



न्यूक्लियर पॉवर कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
**NUCLEAR POWER CORPORATION OF INDIA LIMITED**

(भारत सरकार का उद्यम A Government of India Enterprise)  
वित्त निदेशालय Directorate of Finance

एनपीसीआईएल, मुख्यालय, 8वां तल, उत्तरी विंग, विक्रम साराभाई भवन,  
NPCIL, HQ, 8<sup>th</sup> Floor, North Wing, Vikram Sarabhai Bhavan,  
अणुशक्तिनगर, मुंबई Anushaktinagar, Mumbai-400 094.  
सी आई एन CIN : U40104MH1987GOI149458



No. NPCIL/BOND/APR/2025-26/76

22<sup>nd</sup> April, 2025

To,  
The Vice-President- Listing Department,  
NATIONAL STOCK EXCHANGE OF INDIA LIMITED,  
Exchange Plaza, Bandra-Kurla Complex,  
Bandra (East), **MUMBAI- 400 051.**

Dear Sir/Madam,

**Subject:** Information on review of Rating of Non-Convertible Debt Securities by the Rating Agencies pursuant to Regulation 55 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015.

Pursuant to Regulation 55 read with the Regulation 51(2) of SEBI (LODR) Regulations, 2015 this is to inform you that the rating agencies ICRA Limited, CARE Ratings Limited, CRISIL Ratings Limited and India Rating and Research Private Limited have reaffirmed Non-Convertible Debentures of Nuclear Power Corporation of India Limited as '**AAA**' **Stable** for the **Financial Year 2024-25.**

The details of the reaffirmation and review of the Credit Ratings of NPCIL are enclosed (refer to Annexure-A) and the respective XBRL Form for Credit Rating is already uploaded on NEAPS portal with Acknowledgement no. 10812 Dated 22.04.2025

**Details of Credit Rating:**

Name of the Credit Rating Agency	Credit Rating	Outlook	Date of Credit Rating
CARE Rating Limited	CARE AAA	Stable	16.07.2024
CRISIL Rating Limited	CRISIL AAA	Stable	22.05.2024
ICRA Limited	ICRA AAA	Stable	13.03.2025
India Ratings and Research Private Limited	IND AAA	Stable	10.04.2024

Submitted for your information and records please.

For and on behalf of  
**Nuclear Power Corporation of India Limited**

*Srinivasan R*  
22/04/2025  
(SRINIVASAN R)  
Dy. Manager-Finance and Accounts



Encl. As stated above

## Nuclear Power Corporation of India Limited

July 16, 2024

Facilities / Instruments	Amount (₹ crore)	Rating <sup>1</sup>	Rating Action
Long-term bank facilities	12,465.47 (Enhanced from 10,145.87)	CARE AAA; Stable	Reaffirmed
Long-term / short-term bank facilities	1,000.00	CARE AAA; Stable / CARE A1+	Assigned
Non-convertible debentures	2,000.00	CARE AAA; Stable	Reaffirmed
Non-convertible debentures	2,200.00	CARE AAA; Stable	Reaffirmed
Non-convertible debentures	2,200.00	CARE AAA; Stable	Reaffirmed
Non-convertible debentures	3,500.00	CARE AAA; Stable	Reaffirmed
Non-convertible debentures	2,000.00	CARE AAA; Stable	Reaffirmed
Non-convertible debentures	2,500.00	CARE AAA; Stable	Reaffirmed
Non-convertible debentures	4,600.00	CARE AAA; Stable	Reaffirmed

Details of instruments/facilities in Annexure-1.

### Rationale and key rating drivers

CARE Ratings Limited (CARE Ratings) has reaffirmed the long-term rating of Nuclear Power Corporation of India Limited (NPCIL), while assigning "CARE A1+" to short-term bank facilities. Ratings derive strength from NPCIL's strong shareholding pattern, with Government of India (GoI) being the 100% owner. NPCIL's administrative control lies with the Department of Atomic Energy (DAE). CARE Ratings notes that GoI's strategic importance towards NPCIL is high towards the country's nuclear programme. The rating favourably factors in NPCIL's long-term power sales arrangement with power distribution companies (discoms) at the tariff determined by the DAE, which is largely based on principles of the Central Electricity Regulatory Commission (CERC), ensuring full recovery of cost with fixed returns subject to achievement of the normative parameters.

Ratings draw comfort from the large proportion of reactors employing indigenously developed technology, which also complements reactors operating on imported technology. Ratings take cognisance of GoI's continuous fuel management initiatives to support NPCIL, given its strategic importance and NPCIL's relatively competitive average tariff. Ratings take note of recent commissioning of the Kakrapar Atomic Power Station (KAPS)-4 unit of 700 megawatt (MW) with complete tie-up of capacity at a reasonable tariff. The sustained operational performance, characterised by long uninterrupted operations recorded by many of its reactors, has aided NPCIL to log a high plant load factor (PLF) over the years, adding strength to its business risk profile. Diversity in its underlying plant operations in terms of geographical and off-takers are other credit positives. While leverage metrics are expected to increase in the medium term considering large debt-funded proposed capacity addition, CARE Ratings expects improvement in the debt service coverage ratio (DSCR) considering commercialisation of units in Rajasthan and Tamil Nadu.

While ratings note significant financial progress in under-construction projects in FY24, there is risk associated with implementation and consequential increase in projected leverage metrics. Ratings factor cost overrun in units 7 and 8 (700 MW each) of the Rajasthan Atomic Power Station (RAPS) and Units 3 and 4 (1000 MW each) of the Kudankulam Nuclear Power Plant (KKNPP), which are expected to be commissioned in the next three years. NPCIL is also exposed to counterparty risk emanating from substantial sales to weaker discoms of Tamil Nadu, Jammu & Kashmir, and Telangana, which is alleviated through liquidity schemes rolled out by the Ministry of Power (MoP) in the last two years. Going forward, NPCIL is expected to receive a higher proportion of its sales from relatively stronger discoms of Gujarat.

### Rating sensitivities

#### Positive factors – Factors that could lead to positive rating action/upgrade

Not applicable

#### Negative factors – Factors that could lead to negative rating action/downgrade:

- Materially reducing sovereign ownership and the GoI's support to the company.
- Operations at lower-than-normative PLF on sustained basis, impacting profitability..
- Significant delays in receipt of payments from discoms, adversely impacting the liquidity profile.
- Inability to tie up PPAs at remunerative tariff for the new projects.

<sup>1</sup>Complete definition of the ratings assigned are available at [www.careedge.in](http://www.careedge.in) and other CARE Ratings Ltd.'s publications.

**Analytical approach:** Standalone. The rating continues to take cognisance of strategic importance of NPCIL to India's nuclear programme and parentage of GoI.

**Outlook:** Stable

The stable outlook reflects sustenance of NPCIL's strategic importance to GoI leading to favourable business model, maintenance of steady operational and financial risk profile in the medium term.

**Detailed description of key rating drivers**

**Key strengths**

**Strategic importance underpins government support**

NPCIL is wholly owned by GoI with administrative control by the DAE. The company is the only player in India for the design, construction, commissioning, and operations of first-stage nuclear power reactors. Thus, NPCIL continues to be of strategic importance to India's nuclear power programme. The GoI plays a pivotal role of decision-making for capacity addition, transfer of technology, arrangement of fuel or consumables until the economic life of the reactor, tariff determination, and off-take arrangement. Over the years, the GoI has demonstrated financial support to NPCIL in the form of equity and loans for its capex plans. Appointment of directors on the board is with consultation from the DAE and the Central Electricity Authority (CEA). The company's day-to-day operations are managed by a team of qualified and seasoned professionals.

**Long-term sales arrangement with cost-reflective tariff determined by DAE**

Capacity of NPCIL's power plants is entirely tied up through power purchase agreements (PPAs) having a tenure of 15 years. Allocation of power to discoms is done through MoP. On the recommendation of the CEA, the DAE notifies tariff of power stations (by powers vested under the Atomic Energy Act, 1962). The tariff considers fuel price and heavy water lease charges, operating expenses, depreciation, interest, insurance, foreign exchange variation, decommissioning or waste management or renovation costs. The return on equity (RoE) is also considered, ensuring stable cash flows for the company. The tariff is single part only.

**Management of fuel supply by GoI**

As on March 31, 2024, about 71% of the installed capacity of NPCIL are under (IAEA) safeguards and run on imported fuel, while 29% of the capacity is strategic and run only on domestically produced fuel.

GoI is arranging fuel for NPCIL by virtue of its long-term supply contract with overseas vendors for the supply of natural uranium fuel pellets for its pressurised heavy water reactors (PHWRs). Continuous availability of stockpile at nuclear fuel complexes in India will be important from NPCIL's operational standpoint.

**Large operational capacity having indigenised technology**

As on March 31, 2024, around 69% of the installed capacity of NPCIL comprises pressurised heavy-water reactor (PHWR), which has been indigenously developed. About 45% of the capacity, which is under implementation, will be deploying PHWR technology and is scheduled to be commissioned by March 31, 2030. NPCIL has added 2-gigawatt (GW) of light-water reactor (LWR) technology and is expected to add another 4 GW of the technology by FY30. Due to its superior heat rates and operating performance, LWR is a popular technology across the world. Its fuel or spent fuel management process complements PHWR's operations as well.

**Stable operational performance**

The extended period (typically for even more than one year) of operations for reactors at a stretch, while meeting the base load demand leads to high operational performance for NPCIL. Since commissioning a few reactors including KGS-1, 2, and 3, NAPS-2, and RAPS-3/5 have demonstrated strong uninterrupted operations at a stretch. NPCIL's overall PLF continued to remain comfortable at 88% in FY24 (PY: 87%), driven by strong power demand.

**Off-taker or locational diversification**

The company operates and manages 24 nuclear power plants spread across major states of India, including, Rajasthan, Gujarat, Maharashtra, Andhra Pradesh, Tamil Nadu, Karnataka, and Uttar Pradesh. NPCIL continues to supply power to more than 20 discoms in India.

**Limited impact on accident, covered by insurance**

NPCIL continues to have financial security, the Nuclear Operator Liability Insurance Policy of ₹1,500 crore per accident for all nuclear installations per The Civil Liability for Nuclear Damages Act, 2010.

### Reasonable coverage metrics, despite moderate leverage

Considering its cost-plus operating model with a healthy PLF, the elongated loan tenor and lower cost of borrowing, CARE Ratings expects the average DSCR to be higher than 1.5x, which is comfortable. Although moderating in the medium term, interest coverage is expected to remain above 4.0x. High construction cost and longer gestation period makes projects prone to cost overruns, and hence, the company has a leveraged capital structure. The total debt (TD) to PBILDT stood high at 8.89x in FY24. CARE Ratings expects TD/PBILDT to strengthen with gradual commissioning of RAPS-7 and 8, and KK-3 and 4 in the next three years. Considering higher dividend and debt-funded capex, the company's overall gearing has moderated yet is likely to remain below 1.6x.

### Key weaknesses

#### Counterparty risk emanating from weak financial profile of off-takers

The weak financial health of many of the discoms continues to remain a cause of concern for NPCIL. This is evidenced by the increase in the total receivables, especially since the COVID-19 outbreak. A sizeable portion of the overdue is from the discoms of Tamil Nadu, Jammu and Kashmir, and Telangana. NPCIL, given its competitive tariff and diversified off-taker base, has bargaining power in terms of collections. The continuous liquidation of the overdues under the EMI scheme defined in the Electricity (Late Payment Surcharge and Related Matters) Rules, 2023, is crucial and remains to be seen.

#### Project execution risk

As on March 31, 2024, the company is actively constructing eight reactors having an aggregate capacity of 6.8 GW. This is significant against NPCIL's net worth. The company has estimated 3.4 GW of capacity to be commissioned in the next three years. The cumulative physical progress of these projects, RAPS-7 and 8, and KK-3 and 4 was 79.07%, and 62.65%, respectively, as on March 31, 2024. NPCIL has 10 more reactors with a total capacity of 7.0 GW for construction, which are at an early stage. NPCIL entered a joint venture (JV) with NTPC to develop and operate some of these projects. Thus, CARE Ratings envisages an annual capital outlay of ₹20,000-23,000 crore in the medium term. The timely completion of projects within permissible capital costs will be important for NPCIL, so that its tariff continues to remain competitive.

#### Liquidity: Strong

NPCIL's projected gross cash accruals (GCA) less internal commitment for the capex in FY25 and FY26 is estimated to have adequate headroom over the scheduled debt repayments. The free cash and bank balance stood at ₹3,542 crore as on March 31, 2024. While the company's average collection period remained elevated in the last two years and gradual liquidation of discoms overdue, liquidity profile is expected to improve. Its fund-based working capital limit of ₹2,000 crore remained largely undrawn in 12-months ended March 31, 2024. NPCIL also enjoys a long credit period from its fuel supplier, the DAE.

Due to its strong parentage and healthy business model, the company has good access to banks and the capital market. It has been able to avail foreign currency borrowings with elongated repayment tenor at competitive rates in the past.

### Environment, social, and governance (ESG) profile

The adequate safety initiatives undertaken by NPCIL and low green-house gas emission intensity in business operations places NPCIL's environmental risk in a comfortable position. The company has sound waste management and fuel reprocessing processes. It has fair compliance standards, given the parentage and industry space in which it operates.

### Applicable criteria

- [Definition of Default](#)
- [Factoring Linkages Government Support](#)
- [Financial Ratios – Non financial Sector](#)
- [Liquidity Analysis of Non-financial sector entities](#)
- [Rating Outlook and Rating Watch](#)
- [Infrastructure Sector Ratings](#)
- [Thermal Power](#)
- [Short Term Instruments](#)

### About the company and industry

#### Industry classification

Macro-economic indicator	Sector	Industry	Basic industry
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Utilities	Power	Power	Power generation
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Incorporated in 1987, NPCIL was set up for operating atomic power plants and implementing atomic power projects for generation of electricity in pursuance of the schemes and programmes of the GoI under the Atomic Energy Act, 1962. The company operates under administrative control of the DAE, with the overall policy framework laid down by the Atomic Energy Commission (AEC). The Atomic Energy Regulatory Board (AERB), an independent body reporting to AEC, is the regulatory agency overseeing commissioning and de-commissioning nuclear power plants and overall safety of operations at NPCIL.

Brief Financials (₹ crore)	FY23 (Aud)	FY24 (Abr)
Total operating income	14,618.50	18,484.17
PBILDT	5,452.11	10,210.28
PAT	5,146.01	6,522.66
Overall gearing (times)	1.32	1.47
Interest coverage (times)	7.97	9.36

Aud: Audited; Abr: Abridged. These are latest available financial results.

**Status of non-cooperation with previous CRA:** Not applicable

**Any other information:** Not applicable

**Rating history for last three years:** Annexure-2

**Covenants of rated instruments/facilities:** Annexure-3

**Complexity level of instruments rated:** Annexure-4

**Lender details:** Annexure-5

#### Annexure-1: Details of instruments/facilities

Name of the Instrument	ISIN	Date of Issuance	Coupon Rate (%)	Maturity Date	Size of the Issue (₹ crore)	Rating Assigned along with Rating Outlook
Debentures-Non-convertible debentures	INE206D08162	23-Jan-2014	9.18	23-Jan-2025	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08170	23-Jan-2014	9.18	23-Jan-2026	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08188	23-Jan-2014	9.18	23-Jan-2027	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08196	23-Jan-2014	9.18	23-Jan-2028	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08204	23-Jan-2014	9.18	23-Jan-2029	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08212	28-Nov-2014	8.40	28-Nov-2025	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08220	28-Nov-2014	8.40	28-Nov-2026	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08238	28-Nov-2014	8.40	28-Nov-2027	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08246	28-Nov-2014	8.40	28-Nov-2028	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08253	28-Nov-2014	8.40	28-Nov-2029	440.00	CARE AAA; Stable

Name of the Instrument	ISIN	Date of Issuance	Coupon Rate (%)	Maturity Date	Size of the Issue (₹ crore)	Rating Assigned along with Rating Outlook
Debentures-Non-convertible debentures	INE206D08261	25-Mar-2015	8.14	25-Mar-2026	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08279	25-Mar-2015	8.14	25-Mar-2027	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08287	25-Mar-2015	8.14	25-Mar-2028	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08295	25-Mar-2015	8.14	25-Mar-2029	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08303	25-Mar-2015	8.14	25-Mar-2030	440.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08311	04-Aug-2016	8.23	04-Aug-2026	700.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08329	04-Aug-2016	8.23	04-Aug-2027	700.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08337	04-Aug-2016	8.23	04-Aug-2028	700.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08345	04-Aug-2016	8.23	04-Aug-2029	700.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08352	04-Aug-2016	8.23	04-Aug-2030	700.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08360	28-Mar-2016	8.13	28-Mar-2027	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08378	28-Mar-2016	8.13	28-Mar-2028	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08386	28-Mar-2016	8.13	28-Mar-2029	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08394	28-Mar-2016	8.13	28-Mar-2030	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08402	28-Mar-2016	8.13	28-Mar-2031	400.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08410	15-Dec-2016	7.25	15-Dec-2027	500.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08428	15-Dec-2016	7.25	15-Dec-2028	500.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08436	15-Dec-2016	7.25	15-Dec-2029	500.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08444	15-Dec-2016	7.25	15-Dec-2030	500.00	CARE AAA; Stable
Debentures-Non-convertible debentures	INE206D08451	15-Dec-2016	7.25	15-Dec-2031	500.00	CARE AAA; Stable

Name of the Instrument	ISIN	Date of Issuance	Coupon Rate (%)	Maturity Date	Size of the Issue (₹ crore)	Rating Assigned along with Rating Outlook
Debentures-Non-convertible debentures	NA	NA	NA	NA	4600.00	CARE AAA; Stable
Fund-based - LT-Term loan		-	-	27-Feb-2033	12465.47	CARE AAA; Stable
Non-fund-based - LT/ST-BG/LC		-	-	-	1000.00	CARE AAA; Stable / CARE A1+

NA- Not Applicable since it is not placed

### Annexure-2: Rating history for last three years

Sr. No.	Name of the Instrument/Bank Facilities	Current Ratings			Rating History			
		Type	Amount Outstanding (₹ crore)	Rating	Date(s) and Rating(s) assigned in 2024-2025	Date(s) and Rating(s) assigned in 2023-2024	Date(s) and Rating(s) assigned in 2022-2023	Date(s) and Rating(s) assigned in 2021-2022
1	Fund-based - LT-Term Loan	LT	12465.47	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	1)CARE AAA; Stable (21-Nov-22)	1)CARE AAA; Stable (25-Nov-21)
2	Debentures-Non Convertible Debentures	LT	-	-	-	1)Withdrawn (20-Nov-23)	1)CARE AAA; Stable (21-Nov-22)	1)CARE AAA; Stable (25-Nov-21)
3	Debentures-Non Convertible Debentures	LT	2000.00	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	1)CARE AAA; Stable (21-Nov-22)	1)CARE AAA; Stable (25-Nov-21)
4	Debentures-Non Convertible Debentures	LT	2200.00	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	1)CARE AAA; Stable (21-Nov-22)	1)CARE AAA; Stable (25-Nov-21)
5	Debentures-Non Convertible Debentures	LT	2200.00	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	1)CARE AAA; Stable (21-Nov-22)	1)CARE AAA; Stable (25-Nov-21)
6	Debentures-Non Convertible Debentures	LT	3500.00	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	1)CARE AAA; Stable (21-Nov-22)	1)CARE AAA; Stable (25-Nov-21)
7	Debentures-Non Convertible Debentures	LT	2000.00	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	1)CARE AAA; Stable	1)CARE AAA; Stable

Sr. No.	Name of the Instrument/Bank Facilities	Current Ratings			Rating History			
		Type	Amount Outstanding (₹ crore)	Rating	Date(s) and Rating(s) assigned in 2024-2025	Date(s) and Rating(s) assigned in 2023-2024	Date(s) and Rating(s) assigned in 2022-2023	Date(s) and Rating(s) assigned in 2021-2022
							(21-Nov-22)	(25-Nov-21)
8	Debentures-Non Convertible Debentures	LT	2500.00	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	1)CARE AAA; Stable (21-Nov-22)	1)CARE AAA; Stable (25-Nov-21)
9	Debentures-Non Convertible Debentures	LT	4600.00	CARE AAA; Stable	-	1)CARE AAA; Stable (20-Nov-23)	-	-
10	Non-fund-based - LT/ST-BG/LC	LT/ST	1000.00	CARE AAA; Stable / CARE A1+				

LT: Long term; LT/ST: Long term/Short term

### Annexure-3: Detailed explanation of covenants of rated instruments/facilities

NA

### Annexure-4: Complexity level of instruments rated

Sr. No.	Name of the Instrument	Complexity Level
1	Debentures-Non-convertible debentures	Simple
2	Fund-based - LT-Term loan	Simple
3	Non-fund-based - LT/ ST-BG/LC	Simple

### Annexure-5: Lender details

To view lender-wise details of bank facilities please [click here](#).

**Note on complexity levels of rated instruments:** CARE Ratings has classified instruments rated by it based on complexity. Investors/market intermediaries/regulators or others are welcome to write to care@careedge.in for clarifications.

### Contact us

Media Contact	Analytical Contacts
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### About us:

Established in 1993, CARE Ratings is one of the leading credit rating agencies in India. Registered under the Securities and Exchange Board of India, it has been acknowledged as an External Credit Assessment Institution by the RBI. With an equitable position in the Indian capital market, CARE Ratings provides a wide array of credit rating services that help corporates raise capital and enable investors to make informed decisions. With an established track record of rating companies over almost three decades, CARE Ratings follows a robust and transparent rating process that leverages its domain and analytical expertise, backed by the methodologies congruent with the international best practices. CARE Ratings has played a pivotal role in developing bank debt and capital market instruments, including commercial papers, corporate bonds and debentures, and structured credit.

### Disclaimer:

The ratings issued by CARE Ratings are opinions on the likelihood of timely payment of the obligations under the rated instrument and are not recommendations to sanction, renew, disburse, or recall the concerned bank facilities or to buy, sell, or hold any security. These ratings do not convey suitability or price for the investor. The agency does not constitute an audit on the rated entity. CARE Ratings has based its ratings/outlook based on information obtained from reliable and credible sources. CARE Ratings does not, however, guarantee the accuracy, adequacy, or completeness of any information and is not responsible for any errors or omissions and the results obtained from the use of such information. Most entities whose bank facilities/instruments are rated by CARE Ratings have paid a credit rating fee, based on the amount and type of bank facilities/instruments. CARE Ratings or its subsidiaries/associates may also be involved with other commercial transactions with the entity. In case of partnership/proprietary concerns, the rating/outlook assigned by CARE Ratings is, inter-alia, based on the capital deployed by the partners/proprietors and the current financial strength of the firm. The ratings/outlook may change in case of withdrawal of capital, or the unsecured loans brought in by the partners/proprietors in addition to the financial performance and other relevant factors. CARE Ratings is not responsible for any errors and states that it has no financial liability whatsoever to the users of the ratings of CARE Ratings. The ratings of CARE Ratings do not factor in any rating-related trigger clauses as per the terms of the facilities/instruments, which may involve acceleration of payments in case of rating downgrades. However, if any such clauses are introduced and triggered, the ratings may see volatility and sharp downgrades.

**For the detailed Rationale Report and subscription information,  
please visit [www.careedge.in](http://www.careedge.in)**

**Rating Rationale**

May 22, 2024 | Mumbai

**Nuclear Power Corporation of India Limited**

Rating Reaffirmed

**Rating Action**

Total Bank Loan Facilities Rated	Rs.4869 Crore (Reduced from Rs.6069 Crore)
Long Term Rating	CRISIL AAA/Stable (Reaffirmed)

Rs.3500 Crore Non Convertible Debentures	CRISIL AAA/Stable (Reaffirmed)
Rs.2500 Crore Non Convertible Debentures	CRISIL AAA/Stable (Reaffirmed)
Rs.3500 Crore Non Convertible Debentures	CRISIL AAA/Stable (Reaffirmed)
Rs.2000 Crore Non Convertible Debentures	CRISIL AAA/Stable (Reaffirmed)
Rs.2200 Crore Non Convertible Debentures	CRISIL AAA/Stable (Reaffirmed)
Rs.2200 Crore Non Convertible Debentures	CRISIL AAA/Stable (Reaffirmed)

Note: None of the Directors on CRISIL Ratings Limited's Board are members of rating committee and thus do not participate in discussion or assignment of any ratings. The Board of Directors also does not discuss any ratings at its meetings.

1 crore = 10 million

Refer to Annexure for Details of Instruments & Bank Facilities

**Detailed Rationale**

CRISIL Ratings has reaffirmed its 'CRISIL AAA/Stable' rating on the long-term bank facilities and non convertible debentures of Nuclear Power Corporation of India Ltd (NPCIL). CRISIL Ratings has also **withdrawn** its rating on bank facilities worth Rs 1,200 crore (see 'Annexure - Details of Rating Withdrawn' for details) based on the company's request and independent confirmation of its repayment. The withdrawal is in line with CRISIL Ratings withdrawal policy.

The rating continues to reflect the strategic importance of the company to the government, given its position as a nodal agency for nuclear power in the country; robust financial risk profile because of strong debt protection metrics, superior liquidity, and stable cash flow on account of high operating efficiency; and a favourable tariff structure. These strengths are partially offset by exposure to risks related to execution and implementation of new projects and the weak credit risk profiles of the counterparties.

**Analytical Approach**

CRISIL Ratings continues to apply its criteria for notching up ratings for government support. NPCIL is wholly owned by the Government of India and receives funding support from it. The company's strategy is driven by the central government under the administrative control of the Department of Atomic Energy (DAE). NPCIL will remain strategically important to the government as India's nodal agency for nuclear power, and the government is expected to provide support in case of any requirement. The company is also subject to audit by the Comptroller and Auditor General.

**Key Rating Drivers & Detailed Description**

**Strengths:**

**Support from the government on account of strategic importance:** NPCIL is wholly owned by the central government, from which it receives funding support. The company operates India's 23 nuclear power plants with total capacity of 8,080 megawatt (MW). Its capacity addition plan is entirely driven by the nuclear policy of the government. DAE continues to source and supply the fuel and coolant requirement. Equity infusions of Rs 1,990 crore in fiscal 2024 and Rs 1,952 crore in fiscal 2023 from the government provide comfort.

**Strong operating efficiency:** A single-part tariff structure ensures recovery of all fixed costs at a normative plant load factor (PLF) of 68.5%. Supply of adequate fuel and regular maintenance activities have resulted in most of the plants operating at higher-than-normative PLF, leading to stable cash flow. Average PLF of the operational plants remained strong at 80% in fiscal 2024 (77% in fiscal 2023), driven by increase in power demand. Operating efficiency is expected to remain healthy over the medium term, with expected growth in power demand and healthy tariff structure.

**Robust financial risk profile:** Adjusted gearing was comfortable at 1.32 times as on March 31, 2023 (1.23 times as on March 31, 2022), and is estimated to moderate slightly, between 1.35 and 1.50 times, over the medium term due to ongoing capital expenditure (capex). Adjusted interest coverage ratio was comfortable at 12.84 times for fiscal 2023 (15.24 times during fiscal 2022). A stable capital structure over the past decade due to strong operating efficiency has led to higher cash accrual and limited dependence on debt for funding ongoing projects (with equity infusion from the government), despite large dividend outflow. The third and fourth units of Kakrapar Atomic Power Project (2X700 MW) in Gujarat were commissioned on June 30, 2023, and March 31, 2024, respectively, and have started generation. Commissioning of the

remaining under-construction projects is expected to support cash accrual for debt servicing. Capital structure is also likely to remain strong over the medium term.

**Weaknesses:**

**Exposure to implementation risk in under-construction projects:** The company is exposed to execution and implementation risks in projects of 6,800 MW under implementation as historically, the construction of nuclear power projects has seen significant delays. It is expected to incur an annual capex of ~Rs 18,000 crore over the medium term. Two units of the Kudankulam Project (1,000X2 MW; Tamil Nadu) and the Rajasthan Project (700X2 MW) are scheduled to be commissioned in fiscals 2025 and 2026, respectively. Two units of the Haryana Project (700X2 MW) and the remaining units of the Kudankulam Project (1000X2 MW) are expected to be commissioned over the period till fiscal 2027. Moreover, the company has undertaken new projects of 7,000 MW, to be implemented in fleet mode, which are in initial stages. The related risk is mitigated by the significant experience of the company in developing nuclear power plants, comfort drawn from the recent successful commissioning of the two units of the Kakrapar project, and expected equity infusion from the government for the upcoming capex.

**Exposure to the weak credit risk profiles of counterparties**

The company has power purchase agreements with various state electricity distribution companies (discoms). However, some of these have weak financial health, which exposes NPCIL to the risk of delays in payments. Receivables (excluding unbilled revenue) have remained high at 100-125 days over the past three fiscals through 2022. However, it is expected to improve over the medium term with the receipt of a portion of the receivables in instalments under the new late payment surcharge rules. The counterparty risk is mitigated by presence of the payment security mechanisms (sales backed by letters of credit) and unutilised working capital limit of Rs 2,000 crore. However, timely collection of receivables remains a key rating sensitivity factor.

**Liquidity: Superior**

Liquidity is supported by cash balance of over Rs 4,500 crore and unutilised bank limit Rs 2,000 crore, as on March 31, 2024. Annual internal accrual of over Rs 6,000 crore, existing cash and equivalents, and equity infusion by the government for some of the projects are expected to be sufficient to meet debt obligation and equity portion of capex over the medium term. NPCIL has also demonstrated the strong ability to raise funds.

**Outlook: Stable**

The company will remain strategically important to the central government, maintain a robust financial risk profile, and continue to benefit from its strong technical expertise and supportive regulatory environment.

**Rating Sensitivity factors**

**Downward Factors**

- Any change in the support philosophy of the government
- Material deterioration in receivables from the discoms impacting cash flows
- Significant cost and time overruns in under-construction projects or higher-than-expected debt-funded capex significantly impacting financial risk profile
- Significant reduction in government shareholding from current levels (100%)

**About the Company**

NPCIL is a public sector enterprise under the administrative control of the DAE. It generates power from nuclear energy and operates India's 23 nuclear power plants with installed capacity of 8,080 MW. The company has six reactors under various stages of implementation, which will increase capacity by 6,800 MW. Additionally, the company has 10 fleet-mode reactors of 700 MW each in initial stages of implementation.

During the nine months through December 2023, profit after tax (PAT) was Rs 6,025 crore (Rs 3,383 crore last fiscal) on a total income of Rs 14,688 crore (Rs 3,383 crore).

**Key financial indicators\***

	Unit	2023	2022
Operating income	Rs crore	16,791	16,453
PAT	Rs crore	5,293	6,497
PAT margin	%	31.5	39.5
Adjusted gearing	Times	1.32	1.23
Adjusted interest coverage	Times	12.84	15.24

\*As per analytical adjustment by CRISIL Ratings

**Any other information:** Not Applicable

**Note on complexity levels of the rated instrument:**

CRISIL Ratings' complexity levels are assigned to various types of financial instruments and are included (where applicable) in the 'Annexure - Details of Instrument' in this Rating Rationale.

CRISIL Ratings will disclose complexity level for all securities - including those that are yet to be placed - based on available information. The complexity level for instruments may be updated, where required, in the rating rationale published subsequent to the issuance of the instrument when details on such features are available.

For more details on the CRISIL Ratings' complexity levels please visit [www.crisilratings.com](http://www.crisilratings.com). Users may also call the Customer Service Helpdesk with queries on specific instruments.

## Annexure - Details of Instrument(s)

ISIN	Name of instrument	Date of allotment	Coupon rate	Maturity date	Issue size (Rs.Crore)	Complexity levels	Rating assigned with outlook
INE206D08162	Non-convertible debentures	23-Jan-2014	9.18%	23-Jan-2029	400.00	Simple	CRISIL AAA/Stable
INE206D08170	Non-convertible debentures	23-Jan-2014	9.18%	23-Jan-2025	400.00	Simple	CRISIL AAA/Stable
INE206D08188	Non-convertible debentures	23-Jan-2014	9.18%	23-Jan-2026	400.00	Simple	CRISIL AAA/Stable
INE206D08196	Non-convertible debentures	23-Jan-2014	9.18%	23-Jan-2027	400.00	Simple	CRISIL AAA/Stable
INE206D08204	Non-convertible debentures	23-Jan-2014	9.18%	23-Jan-2028	400.00	Simple	CRISIL AAA/Stable
INE206D08212	Non-convertible debentures	28-Nov-2014	8.40%	28-Nov-2025	440.00	Simple	CRISIL AAA/Stable
INE206D08220	Non-convertible debentures	28-Nov-2014	8.40%	28-Nov-2026	440.00	Simple	CRISIL AAA/Stable
INE206D08238	Non-convertible debentures	28-Nov-2014	8.40%	28-Nov-2027	440.00	Simple	CRISIL AAA/Stable
INE206D08246	Non-convertible debentures	28-Nov-2014	8.40%	28-Nov-2028	440.00	Simple	CRISIL AAA/Stable
INE206D08253	Non-convertible debentures	28-Nov-2014	8.40%	28-Nov-2029	440.00	Simple	CRISIL AAA/Stable
INE206D08261	Non-convertible debentures	25-Mar-2015	8.14%	25-Mar-2026	440.00	Simple	CRISIL AAA/Stable
INE206D08279	Non-convertible debentures	25-Mar-2015	8.14%	25-Mar-2027	440.00	Simple	CRISIL AAA/Stable
INE206D08287	Non-convertible debentures	25-Mar-2015	8.14%	25-Mar-2028	440.00	Simple	CRISIL AAA/Stable
INE206D08295	Non-convertible debentures	25-Mar-2015	8.14%	25-Mar-2029	440.00	Simple	CRISIL AAA/Stable
INE206D08303	Non-convertible debentures	25-Mar-2015	8.14%	25-Mar-2030	440.00	Simple	CRISIL AAA/Stable
INE206D08311	Non-convertible debentures	4-Aug-2015	8.23%	4-Aug-2026	700.00	Simple	CRISIL AAA/Stable
INE206D08329	Non-convertible debentures	4-Aug-2015	8.23%	4-Aug-2027	700.00	Simple	CRISIL AAA/Stable
INE206D08337	Non-convertible debentures	4-Aug-2015	8.23%	4-Aug-2028	700.00	Simple	CRISIL AAA/Stable
INE206D08345	Non-convertible debentures	4-Aug-2015	8.23%	4-Aug-2029	700.00	Simple	CRISIL AAA/Stable
INE206D08352	Non-convertible debentures	4-Aug-2015	8.23%	4-Aug-2030	700.00	Simple	CRISIL AAA/Stable
INE206D08360	Non-convertible debentures	28-Mar-2016	8.13%	28-Mar-2027	400.00	Simple	CRISIL AAA/Stable
INE206D08378	Non-convertible debentures	28-Mar-2016	8.13%	28-Mar-2028	400.00	Simple	CRISIL AAA/Stable
INE206D08386	Non-convertible debentures	28-Mar-2016	8.13%	28-Mar-2029	400.00	Simple	CRISIL AAA/Stable
INE206D08394	Non-convertible debentures	28-Mar-2016	8.13%	28-Mar-2030	400.00	Simple	CRISIL AAA/Stable
INE206D08402	Non-convertible debentures	28-Mar-2016	8.13%	28-Mar-2031	400.00	Simple	CRISIL AAA/Stable
INE206D08410	Non-convertible debentures	15-Dec-2016	7.25%	15-Dec-2027	500.00	Simple	CRISIL AAA/Stable
INE206D08428	Non-convertible debentures	15-Dec-2016	7.25%	15-Dec-2028	500.00	Simple	CRISIL AAA/Stable
INE206D08436	Non-convertible debentures	15-Dec-2016	7.25%	15-Dec-2029	500.00	Simple	CRISIL AAA/Stable
INE206D08444	Non-convertible debentures	15-Dec-2016	7.25%	15-Dec-2030	500.00	Simple	CRISIL AAA/Stable
INE206D08451	Non-convertible debentures	15-Dec-2016	7.25%	15-Dec-2031	500.00	Simple	CRISIL AAA/Stable
NA	Non-convertible debentures <sup>#</sup>	NA	NA	NA	1,500.00	Simple	CRISIL AAA/Stable
NA	Long-term loan	NA	NA	4-Jun-2030	1,200.00	NA	CRISIL AAA/Stable
NA	Long-term loan	NA	NA	30-Sep-2024	200.00	NA	CRISIL AAA/Stable

NA	Long-term loan	NA	NA	30-Jan-2030	1,000.00	NA	CRISIL AAA/Stable
NA	Long-term loan	Apr-2024	NA	04-Apr-2044	2,000.00	NA	CRISIL AAA/Stable
NA	Long-term loan	Jun-2019	NA	28-Jun-2029	149.00	NA	CRISIL AAA/Stable
NA	Letter of credit and bank guarantee	NA	NA	NA	320.00	NA	CRISIL AAA/Stable

#Yet to be placed

#### Annexure - Details of Rating Withdrawn

ISIN	Name of instrument	Date of allotment	Coupon rate	Maturity date	Issue size (Rs.Crore)	Complexity levels	Rating assigned with outlook
NA	Long-term loan	NA	NA	30-Sep-2024	200.00	NA	Withdrawn
NA	Cash credit	NA	NA	NA	1,000.00	NA	Withdrawn

#### Annexure - Rating History for last 3 Years

Instrument	Type	Current		2024 (History)		2023		2022		2021		Start of 2021
		Outstanding Amount	Rating	Date	Rating	Date	Rating	Date	Rating	Date	Rating	Rating
Fund Based Facilities	LT	5749.0	CRISIL AAA/Stable		--	23-05-23	CRISIL AAA/Stable	30-05-22	CRISIL AAA/Stable	29-06-21	CRISIL AAA/Stable	CRISIL AAA/Stable
Non-Fund Based Facilities	LT	320.0	CRISIL AAA/Stable		--	23-05-23	CRISIL AAA/Stable	30-05-22	CRISIL AAA/Stable	29-06-21	CRISIL AAA/Stable	CRISIL AAA/Stable
Bond	LT		--		--		--		--		--	Withdrawn
Non Convertible Debentures	LT	15900.0	CRISIL AAA/Stable		--	23-05-23	CRISIL AAA/Stable	30-05-22	CRISIL AAA/Stable	29-06-21	CRISIL AAA/Stable	CRISIL AAA/Stable

All amounts are in Rs.Cr.

#### Annexure - Details of Bank Lenders & Facilities

Facility	Amount (Rs.Crore)	Name of Lender	Rating
Cash Credit	1000	State Bank of India	Withdrawn
Letter of credit & Bank Guarantee	320	State Bank of India	CRISIL AAA/Stable
Long Term Loan	200	Axis Bank Limited	CRISIL AAA/Stable
Long Term Loan	2000	National Bank for Financing Infrastructure and Development	CRISIL AAA/Stable
Long Term Loan	1000	HDFC Bank Limited	CRISIL AAA/Stable
Long Term Loan	1200	HDFC Bank Limited	CRISIL AAA/Stable
Long Term Loan	149	HDFC Bank Limited	CRISIL AAA/Stable
Long Term Loan	200	Axis Bank Limited	Withdrawn

#### Criteria Details

<a href="#">Links to related criteria</a>
<a href="#">CRISILs Bank Loan Ratings - process, scale and default recognition</a>
<a href="#">Rating Criteria for Power Generation Utilities</a>
<a href="#">The Infrastructure Sector Its Unique Rating Drivers</a>
<a href="#">Criteria for Notching up Stand Alone Ratings of Entities Based on Government Support</a>

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March 13, 2025

## Nuclear Power Corporation of India Limited: Rating reaffirmed

### Summary of rating action

Instrument*	Previous Rated Amount (Rs. crore)	Current Rated Amount (Rs. crore)	Rating Action
<b>Non-convertible debenture (NCD) programme</b>	27,010.10	27,010.10	[ICRA]AAA (Stable); reaffirmed
<b>Total</b>	<b>27,010.10</b>	<b>27,010.10</b>	

\*Instrument details are provided in Annexure-1

### Rationale

The rating continues to factor in the 100% ownership of Nuclear Power Corporation of India Limited (NPCIL/the company) by the Government of India (GoI) and its strategic importance to the GoI in the nuclear energy sector. The rating also considers the limited demand and tariff risks because of the long-term power purchase agreements (PPAs) with state distribution utilities for its entire operational capacity as per the tariff norms notified by the Department of Atomic Energy (DAE), the GoI. Moreover, the tariffs offered by the operational capacity are cost-competitive in relation to the average pooled procurement cost (APPC) of the offtaking distribution utilities. The company has tied-up PPAs for the recently commissioned Unit 3 and 4 of Kakrapur Atomic Power Station (KAPS) at a competitive tariff.

Further, ICRA takes note of the established track record of the operating capacity, with majority of the plants operating at higher-than-normative plant load factor (PLF), leading to stable cash flows. The PLF was, however, lower-than-normative in few plants in the current year because of maintenance and rectification works. At present, two units of the Tarapur Atomic Power Station (TAPS – 1 and 2) are under prolonged shutdown and are expected to restart operations in the next one year. Also, unit 1 of the Madras Atomic Power Station (MAPS) is under a prolonged shutdown since April 2018. While the combined capacity of these shutdown units is only 540 MW (7% of NPCIL's total capacity), their timely commencement remains important for an improvement in the company's overall generation. Unit 3 of Rajasthan Atomic Power Station (RAPS) which was under shutdown from October 2022 for En-masse Coolant Channel Replacement (EMCCR) work, has started generating power from July 2024. The company commissioned unit 4 (700 MW) of KAPS in March 2024, while RAPS units 7 and 8 (700 MW each) are expected to be commissioned in March 2025 and September 2025 respectively. With a combined capacity of 1,400 MW of the RAPS units 7 and 8, the generation is expected to improve, going forward.

The rating also draws comfort from the strong financial profile of NPCIL, supported by adequate profitability and comfortable debt coverage metrics. The funding of the ongoing projects is expected to be met through a mix of internal accruals, fresh equity and debt funding at highly competitive rates.

These strengths are, however, partially offset by NPCIL's high counterparty credit risk due to the weak financial health of many of the offtaking state distribution utilities (discoms). However, this risk is mitigated to some extent by the diverse offtaker profile. Moreover, following the notification of the Electricity (Late Payment Surcharge and Related Matters) Rules, 2022, (LPS) notified by the Ministry of Power (MoP), Government of India, in June 2022, the discoms are clearing the bills in a regular manner. Also, the outstanding dues as of June 2022 along with the late payment surcharge aggregating to Rs. 5,925 crore is being realised in instalments of 12-48 months from the discoms, which has reduced the overall receivable cycle in the last 24 months. This is evident from the reduction in receivable position to Rs. 4,864 crore as on September 30, 2024 compared to Rs. 6,028 crore as on March 31, 2024.

Further, the rating factors in the execution risks associated with the large under-construction capacity, which entails an annual capital expenditure of about Rs. 18,000-20,000 crore, especially given the risk of delays in execution and cost-overruns. Apart from RAPS 7 & 8, the company expects to commission units 3 and 4 (1000 MW each) of the Kudankulam Nuclear Power Plant

(KKNPP) over the next two years, unit 5 and 6 (1000 MW each) of the Kudankulam Nuclear Power Plant (KKNPP) over the next 3-4 years and two units (700 MW each) of Gorakhpur Haryana Anu Vidyut Pariyojana (GHAVP) by 2030-31. Further, there are 12 other nuclear units under various stages of development including four units under joint venture (JV) with NTPC Limited. This is expected to keep the leverage level high for the company in the near to medium term.

Also, the relatively high capital cost (Rs. 15 crore per MW for the 700-MW unit and Rs. 35 crore per MW for the 1000 MW unit) of these projects, is expected to necessitate high normative tariff rates. Nonetheless, the company's blended tariff is expected to remain competitive in relation to the discoms' APPC in the near to medium term. In this context, the company's ability to secure PPAs for the under-construction projects as per the normative cost, reflective of the tariff norms, remains a key rating monitorable. The ability to secure the PPAs at remunerative rates would remain a key rating sensitivity for the company.

ICRA also takes note of the liability of Rs. 1,500 crore in case of any nuclear accident under the Civil Liability for Nuclear Damage Act, 2010, which is covered by an insurance policy of an equivalent amount. Any liability beyond Rs.1,500 crore would be borne by the GoI.

The Stable outlook assigned to NPCIL reflects the healthy cash flow visibility, supported by an established track record of operations and the long-term PPAs for the operational capacity.

## Key rating drivers and their description

### Credit strengths

**Strategic importance to Government of India, with demonstrated equity support** - NPCIL has strategic importance to the GoI amid the push to reduce the dependence on fossil fuel-based generation. At present, NPCIL operates 24 nuclear power plants, which have a cumulative capacity of 8,180 MW. The entity is fully owned by the GoI, which provides continuous support in the form of regular equity infusion as well as supply of fuel and coolants.

**Limited demand risks and competitive tariff rates of existing projects** – NPCIL's demand risk is mitigated by the long-term PPAs with the state distribution utilities for its operating capacity, as per the allocation approved by the Ministry of Power. The tariffs under the PPAs are single-part and cost-plus based that cover fixed and variable costs and are linked to the normative PLF of 68.5%-72% as notified by the DAE. The last control period for the tariff norms expired in March 2022. The tariff notification from the DAE for the ongoing control period is yet to be issued. The tariff rates of the operating projects are competitive compared to the average pooled procurement cost (APPC) of the offtaking distribution utilities.

**Established track record of operations** - The nuclear power stations of NPCIL have an established track record of operations with majority of the plants operating at higher-than-normative PLF, leading to healthy cash flows. The company reported average plant load factor (PLF) of 87% and an average plant availability factor of 89% in 10M FY2025. The average PLF has remained above 75.0% over the past five years.

**Strong financial profile** – NPCIL's financial profile remains strong, supported by adequate profitability and comfortable debt coverage metrics. While the leverage level remains high owing to the large debt-funded capex underway, reflected in a total debt to OPBDITA of 8.9 times in FY2024, the debt coverage metrics remain comfortable with debt service coverage ratio (DSCR) of 3.1 times in FY2024. The DSCR is expected to remain above 2.0x times over FY2025-FY2027. The funding of the ongoing projects is expected to be met through a mix of internal accruals, fresh equity and debt funding at a highly competitive rate. Further, the company's superior financial flexibility provides comfort from a credit perspective.

### Credit challenges

**High counterparty credit risks** – NPCIL's counterparty credit risk remains high because of the weak financial health of majority of the state distribution utilities with whom the PPAs have been signed. However, this risk is mitigated to some extent by the

diverse offtaker profile. Moreover, following the notification of the LPS scheme by the MoP, the collection efficiency for NPCIL has improved and past dues as of June 2022 are being cleared by the discoms through instalments of 12-48 months. This has moderated the receivables over the last 12 months and is expected to aid in keeping the receivable position at a manageable level for the company over the medium term.

**Risks associated with large under-construction portfolio** - The execution risks remain high for NPCIL with a large under-construction portfolio aggregating to 4800 MW across RAPS 7 & 8 (1400 MW), KKNPP 3 & 4 (2000 MW) and GHAVP 1 & 2 (1,400 MW). This apart, there are 12 more units under various stages of development aggregating to 9000 MW, including four units under JV with NTPC. This will entail annual capital expenditure of about Rs. 18,000-20,000 crore over the next three years, with possible risk of delays and cost overrun. The capital cost of the under-construction projects remains relatively high, leading to high normative tariff, which may adversely impact the tariff competitiveness of these projects. Nonetheless, the company's blended tariff is expected to remain competitive in the near term in relation to the APPC of the discoms. The timely signing of the PPAs for the upcoming projects remains a key monitorable for the company.

### Liquidity position: Strong

The liquidity profile of NPCIL is strong, supported by positive cash flow from operations and free cash and bank balances of ~Rs. 7,680 crore as on December 31, 2024. The cash flows are expected to remain sufficient to meet the debt obligations and contribution for the under-construction projects. Apart from the internal accruals, the capex is funded through equity infusion from the GoI and debt funding. The liquidity is further supported by improved payment discipline from the discoms since June 2022.

### Rating sensitivities

**Positive factors** – Not applicable

**Negative factors** – NPCIL's rating could face pressure if the operational nuclear power units show sustained under-performance with the PLF remaining below the normative level, adversely impacting the profitability and cash accruals. Any significant delays in payments from the offtakers adversely impacting its liquidity profile could be another negative factor. Also, the inability of the company to secure PPAs for the new projects at adequate tariffs would weigh on the rating. Further, any weakening of linkages with the Government of India would affect the rating.

### Analytical approach

Analytical Approach	Comments
<b>Applicable rating methodologies</b>	<u>Corporate Credit Rating Methodology</u>
<b>Parent/Group support</b>	The rating derives strength from NPCIL's ownership by the Government of India and its strategic importance for nuclear power generation in the country.
<b>Consolidation/Standalone</b>	The rating is based on the consolidated financial profile of the company.

### About the company

NPCIL is a public-sector enterprise under the administrative control of the Department of Atomic Energy (DAE), the Government of India. NPCIL is responsible for the design, construction, commissioning and operations of nuclear power plants in the country. At present, NPCIL is operating 24 nuclear power reactor units, with an installed capacity of 8,180 MW. NPCIL owns all the commercial nuclear reactors (23), except Rajasthan Atomic Power Station's unit 1 (RAPS-1; 100 MW), which is owned by the DAE, the Government of India. The company has an under-construction capacity of 4,800 MW. In addition, the

Government has given administrative approval and financial sanction to 12 more reactor units, which are in various stages of development.

### Key financial indicators

NPCIL	FY2023 (Audited)	FY2024 (Audited)	9M FY2025 (Unaudited)
<b>Operating income (Rs. crore)</b>	14,618.5	18,484.2	15,052.8
<b>PAT (Rs. crore)</b>	5,146.0	6,522.7	4,754.4
<b>OPBDITA/OI (%)</b>	47.8%	55.5%	52.5%
<b>PAT/OI (%)</b>	35.2%	35.3%	31.6%
<b>Total outside liabilities/Tangible net worth (times)</b>	1.6	1.7	NA
<b>Total debt/OPBDITA (times)</b>	11.0	8.9	NA
<b>Interest coverage (times)</b>	10.2	9.4	6.1

PAT: Profit after tax; OPBDIT: Operating profit before depreciation, interest, taxes and amortisation; NA: Data not available

Source: Company data, ICRA Research; All ratios as per ICRA calculations

Ratios/figures other than those contained in the published financials of the company, are as per ICRA calculation.

**Status of non-cooperation with previous CRA: Not applicable**

**Any other information: None**

### Rating history for past three years

Instrument	Type	Amount rated (Rs. crore)	Current rating (FY2025)		Chronology of rating history for the past 3 years			
			Date & rating in FY2025	Date & rating in FY2024	Date & rating in FY2023		Date & rating in FY2022	
					March 13, 2025	March 14, 2024		March 15, 2023
1 Non-convertible debentures	Long term	20700.0	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)
2 Non-convertible debentures	Long term	1785.1	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)
3 Non-convertible debentures	Long term	3675.0	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)
4 Non-convertible debentures	Long term	850.0	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	-
5 Proposed convertible debentures	non-Long term	-	-	-	[ICRA]AAA (Stable)	-	-	-
6 Non-convertible debentures	Long term	-	-	[ICRA]AAA (Stable); withdrawn	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)	[ICRA]AAA (Stable)

### Complexity level of the rated instruments

Instrument	Complexity Indicator
Non-convertible debentures	Simple

The Complexity Indicator refers to the ease with which the returns associated with the rated instrument could be estimated.

It does not indicate the risk related to the timely payments on the instrument, which is rather indicated by the instrument's credit rating. It also does not indicate the complexity associated with analysing an entity's financial, business, industry risks or complexity related to the structural, transactional or legal aspects. Details on the complexity levels of the instruments are available on ICRA's website: [Click Here](#)

**Annexure I: Instrument details**

ISIN No	Instrument Name	Date of Issuance / Sanction	Coupo n Rate	Maturity Date	Amount Rated (Rs Crore)	Current Rating and Outlook
INE206D08501	<b>Non-Convertible Debentures – Series XXXVIII</b>	March 21, 2023	7.70%	March 20, 2038	2500.00	[ICRA]AAA (Stable)
INE206D08493	<b>Non-Convertible Debentures – Series XXXVII</b>	December 23, 2022	7.55%	December 23, 2032	1500.00 850.00	[ICRA]AAA (Stable)
INE206D08485	<b>Non-Convertible Debentures – Series XXXVI</b>	March 22, 2022	6.89%	March 24, 2037	3675.00	[ICRA]AAA (Stable)
INE206D08477	<b>Non-Convertible Debentures – Series XXXV</b>	March 21, 2021	6.80%	March 21, 2031	1785.10	[ICRA]AAA (Stable)
INE206D08469	<b>Non-Convertible Debentures – Series XXXIV</b>	January 23, 2020	7.34%	January 23, 2030	2300.00	[ICRA]AAA (Stable)
INE206D08410	<b>Non-Convertible Debentures – Series XXXIII</b>	December 15, 2016	7.25%	December 15, 2031	500.00	[ICRA]AAA (Stable)
INE206D08428					500.00	[ICRA]AAA (Stable)
INE206D08436					500.00	[ICRA]AAA (Stable)
INE206D08444					500.00	[ICRA]AAA (Stable)
INE206D08451					500.00	[ICRA]AAA (Stable)
INE206D08360	<b>Non-Convertible Debentures – Series XXXII</b>	March 28, 2016	8.13%	March 28, 2031	400.00	[ICRA]AAA (Stable)
INE206D08378					400.00	[ICRA]AAA (Stable)
INE206D08386					400.00	[ICRA]AAA (Stable)
INE206D08394					400.00	[ICRA]AAA (Stable)
INE206D08402					400.00	[ICRA]AAA (Stable)
INE206D08311	<b>Non-Convertible Debentures – Series XXXI</b>	August 04, 2015	8.23%	August 04, 2030	700.00	[ICRA]AAA (Stable)
INE206D08329					700.00	[ICRA]AAA (Stable)
INE206D08337					700.00	[ICRA]AAA (Stable)
INE206D08345					700.00	[ICRA]AAA (Stable)
INE206D08352					700.00	[ICRA]AAA (Stable)
INE206D08261	<b>Non-Convertible Debentures – Series XXX</b>	March 25, 2015	8.14%	March 25, 2030	440.00	[ICRA]AAA (Stable)
INE206D08279					440.00	[ICRA]AAA (Stable)
INE206D08287					440.00	[ICRA]AAA (Stable)
INE206D08295					440.00	[ICRA]AAA (Stable)
INE206D08303					440.00	[ICRA]AAA (Stable)
INE206D08212	<b>Non-Convertible Debentures – Series XXIX</b>	November 28, 2014	8.40%	November 28, 2029	440.00	[ICRA]AAA (Stable)
INE206D08220					440.00	[ICRA]AAA (Stable)
INE206D08238					440.00	[ICRA]AAA (Stable)
INE206D08246					440.00	[ICRA]AAA (Stable)
INE206D08253					440.00	[ICRA]AAA (Stable)
INE206D08162	<b>Non-Convertible Debentures – Series XXVIII</b>	January 23, 2014	9.18%	January 23, 2029	400.00	[ICRA]AAA (Stable)
INE206D08188					400.00	[ICRA]AAA (Stable)
INE206D08170					400.00	[ICRA]AAA (Stable)
INE206D08196					400.00	[ICRA]AAA (Stable)
INE206D08204					400.00	[ICRA]AAA (Stable)

Source: Company

**Annexure II: List of entities considered for consolidated analysis**

<b>Company Name</b>	<b>Ownership</b>	<b>Consolidation Approach</b>
<b>Nuclear Power Corporation of India Limited</b>	100.00% (Holding Company)	Full Consolidation
<b>Anushakti Vidhyut Nigam Limited</b>	51.00%	Full Consolidation
<b>NPCIL Indian Oil Nuclear Energy Corporation Ltd.</b>	74.00%	Full Consolidation
<b>L&amp;T Special Steels and Heavy Forgings Private Limited</b>	26.00%	Equity Method

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## India Ratings Affirms Nuclear Power Corporation of India's NCDs and Bank Facilities at 'IND AAA'/Stable; Rates Additional Limits

Apr 10, 2024 | Power Generation

India Ratings and Research (Ind-Ra) has taken the following rating actions on Nuclear Power Corporation of India Limited's (NPCIL) debt instruments:

### Details of Instruments

Instrument Type	Date of Issuance	Coupon Rate (%)	Maturity Date	Size of Issue (billion)	Rating assigned along with Outlook/Watch	Rating Action
Non-convertible debentures*	-	-	-	INR126.1	IND AAA/Stable	Affirmed
Non-convertible debentures *	-	-	-	INR46	IND AAA/Stable	Assigned
Term loan	-	-	June 2037	INR153.68 (reduced from INR173.68)	IND AAA/Stable	Affirmed
Fund-based working capital limits	-	-	-	INR20	IND AAA/Stable	Assigned

\*Details in Annexure I

### Analytical Approach

Ind-Ra continues to consider NPCIL's standalone financials to arrive at the ratings while factoring in the strong legal and strategic linkages between NPCIL and the government of India (GoI).

### Detailed Rationale of the Rating Action

The rating affirmation reflects NPCIL's continued strong linkages with the GoI, given the former's strategic importance to the latter in nuclear energy. The company's strategic importance to the GoI is reflected in the discussions and involvement of the latter in all its key decision-making regarding capacity addition, technology imports and tie-ups, fuel allocation and imports (uranium and heavy water), power allocation, tariff setting process, among others. Moreover, Ind-Ra expects the company's operational performance to remain healthy, given the must-run status, successful declaration of commercial operations of Kakrapar Atomic Power Station units 3 and 4 and limited offtake risks for nuclear power plants.

Furthermore, NPCIL's plant load factor (PLF) is supported by adequate fuel tie-ups with domestic and international players. However, there exists counterparty risk, given that the company's receivables have remained high due to the weak financial profiles of state distribution companies (discoms). The ratings have factored in project execution risk, given the project delays and cost over runs associated with significant under-construction capacity, leading to a high annual capex run rate of INR180 billion-200 billion over the medium-to-long term. Ind-Ra expects the net leverage (net debt/adjusted EBITDA) to remain elevated over the medium-to-long term, given: 1) the large under-construction portfolio with a high capex outlay, with 70% debt funding (82% for Kundankulam Nuclear power plant (KKNPP) Units 3 and 4), 2) the time period of five-to-10 years required for setting up a nuclear power plant, and 3) the receivable risk associated with discoms.

### List of Key Rating Drivers

#### Strengths

- Strong linkages with GoI
- Healthy operational performance
- Limited offtake risk
- Nuclear liability coverage through fund and insurance

#### Weaknesses

- Technology diversification underway; but project risk remains
- Receivables remain high, although likely to moderate over FY25-FY26
- Leverage to remain elevated over FY25-FY26

### Detailed Description of Key Rating Drivers

**Strong Linkages with GoI:** NPCIL is 100% owned by the GoI and operates under the administrative control of the Department of Atomic Energy (DAE). NPCIL's strategic importance to the GoI is reflected in the discussions and involvement of the latter in all its key decision-making regarding capacity addition, technology imports and tie-ups, fuel allocation and imports (uranium and heavy water), power allocation, tariff setting process, among others. NPCIL also received a loan from the DAE for its KKNPP-Units 1-6, on account of the credit extended by the government of Russia Federation to the GoI.

Furthermore, all the directors on NPCIL's board are appointed by the GoI. The company receives funding support through budgetary allocations in the union budget for its capex plans. For its upcoming 10 reactors in fleet mode and KKNPP 5 and 6 projects, the equity infusion will be completely funded by the GoI. NPCIL received an equity funding of INR15.2 billion in 1HFY24 (FY23: INR19.5 billion; FY22: INR5.4 billion; FY21: INR5 billion).

**Healthy Operational Performance:** NPCIL operates its plants on a single-part tariff, which enables recovery of all fixed costs, including interest on term loans and working capital loans, depreciation, operations and maintenance costs, along with nuclear fuel and heavy water costs at a normative PLF of 68.5%. Based on the tariff block applicable over FY18-FY22, the DAE, in consultation with the Central Electricity Authority, has notified a tariff for all NPCIL units, excluding KKNPP – Units 1 and 2, wherein the tariff remains provisional. The latest tariff notification was issued by the DAE in June 2023, which is applicable from FY18-FY22 for Kakrapar Atomic Power Station (KAPS) - Units 1 and 2. The tariff notification for the ongoing period is pending.

Historically, most of NPCIL's units have operated over the normative PLF level, ensuring strong operating cash flows. NPCIL's average PLF during April 2023 to February 2024 remained healthy at 85% (FY23: 87%; FY22: 88%; FY21: 81%), given the must-run status of the plants and the competitive tariffs. NPCIL reported revenue of INR146.7 billion in 9MFY24 (9MFY23: INR107.5 billion; FY23: INR146.2 billion; FY22: INR150.4 billion; FY21: INR133.4 billion), led by recognition of arrear billing of INR18.7 billion from April 2017 to March 2022, post new tariff notification for KAPS Units 1 and 2, and the EBITDA adjusted for rate regulatory income of INR97.7 billion (INR47.1 billion; INR63.0 billion; INR84.8 billion; INR67.6 billion). The decline in adjusted EBITDA in FY23 was largely due to currency transaction and translation losses, resulting from foreign exchange price variations. Furthermore, the commercial operations of KAPS Units 3 (commissioned in June 2023) and 4 (commissioned in April 2024) are also likely to add INR20 billion-25 billion to NPCIL's annual EBITDA.

The overall power generation remained healthy at 36,294 million units (mu) in 9MFY24 (FY23: 45,855mu; FY22: 47,100mu; FY21: 43,047mu), supported by commercialisation of KAPS Unit 3 capacity of 700MW in June 2023. Furthermore, with the recent commissioning of KAPS Unit 4 of 700MW in April 2024, both KAPS Units 3 and 4 together will likely contribute 10,000-11,000mu annually to the overall power generation.

Ind-Ra expects the PLFs for operational projects to remain healthy during FY25, given the must-run status and an increase in power demand; however, a lower-than-normative PLF could impact the cash flows negatively. NPCIL's PLF is also supported by adequate fuel tie-ups with domestic and international players. NPCIL relies on domestic and imported uranium for its plants that have been placed under the International Atomic Energy Agency's safeguards, thus ensuring smooth operations.

**Limited Offtake Risk:** NPCIL has long-term power purchase agreements (PPAs) of 15 years with state discoms for all its nuclear power units with a total operational capacity of 8,180MW. The average tariff for NPCIL increased marginally to INR3.52/kWh in FY23 (FY22: INR3.42/kWh; FY21: INR3.41/kWh). As the overall tariff has a low component of fuel charge, any variation in the same is unlikely to impact NPCIL's offtake. The company's upcoming plants, however, are likely to have a higher tariff than the existing average tariff, given the high project costs. The management believes the offtake risk is likely to remain limited, due to the increasing power demand and the focus on clean energy.

**Nuclear Liability Coverage through Fund and Insurance:** Given the risks associated with nuclear power plants, the Gol had enacted the Civil Liability for Nuclear Damage Act, 2010. This limits the liability of nuclear operators to INR15 billion, in case of a nuclear accident; the operator needs to cover through insurance/other financial securities basis the applicable rules. To ensure compliance, NPCIL has taken an insurance policy against the same from an Indian Nuclear Insurance Pool created by the Gol. In addition, the liability over and above the INR15 billion, if any, will be borne by the Gol. Thus, Ind-Ra believes the financial impact of any nuclear accident on NPCIL is limited, and hence, is unlikely to significantly impact its credit metrics.

**Technology Diversification Underway; but Project Risk Remains:** NPCIL has, over the years, transitioned from using a boiling water reactor to pressurised heavy water reactors (PHWR) and light weight reactors (LWR) with increased reactor sizes in PHWR to 700 megawatts electrical (MWe) from 220MWe. While PHWRs are 100% indigenised, LWRs are imported.

NPCIL has 3,400MW of under construction projects, with another 10,400MW of projects in early stages of construction and development. The KAPS Unit 3 of 700MW began commercial operation on 30 June 2023 post all safety checks, given this is the first 700MW PHWR unit and KAPS Unit 4 of 700MW started commercial operations on 1 April 2024. Furthermore, NPCIL has two active under construction projects: Rajasthan Atomic Power Station 7 and 8 (1,400MW) and KKNPP 3 and 4 (2,000MW), totalling 3,400MW. The company's board had approved a capex of INR165.7 billion for FY24 (INR139.2 billion incurred during 11MFY24), 70% of which was funded through debt, in line with the debt-equity ratio of the projects except for KKNPP 3 and 4 where the debt equity ratio has been modified to 82:18.

The under construction projects in advanced stages (Rajasthan Power Station 7 and 8, KKNPP 3 and 4) have a total capital outlay of INR860 billion, of which NPCIL had incurred INR592 billion as of February 2024. The company expects to commission these projects over FY24-FY26. Ind-Ra expects a high annual capex run rate of INR180 billion-200 billion over the medium-to-long term, considering the Gol has approved the setting up of 10 additional PHWRs in a fleet mode totalling 7GW with an estimated capital outlay of INR1,050 billion, along with the setting up of KKNPP Units 5 and 6 on LWR technology totalling 2GW and a capital outlay of INR500 billion.

**Receivables Remain High, Although Likely to Moderate over FY25-FY26:** NPCIL's receivables excluding unbilled revenue stood at INR51.5 billion in 9MFY24 (FY23: INR55.8 billion; FY22: INR46.6 billion; FY21: INR36.0 billion). Historically, the receivables have remained high for the company due to the weak financial profiles of state discoms. The key states to which NPCIL has a high debtor exposure include Tamil Nadu, Madhya Pradesh and the union territory of Jammu and Kashmir. Given the high receivables, NPCIL recovered INR11.72 billion as delayed payment charges from electricity beneficiaries in FY23 (FY22: INR11.88 billion; FY21: INR1.57 billion). The company's receivables are likely to reduce gradually as some of the state discoms have opted for an easy monthly instalment scheme to clear the past dues and NPCIL has started receiving sums under this arrangement. Furthermore, the payables are mainly to DAE, where NPCIL can exercise flexibility depending upon its cash flow position. The counterparty risk is further mitigated by a letter of credit-backed payment mechanism, according to the direction of the Ministry of Power.

**Leverage to Remain Elevated over FY25-FY26:** NPCIL's gross debt increased to INR847 billion at 9MFYE24 (FYE23: INR770 billion; FYE22: INR651 billion; FYE21: INR558 billion) due to the ongoing capex. The debt comprised non-convertible debentures of INR270 billion (INR270 billion; INR237 billion; INR200 billion), term loans of INR267 billion (INR239 billion; INR216 billion; INR186 billion) and DAE loan (Russian credit) of INR295 billion (INR257 billion; INR195 billion; INR157 billion). The upcoming PHWR and LWR projects are likely to be funded in a debt-equity ratio of 70:30 (except for KKNPP units 3 and 4, wherein the debt/equity ratio has been revised). Ind-Ra expects the equity component of the capex to be funded through internal accruals and regular equity infusions from the Gol.

NPCIL's net leverage (net debt/adjusted EBITDA) remained elevated but improved to 7.5x at 1HFYE24 (FYE23: 12.2x; FYE22: 7.8x; FYE21: 7.5x), due to improved EBITDA. The gross interest coverage (adjusted EBITDA/gross interest expense) improved to 14.5x in 1HFY24 (FY23: 9.2x; FY22: 13.2x; FY21: 9.0x), owing to a decline in debt on operational projects, leading to lower interest costs. Of the total debt of INR770 billion at FYE23, INR83 billion pertained to operational plants, while INR687 was attributed to under-construction plants. Ind-Ra expects the net leverage to have remain elevated in FY24 and believes it will continue to be so over the medium-to-long term, in view of the following factors: 1) the large under construction portfolio, with a high capex outlay, funded 70% (82% for KKNPP units 3 and 4) through debt, 2) the time period of five-to-10 years required for setting up a nuclear power plant, and 3) the receivable risk associated with discoms.

## Liquidity

## Adequate, supported by Gol

NPCIL had cash and cash equivalents of INR35.4 billion at 1HFYE24 (FYE23: INR6.5 billion; FYE22: INR23.8 billion; FYE21: INR43.3 billion). As per Ind-Ra's calculations, NPCIL's trade receivables increased to INR76.7 billion in 1HFY24 (FY23: INR69.0 billion; FY22: INR63.2 billion; FY21: INR47.1 billion), while trade payables declined marginally to INR12.1 billion (INR12.2 billion; INR18.7 billion; INR38.1 billion), leading to an increase in the net working capital. NPCIL's cash flow from operations improved to INR34.5 billion in 1HFY24 (FY23: INR13.1 billion; FY22: INR11.8 billion; FY21: INR19.6 billion) on account of higher EBITDA. However, the free cash flow remained negative at INR376 billion in 1HFY24 (FY23: negative INR134 billion; FY22: negative INR110 billion; FY21: negative INR73 billion) due to its large capex of INR64 billion (INR126 billion; INR108 billion; INR80 billion) and high dividend pay-out of INR7.8 billion (INR20.6 billion; INR13.5 billion; INR13.2 billion). Ind-Ra expects the free cash flow to have remained negative in FY24 and believes it will remain so in the medium term, given the annual capex run rate.

NPCIL has scheduled principal debt repayments of INR24 billion for FY25 and INR29.5 billion for FY26, along with annual cash interest expense of INR60 billion-75 billion. The repayment of the DAE loan (Russian credit) for the under construction KKNPP units 3 and 4 will commence one year post project commissioning, which could provide comfort for the repayment of debt obligations.

NPCIL also has access to the domestic banking and bond markets. For its PHWR-based projects, the funding is generally tied up domestically, while for the LWR projects, the funding is arranged from overseas suppliers. Given the large size of the LWR projects, the timely debt tie-up remains a key rating monitorable. However, the Gol's support to NPCIL in raising overseas funds mitigates the funding risk.

## Rating Sensitivities

**Positive:** Not applicable

**Negative:** Any weakening of linkages with the Gol could be negative for the ratings. Lower-than-expected operating PLFs impacting profitability on a sustained basis could also result in a negative rating action.

## ESG Issues

**ESG Factors Minimally Relevant to Rating:** Unless otherwise disclosed in this section, the ESG issues are credit neutral or have only a minimal credit impact on NPCIL, due to either their nature or the way in which they are being managed by the entity. For more information on Ind-Ra's ESG Relevance Disclosures, please click [here](#). For answers to frequently asked questions regarding ESG Relevance Disclosures and their impact on ratings, please click [here](#).

## About the Company

NPCIL was incorporated in 1987, taking over 1,060MW of operational and 880MW of under construction assets from Nuclear Power Board. NPCIL's operational portfolio of 8,180MW across 24 reactors includes two boiling water reactors of 320MW, 19 PHWRs of 5,160MW and two LWR of 2,000MW. Most of the operational stations under PHWR are 220MW with two being 540MW each and two recently commissioned 700MW. The company has an under construction capacity of 3,400 MW, each, in advanced and early stages, respectively. Further, the Gol has accorded administrative approval and financial sanction for 10 PHWR units of 700MW each, which are in the early stages of development.

## KEY FINANCIAL INDICATORS

Particulars	9MFY24	FY23	FY22
Revenue (INR billion)	146.7	146.2	150.4
EBITDA (INR billion)	97.7	63.0	84.8
EBITDA margins (%)	66.6	43.1	56.4
Gross debt (INR billion)	847.3	770.7	651.3
Net leverage (x)	-	12.2	7.4
Gross interest coverage (x)	12.5	9.2	13.2

Source: NPCIL, Ind-Ra  
 Note: The financials figures and ratios are based on the agency's internal adjustment/formula and may differ from the company's reported financials

## Status of Non-Cooperation with previous rating agency

Not applicable

## Rating History

Instrument Type	Rating Type	Rated Limits (billion)	Current Rating/ Outlook	Historical Rating/Outlook						
				22 September 2023	11 April 2023	14 March 2023	15 December 2022	23 September 2022	4 March 2022	26 November 2021
Issuer rating	Long-term	-	-	WD	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable
Non-convertible debentures	Long-term	INR172.1	IND AAA/Stable	-	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable
Term loans	Long-term	INR153.68	IND AAA/Stable	-	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable	IND AAA/Stable
Fund-based working capital limits	Long-term	INR20	IND AAA/Stable	-	-	-	-	-	-	-

## Bank wise Facilities Details

The details are as reported by the issuer as on (03 Mar 2025)

#	Bank Name	Instrument Description	Rated Amount (INR million)	Rating
1	Bank of India	Term loan	5000	IND AAA/Stable
2	HDFC Bank Limited	Term Loan	78180	IND AAA/Stable
3	IndusInd Bank Limited	Term Loan	20000	IND AAA/Stable
4	Jammu and Kashmir Bank	Term Loan	5000	IND AAA/Stable
5	State Bank of India	Fund Based Working Capital Limit (Cash Credit)	20000	IND AAA/Stable

6	Bank of Baroda	Term Loan	20534.4	IND AAA/Stable
7	NA	Term Loan	4965.6	IND AAA/Stable
8	State Bank of India	Term Loan	20000	IND AAA/Stable

## Complexity Level of the Instruments

Instrument Type	Complexity Indicator
Non-convertible debentures	Low
Term loan	Low
Fund-based working capital limits	Low

For details on the complexity level of the instruments, please visit [www.indiaratings.co.in/complexity-indicators](http://www.indiaratings.co.in/complexity-indicators).

## Annexure

Instrument Type	ISIN	Date of issuance	Coupon Rate (%)	Maturity Date	Size of Issue (billion)	Rating assigned along with Outlook/ Watch
Non-convertible debentures	INE206D08469	23 January 2020	7.34	23 January 2030	INR23	IND AAA/Stable
Non-convertible debentures	INE206D08477	23 March 2021	6.80	21 March 2031	INR17.85	IND AAA/Stable
Non-convertible debentures	INE206D08485	24 March 2022	6.89	24 March 2037	INR36.75	IND AAA/Stable
Non-convertible debentures	INE206D08493	23 December 2022	7.55	23 December 2032	INR23.5	IND AAA/Stable
Non-convertible debentures	INE206D08501	21 March 2023	7.70	20 March 2038	INR25	IND AAA/Stable
Non-convertible debentures *					INR46	IND AAA/Stable

\*yet to be issued

Source: NSDL, NPCIL

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## **APPLICABLE CRITERIA AND POLICIES**

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### **Parent and Subsidiary Rating Linkage**

### **Evaluating Corporate Governance**

### **Corporate Rating Methodology**

### **The Rating Process**

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National Stock Exchange Of India Limited

*Date of*

22-Apr-2025

**NSE Acknowledgement**

<b>Symbol:-</b>	
<b>Name of the Company: -</b>	Nuclear Power Corporation of India Limited
<b>Submission Type:-</b>	Announcements
<b>Short Description:-</b>	Credit rating
<b>Date of Submission:-</b>	22-Apr-2025 04:21:55 PM
<b>NEAPS App. No:-</b>	2025/Apr/1280/1280

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