NTPC Limited

March 19, 2019

Summary of rating action

Instrument*	Previous Rated Amount (Rs. crore[1])	Current Rated Amount (Rs. crore)	Rating Action
Commercial Paper	16000.00	18000.00	[ICRA]A1+[2]; Assigned/outstanding
Fund-based Term Loan	65000.00	65000.00	[ICRA]AAA (Stable); Outstanding
Fund-based Working Capital Facilities	3000.00	8000.00	[ICRA]AAA (Stable); assigned/Outstanding
Bonds	43712.33	43712.33	[ICRA]AAA (Stable); Outstanding
Non-fund Based Working Capital Facilities	6000.00	6000.00	[ICRA]A1+; Outstanding

**Instrument details are provided in Annexure-1*

Rationale

ICRA's rating action continues to factor in NTPC Limited's (NTPC) dominant position in the Indian power generation sector, its strategic importance to the Government of India (GoI), its diversified customer base, and its cost competitiveness due to superior operational efficiencies and the proximity of most of its coal-based plants to pit heads. This, coupled with the cost-plus nature of tariffs, has resulted in healthy and stable profitability indicators that are likely to be sustained in the near term. The rating also factors in NTPC's strong financial position as reflected by its low gearing and healthy coverage indicators. The company's cash collections have remained strong since FY2004 (as a result of a tripartite agreement for settlement of state electricity board dues and the resultant payment discipline) as reflected by 100% collections for the 15th consecutive year. Going forward, the sustainability of the collection performance will remain an issue if sectoral reforms, including implementation of Ujwal DISCOM Assurance Yojana (UDAY), do not result in a fundamental improvement in the financial position of state power utilities. Successful implementation of the UDAY scheme, timely issuance of tariff orders, adequate tariff hikes for reduction of revenue gaps, time-bound recovery of regulatory assets, reduction of distribution loss levels and ultimately decreasing subsidy dependence remain imperative for the financial health of the power distribution sector.

NTPC's expansion plans are likely to be funded in a debt: equity ratio of 70:30, which may result in a higher gearing (1.2 times as on March 31, 2018). However, the company's debt-servicing ability is expected to remain strong, given the cost-plus tariff structure and tariff competitiveness of its existing power plants. Though a few of NTPC's ongoing projects have seen some slippages in terms of project execution, these are unlikely to have a significant impact on the company's debt-servicing capabilities, given the strong cash flows from a large basket of operational power plants.
Going forward, NTPC's ability to ensure fuel security for its major expansion projects as well as sustenance of the strong collection performance will remain the key rating drivers.

Outlook: Stable

ICRA believes that NTPC will continue to benefit from its dominant position in the country's power generation sector, cost-plus tariff and sovereign ownership and support of the GoI. The outlook may be revised to Negative if the Government support reduces substantially, or if unfavourable regulatory development weakens cash accruals significantly.

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[1] 100 lakh = 1 crore = 10 million

[2] For complete rating scale and definitions, please refer to ICRA's website www.icra.in or other ICRA Rating Publications

Key rating drivers

Credit strengths

Dominant position in domestic power sector with multilocational facilities and diversified customer base – NTPC has an installed capacity of 45,615 MW (as on December 31, 2018), which constitutes 13% of the total installed capacity in the country. Given its robust capacity-addition program, NTPC will continue to maintain a diversified customer base and dominant position in the power sector.

Cost competitiveness due to superior operating efficiencies and proximity of coal-based plants to pit heads – The average tariff for NTPC remained at Rs. 3.47 per unit in 9M FY2019. Rationalisation of coal linkages and flexible utilisation of coal among its various thermal stations helped curtail the impact of the increase in coal costs. However, the tariff is expected to increase going forward with increasing capital costs and new projects located farther away from pit heads.

Demonstrated project management skills – NTPC's thermal power stations (TPSs) continue to report superior performance. Six of the company's TPSs were among the top 10 stations in terms of plant load factor (PLF) in FY2018. The average PLF for NTPC's stations stood at 77.9% against the national average of 60.7% in FY2018.

Strong financial position reflected by low gearing and healthy coverage indicators – NTPC's financial profile reflects its profitable operations, owing to the cost-plus tariff formula, operational efficiencies and its ability to meet CERC's norms. Thus, the profitability and debt-coverage metrics of the company remain strong.

Sovereign ownership and support from GoI – The rating draws comfort from the majority share of the GoI in NTPC (58.93%) and the continued support from the same, given the pivotal role the company plays in the country's power sector.

Credit challenges

High counterparty credit risks – If sectoral reforms do not result in a fundamental improvement in the financial position of state power utilities, the company's collection performance may be impacted. However, the tripartite agreement between the GoI, state governments (29 states/union territories have signed so far) and the Reserve Bank of India, which protects NTPC from payment defaults by state distribution utilities, offers comfort. Also, NTPC's significant bargaining power as India's largest power generation company and a sufficiently diversified customer base across the country mitigate the risk.

Challenges in tying-up adequate fuel linkage for new coal-based capacities and maintaining cost competitiveness – Risk of shortages in coal availability and uncertainty over contract terms from its main supplier CIL pose challenges for NTPC to maintain its cost competitiveness. With the addition of high-cost new plants, the average tariff is expected to increase and can impact the tariff competitiveness of the company. Thus, the timely development of captive mines and optimal utilisation of its pit head-based plants remain critical.

Liquidity position

The liquidity profile of NTPC is supported by the regulated nature of operations (which allow for the adequate recovery of fixed charges, including debt servicing requirements). Therefore, the cash flows from operations provide adequate cushion towards debt servicing. The same is also supported by the company's strong refinancing ability. The company had undrawn fund-based working capital limits of Rs. 2,951 crore as on February 28, 2019.

Analytical approach

Analytical Approach	Comments
Applicable Rating Methodologies	Corporate Credit Rating Methodology Rating Methodology for Thermal Power Producers
Parent/Group Support	Not applicable
Consolidation / Standalone	The debt raised for the infrastructure project assets by select SPVs owned by the rated holding company is non-recourse to the latter; hence, ICRA has not consolidated the debt in these SPVs; however, in line with its limited consolidation approach, ICRA has factored in the rated entity's support to fund the equity component of the investment in these infrastructure projects, any cost overruns and debt servicing support in the initial stage of operations

About the company

NTPC was incorporated in 1975 as a thermal generation company and is at present India's largest power generating entity. The total installed generation capacity of the company stood at 45,615 MW as on December 31, 2018. In 9M FY2019, the company generated 228.21 billion units of power. NTPC has been accorded the status of Maharatna, which gives it considerable operating flexibility. Alongside continuing its core business of coal and gas-based thermal generation, the company recently diversified (in some cases through JVs) into related activities like consulting, hydropower development, power trading, coal mining, renewable projects (like solar) and exploration for oil and gas.

In FY2018, the company reported a net profit of Rs. 10,343.2 crore on an operating income (OI) of Rs. 83,078.2 crore against net profit of Rs. 9,385.3 crore on an OI of Rs. 78,013.2 crore in FY2017.

Key financial indicators (audited)

	FY2017	FY2018
Operating Income (Rs. crore)*	78,013.2	83,078.2
PAT (Rs. crore)	9,385.3	10,343.2
OPBDIT/OI (%)	27.7%	27.5%
RoCE (%)	13.8%	12.9%
Total Debt/TNW (times)	1.1	1.2
Total Debt/OPBDIT (times)	4.9	5.3
Interest Coverage (times)	6.0	5.7

**Operating income and operating profit includes income from late payment surcharge and excludes net movement in regulatory deferral account balances as against earlier presented numbers. Accordingly, operating income, OPBITD/OI, TD/OPBITD and interest coverage are marginally different from earlier presented numbers*

Status of non-cooperation with previous CRA: Not applicable

Any other information: None

Rating history for last three years

	Instrument	Type	Amount Rated (Rs. crore)	Amount Outstanding (Rs. crore)	Current Rating (FY2019) Date & Rating March 2019	December 2018	May 2018	Chronology of Rating History for the past 3 years: Date & Rating in FY2018 March 2018	October 2017	Date & Rating in FY2017 February 2017	August 2016	Date & Rating in FY2016 March 2016	August 2015
1	Term Loan	Long Term	65000.00	52,948.19*	**[ICRA]AAA (stable)**	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)
2	Fund-based Limit	Long Term	8000.00	-	**[ICRA]AAA (stable)**	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)
3	Non-fund Based Limit	Short Term	6000.00	-	**[ICRA]A1+**	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+
4	Commercial Paper	Long Term	18000.00	15,400.00*	**[ICRA]A1+**	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+
5	Bonds Programme	Long Term	43712.33	34,920.33*	**[ICRA]AAA (stable)**	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)

**as on February 28, 2019*

Complexity level of the rated instrument

ICRA has classified various instruments based on their complexity as "Simple", "Complex" and "Highly Complex". The classification of instruments according to their complexity levels is available on the website www.icra.in

Annexure-1: Instrument Details

ISIN No	Instrument Name	Date of Issuance / Sanction	Coupon Rate	Maturity Date	Amount Rated (Rs. crore)	Current Rating and Outlook
NA	Non-fund Based Working Capital Limits	-	-	-	6,000.00	[ICRA]A1+
NA	Commercial Paper	-	6.90-7.57%	60-91 days	18,000.00	[ICRA]A1+
NA	Fund-based Working Capital Limits	-	-	-	8,000.00	[ICRA]AAA(stable)
NA	Term Loans	January 15, 2004	-	March 31, 2034	58,293.19	[ICRA]AAA(stable)
NA	Term Loans - Proposed	-	-	-	6706.81	[ICRA]AAA(stable)
NA	Bonds – Proposed	-	-	-	6,000.00	[ICRA]AAA(stable)
INE733E07165	Bond Series 13-A	April 18, 2002	9.55	April 18, 2017	75.00	[ICRA]AAA(stable)
INE733E07108	Bond Series 13-B	April 30, 2002	9.55	April 30, 2017	75.00	[ICRA]AAA(stable)
INE733E08122	Bond Series 16	April 10, 2003	8.00	April 10, 2018	100.00	[ICRA]AAA(stable)
INE733E08130	Bond Series 17	May 1, 2003	8.48	May 1, 2023	50.00	[ICRA]AAA(stable)
INE733E07249	Bond Series 19	January 12, 2004	7.50	January 12, 2019	50.00	[ICRA]AAA(stable)
INE733E07413	Bond Series 20	March 23, 2005	7.55	September 23, 2017	25.00	[ICRA]AAA(stable)
INE733E07421	Bond Series 20	March 23, 2005	7.55	March 23, 2018	25.00	[ICRA]AAA(stable)
INE733E07439	Bond Series 20	March 23, 2005	7.55	September 23, 2018	25.00	[ICRA]AAA(stable)
INE733E07447	Bond Series 20	March 23, 2005	7.55	March 23, 2019	25.00	[ICRA]AAA(stable)
INE733E07595	Bond Series 21	February 2, 2006	7.71	August 2, 2017	50.00	[ICRA]AAA(stable)
INE733E07603	Bond Series 21	February 2, 2006	7.71	February 2, 2018	50.00	[ICRA]AAA(stable)
INE733E07611	Bond Series 21	February 2, 2006	7.71	August 2, 2018	50.00	[ICRA]AAA(stable)
INE733E07629	Bond Series 21	February 2, 2006	7.71	February 2, 2019	50.00	[ICRA]AAA(stable)
INE733E07637	Bond Series 21	February 2, 2006	7.71	August 2, 2019	50.00	[ICRA]AAA(stable)
INE733E07645	Bond Series 21	February 2, 2006	7.71	February 2, 2020	50.00	[ICRA]AAA(stable)
INE733E07777	Bond Series 22	January 2, 2007	8.18	July 2, 2017	25.00	[ICRA]AAA(stable)
INE733E07785	Bond Series 22	January 2, 2007	8.18	January 2, 2018	25.00	[ICRA]AAA(stable)
INE733E07793	Bond Series 22	January 2, 2007	8.18	July 2, 2018	25.00	[ICRA]AAA(stable)
INE733E07801	Bond Series 22	January 2, 2007	8.18	January 2, 2019	25.00	[ICRA]AAA(stable)
INE733E07819	Bond Series 22	January 2, 2007	8.18	July 2, 2019	25.00	[ICRA]AAA(stable)

INE733E07827	Bond Series 22	January 2, 2007	8.18	January 2, 2020	25.00	[ICRA]AAA(stable)
INE733E07835	Bond Series 22	January 2, 2007	8.18	July 2, 2020	25.00	[ICRA]AAA(stable)
INE733E07843	Bond Series 22	January 2, 2007	8.18	January 2, 2021	25.00	[ICRA]AAA(stable)
INE733E07975	Bond Series 23	February 5, 2007	8.38	August 5, 2017	25.00	[ICRA]AAA(stable)
INE733E07983	Bond Series 23	February 5, 2007	8.38	February 5, 2018	25.00	[ICRA]AAA(stable)
INE733E07991	Bond Series 23	February 5, 2007	8.38	August 5, 2018	25.00	[ICRA]AAA(stable)
INE733E07AA7	Bond Series 23	February 5, 2007	8.38	February 5, 2019	25.00	[ICRA]AAA(stable)
INE733E07AB5	Bond Series 23	February 5, 2007	8.38	August 5, 2019	25.00	[ICRA]AAA(stable)
INE733E07AC3	Bond Series 23	February 5, 2007	8.38	February 5, 2020	25.00	[ICRA]AAA(stable)
INE733E07AD1	Bond Series 23	February 5, 2007	8.38	August 5, 2020	25.00	[ICRA]AAA(stable)
INE733E07AE9	Bond Series 23	February 5, 2007	8.38	February 5, 2021	25.00	[ICRA]AAA(stable)
INE733E07AR1	Bond Series 24	March 9, 2007	8.61	September 9, 2017	25.00	[ICRA]AAA(stable)
INE733E07AS9	Bond Series 24	March 9, 2007	8.61	March 9, 2018	25.00	[ICRA]AAA(stable)
INE733E07AT7	Bond Series 24	March 9, 2007	8.61	September 9, 2018	25.00	[ICRA]AAA(stable)
INE733E07AU5	Bond Series 24	March 9, 2007	8.61	March 9, 2019	25.00	[ICRA]AAA(stable)
INE733E07AV3	Bond Series 24	March 9, 2007	8.61	September 9, 2019	25.00	[ICRA]AAA(stable)
INE733E07AW1	Bond Series 24	March 9, 2007	8.61	March 9, 2020	25.00	[ICRA]AAA(stable)
INE733E07AX9	Bond Series 24	March 9, 2007	8.61	September 9, 2020	25.00	[ICRA]AAA(stable)
INE733E07AY7	Bond Series 24	March 9, 2007	8.61	March 9, 2021	25.00	[ICRA]AAA(stable)
INE733E07BJ6	Bond Series 25	December 28, 2007	9.37	June 4, 2017	35.75	[ICRA]AAA(stable)
INE733E07BK4	Bond Series 25	December 28, 2007	9.37	December 4, 2017	35.75	[ICRA]AAA(stable)
INE733E07BL2	Bond Series 25	December 28, 2007	9.37	June 4, 2018	35.75	[ICRA]AAA(stable)
INE733E07BM0	Bond Series 25	December 28, 2007	9.37	December 4, 2018	35.25	[ICRA]AAA(stable)
INE733E07BX7	Bond Series 26	January 31, 2008	9.06	June 4, 2017	35.75	[ICRA]AAA(stable)
INE733E07BY5	Bond Series 26	January 31, 2008	9.06	December 4, 2017	35.75	[ICRA]AAA(stable)
INE733E07BZ2	Bond Series 26	January 31, 2008	9.06	June 4, 2018	35.75	[ICRA]AAA(stable)

INE733E07CA3	Bond Series 26	January 31, 2008	9.06	December 4, 2018	35.25	[ICRA]AAA(stable)
INE733E07CB1	Bond Series 27	November 6, 2008	11.25	November 6, 2023	350.00	[ICRA]AAA(stable)
INE733E07CC9	Bond Series 28	November 21, 2008	11.00	November 21, 2018	1000.00	[ICRA]AAA(stable)
INE733E07CD7	Bond Series 29	February 4, 2009	8.65	February 4, 2019	550.00	[ICRA]AAA(stable)
INE733E07CE5	Bond Series 30	May 5, 2009	7.89	May 5, 2019	700.00	[ICRA]AAA(stable)
INE733E07CF2	Bond Series 31	March 9, 2010	8.78	March 9, 2020	500.00	[ICRA]AAA(stable)
INE733E07CI6	Bond Series 32	March 25, 2010	8.85	March 25, 2018	7.00	[ICRA]AAA(stable)
INE733E07CJ4	Bond Series 32	March 25, 2010	8.85	March 25, 2019	7.00	[ICRA]AAA(stable)
INE733E07CK2	Bond Series 32	March 25, 2010	8.85	March 25, 2020	7.00	[ICRA]AAA(stable)
INE733E07CL0	Bond Series 32	March 25, 2010	8.85	March 25, 2021	7.00	[ICRA]AAA(stable)
INE733E07CM8	Bond Series 32	March 25, 2010	8.85	March 25, 2022	7.00	[ICRA]AAA(stable)
INE733E07CN6	Bond Series 32	March 25, 2010	8.85	March 25, 2023	7.00	[ICRA]AAA(stable)
INE733E07CO4	Bond Series 32	March 25, 2010	8.85	March 25, 2024	7.00	[ICRA]AAA(stable)
INE733E07CP1	Bond Series 32	March 25, 2010	8.85	March 25, 2025	7.00	[ICRA]AAA(stable)
INE733E07CQ9	Bond Series 32	March 25, 2010	8.85	March 25, 2026	7.00	[ICRA]AAA(stable)
INE733E07CR7	Bond Series 32	March 25, 2010	8.85	March 25, 2027	7.00	[ICRA]AAA(stable)
INE733E07CS5	Bond Series 32	March 25, 2010	8.85	March 25, 2028	7.00	[ICRA]AAA(stable)
INE733E07CT3	Bond Series 32	March 25, 2010	8.85	March 25, 2029	7.00	[ICRA]AAA(stable)
INE733E07CU1	Bond Series 32	March 25, 2010	8.85	March 25, 2030	7.00	[ICRA]AAA(stable)
INE733E07CV9	Bond Series 33	March 31, 2010	8.73	March 31, 2020	195.00	[ICRA]AAA(stable)
INE733E07CX5	Bond Series 34	June 10, 2010	8.71	June 10, 2017	10.00	[ICRA]AAA(stable)
INE733E07CY3	Bond Series 34	June 10, 2010	8.71	June 10, 2018	10.00	[ICRA]AAA(stable)
INE733E07CZ0	Bond Series 34	June 10, 2010	8.71	June 10, 2019	10.00	[ICRA]AAA(stable)
INE733E07DA1	Bond Series 34	June 10, 2010	8.71	June 10, 2020	10.00	[ICRA]AAA(stable)
INE733E07DB9	Bond Series 34	June 10, 2010	8.71	June 10, 2021	10.00	[ICRA]AAA(stable)
INE733E07DC7	Bond Series 34	June 10, 2010	8.71	June 10, 2022	10.00	[ICRA]AAA(stable)
INE733E07DD5	Bond Series 34	June 10, 2010	8.71	June 10, 2023	10.00	[ICRA]AAA(stable)
INE733E07DE3	Bond Series 34	June 10, 2010	8.71	June 10, 2024	10.00	[ICRA]AAA(stable)
INE733E07DF0	Bond Series 34	June 10, 2010	8.71	June 10, 2025	10.00	[ICRA]AAA(stable)
INE733E07DG8	Bond Series 34	June 10, 2010	8.71	June 10, 2026	10.00	[ICRA]AAA(stable)

INE733E07DH6	Bond Series 34	June 10, 2010	8.71	June 10, 2027	10.00	[ICRA]AAA(stable)
INE733E07DI4	Bond Series 34	June 10, 2010	8.71	June 10, 2028	10.00	[ICRA]AAA(stable)
INE733E07DJ2	Bond Series 34	June 10, 2010	8.71	June 10, 2029	10.00	[ICRA]AAA(stable)
INE733E07DK0	Bond Series 34	June 10, 2010	8.71	June 10, 2030	10.00	[ICRA]AAA(stable)
INE733E07DM6	Bond Series 35	September 15, 2010	8.79	September 15, 2017	8.00	[ICRA]AAA(stable)
INE733E07DN4	Bond Series 35	September 15, 2010	8.79	September 15, 2018	8.00	[ICRA]AAA(stable)
INE733E07DO2	Bond Series 35	September 15, 2010	8.79	September 15, 2019	8.00	[ICRA]AAA(stable)
INE733E07DP9	Bond Series 35	September 15, 2010	8.79	September 15, 2020	8.00	[ICRA]AAA(stable)
INE733E07DQ7	Bond Series 35	September 15, 2010	8.79	September 15, 2021	8.00	[ICRA]AAA(stable)
INE733E07DR5	Bond Series 35	September 15, 2010	8.79	September 15, 2022	8.00	[ICRA]AAA(stable)
INE733E07DS3	Bond Series 35	September 15, 2010	8.79	September 15, 2023	8.00	[ICRA]AAA(stable)
INE733E07DT1	Bond Series 35	September 15, 2010	8.79	September 15, 2024	8.00	[ICRA]AAA(stable)
INE733E07DU9	Bond Series 35	September 15, 2010	8.79	September 15, 2025	8.00	[ICRA]AAA(stable)
INE733E07DV7	Bond Series 35	September 15, 2010	8.79	September 15, 2026	8.00	[ICRA]AAA(stable)
INE733E07DW5	Bond Series 35	September 15, 2010	8.79	September 15, 2027	8.00	[ICRA]AAA(stable)
INE733E07DX3	Bond Series 35	September 15, 2010	8.79	September 15, 2028	8.00	[ICRA]AAA(stable)
INE733E07DY1	Bond Series 35	September 15, 2010	8.79	September 15, 2029	8.00	[ICRA]AAA(stable)
INE733E07DZ8	Bond Series 35	September 15, 2010	8.79	September 15, 2030	8.00	[ICRA]AAA(stable)
INE733E07EB7	Bond Series 36	December 15, 2010	8.81	December 15, 2017	5.00	[ICRA]AAA(stable)
INE733E07EC5	Bond Series 36	December 15, 2010	8.81	December 15, 2018	5.00	[ICRA]AAA(stable)
INE733E07ED3	Bond Series 36	December 15, 2010	8.81	December 15, 2019	5.00	[ICRA]AAA(stable)
INE733E07EE1	Bond Series 36	December 15, 2010	8.81	December 15, 2020	5.00	[ICRA]AAA(stable)
INE733E07EF8	Bond Series 36	December 15, 2010	8.81	December 15, 2021	5.00	[ICRA]AAA(stable)
INE733E07EG6	Bond Series 36	December 15, 2010	8.81	December 15, 2022	5.00	[ICRA]AAA(stable)
INE733E07EH4	Bond Series 36	December 15, 2010	8.81	December 15, 2023	5.00	[ICRA]AAA(stable)
INE733E07EI2	Bond Series 36	December 15, 2010	8.81	December 15, 2024	5.00	[ICRA]AAA(stable)
INE733E07EJ0	Bond Series 36	December 15, 2010	8.81	December 15, 2025	5.00	[ICRA]AAA(stable)
INE733E07EK8	Bond Series 36	December 15,	8.81	December 15,	5.00	[ICRA]AAA(stable)

		2010		2026		
INE733E07EL6	Bond Series 36	December 15, 2010	8.81	December 15, 2027	5.00	[ICRA]AAA(stable)
INE733E07EM4	Bond Series 36	December 15, 2010	8.81	December 15, 2028	5.00	[ICRA]AAA(stable)
INE733E07EN2	Bond Series 36	December 15, 2010	8.81	December 15, 2029	5.00	[ICRA]AAA(stable)
INE733E07EO0	Bond Series 36	December 15, 2010	8.81	December 15, 2030	5.00	[ICRA]AAA(stable)
INE733E07EP7	Bond Series 37	January 19, 2011	8.93	January 19, 2021	300.00	[ICRA]AAA(stable)
INE733E07ER3	Bond Series 38	March 22, 2011	9.17	March 22, 2018	5.00	[ICRA]AAA(stable)
INE733E07ES1	Bond Series 38	March 22, 2011	9.17	March 22, 2019	5.00	[ICRA]AAA(stable)
INE733E07ET9	Bond Series 38	March 22, 2011	9.17	March 22, 2020	5.00	[ICRA]AAA(stable)
INE733E07EU7	Bond Series 38	March 22, 2011	9.17	March 22, 2021	5.00	[ICRA]AAA(stable)
INE733E07EV5	Bond Series 38	March 22, 2011	9.17	March 22, 2022	5.00	[ICRA]AAA(stable)
INE733E07EW3	Bond Series 38	March 22, 2011	9.17	March 22, 2023	5.00	[ICRA]AAA(stable)
INE733E07EX1	Bond Series 38	March 22, 2011	9.17	March 22, 2024	5.00	[ICRA]AAA(stable)
INE733E07EY9	Bond Series 38	March 22, 2011	9.17	March 22, 2025	5.00	[ICRA]AAA(stable)
INE733E07EZ6	Bond Series 38	March 22, 2011	9.17	March 22, 2026	5.00	[ICRA]AAA(stable)
INE733E07FA6	Bond Series 38	March 22, 2011	9.17	March 22, 2027	5.00	[ICRA]AAA(stable)
INE733E07FB4	Bond Series 38	March 22, 2011	9.17	March 22, 2028	5.00	[ICRA]AAA(stable)
INE733E07FC2	Bond Series 38	March 22, 2011	9.17	March 22, 2029	5.00	[ICRA]AAA(stable)
INE733E07FD0	Bond Series 38	March 22, 2011	9.17	March 22, 2030	5.00	[ICRA]AAA(stable)
INE733E07FE8	Bond Series 38	March 22, 2011	9.17	March 22, 2031	5.00	[ICRA]AAA(stable)
INE733E07FF5	Bond Series 39	June 9, 2011	9.39	June 9, 2017	7.00	[ICRA]AAA(stable)
INE733E07FG3	Bond Series 39	June 9, 2011	9.39	June 9, 2018	7.00	[ICRA]AAA(stable)
INE733E07FH1	Bond Series 39	June 9, 2011	9.39	June 9, 2019	7.00	[ICRA]AAA(stable)
INE733E07FI9	Bond Series 39	June 9, 2011	9.39	June 9, 2020	7.00	[ICRA]AAA(stable)
INE733E07FJ7	Bond Series 39	June 9, 2011	9.39	June 9, 2021	7.00	[ICRA]AAA(stable)
INE733E07FK5	Bond Series 39	June 9, 2011	9.39	June 9, 2022	7.00	[ICRA]AAA(stable)
INE733E07FL3	Bond Series 39	June 9, 2011	9.39	June 9, 2023	7.00	[ICRA]AAA(stable)
INE733E07FM1	Bond Series 39	June 9, 2011	9.39	June 9, 2024	7.00	[ICRA]AAA(stable)
INE733E07FN9	Bond Series 39	June 9, 2011	9.39	June 9, 2025	7.00	[ICRA]AAA(stable)
INE733E07FO7	Bond Series 39	June 9, 2011	9.39	June 9, 2026	7.00	[ICRA]AAA(stable)

INE733E07FP4	Bond Series 39	June 9, 2011	9.39	June 9, 2027	7.00	[ICRA]AAA(stable)
INE733E07FQ2	Bond Series 39	June 9, 2011	9.39	June 9, 2028	7.00	[ICRA]AAA(stable)
INE733E07FR0	Bond Series 39	June 9, 2011	9.39	June 9, 2029	7.00	[ICRA]AAA(stable)
INE733E07FS8	Bond Series 39	June 9, 2011	9.39	June 9, 2030	7.00	[ICRA]AAA(stable)
INE733E07FT6	Bond Series 39	June 9, 2011	9.39	June 9, 2031	7.00	[ICRA]AAA(stable)
INE733E07FU4	Bond Series 40	July 29, 2011	9.56	July 29, 2017	5.00	[ICRA]AAA(stable)
INE733E07FV2	Bond Series 40	July 29, 2011	9.56	July 29, 2018	5.00	[ICRA]AAA(stable)
INE733E07FW0	Bond Series 40	July 29, 2011	9.56	July 29, 2019	5.00	[ICRA]AAA(stable)
INE733E07FX8	Bond Series 40	July 29, 2011	9.56	July 29, 2020	5.00	[ICRA]AAA(stable)
INE733E07FY6	Bond Series 40	July 29, 2011	9.56	July 29, 2021	5.00	[ICRA]AAA(stable)
INE733E07FZ3	Bond Series 40	July 29, 2011	9.56	July 29, 2022	5.00	[ICRA]AAA(stable)
INE733E07GA4	Bond Series 40	July 29, 2011	9.56	July 29, 2023	5.00	[ICRA]AAA(stable)
INE733E07GB2	Bond Series 40	July 29, 2011	9.56	July 29, 2024	5.00	[ICRA]AAA(stable)
INE733E07GC0	Bond Series 40	July 29, 2011	9.56	July 29, 2025	5.00	[ICRA]AAA(stable)
INE733E07GD8	Bond Series 40	July 29, 2011	9.56	July 29, 2026	5.00	[ICRA]AAA(stable)
INE733E07GE6	Bond Series 40	July 29, 2011	9.56	July 29, 2027	5.00	[ICRA]AAA(stable)
INE733E07GF3	Bond Series 40	July 29, 2011	9.56	July 29, 2028	5.00	[ICRA]AAA(stable)
INE733E07GG1	Bond Series 40	July 29, 2011	9.56	July 29, 2029	5.00	[ICRA]AAA(stable)
INE733E07GH9	Bond Series 40	July 29, 2011	9.56	July 29, 2030	5.00	[ICRA]AAA(stable)
INE733E07GI7	Bond Series 40	July 29, 2011	9.56	July 29, 2031	5.00	[ICRA]AAA(stable)
INE733E07GJ5	Bond Series 41	December 23, 2011	9.67	December 23, 2017	5.00	[ICRA]AAA(stable)
INE733E07GK3	Bond Series 41	December 23, 2011	9.67	December 23, 2018	5.00	[ICRA]AAA(stable)
INE733E07GL1	Bond Series 41	December 23, 2011	9.67	December 23, 2019	5.00	[ICRA]AAA(stable)
INE733E07GM9	Bond Series 41	December 23, 2011	9.67	December 23, 2020	5.00	[ICRA]AAA(stable)
INE733E07GN7	Bond Series 41	December 23, 2011	9.67	December 23, 2021	5.00	[ICRA]AAA(stable)
INE733E07GO5	Bond Series 41	December 23, 2011	9.67	December 23, 2022	5.00	[ICRA]AAA(stable)
INE733E07GP2	Bond Series 41	December 23, 2011	9.67	December 23, 2023	5.00	[ICRA]AAA(stable)
INE733E07GQ0	Bond Series 41	December 23, 2011	9.67	December 23, 2024	5.00	[ICRA]AAA(stable)
INE733E07GR8	Bond Series 41	December 23, 2011	9.67	December 23, 2025	5.00	[ICRA]AAA(stable)
INE733E07GS6	Bond Series 41	December 23, 2011	9.67	December 23, 2026	5.00	[ICRA]AAA(stable)
INE733E07GT4	Bond Series 41	December 23, 2011	9.67	December 23, 2027	5.00	[ICRA]AAA(stable)
INE733E07GU2	Bond Series 41	December 23, 2011	9.67	December 23, 2028	5.00	[ICRA]AAA(stable)
INE733E07GV0	Bond Series 41	December 23, 2011	9.67	December 23, 2029	5.00	[ICRA]AAA(stable)
INE733E07GW8	Bond Series 41	December 23,	9.67	December 23,	5.00	[ICRA]AAA(stable)

		2011		2030		
INE733E07GX6	Bond Series 41	December 23, 2011	9.67	December 23, 2031	5.00	[ICRA]AAA(stable)
INE733E07GY4	Bond Series 42	January 25, 2012	9.00	January 25, 2023	100.00	[ICRA]AAA(stable)
INE733E07GZ1	Bond Series 42	January 25, 2012	9.00	January 25, 2024	100.00	[ICRA]AAA(stable)
INE733E07HA2	Bond Series 42	January 25, 2012	9.00	January 25, 2025	100.00	[ICRA]AAA(stable)
INE733E07HB0	Bond Series 42	January 25, 2012	9.00	January 25, 2026	100.00	[ICRA]AAA(stable)
INE733E07HC8	Bond Series 42	January 25, 2012	9.00	January 25, 2027	100.00	[ICRA]AAA(stable)
INE733E07HD6	Bond Series 43	March 2, 2012	9.26	March 2, 2018	5.00	[ICRA]AAA(stable)
INE733E07HE4	Bond Series 43	March 2, 2012	9.26	March 2, 2019	5.00	[ICRA]AAA(stable)
INE733E07HF1	Bond Series 43	March 2, 2012	9.26	March 2, 2020	5.00	[ICRA]AAA(stable)
INE733E07HG9	Bond Series 43	March 2, 2012	9.26	March 2, 2021	5.00	[ICRA]AAA(stable)
INE733E07HH7	Bond Series 43	March 2, 2012	9.26	March 2, 2022	5.00	[ICRA]AAA(stable)
INE733E07HI5	Bond Series 43	March 2, 2012	9.26	March 2, 2023	5.00	[ICRA]AAA(stable)
INE733E07HJ3	Bond Series 43	March 2, 2012	9.26	March 2, 2024	5.00	[ICRA]AAA(stable)
INE733E07HK1	Bond Series 43	March 2, 2012	9.26	March 2, 2025	5.00	[ICRA]AAA(stable)
INE733E07HL9	Bond Series 43	March 2, 2012	9.26	March 2, 2026	5.00	[ICRA]AAA(stable)
INE733E07HM7	Bond Series 43	March 2, 2012	9.26	March 2, 2027	5.00	[ICRA]AAA(stable)
INE733E07HN5	Bond Series 43	March 2, 2012	9.26	March 2, 2028	5.00	[ICRA]AAA(stable)
INE733E07HO3	Bond Series 43	March 2, 2012	9.26	March 2, 2029	5.00	[ICRA]AAA(stable)
INE733E07HP0	Bond Series 43	March 2, 2012	9.26	March 2, 2030	5.00	[ICRA]AAA(stable)
INE733E07HQ8	Bond Series 43	March 2, 2012	9.26	March 2, 2031	5.00	[ICRA]AAA(stable)
INE733E07HR6	Bond Series 43	March 2, 2012	9.26	March 2, 2032	5.00	[ICRA]AAA(stable)
INE733E07HS4	Bond Series 44	May 4, 2012	9.25	May 4, 2023	100.00	[ICRA]AAA(stable)
INE733E07HT2	Bond Series 44	May 4, 2012	9.25	May 4, 2024	100.00	[ICRA]AAA(stable)
INE733E07HU0	Bond Series 44	May 4, 2012	9.25	May 4, 2025	100.00	[ICRA]AAA(stable)
INE733E07HV8	Bond Series 44	May 4, 2012	9.25	May 4, 2026	100.00	[ICRA]AAA(stable)
INE733E07HW6	Bond Series 44	May 4, 2012	9.25	May 4, 2027	100.00	[ICRA]AAA(stable)
INE733E07HX4	Bond Series 45	May 16, 2012	9.44	May 16, 2018	5.00	[ICRA]AAA(stable)
INE733E07HY2	Bond Series 45	May 16, 2012	9.44	May 16, 2019	5.00	[ICRA]AAA(stable)

INE733E07HZ9	Bond Series 45	May 16, 2012	9.44	May 16, 2020	5.00	[ICRA]AAA(stable)
INE733E07IA0	Bond Series 45	May 16, 2012	9.44	May 16, 2021	5.00	[ICRA]AAA(stable)
INE733E07IB8	Bond Series 45	May 16, 2012	9.44	May 16, 2022	5.00	[ICRA]AAA(stable)
INE733E07IC6	Bond Series 45	May 16, 2012	9.44	May 16, 2023	5.00	[ICRA]AAA(stable)
INE733E07ID4	Bond Series 45	May 16, 2012	9.44	May 16, 2024	5.00	[ICRA]AAA(stable)
INE733E07IE2	Bond Series 45	May 16, 2012	9.44	May 16, 2025	5.00	[ICRA]AAA(stable)
INE733E07IF9	Bond Series 45	May 16, 2012	9.44	May 16, 2026	5.00	[ICRA]AAA(stable)
INE733E07IG7	Bond Series 45	May 16, 2012	9.44	May 16, 2027	5.00	[ICRA]AAA(stable)
INE733E07IH5	Bond Series 45	May 16, 2012	9.44	May 16, 2028	5.00	[ICRA]AAA(stable)
INE733E07II3	Bond Series 45	May 16, 2012	9.44	May 16, 2029	5.00	[ICRA]AAA(stable)
INE733E07IJ1	Bond Series 45	May 16, 2012	9.44	May 16, 2030	5.00	[ICRA]AAA(stable)
INE733E07IK9	Bond Series 45	May 16, 2012	9.44	May 16, 2031	5.00	[ICRA]AAA(stable)
INE733E07IL7	Bond Series 45	May 16, 2012	9.44	May 16, 2032	5.00	[ICRA]AAA(stable)
INE733E07IM5	Bond Series 46	July 20, 2012	9.35	July 20, 2018	5.00	[ICRA]AAA(stable)
INE733E07IN3	Bond Series 46	July 20, 2012	9.35	July 20, 2019	5.00	[ICRA]AAA(stable)
INE733E07IO1	Bond Series 46	July 20, 2012	9.35	July 20, 2020	5.00	[ICRA]AAA(stable)
INE733E07IP8	Bond Series 46	July 20, 2012	9.35	July 20, 2021	5.00	[ICRA]AAA(stable)
INE733E07IQ6	Bond Series 46	July 20, 2012	9.35	July 20, 2022	5.00	[ICRA]AAA(stable)
INE733E07IR4	Bond Series 46	July 20, 2012	9.35	July 20, 2023	5.00	[ICRA]AAA(stable)
INE733E07IS2	Bond Series 46	July 20, 2012	9.35	July 20, 2024	5.00	[ICRA]AAA(stable)
INE733E07IT0	Bond Series 46	July 20, 2012	9.35	July 20, 2025	5.00	[ICRA]AAA(stable)
INE733E07IU8	Bond Series 46	July 20, 2012	9.35	July 20, 2026	5.00	[ICRA]AAA(stable)
INE733E07IV6	Bond Series 46	July 20, 2012	9.35	July 20, 2027	5.00	[ICRA]AAA(stable)
INE733E07IW4	Bond Series 46	July 20, 2012	9.35	July 20, 2028	5.00	[ICRA]AAA(stable)
INE733E07IX2	Bond Series 46	July 20, 2012	9.35	July 20, 2029	5.00	[ICRA]AAA(stable)
INE733E07IY0	Bond Series 46	July 20, 2012	9.35	July 20, 2030	5.00	[ICRA]AAA(stable)
INE733E07IZ7	Bond Series 46	July 20, 2012	9.35	July 20, 2031	5.00	[ICRA]AAA(stable)
INE733E07JA8	Bond Series 46	July 20, 2012	9.35	July 20, 2032	5.00	[ICRA]AAA(stable)
INE733E07JB6	Bond Series 47	October 4, 2012	8.84	October 4, 2022	390.00	[ICRA]AAA(stable)
INE733E07JC4	Bond Series 48	March 7, 2013	8.73	March 7, 2023	300.00	[ICRA]AAA(stable)
INE733E07JD2	Bond Series 49	April 4, 2013	8.80	April 4, 2023	200.00	[ICRA]AAA(stable)
INE733E07JE0	Bond Series 50-1A	December 16, 2013	8.41	December 16, 2023	488.03	[ICRA]AAA(stable)
INE733E07JF7	Bond Series 50-2A	December 16, 2013	8.48	December 16, 2028	249.95	[ICRA]AAA(stable)
INE733E07JG5	Bond Series 50-3A	December 16, 2013	8.66	December 16, 2033	312.03	[ICRA]AAA(stable)
INE733E07JH3	Bond Series 50-1B	December 16, 2013	8.66	December 16, 2023	208.64	[ICRA]AAA(stable)
INE733E07JI1	Bond Series 50-2B	December 16, 2013	8.73	December 16, 2028	91.39	[ICRA]AAA(stable)
INE733E07JJ9	Bond Series 50-3B	December 16, 2013	8.91	December 16, 2033	399.97	[ICRA]AAA(stable)

INE733E07Jk7	Bond Series 51-A	March 4, 2014	8.19	March 4, 2024	75.00	[ICRA]AAA(stable)
INE733E07JL5	Bond Series 51-B	March 4, 2014	8.63	March 4, 2029	105.00	[ICRA]AAA(stable)
INE733E07JM3	Bond Series 51-C	March 4, 2014	8.61	March 4, 2034	320.00	[ICRA]AAA(stable)
INE733E07JN1	Bond Series 52	March 24, 2014	9.34	March 24, 2024	750.00	[ICRA]AAA(stable)
INE733E07JO9	Bond Series 53	September 22, 2014	9.17	September 22, 2024	1000.00	[ICRA]AAA(stable)
INE733E07JP6	Bond Series 54	March 25, 2015	8.49	March 25, 2025	10306.83	[ICRA]AAA(stable)
INE733E07JQ4	Bond Series 55	August 21, 2015	7.15	August 21, 2025	300.00	[ICRA]AAA(stable)
INE733E07JR2	Bond Series 56-1A	October 5, 2015	7.11	October 5, 2025	108.38	[ICRA]AAA(stable)
INE733E07JS0	Bond Series 56-2A	October 5, 2015	7.28	October 5, 2030	129.05	[ICRA]AAA(stable)
INE733E07JT8	Bond Series 56-3A	October 5, 2015	7.37	October 5, 2035	182.58	[ICRA]AAA(stable)
INE733E07JU6	Bond Series 56-1B	October 5, 2015	7.36	October 5, 2025	65.96	[ICRA]AAA(stable)
INE733E07JV4	Bond Series 56-2B	October 5, 2015	7.53	October 5, 2030	48.30	[ICRA]AAA(stable)
INE733E07JW2	Bond Series 56-3B	October 5, 2015	7.62	October 5, 2035	165.74	[ICRA]AAA(stable)
INE733E07JX0	Bond Series 57	December 15, 2015	8.19	December 15, 2025	500.00	[ICRA]AAA(stable)
INE733E07JY8	Bond Series 58	December 31, 2015	8.18	December 31, 2020	300.00	[ICRA]AAA(stable)
INE733E07JZ5	Bond Series 59	February 24, 2016	8.33	February 24, 2021	655.00	[ICRA]AAA(stable)
INE733E07KA6	Bond Series 60	May 5, 2016	8.05	May 5, 2026	1000.00	[ICRA]AAA(stable)
INE733E07KB4	Bond Series 61-A	May 27, 2016	8.10	May 27, 2021	357.50	[ICRA]AAA(stable)
INE733E07KC2	Bond Series 61-B	May 27, 2016	8.10	May 27, 2026	357.50	[ICRA]AAA(stable)
INE733E07KD0	Bond Series 61-C	May 27, 2016	8.10	May 27, 2031	357.50	[ICRA]AAA(stable)
INE733E07KE8	Bond Series 62	August 23, 2016	7.58	August 23, 2026	800.00	[ICRA]AAA(stable)
INE733E07KF5	Bond Series 63	September 16, 2016	7.47	September 16, 2026	670.00	[ICRA]AAA(stable)
INE733E07KG3	Bond Series 64	November 7, 2016	7.49	November 7, 2031	700.00	[ICRA]AAA(stable)
INE733E07KH1	Bond Series 65	November 24, 2016	6.72	November 21, 2021	700.00	[ICRA]AAA(stable)
INE733E07KI9	Bond Series 66	December 14, 2016	7.37	December 14, 2031	3925.00	[ICRA]AAA(stable)
INE733E07KJ7	Bond Series 67	January 15, 2019	8.30	January 15, 2029	4000.00	[ICRA]AAA(stable)

Source: NTPC Limited

Annexure-2: List of entities considered for consolidated analysis: Not applicable

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About ICRA Limited:

ICRA Limited was set up in 1991 by leading financial/investment institutions, commercial banks and financial services companies as an independent and professional investment Information and Credit Rating Agency.

Today, ICRA and its subsidiaries together form the ICRA Group of Companies (Group ICRA). ICRA is a Public Limited Company, with its shares listed on the Bombay Stock Exchange and the National Stock Exchange. The international Credit Rating Agency Moody's Investors Service is ICRA's largest shareholder.

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