



Clean Power For Every Home



INVESTOR PRESENTATION

FINANCIAL YEAR 22-23 : December 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



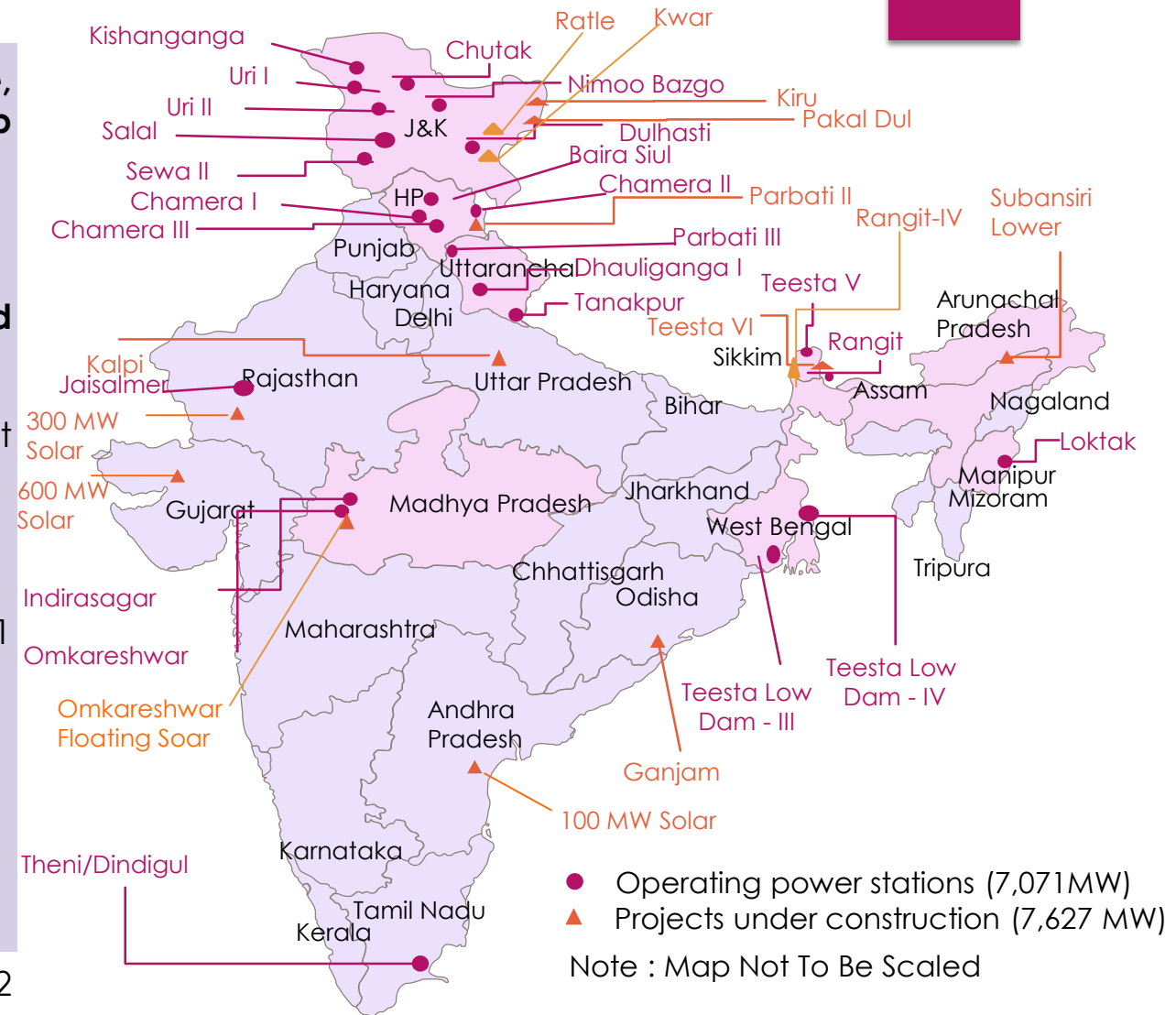
Teesta V, Sikkim

PHYSICAL SNAPSHOT

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- 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 16 states.
- 15% share of installed hydro-electric capacity in India (6,971 MW out of 46,850 MW*).
- Consultancy business.
- Power trading business.
- Exposure to international business opportunities.

* Source-CEA as on 31.12.2022



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

PHYSICAL SNAPSHOT

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Installed Capacity

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

Under Construction

- ❖ Projects Under Construction (including Subsidiary & JV) :-
 - Hydro & Solar - 14 Nos. (7627 MW)

Awaiting Clearances

- ❖ Projects Awaiting Clearances : -
 - Standalone - 5 Nos. (5996 MW)
 - Joint Venture - 1 No. (930 MW)
 - Subsidiary – 1 No. (66 MW)

Under Survey & Investigation

- ❖ Projects under Survey & Investigation - 2 Nos. (890 MW)

Hydro Power is 11% (46850 MW) of All India Installed Capacity (410339 MW**).

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

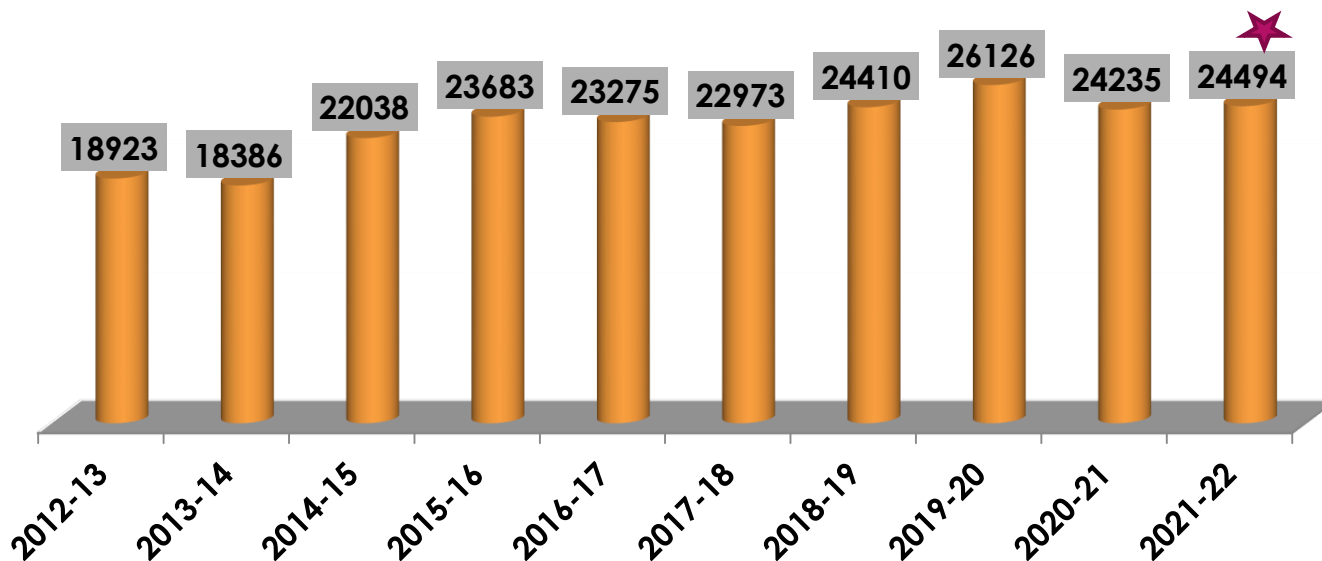
| Status | Capacity (MW) |
|---|---------------|
| Operational Projects | 7,071 |
| Projects Under Construction (including Subsidiary & JV) | 7,627 |
| Projects Under Clearance: | |
| Stand alone | 5,996 |
| JV Projects | 930 |
| Subsidiaries | 66 |
| Projects Under Survey & Investigation | 890 |
| Total | 22,580 |

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

** Source-CEA as on 31.12.2022

NHPC 's Track Record – A Ten Year Digest

Standalone Generation (in M.U.)



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

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Actual 9M FY'23

Actual 9M FY'22

• Country Generation
1071 BU

• Country Generation
985 BU

• Share of Hydro Power
138 BU (13%)

• Share of Hydro Power 126 BU (13%)

• Share of NHPC (Hydro) Standalone
21601 MU (16%)

• Share of NHPC (Hydro)- Standalone
20987 MU (17%)

Financial Highlights



Sewa II, J&K



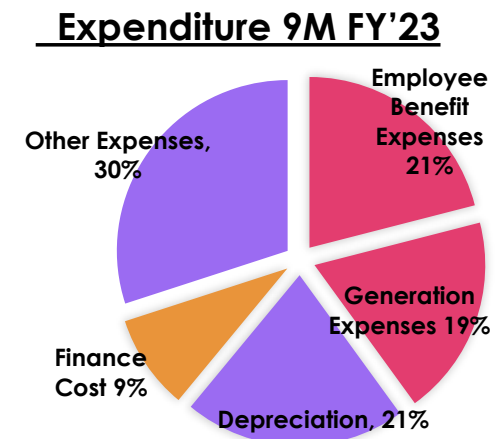
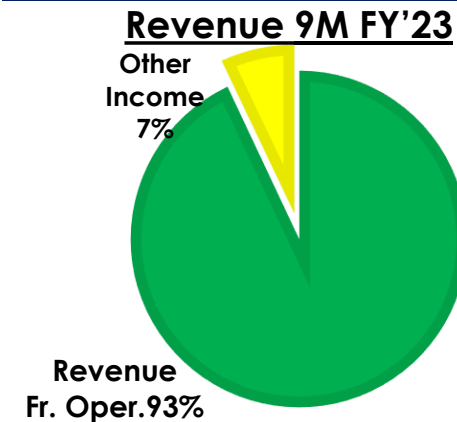
Chamera I, Himachal

Clean Power For Every Home

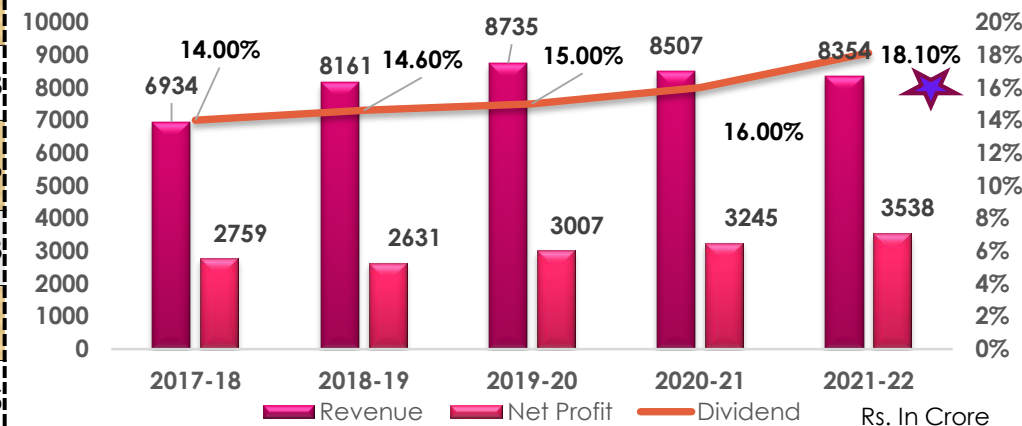
Financial Highlights : Standalone

| Particulars | FY'23 | | FY'22 | | | % Change | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|-------------|---------|
| | Nine Months | Qtr-3 | Nine Months | Qtr-3 | Full Year | Nine Months | Qtr-3 |
| Revenue from Operation | 7598.91 | 2272.20 | 6803.46 | 1932.39 | 8309.22 | 11.69 | 17.58 |
| Other Income | 580.78 | 249.07 | 524.46 | 150.18 | 1026.18 | 10.74 | 65.85 |
| Total Income (A) | 8179.69 | 2521.27 | 7327.92 | 2082.57 | 9335.40 | 11.62 | 21.07 |
| Generation Expenses | 784.39 | 147.31 | 707.14 | 128.92 | 841.24 | 10.92 | 14.26 |
| Employee Benefits Expense | 884.42 | 286.68 | 942.43 | 319.34 | 1440.78 | -6.16 | -10.23 |
| Finance Cost | 363.95 | 120.23 | 398.61 | 130.41 | 531.75 | -8.70 | -7.81 |
| Depre. & Amort. Expense | 859.19 | 288.04 | 845.96 | 286.50 | 1126.22 | 1.56 | 0.54 |
| Other Expenses | 1221.49 | 363.06 | 898.89 | 304.37 | 1348.55 | 35.89 | 19.28 |
| Total Expenditure(B) | 4113.44 | 1205.32 | 3793.03 | 1169.54 | 5288.54 | 8.45 | 3.06 |
| PBT(Before RRA)(C=A-B) | 4066.25 | 1315.95 | 3534.89 | 913.03 | 4046.86 | 15.03 | 44.13 |
| Rate Regu. Income (D) | -359.97 | -547.90 | -1344.80 | -1427.29 | -1270.42 | -73.23 | -61.61 |
| PBT (After RRA) (E=C+D) | 3706.28 | 768.05 | 2190.09 | -514.26 | 2776.44 | 69.23 | -249.35 |
| Tax (F) | 441.96 | -13.61 | -787.53 | -1274.82 | -761.27 | -156.12 | -98.93 |
| Profit After Tax (G=E-F) | 3264.32 | 781.66 | 2977.62 | 760.56 | 3537.71 | 9.63 | 2.77 |

Revenue & Expenditure-Analysis



Revenue Vs. Net Profit Vs. Dividend



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

Statement of Assets & Liabilities

Rs. In Crore



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| Equity and Liabilities | 9M FY'23 | FY'22 |
|---|-----------------|-----------------|
| Share Holder's Funds | 36273.03 | 33486.10 |
| Loan Funds-Long Term | 22672.26 | 23179.49 |
| Deferred Tax Liabilities | 1874.45 | 2100.74 |
| Other Long term Liabilities & Provisions | 4130.41 | 4162.25 |
| Current Liabilities & Provisions | 6695.25 | 6057.77 |
| Regulatory Deferral Account Credit Balances | 1313.27 | 1313.27 |
| Total Equity & Liabilities | 72958.67 | 70299.62 |
| Assets | | |
| PPE (incl. investment property) | 17595.28 | 19029.04 |
| Capital Work in Progress | 23137.47 | 20573.84 |
| Right of Use Assets | 2504.60 | 1783.12 |
| Intangible Asset | 3.62 | 3.11 |
| Non Current Financial Asset | 11597.47 | 10934.71 |
| Non Current Assets (Others) | 3636.78 | 3763.48 |
| Regulatory Asset | 6594.64 | 6948.11 |
| Trade Receivables | 5276.49 | 4621.48 |
| Cash and Bank Balances | 952.34 | 1160.71 |
| Current Assets (Others) | 1659.98 | 1482.02 |
| Total Assets | 72958.67 | 70299.62 |

Debtors Position

Rs. In Crore

Total Debtors (in Crs.)

| S. N. | Particulars | As on 31.12.2022 | As on 30.09.2022 | As on 30.06.2022 | As on 31.03.2022 | As on 31.03.2021 |
|-------|--------------------|---|---|---|---|---|
| 1 | Trade Receivables | 5819 (including unbilled debtors of Rs. 2717 Crs.) | 5854 (including unbilled debtors of Rs. 2751 Crs.) | 5488 (including unbilled debtors of Rs. 2139 Crs.) | 4621 (including unbilled debtors of Rs. 1961 Crs.) | 4532 (including unbilled debtors of Rs. 1358 Crs.) |
| 2 | More than 45 days* | 229 | 113 | 1326 | 1024 | 1804 |

Top Five Debtors* (in Crs.)

| Name | 31.12.2022 | | 31.03.2022 | |
|-------------------------|------------|-------------------|------------|-------------------|
| | Total | More than 45 days | Total | More than 45 days |
| PDD, J&K (Incl. JKPCCL) | 2068 | 20 | 1393 | 931 |
| UPPCL, UP | 1546 | 0 | 1146 | 0 |
| WBSEDCL | 551 | 0 | 640 | 0 |
| PSPCL, Punjab | 385 | 0 | 452 | 5 |
| Haryana | 206 | 0 | 57 | 57 |

* Net of Provision

Incentives Position

Comparative Incentive YoY (in Crs.)

| Sl. | Particulars | FY22-23 | | | | | FY21-22 | | | | |
|-----|------------------|---------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | 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 | 13.61 | - | 13.61 | 0.00 | 0.00 | 13.36 | 124.67 | 138.03 |
| 2 | Incentives | 171.44 | 181.22 | 92.15 | - | 444.81 | 125.47 | 187.46 | 88.94 | 22.20 | 424.07 |
| 3 | Deviation Chrgs. | 72.14 | 47.25 | 29.20 | - | 148.59 | 37.90 | 47.23 | 44.71 | 59.91 | 189.75 |
| | G. Total | 243.58 | 228.47 | 134.96 | - | 607.01 | 163.37 | 234.69 | 147.01 | 206.78 | 751.85 |
| 4 | PAF | 98.58% | 99.87% | 88.23% | - | 95.55% | 92.45% | 99.00% | 84.46% | 76.76% | 88.19% |

Supplements

Power Station With Highest PAF Incentive : Salal (Rs. 64 Cr. PAF : 97.01%, NAPAF : 64%)

Power Station with highest Deviation Charges: Salal (Rs. 40 Cr.)

Power Station Giving Best Generation : Uri-II (107% of the annual design energy)

Supplements

Power Station with Highest PBT- Dulhasti (Rs. 560 Crs)

NHPC Profit per MW: Rs. 59 lakhs (9M FY'23), Rs. 54 lakhs (9M FY'22)

NHPC Profit per Employee: Rs. 67 lakhs (9M FY'23), Rs. 57 lakhs (9M FY'22)

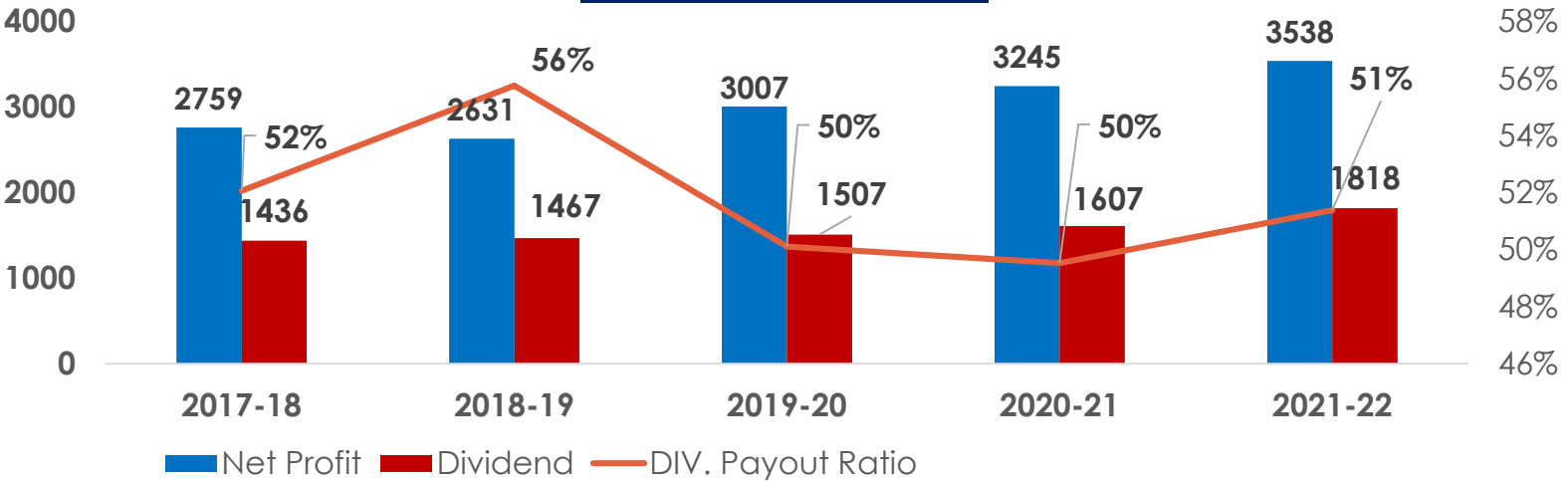
Key Financials : 9M FY'23

12 Rs. In Crore

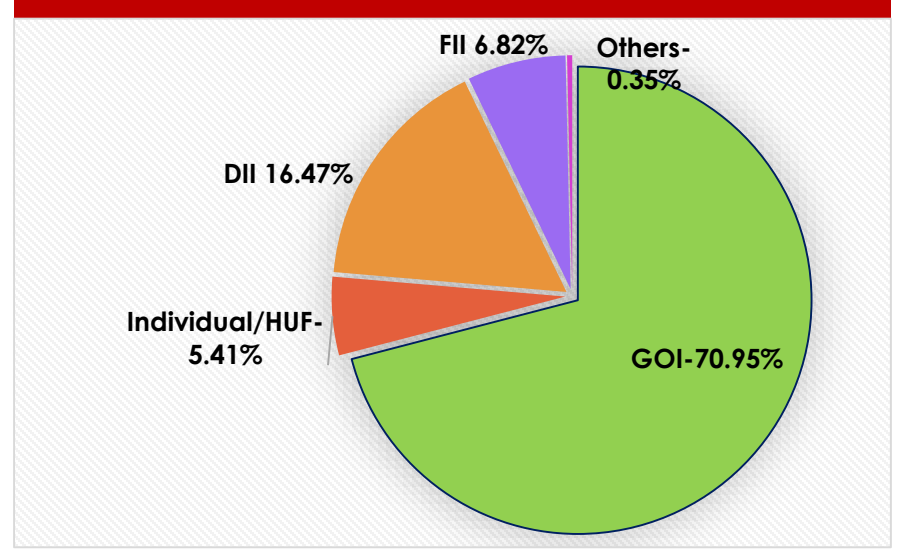
| P&L | Standalone |
|--------------------------|--------------------------------------|
| Total Income | 8180 |
| EBITDA | 4827 |
| EBITDA Margin | 59% |
| PAT | 3264 |
| Profit Margin | 40% |
| Dividend Pay Out (FY'22) | Rs. 1.81 Per Share/ 51% of Profit |

| Balance Sheet | Standalone |
|------------------|------------|
| Share Capital | 10045 |
| Net worth | 36273 |
| Long Term Debt | 22672 |
| Cash & Bank Bal. | 952 |
| Gross Block | 39880 |
| CWIP | 23137 |

Dividend Pay out



Shareholding pattern as on 31.12.2022



| S. No. | Particulars | 9M FY'23 | | FY'22 | |
|--------|--------------------------------------|------------|--------------|------------|--------------|
| | | Standalone | Consolidated | Standalone | Consolidated |
| 1. | PAT (Rs. in Cr.) | 3264.32 | 3246.58 | 3537.71 | 3523.57 |
| 2. | Net-worth (Rs. in Cr.) | 36273.03 | 37690.76 | 33486.10 | 34920.98 |
| 3. | No. of Equity Shares (In Cr.) | 1004.50 | 1004.50 | 1004.50 | 1004.50 |
| 4. | EPS (Rs.) | 3.25* | 3.23* | 3.52 | 3.51 |
| 5. | Earning Yield(%)** | 7.93* | 7.88* | 12.66 | 12.63 |
| 6. | Dividend Per Share (Rs.) | | | 1.81 | |
| 7. | Dividend Yield(%)** | | | 6.51 | |
| 8. | Book Value per share (Rs.) | 36.11 | 37.52 | 33.34 | 34.76 |
| 9. | PB Ratio** | 1.14 | 1.09 | 0.83 | 0.80 |
| 10. | PE Ratio** | 9.46 | 9.52 | 7.90 | 7.92 |
| 11. | Return On Net worth (%) | 9.00* | 8.61* | 10.56 | 10.09 |
| 12. | Market Capitalisation (Rs. in Cr.)** | 41185 | | 27925 | |
| 13. | Debt Equity Ratio | 0.76 | 0.75 | 0.84 | 0.81 |

*Not annualised. **Stock Price (BSE): as on 03.02.2023 Rs. 41.00 & as on 31.03.2022 Rs. 27.80.

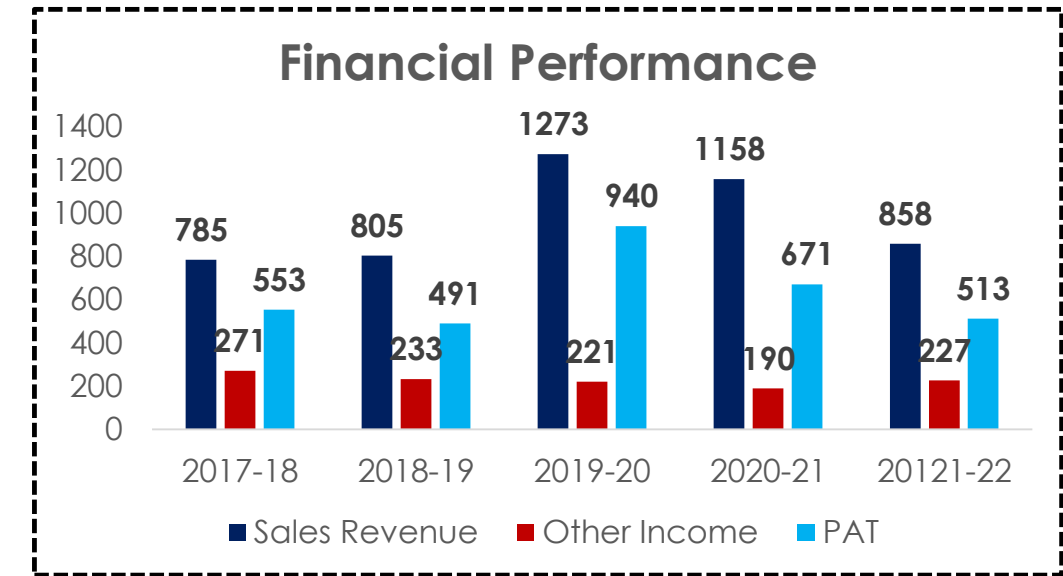
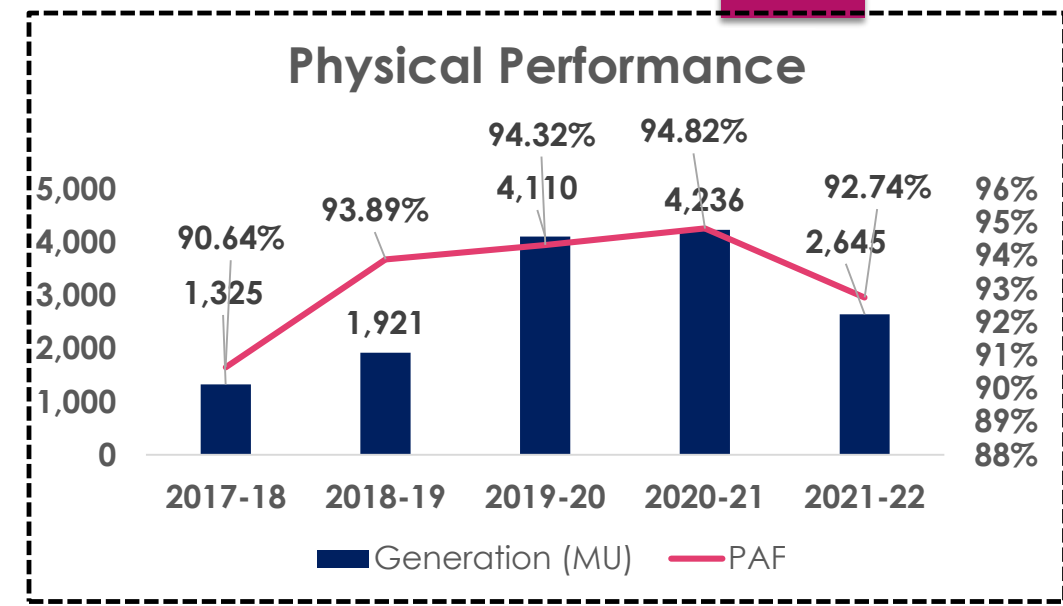
NHDC Ltd. (Subsidiary) – Snapshots : FY 21-22

- 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)

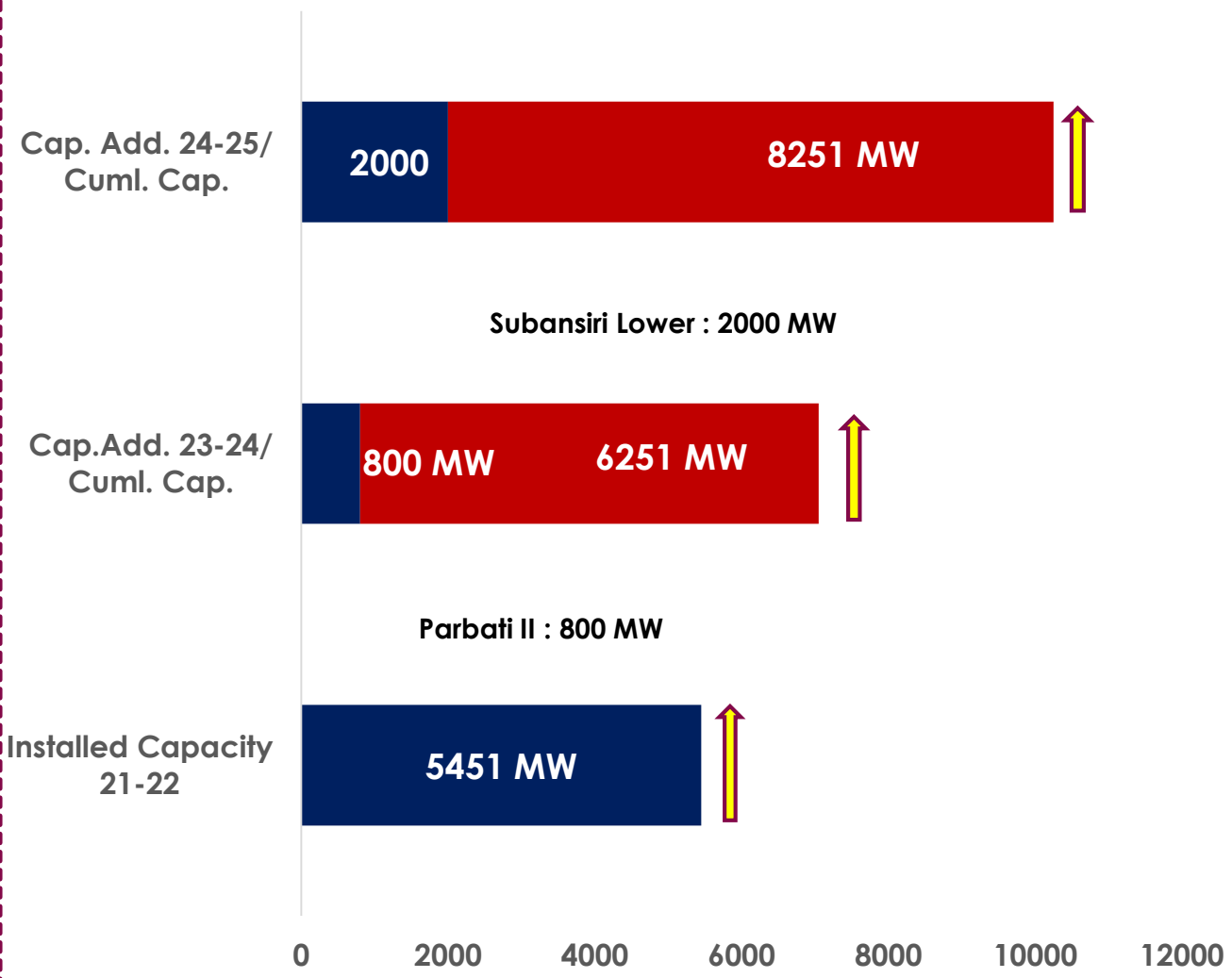


NHDC Ltd. – Financial Highlights : 9M FY 22-23

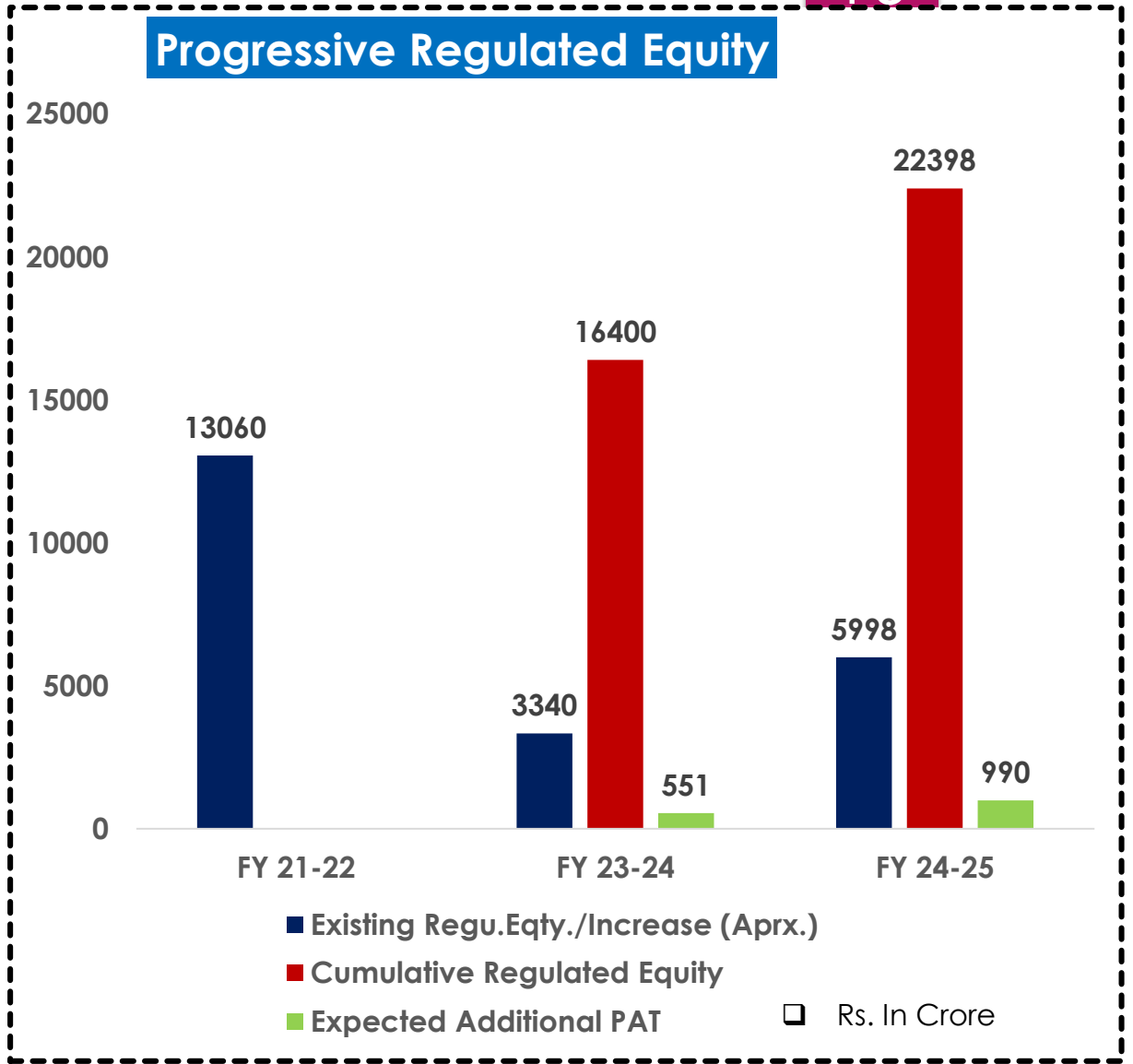
| Particulars | FY'23 | | FY'22 | | | % Change | |
|---------------------------|-------------|--------|-------------|--------|-----------|-------------|--------|
| | Nine Months | Qtr-3 | Nine Months | Qtr-3 | Full Year | Nine Months | Qtr-3 |
| Actual Generation (in MU) | 4444 | 1257 | 2006 | 665 | 2645 | 121.54 | 89.02 |
| Actual PAF (in %) | 96.38 | 105.90 | 91.67 | 100.00 | 92.74 | 5.14 | 5.90 |
| Revenue from Operations | 1001.91 | 320.23 | 675.93 | 227.31 | 858.20 | 48.23 | 40.88 |
| Total Income | 1143.85 | 371.60 | 844.07 | 293.52 | 1085.28 | 35.52 | 26.60 |
| Profit After Tax (PAT) | 622.99 | 206.55 | 412.78 | 154.35 | 512.96 | 50.93 | 33.82 |
| PAF Based Incentive | 30.95 | 21.80 | 14.53 | 14.67 | 23.25 | 113.01 | 48.60 |
| Secondary Energy | 332.77 | 84.06 | 46.60 | 14.83 | 55.62 | 614.10 | 466.82 |
| Deviation Chrgs. | 17.48 | 8.10 | 5.07 | 1.38 | 6.89 | 244.77 | 486.96 |

NHPC – Capacity Addition & Regulated Equity (Hydro)

Progressive Capacity Addition



Progressive Regulated Equity





| 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 | 4097 (9M FY 23) | (Conso. Target for the full year – Rs. 8061 Crore) |



- ❖ 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.
- ❖ NHPC as an intermediary procurer awarded 2000 MW ISTS connected solar PV Power Project to 5 nos. of developers with a trading margin of 7 paise/unit. Out of 2000 MW, 320 MW was awarded to M/s Avaada Energy Pvt. Ltd. at Bikaner, Rajasthan which has been fully commissioned on 10.12.2022.
- ❖ 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. Further, the project has been synchronized with the Grid and commissioned partially on 09.07.2022.
- ❖ Bulk Power Supply Agreement (BPSA) has been signed between Lanco Teesta Hydro Power Limited (LTHPL) and Chhattisgarh State Power Distribution Company Limited (CSPDCL) at Raipur on 21.07.2022 for power generated from 500 MW Teesta-VI H.E. Project for a period of 40 years from COD.
- ❖ NHPC has inked an MOU with the Investment Board of Nepal at Kathmandu, Nepal on 18.08.2022 for development of 750 MW West Seti and 450 MW SR-6 hydroelectric projects. NHPC also signed MOU with PTC India Limited for Power Sales Arrangement of these projects on 30.08.2022.
- ❖ NHPC Renewable Energy Limited (a wholly owned subsidiary of NHPC Limited) has signed MOU with Govt. of Rajasthan on 24.08.2022 at New Delhi for "Development of 10,000 MW Ultra Mega Renewable Energy Power Park" in the State of Rajasthan.

Renewable Energy

☐ Solar Energy



Clean Power For EVERY HOME

A (i) Standalone (Ownership Based)

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(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 | 2023-24 | 2.75 | PPA Signed with GRIDCO |
| 2 | 600 MW Grid Connected Solar Power Project under CPSU Scheme, Gujarat | 600 | 4295.63 | 2023-24 | 2.45 | Consent for procurement of power received for 1000 MW. Power Usage Agreement with WB DISCOMs signed on 23.11.2022. |
| 3 | 300 MW Grid Connected Solar Power Project under CPSU Scheme, Rajasthan | 300 | 1731.57 | 2023-24 | 2.45 | |
| 4 | 100 MW Grid Connected Solar Power Project under CPSU Scheme, Andhra Pradesh | 100 | 577.20 | 2023-24 | 2.45 | |
| Total-(a) | | 1040 | 6782.40 | | | |

(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 | Development of 75 MW capacity ISTS connected Solar Power Project anywhere in India for sale of power through Power Exchange | 75 | 430.00 | 2024-25 | 2.82 | PPA under exploration |
| 2 | Floating Solar Kerala (50MW), West Kallada | 50 | 326.00 | 2024-25 | 3.82 | PPA under exploration |
| Total-(b) | | 125 | 756.00 | | | |
| Sub Total Standalone (Ownership Based) -A(i): (a+b) | | 1165 | 7538.40 | | | |

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 | 2024-25 (Out of 2000 MW, 320 MW capacity was awarded to M/s Avaada Sunrays Energy Pvt. Limited which has been commissioned on 10.12.2022. Further, Balance capacity of 1680 MW is expected to be commissioned by 2024-25) | 2.55 (1680MW) 2.56 (320 MW) | PPA and PSA signed. Tariff adopted by CERC |
| Total-(a) | | 2000 | 0.00 | | | |
| Sub Total Standalone (As Intermediary Procurer)-A(ii) (a): | | 2000 | 0.00 | | | |
| Grand Total-A:[A(i)+A (ii)] | | 3165 | 7538.40 | | | |

B. Subsidiary/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) (Subsidiary-BSUL) | 65 | 312.00 | 2022-23 (Partial Commissioning of 26 MW achieved on 09.07.2022) | 2.68 | Power Purchase Agreement has been executed between BSUL and UPPCL on 28.04.2022. |
| 2 | Omkareshwar Floating Solar Park (MP) (Subsidiary – NHDC) | 88 | 589.16 | 2023-24 | 3.22 | Power Purchase Agreement has been Signed between MPPMCL, RUMSL & NHDC Ltd on 04.08.2022. |
| Total- (a) | | 153 | 901.16 | | | |

B. Subsidiary/JV Mode

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(b) 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%)) | 300 | 2000.00 | 2024-25 | 3.98 | To be explored by JVC with State Discom |
| 2 | Solar Park, Jalaun (U.P.) under UMREPP (Subsidiary -BSUL) | 1200 | 840.00 | 2024-25 | To be discovered | To be explored subsequently |
| | Total- (b) | 1500 | 2840.00 | | | |
| Grand Total-B:(a+b) | | 1653 | 3741.16 | | | |

NHPC Projects At A Glance



NHPC-Energising India With Hydropower

NHPC – Projects in Operation

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| 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, (3x35) Manipur | 105 | 448.00 | 1983 (May) | 183.73 | 3.89 | Storage |
| 3 | Salal, (6x115) UT of J&K | 690 | 3082.00 | 1987 (Nov) | 1078.40 | 2.36 | 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) UT of J&K | 480 | 2587.38 | 1997 (Apr) | 3458.50 | 2.12 | ROR |
| 7 | Rangit, (3x20) Sikkim | 60 | 338.61 | 2000 (Feb) | 514.32 | 3.81 | ROR with small pondage |
| 8 | Chamera-II, (3x100) 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) UT of J&K | 390 | 1907.00 | 2007 (Mar) | 5231.78 | 5.08 | 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) UT of J&K | 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) UT of Ladakh | 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) UT of Ladakh | 45 | 239.33 | 2013 (Jan) | 1086.78 | 10.68 | ROR with small pondage |
| 17 | Uri –II, (4x60) UT of J&K | 240 | 1123.77 | 2014 (Feb) | 2459.18 | 5.15 | 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) UT of J&K | 330 | 1712.96 | 2018 (Mar) | 5983.71 | 4.10 | Run of River with Pondage |
| | Total-A | 5451 | 24601.38 | | 40216.70 | 3.34 | * Tariff for 2019-20, 2020-21 and 2021-22 yet to be notified. |

NHPC – Projects in Operation... contd.

Renewable Energy

27

| 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 |
| | Total-B | 100 | 200.17 | | 620.99 | | |
| | Sub Total Stand-alone(A+B) | 5551 | 24801.55 | | 40837.69 | 3.35 | |

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 |
| | Total-C | 1520 | 2159.71 | | 8211.14 | 3.97 | * Tariff for 2019-20, 2020-21 and 2021-22 yet to be notified. |
| | Grand Total-D:(A+B+C) | 7071 | 26961.26 | | | | |

NHPC: Projects Under Construction

28

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 -Dec'22 (Rs. Crore) | Expected Commissioning Schedule |
|--|-------------------------|--------------------|---------------------------------|---|--------------------------------------|--|---------------------------------|
| Subansiri Lower (8X250) Assam/ Ar. Pradesh | 2000 | 7422 | Run of River with small pondage | 6285.33 (Dec'02) | 19992.43 (Jan'20) | 17,005.85 | FY 24-25 (Q-1) |
| Parbati II (4X200) Himachal Pradesh | 800 | 3124 | Run of River with small pondage | 3919.59 (Dec'01) | 11134.54 (July'22) | 10,157.53 | FY 23-24 (Q-3) |
| Total (A) | 2800 | 10546 | | 10204.92 | 31126.97 | 27,163.38 | |

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 -Dec'22 (Rs. Crore) | Expected Commissioning Schedule |
|-----------------------------|-------------------------|--------------------|---------------------|---|--------------------------------------|--|---------------------------------|
| Pakal Dul (4X250) UT of J&K | 1000 | 3230 | Run of River | 8112.12 (Mar'13) | 8112.12 (Mar'13) | 2,706.33 | FY 25-26 (Q-2) |
| Kiru (4X156) UT of J&K | 624 | 2272 | Run of River | 4287.59 (July'18) | 4287.59 (July'18) | 900.10 | FY 25-26 (Q-2) |
| Kwar (4x135) UT of J&K | 540 | 1975 | Run of River | 4526.12 (Sept.20) | 4526.12(Sept.20) | 243.56 | FY 26-27 (Q-3) |
| Total (B) | 2164 | 7477 | | 16925.83 | 16925.83 | 3,849.99 | |

NHPC: Projects Under Construction

29

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 – Dec'22 (Rs. Crore) | Expected Commissioning Schedule |
|-------------------------------|-------------------------|--------------------|---------------------------------|---|--------------------------------------|---|---------------------------------|
| Teesta-VI (4X125) Sikkim | 500 | 2400 | Run of River | 5748.04 (July'18) | 5748.04 (July'18) | 2,037.88 | FY 25-26 (Q-2) |
| Rangit-IV (3X40) Sikkim | 120 | 508 | Run of River with small pondage | 938.29 (Oct'19) | 938.29 (Oct'19) | 400.84 | FY 24-25 (Q-2) |
| Ratle (4X205+30) UT of J&K | 850 | 3137 | Run of River | 5281.94 (Nov'18) | 5281.94 (Nov'18) | 188.46 | FY 26-27 (Q-1) |
| Total (C) | 1470 | 6045 | | 11968.27 | 11968.27 | 2,627.18 | |
| Total (A+B+C) | 6434 | 24068 | | 39099.02 | 60021.07 | 33,640.55 | |

NHPC Standalone Projects Under Clearance

| S. N. | 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"> All statutory clearances have been received except forest clearance (stage-II). Compliance to FRA, 2006 is in progress. Approval for pre-investment activities received on 03.05.2016. PIB memo incorporating comments of appraising departments submitted to MoP on 08.04.2022. Hon'ble Minister of Power and Minister of New & 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 & private land acquisition. Gram Sabha meeting for Lum-Gor-Sangtok GPU was held on 08.10.2022. Final outcome report is awaited from District administration. Hon'ble Chief Minister, Sikkim held a meeting on 28.10.2022 along with Chief Secretary, Addl. PCCF from State Govt. with CMD, NHPC & other senior officers, in connection with implementation of Teesta-IV HE Project in Sikkim. Hon'ble Chief Minister assured all support from Govt. of Sikkim for early implementation of the Project. CMD, NHPC vide DO letter dated 22.12.2022 has appraised the Secretary, Ministry of Power about the issues related to the project. Regular persuasion is being done with State Government for expeditiously resolving the issues of compliance of Forest Clearance (Stage-II) related to FRA, 2006 and acquisition of 181.06 ha private & departmental land. |
| 2 | Dibang (12x240) Ar. Pradesh | 2880 | 11223 | 31876.39 (May'21) | <ul style="list-style-type: none"> Concurrence to Project, Environment Clearance, Forest Clearance (Stage-I) and Forest Clearance (Stage-II) have been received. CCEA approval for Rs. 1600 crore to incur expenditure on pre-investment activities & balance clearances of the project has been accorded. PIB in its meeting held on 11.10.2022 recommended the proposal regarding implementation of the Project by NHPC Ltd. for consideration of CCEA. Minutes of meeting issued on 28.10.2022. Draft material for CCEA note submitted to MOP on 28.10.2022. Draft CCEA note stands concurred by MoF vide OM dated 29.11.2022. As sought by PMO / MOP, requisite inputs / information were provided from time to time. Presently, CCEA note is under advanced stage of finalization / approval. |

| S. No. | Projects | Installed Capacity (MW) | Design Energy (MUs) | Cost (In Crore) & PL | Status |
|--------|---|-------------------------|---------------------|----------------------|--|
| 3 | Dugar (4 x103 + 2x44) Himachal Pradesh | 500 | 1760 | 4250 (Apr'2021) | <ul style="list-style-type: none"> MoU was signed on 25.09.2019 between NHPC and Govt. of Himachal Pradesh for implementation of the Dugar HE Project (449 MW) by NHPC on BOOT basis for a period of 70 years. Project Installed capacity increased 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 MU to 1758.40 MUs. Defence clearance has been accorded by MoD on 18.11.2020. MoEF&CC on 05.08.2020 had issued TOR for the project. However, due to change in installed capacity of project from 449 MW to 500MW, amendment in TOR was accorded by MoEF&CC on 08.02.2021. CEA accorded the Concurrence on 26.04.2022. The completion cost of the project is Rs. 4250.20 Crore at Apr' 2021 PL with Levellised Tariff Rs. 4.46/unit as per the concurrence. Draft PIB proposal submitted to MoP on 22.07.2022 & 05.09.2022. MoP returned the draft proposal on 26.09.2022 for want of FC-I, EC & IWT Clearances. Subsequent to accord of concurrence by CEA, matter of Indus Water Treaty (IWT) clearance is being taken up with MoJS. CEA vide e-mail dated 19.10.2022 has sought clarifications regarding Pondage aspects w.r.t. Indus Water Treaty angle. The reply has been sent to CEA on 25.10.2022. EAC in its meeting on 29.08.2022 recommended the project for Environment Clearance, however the letter will be issued after obtaining FC (St-I) letter. Proposal for Forest clearance has been forwarded by State Govt. to MoEF&CC on 04.07.2022. MoEF&CC on 04.08.2022 has raised queries, reply to which was submitted by Nodal Officer (FCA), Shimla to MoEF&CC on 14.10.2022. MoEF&CC vide letter dated 03.11.2022 has directed IRO, Shimla to conduct the site inspection and furnish a report to the Ministry. In this regard, IRO, Shimla vide letter dated 17.11.2022 has informed that the site inspection can be conducted after winter season. |

NHPC Standalone Projects Under Clearance

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| S.No. | Projects | Installed Capacity (MW) | Design Energy (MUs) | Cost (In Crore) & PL | Status |
|--------------|--|-------------------------|---------------------|--------------------------|---|
| 4 | Sawalkot (6x225+1x56) UT of J&K | 1856 | 7995 | 22704.80 (Completion) | <ul style="list-style-type: none"> MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021. The project shall be executed by NHPC on BOOT basis for the period of 40 years. Agreement for handing over / taking over signed between NHPC and JKSPDC on 11.12.2021 & NHPC has taken over the Project. The Ministry of Power has accorded approval on 12.07.2022 for incurring expenditure on pre investment activities for an amount of ₹ 973 crore at Nov.2021 Price Level. Process for obtaining forest clearance has been initiated. CEA vide letter dated 27.12.2022 vetted the cost estimates at completion level for an amount of ₹22704.80 crore including ₹4593.41 crore for IDC and ₹1124.20 crore for enabling infrastructure. |
| 5 | Uri-I Stage-II (2x120) UT of J&K | 240 | 929 | 2140 (Apr'22) | <ul style="list-style-type: none"> MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021. The project shall be executed by NHPC on BOOT basis for the period of 40 years. MOEF&CC vide letter dated 10.06.2021 has conveyed the approval to the TOR. EIA/ EMP studies is in progress. Process for obtaining forest clearance is in progress. DPR of Uri-I Stage-II HEP was submitted on 18.05.2022 and accepted by CEA for examination in the meeting held on 20.06.2022. 15 out of total 23 clearances have been obtained from concerned directorates of CEA /CWC/GSI/CSMRS etc. |
| Total | | 5996 | 24159 | 67084.19 | |

| S.No | Projects | Installed Capacity (MW) | Design Energy (MUs) | Cost (In Cr.) & PL | Status |
|--------------|--|-------------------------|---------------------|--------------------|---|
| 1 | Kirthai-II (6x140 + 2x35 + 2x10) UT of J&K | 930 | 3330 | 6384 (Feb'20) | <ul style="list-style-type: none"> •MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021. •The project shall be executed by M/s CVPPPL on the same terms and conditions of that of Pakaldul, Kiru & Kwar H E Projects. •The Appraisal has been transferred in the name of CVPPPL by CEA on 29.12.2021. •Defence Clearance was accorded by MoD on 24.03.2022. •Extension of validity of appraisal up to 13.06.2024 was accorded by CEA on 29.08.2022. Balance investigation works are in progress in compliance to DPR concurrence. •EAC had recommended for grant of Environment clearance (EC) to the project on 15.04.2021. MoEF vide letter dated 24.5.2021 has intimated JKSPDC that EC shall be accorded after Stage-I Forest Clearance is granted. •Application for FC on Parivesh Portal of MOEF&CC submitted successfully on dated 19.10.2022 |
| Total | | 930 | 3330 | 6384 | |

| 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"> ▪ All statutory clearances of project except CCEA are available. ▪ PPA signed between Govt. of Manipur and LDHCL on 31.08.2020. ▪ PIB Memo meeting held on 14.07.2021. As per PIB minutes, Cost (at completion) of Project without & 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 & Tariff calculations furnished to MoP vide letter dated 16.08.2021 for further direction & necessary action. ▪ NHPC shared the above information with Govt of Manipur as per direction of PIB vide letter dtd 19.08.2021. ▪ Additional Secretary, MoP & Secretary (Power), MoP vide DO dated 05.10.2021 & 22.11.2021 respectively requested Chief Secretary, Govt of Manipur to look into the matter and expedite the confirmation of Govt. of Manipur. ▪ Secretary (Power) vide DO 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. ▪ Comments of JS (Power), GoM dated 23.06.2022, forwarded by MSPCL to LDHCL on 30.06.2022, were replied by NHPC on 13.07.2022. Same was further submitted to MSPCL by LDHCL on the same day. ▪ CEA has declined to extend the validity of the concurrence of DPR vide their letter dt 04.08.2022. |
| TOTAL | | 66 | 333.76 | 1311 | |

NHPC –Projects Under Survey & Investigation

| S. No. | Projects | State | Installed Capacity (MW) | Status |
|--|------------------------|-------------|-------------------------|--|
| Projects Under FR/DPR Preparation | | | | |
| 1 | Garba Tawaghat (3x210) | Uttarakhand | 630 | <ul style="list-style-type: none"> Implementation of the project is held up due to pending consent of Govt. of Nepal. In the 9th Joint Steering Committee (JSC) Meeting on India-Nepal Cooperation in Power Sector held on 24.02.2022 in Kathmandu, Nepal, it was agreed by the parties to explore development of viable hydro projects in Nepal for beneficial exploitation of water resources through formation of a Joint Hydro Development Committee. CMD, NHPC vide letter dated 27.05.2022 requested Secretary, MoP to take up the matter with Joint Hydro Development Committee (JHDC) for bilateral discussions with Govt. of Nepal for clearance under Mahakali Treaty. As sought, a proposal on the project for taking up the matter with MEA, submitted to MoP on 21.06.2022. CMD, NHPC vide letter dated 29.06.2022 requested Chief Minister, Govt. of Uttarakhand to take up the matter with MoP, MEA & MoJS for bilateral discussions. CMD, NHPC vide letter dated 30.06.2022 requested Joint Secretary (Hydro) to take up the matter with MEA. Further, the proposal seeking clearance from Mahakali Treaty Angle was submitted to MoP on 30.06.2022. 7th JSTC & 9th JCWR meeting was held on 21st - 23rd September, 2022 at Kathmandu, Nepal. During the meeting, it was agreed that Indian side shall send a team to hold further discussion with Nepali side in next three months. NHPC vide letters dated 11.10.2022 & 22.12.2022 requested MEA to facilitate early implementation of decisions taken in the 7th JSTC & 9th JCWR meeting was held on 21st - 23rd September, 2022 at Kathmandu, Nepal. |

| S. No. | Projects | State | Installed Capacity (MW) | Status |
|--|---------------------------|-----------------------|-------------------------|--|
| Projects Under FR/DPR Preparation | | | | |
| 2 | Dulhasti Stage-II (2x130) | UT of Jammu & Kashmir | 260 | <ul style="list-style-type: none"> MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021. The project shall be executed by NHPC on BOOT basis for the period of 40 years. 1st Consultation Meeting with CEA for preparation of DPR was held on 17.03.2021 and Minutes of Meeting (MOM) was issued on 25.03.2021. MoEF&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. No forest clearance is required. NOC has been obtained from Forest department. Defence Clearance has been accorded by MoD on 03.01.2022. All (9 nos.) Pre-DPR chapters have been submitted to concerned directorates of CEA/CWC/GSI/CSMRS etc. and 7 Chapters cleared out of 9 Chapters. |
| | Total | | 890 | |



Thank
You

