides other details etc. Minutes awaited.</li> </ul>

S.No.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
3	Dugar (Himachal Pradesh)	500	1758	4250 (Completion Cost)	<ul style="list-style-type: none"> <li>MoU was signed on 25.09.2019 between NHPC and Govt. of Himachal Pradesh.</li> <li>Project Installed capacity revised from 449 MW to 500 MW as per Power Potential Study by HPA, CEA on 22.10.2020, resulting increase in design energy from 1610 MUs to 1758.40 MUs.</li> <li>MoEF &amp; CC vide letters dated 05.08.2020 and 08.02.2021 accorded approval to Term of Reference (TOR) for the project.</li> <li>Draft EIA/ EMP report submitted to HP State Pollution Control Board (HPSPCB) on 08.11.2021 for conducting public hearing. Public Hearing was conducted on 20.04.2022 at Killar. Proceedings of public hearing was issued by HPSPCB, Shimla on 06.05.2022.</li> <li>Proposal for Forest clearance has been in process.</li> <li>DPR submitted on 25.11.2020. Authority meeting held on 22.03.2022. Concurrence letter issued by CEA on 26.04.2022.</li> <li>Subsequent to accord of concurrence by CEA, matter of Indus Water Treaty (IWT) clearance is being taken up with MoJS.</li> </ul>

S.No.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
4	Sawalkot (6x225+1x56) (UT of J&K)	1856	7995	19021 (Aug'21 )	<ul style="list-style-type: none"> <li>MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021.</li> <li>The project shall be executed by NHPC on BOOT basis for the period of 40 years.</li> <li>Agreement for handing over / taking over signed between NHPC and JKSPDC on 11.12.2021 &amp; NHPC has taken over the Project.</li> <li>PIB meeting for pre-investment activities of Project held on 06.05.2022, wherein the proposal has been recommended. Minutes awaited.</li> <li>Process for obtaining forest clearance has been initiated.</li> </ul>
<b>Total</b>		<b>5756</b>	<b>23228</b>	<b>62367</b>	

S.No	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Cr.) & PL	Status
1	Kirthai-II (6x140 + 2x35 + 2x10)	930	3330	6384 (Feb'20)	<ul style="list-style-type: none"> <li>•MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021.</li> <li>•The project shall be executed by M/s CVPPPL on the same terms and conditions of that of Pakaldul, Kiru &amp; Kwar H E Projects.</li> <li>•JKSPDC has formed a committee to expedite handing over-taking over process Vide letter dated 04.02.2021.</li> <li>•The Appraisal has been transferred in the name of CVPPPL by CEA on 29.12.2021.</li> <li>•NHPC has requested MoP &amp; CEA vide letters dated 11.03.2022 for extending the validity of appraisal up to 13.06.2024.</li> </ul>
<b>Total</b>		<b>930</b>	<b>3330</b>	<b>6384</b>	



S.No	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Cr.) & PL	Status
1	Loktak D/S (2x33) Manipur	66	333.76	1311 (Jul 20)	<ul style="list-style-type: none"> <li>▪ All statutory clearances of project except CCEA are available.</li> <li>▪ PPA signed between Govt. of Manipur and LDHCL on 31.08.2020.</li> <li>▪ PIB Memo meeting held on 14.07.2021. As per PIB minutes, Cost (at completion) of Project without &amp; with establishment cost till zero date, likely year wise phasing of expenditure at Completion Cost (including establishment cost till zero date) during project cycle and funds to be made available by State Govt. of Manipur &amp; Tariff calculations furnished to MoP vide letter dated 16.08.2021 for further direction &amp; necessary action.</li> <li>▪ NHPC shared the above information with Govt of Manipur as per direction of PIB vide letter dtd 19.08.2021.</li> <li>▪ Additional Secretary, MoP &amp; Secretary (Power), MoP vide DO dated 05.10.2021 &amp; 22.11.2021 respectively requested Chief Secretary, Govt of Manipur to look into the matter and expedite the confirmation of Govt. of Manipur.</li> <li>▪ Secretary (Power) vide D.O. dtd 24.03.2022 conveyed to Chief Secretary, Manipur that as commitment from Government of Manipur towards the project is still awaited, the Ministry is now constrained to drop the ongoing proposal.</li> </ul>
<b>TOTAL</b>		<b>66</b>	<b>333.76</b>	<b>1311</b>	

S. No.	Projects	State	Installed Capacity (MW)	Status
<b>Projects Under FR/DPR Preparation</b>				
1	Garba Tawaghat	Uttarakhand	630	<ul style="list-style-type: none"> <li>Implementation of the project is held up due to pending consent of Govt. of Nepal.</li> <li>8th Indo-Nepal meeting was held on 10th-11th December 2020, but the matter was not kept in final agenda, though its inclusion as agenda point was proposed by NHPC.</li> <li>A letter dtd 15.01.2021 was sent by CMD, NHPC to Secy. (Water Resource) with a request to take up the matter with Govt. of Nepal/appropriate forums for clearance under Mahakali Treaty.</li> <li>NHPC vide letters dated 03.11.2021 &amp; 10.12.2021 has requested MoP to take up the matter with MEA/MoWR for discussion with Govt. of Nepal/appropriate forums for clearance under Mahakali treaty.</li> <li>NHPC vide letters dated 28.01.2022 &amp; 16.02.2022 requested MoP to take up the matter with MoWR for placing the project in the agenda of the next meeting of JCWR/ JSC/JWG to be convened and facilitate implementation of Garba Tawaghat HE Project by NHPC. The response is awaited.</li> <li>9th Indo-Nepal JSC/JWG meeting was held on 23-24 Feb' 2022, but the matter was not kept in final agenda, though its inclusion in the agenda was requested by NHPC.</li> </ul>

S. No.	Projects	State	Installed Capacity (MW)	Status
<b>Projects Under FR/DPR Preparation</b>				
2	Dulhasti Stage-II	UT of Jammu & Kashmir	260	<ul style="list-style-type: none"> <li>MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021.</li> <li>The project shall be executed by NHPC on BOOT basis for the period of 40 years.</li> <li>1st Consultation Meeting with CEA for preparation of DPR was held on 17th Mar'2021 and Minutes of Meeting (MOM) was issued on 25.03.2021.</li> <li>MoEF&amp;CC vide letter dated 16.07.2021 has conveyed the approval to the ToR for EIA/ EMP studies of the project. EIA studies are in progress.</li> <li>No forest clearance is required. NOC has been obtained from Forest department.</li> <li>Defence Clearance has been accorded by MoD on 03.01.2022.</li> <li>All (9 nos.) Pre-DPR chapters have been submitted to concerned directorates of CEA/CWC/GSI/CSMRS etc. and 5 Chapters cleared out of 9 Chapters.</li> </ul>

# NHPC –Projects Under Survey & Investigation

36

S. No.	Projects	State	Installed Capacity (MW)	Status
<b>Projects Under FR/DPR Preparation</b>				
3	Uri-I Stage-II	UT of Jammu & Kashmir	240	<ul style="list-style-type: none"> <li>MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021.</li> <li>The project shall be executed by NHPC on BOOT basis for the period of 40 years.</li> <li>1st Consultation Meeting with CEA for preparation of DPR was held on 15th Feb'2021 and MOM issued on 22.02.2021.</li> <li>CEA-HPA division during examination of power potential studies, vide letter dated 12.04.2021 has recommended that: "it is advised that the developer may drop the planned Uri-I Stage-II project and fully utilize existing project in national interest".</li> <li>NHPC has requested CEA to review the power potential studies vide letter dated 21.4.2021.</li> <li>MOEF&amp;CC vide letter dated 10.06.2021 has conveyed the approval to the TOR. EIA/ EMP studies is in progress.</li> <li>Process for obtaining forest clearance has been initiated.</li> <li>CEA vide letter dated 03.09.2021 has given go ahead with framing of the DPR of Uri-I Stage-II HEP.</li> <li>All (9 nos.) Pre-DPR chapters have been submitted to concerned directorates of CEA/CWC/GSI/CSMRS etc. and 3 Chapters cleared out of 9 Chapters.</li> <li>CEA vide email dated 10.05.2022 has granted the permission for submitting the DPR online.</li> </ul>
<b>Total</b>			<b>1130</b>	



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You

