

June 16, 2023<sup>(Revised)</sup>

## Power Grid Corporation of India Limited: Ratings reaffirmed; rating amount enhanced

### Summary of rating action

Instrument*	Previous Rated Amount (Rs. crore)	Current Rated Amount (Rs. crore)	Rating Action
Long-term bond programme	63,012.37	63,012.37	[ICRA]AAA(Stable); reaffirmed
Long-term bond programme	1,200.63	-	[ICRA]AAA(Stable); reaffirmed and withdrawn
Long-term bond programme	2,588.00	-	[ICRA]AAA(Stable); reaffirmed and withdrawn
Long-term bond programme	-	6,000.00	[ICRA]AAA(Stable); assigned
Commercial paper/Short-term borrowing programme <sup>^</sup>	12,000.00	12,000.00	[ICRA]A1+; reaffirmed
Fund-based term loans	31,292.44	31,292.44	[ICRA]AAA(Stable); reaffirmed
Long-term unallocated limits	5,000.00	10,000.00	[ICRA]AAA(Stable); reaffirmed/assigned
Long term/short term fund based/non-fund based limits	5,700.00	7,200.00	[ICRA]AAA(Stable)/[ICRA]A1+; reaffirmed/assigned
<b>Total</b>	<b>120,793.44</b>	<b>129,504.81</b>	

\*Instrument details are provided in Annexure-1

<sup>^</sup>Aggregate borrowing under commercial paper and short-term borrowing programme capped at Rs. 12,000 crore.

### Rationale

ICRA has reaffirmed and withdrawn the long-term rating of [ICRA]AAA(Stable) assigned to the Rs. 1,200.63-crore bonds of Power Grid Corporation of India Limited (PGCIL) as there are no outstanding dues against the same. The redemption payments have been independently verified. ICRA also reaffirmed and withdrawn the long-term rating of [ICRA]AAA(Stable) assigned to the Rs. 2,588.00-crore bonds of PGCIL as the rated bonds have not been placed. The ratings have been withdrawn at the request of the company.

The rating reaffirmation of Power Grid India Corporation of India Limited (PGCIL) factors in the strategic role of Power Grid Corporation of India Limited (PGCIL) in the Indian power sector owing to its role as India's largest power transmission utility and its ownership and near monopoly in the inter-state transmission network, along with the low level of business risks in its core operations. The ratings also factor in the cost-plus transmission tariff structure for majority of the company's operational assets (~96% of the total gross block) and PGCIL's superior operating efficiency, indicated by the consistently high transmission line availability over the years.

The ratings also take into account the capital expenditure being incurred and the resulting capitalisation of transmission assets, which is expected to boost the company's revenues and cash flows, going forward. ICRA continues to take into consideration the majority shareholding and support from the Government of India (GoI) (guarantees extended for some of PGCIL's borrowing programmes) which enables the company to raise long-term funds at competitive rates. The ratings also note that majority of the company's transmission lines are a part of the inter-state transmission system (ISTS) network wherein the billing and collection is through a point of connection (PoC) mechanism and the licensee does not have direct exposure to a single discom. The Central Transmission Utility (CTU) receives the bills from all ISTS licensees and collects the payments from the counterparties (primarily state distribution utilities) that are part of the transmission service agreement (TSA). The timely collection by CTU from the state distribution utilities is ensured by a payment security mechanism which comprises a letter of credit for 1.05 times of monthly billing as per the terms of the TSA, regulation of power supply in case of non-payment of dues

and the option of invocation of a tripartite agreement among the RBI, Government of India and state governments. PGCIL's cash collections have been strong since 2003-04. ICRA believes that the collection efficiency will be sustained, going forward.

The ratings, however, are constrained by the counterparty credit risk associated with the exposure to state distribution utilities, majority of which have a weak to moderate financial profile. Timely issuance of tariff orders, adequate tariff hikes for reduction of revenue gaps, time-bound recovery of the regulatory assets and reduction of distribution loss levels, going forward, remain the imperatives for a sustained improvement in the health of the power distribution sector, reducing the counterparty credit risks for entities serving the power sector, including transmission companies such as PGCIL. The CTU's function has been separated from PGCIL and a new entity, Central Transmission Utility of India Ltd (a subsidiary of PGCIL), has been designated as the CTU from April 2021. This entity will eventually be owned directly by the GoI. ICRA will continue to monitor the developments in this regard.

The ratings consider the fact that new projects are awarded either on a nomination basis or through tariff-based competitive bidding. The returns for projects awarded through competitive bidding are lower than RTM projects, given the high competitive intensity, although the proportion of such assets as a percentage of the total gross block remains low. While PGCIL is exposed to project execution risks, this has reduced from the earlier years due to the relatively low capital expenditure planned for the coming years.

The Stable outlook on the [ICRA]AAA rating reflects ICRA's opinion that PGCIL will continue to benefit from the cost-plus nature of transmission tariff for majority of its assets, its satisfactory operational performance and the receipt of timely payments from its customers, primarily the state distribution utilities.

## Key rating drivers and their description

### Credit strengths

**Significant ownership of GoI and support extended by Government** - PGCIL is the largest transmission company in the country. The GoI held a 51.3% stake in PGCIL as on March 31, 2023, and the company is executing several strategically important projects assigned to it by the Government. The GoI has also extended its support to PGCIL in the form of guarantees for some of the loans availed by the company which enables the company to raise long-term funds at competitive rates.

**Large network of transmission assets with satisfactory operational performance** - As on March 31, 2023, the company owned transmission lines of 174,113 ckm and 272 sub-stations with a transformation capacity of 499,360 MVA on a consolidated basis (including subsidiaries). Overall, PGCIL owns 85% of the inter-regional capacity of the country as of March 2023. PGCIL has demonstrated consistently high system availability of above 99.8% in the last five years against the minimum target of 98%, as per CERC norms, ensuring the recovery of annual transmission charges and earning incentive for the availability being higher than the normative levels.

**Cost-plus tariff for majority assets ensures healthy return on equity** - The company generates stable revenues and cash flows as a significant portion (~ 95% of its revenues) of the transmission assets are commissioned under the cost-plus tariff norms set by the CERC for transmission projects. The components of the annual transmission charges include return on equity, tax on return on equity, interest on term loan, interest on working capital loan, operations and maintenance expenses and depreciation. The company needs to ensure network availability above the normative level of 98% to recover the annual transmission charges.

### Credit challenges

**Exposure to state distribution utilities with weak financial profiles** - The company is exposed to the weak financial profiles of its counterparties i.e. the state distribution utilities. However, the company has demonstrated satisfactory collection efficiency of 99.4% in FY2017, 98.7% in FY2018, 94.9% in FY2019, 100.0% in FY2020, 103.8% in FY2021, 97.9% in FY2022 and 98.8% in FY2023. Further, the availability of letter of credit amounting to 1.05 times of billing under the terms of the transmission service agreement, regulation of power supply and invocation of TPA in case of non-payment of dues mitigate the counterparty credit risk to some extent.

**Execution risk associated with under-construction projects** - While the company is exposed to execution risks for its under-construction projects, the quantum of the under-construction capacity is coming down and remains much smaller than the installed capacity base. The total capex incurred is ~3.4% of its total gross block reported as on March 31, 2023. Moreover, the execution risk is mitigated by superior execution capabilities and the long track record of executing transmission line projects.

## Environmental and Social Risks

**Environmental considerations:** PGCIL exhibits low environment risks as majority of its revenues are derived from the development and operation of transmission lines/networks which have low exposure towards the lack of availability of natural resources or risk of not meeting emission norms/reduction in carbon footprint.

**Social considerations:** PGCIL has moderate exposure to social risks arising from the right-of-way (ROW) requirement for setting up transmission lines/networks. However, it has adopted modern techniques viz. GIS / GPS, satellite imaging etc. to select the optimum route for executing the transmission lines to mitigate the risk to some extent.

## Liquidity position: Superior

The liquidity of the company is superior, supported by the regulated nature of operations (which allow for adequate recovery of fixed charges, including debt servicing requirements). This is supplemented by the satisfactory operational track record of the company, with line availability higher than the normative line availability for the recovery of transmission charges, evident in the availability of 99.8% in FY2023. The collection efficiency improved to ~98.8% in FY2023 from 97.9% in FY2022, which coupled with the presence of LC and tripartite agreement mitigate its counterparty risks to some extent. The cash generated from the operations and the available liquid cash and undrawn limits are expected to remain sufficient to meet the debt repayment obligations. The average undrawn working capital limits were Rs 5,763 crore in the last 12 months ended March 2023. The same is also supported by the company's superior financial flexibility due to its strong parentage and large asset base with stable cost-plus returns. The free cash and liquid investments of the company stood at ~Rs. 7,000.0 crore as on March 31, 2023.

## Rating sensitivities

**Positive factors** – Not Applicable

**Negative factors** – Pressure on PGCIL's ratings could arise if there is a change in ownership/or weakening of linkages with the Government of India. A significant build-up of receivables led by any adverse change in the tripartite agreement mechanism could also affect the ratings.

## Analytical approach

Analytical Approach	Comments
Applicable Rating Methodologies	<a href="#">Corporate Credit Rating Methodology</a> <a href="#">Impact of Parent or Group support on an Entity's Credit Rating</a> <a href="#">Policy on Withdrawal of Credit Ratings</a> <a href="#">Rating Methodology - Power Transmission</a>
Parent/Group Support	The rating derives strength from PGCIL's majority ownership by the Government of India (51.3% as on March 31, 2023) and its role in the power sector in India
Consolidation/Standalone	The rating is based on the consolidated financial statements of the company. Details in Annexure-2.

## About the company

Power Grid Corporation of India Limited is a Maharatna CPSU and India's largest electric power transmission company. The GoI holds 51.34% shares of the company as on March 31, 2023. PGCIL is also executing several strategically important projects assigned to the company by the Government of India on nomination basis. The GoI has provided guarantee for some of the loans raised by the company. As on March 31, 2023, PGCIL owned transmission lines of 174,113 ckm with 272 substations with a capacity of 499,360 MVA on a consolidated basis (including subsidiaries).

## Key financial indicators (audited)

PGCIL Consolidated*	FY2022	FY2023
Operating income (Rs. crore)	41,992	45,763
PAT (Rs. crore)	16,746	15,499
OPBDIT/OI (%)	88.1%	86.7%
PAT/OI (%)	39.9%	33.9%
Total outside liabilities/Tangible net worth (times)	2.3	2.0
Total debt/OPBDIT (times)	3.8	3.2
Interest coverage (times)	4.6	4.1

\*PAT: Profit after tax; OPBDIT: Operating profit before depreciation, interest, taxes and amortisation; Amount in Rs crore; PAT: Profit after tax; OPBDIT: Operating profit before depreciation, interest, taxes and amortisation

Note: Amount in Rs. crore; All calculations are as per ICRA Research

Source: Annual Reports and ICRA Research

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

## Any other information: None

## Rating history for past three years

	Instrument	Current rating (FY2024)			Chronology of rating history for the past 3 years						
		Type	Amount rated (Rs. crore)	Amount outstanding (Rs. crore)	Date & rating in FY2024		Date & rating in FY2023			Date & rating in FY2022	Date & rating in FY2021
					June 16, 2023	April 10, 2023	Jan 06, 2023	June 14, 2022	May 02, 2022	May 03, 2021	Apr 07, 2020
1	Long-term bond programme	Long Term	63,012.37	63,012.37*	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)
2	Long-term bond programme	Long Term	1,200.63	Nil	[ICRA]AAA (stable); reaffirmed and withdrawn	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)
4	Long-term bond programme	Long Term	2,588.00	Nil	[ICRA]AAA (stable); reaffirmed and withdrawn	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	-	-
5	Long-term bond programme	Long Term	6,000.00	-	[ICRA]AAA (stable)	-	-	-	-	-	-
3	Commercial paper/Short-term borrowing programme	Short Term	12,000.00^	-	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+	[ICRA]A1+
4	Fund-based term loans	Long Term	31,292.44	31,292.44**	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)
5	Long-term unallocated limits	Long Term	10,000.00	-	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)	[ICRA]AAA (stable)
6	Long term/short term fund based/non-fund-based limits	Long Term/Short term	7,200.00	-	[ICRA]AAA(Stable)/[ICRA]A1+	[ICRA]AAA(Stable)/[ICRA]A1+	[ICRA]AAA(Stable)/[ICRA]A1+	[ICRA]AAA(Stable)/[ICRA]A1+	[ICRA]AAA (stable)	[ICRA]AAA(Stable)/[ICRA]A1+	[ICRA]AAA(Stable)/[ICRA]A1+

\*As on May 31, 2023

\*\*As on March 31, 2023

^Aggregate borrowing under commercial paper and short-term borrowing programme capped at Rs. 12,000 crore.

## Complexity level of the rated instruments

Instrument	Complexity Indicator
Long-term bonds	Very Simple
Commercial paper/ Short-term borrowing programme	Simple
Fund-based term loans	Simple
Long term unallocated	Not Applicable
Long term/short term fund-based/ non-fund-based limits	Simple/Very Simple*

\* Complexity indicator for long term/short term fund-based limits is 'Simple' and for long-term/short-term non-fund-based limits is 'Very 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-1: Instrument details

ISIN No	Instrument Name	Date of Issuance	Coupon Rate (%)	Maturity	Amount Rated (Rs. crore)	Current Rating and Outlook
INE752E07FF5	BOND - XXVIII ISSUE	15-Dec-2008	9.33%	15-Dec-2023	200.00	[ICRA]AAA(Stable)
INE752E07FR0	BOND - XXIX ISSUE	12-Mar-2009	9.20%	12-Mar-2024	108.13	[ICRA]AAA(Stable)
INE752E07GC0	BOND - XXX ISSUE	29-Sep-2009	8.80%	29-Sep-2023	194.38	[ICRA]AAA(Stable)
INE752E07GD8	BOND - XXX ISSUE	29-Sep-2009	8.80%	29-Sep-2024	194.38	[ICRA]AAA(Stable)
INE752E07GO5	BOND - XXXI ISSUE	25-Feb-2010	8.90%	25-Feb-2024	170.63	[ICRA]AAA(Stable)
INE752E07GP2	BOND - XXXI ISSUE	25-Feb-2010	8.90%	25-Feb-2025	170.63	[ICRA]AAA(Stable)
INE752E07HA2	BOND - XXXII ISSUE	29-Mar-2010	8.84%	29-Mar-2024	86.25	[ICRA]AAA(Stable)
INE752E07HB0	BOND - XXXII ISSUE	29-Mar-2010	8.84%	29-Mar-2025	86.25	[ICRA]AAA(Stable)
INE752E07HL9	BOND - XXXIII ISSUE	08-Jul-2010	8.64%	08-Jul-2023	240.00	[ICRA]AAA(Stable)
INE752E07HM7	BOND - XXXIII ISSUE	08-Jul-2010	8.64%	08-Jul-2024	240.00	[ICRA]AAA(Stable)
INE752E07HN5	BOND - XXXIII ISSUE	08-Jul-2010	8.64%	08-Jul-2025	240.00	[ICRA]AAA(Stable)
INE752E07HX4	BOND - XXXIV ISSUE	21-Oct-2010	8.84%	21-Oct-2023	290.62	[ICRA]AAA(Stable)
INE752E07HY2	BOND - XXXIV ISSUE	21-Oct-2010	8.84%	21-Oct-2024	290.62	[ICRA]AAA(Stable)
INE752E07HZ9	BOND - XXXIV ISSUE	21-Oct-2010	8.84%	21-Oct-2025	290.62	[ICRA]AAA(Stable)
INE752E07IJ1	BOND - XXXV ISSUE	31-May-2011	9.64%	31-May-2024	163.12	[ICRA]AAA(Stable)
INE752E07IK9	BOND - XXXV ISSUE	31-May-2011	9.64%	31-May-2025	163.12	[ICRA]AAA(Stable)
INE752E07IL7	BOND - XXXV ISSUE	31-May-2011	9.64%	31-May-2026	163.12	[ICRA]AAA(Stable)
INE752E07IT0	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2023	206.00	[ICRA]AAA(Stable)
INE752E07IU8	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2024	206.00	[ICRA]AAA(Stable)
INE752E07IV6	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2025	206.00	[ICRA]AAA(Stable)
INE752E07IW4	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2026	206.00	[ICRA]AAA(Stable)
INE752E07IX2	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2027	206.00	[ICRA]AAA(Stable)
INE752E07IY0	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2028	206.00	[ICRA]AAA(Stable)
INE752E07IZ7	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2029	206.00	[ICRA]AAA(Stable)
INE752E07JA8	BOND - XXXVI ISSUE	29-Aug-2011	9.35%	29-Aug-2030	206.00	[ICRA]AAA(Stable)
INE752E07JJ9	BOND - XXXVII ISSUE	26-Dec-2011	9.25%	26-Dec-2023	166.25	[ICRA]AAA(Stable)
INE752E07JK7	BOND - XXXVII ISSUE	26-Dec-2011	9.25%	26-Dec-2024	166.25	[ICRA]AAA(Stable)
INE752E07JL5	BOND - XXXVII ISSUE	26-Dec-2011	9.25%	26-Dec-2025	166.25	[ICRA]AAA(Stable)
INE752E07JM3	BOND - XXXVII ISSUE	26-Dec-2011	9.25%	26-Dec-2026	166.25	[ICRA]AAA(Stable)
INE752E07JN1	BOND - XXXVIII ISSUE	09-Mar-2012	9.25%	09-Mar-2027	855.00	[ICRA]AAA(Stable)
INE752E07JO9	BOND - XXXIX ISSUE	29-Mar-2012	9.40%	29-Mar-2027	1,800.00	[ICRA]AAA(Stable)
INE752E07JW2	BOND - XL ISSUE	28-Jun-2012	9.30%	28-Jun-2023	333.13	[ICRA]AAA(Stable)
INE752E07JX0	BOND - XL ISSUE	28-Jun-2012	9.30%	28-Jun-2024	333.13	[ICRA]AAA(Stable)
INE752E07JY8	BOND - XL ISSUE	28-Jun-2012	9.30%	28-Jun-2025	333.13	[ICRA]AAA(Stable)
INE752E07JZ5	BOND - XL ISSUE	28-Jun-2012	9.30%	28-Jun-2026	333.13	[ICRA]AAA(Stable)
INE752E07KA6	BOND - XL ISSUE	28-Jun-2012	9.30%	28-Jun-2027	333.13	[ICRA]AAA(Stable)
INE752E07KI9	BOND - XLI ISSUE	19-Oct-2012	8.85%	19-Oct-2023	236.87	[ICRA]AAA(Stable)
INE752E07KJ7	BOND - XLI ISSUE	19-Oct-2012	8.85%	19-Oct-2024	236.87	[ICRA]AAA(Stable)
INE752E07KK5	BOND - XLI ISSUE	19-Oct-2012	8.85%	19-Oct-2025	236.87	[ICRA]AAA(Stable)
INE752E07KL3	BOND - XLI ISSUE	19-Oct-2012	8.85%	19-Oct-2026	236.87	[ICRA]AAA(Stable)
INE752E07KM1	BOND - XLI ISSUE	19-Oct-2012	8.85%	19-Oct-2027	236.87	[ICRA]AAA(Stable)
INE752E07KV2	BOND - XLIII ISSUE	20-May-2013	7.93%	20-May-2024	260.50	[ICRA]AAA(Stable)
INE752E07KW0	BOND - XLIII ISSUE	20-May-2013	7.93%	20-May-2025	260.50	[ICRA]AAA(Stable)
INE752E07KX8	BOND - XLIII ISSUE	20-May-2013	7.93%	20-May-2026	260.50	[ICRA]AAA(Stable)
INE752E07KY6	BOND - XLIII ISSUE	20-May-2013	7.93%	20-May-2027	260.50	[ICRA]AAA(Stable)
INE752E07KZ3	BOND - XLIII ISSUE	20-May-2013	7.93%	20-May-2028	260.50	[ICRA]AAA(Stable)



INE752E07LB2	BOND - XLIV ISSUE	15-Jul-2013	8.70%	15-Jul-2023	1,322.00	[ICRA]AAA(Stable)
INE752E07LC0	BOND - XLIV ISSUE	15-Jul-2013	8.70%	15-Jul-2028	1,322.00	[ICRA]AAA(Stable)
INE752E07LJ5	BOND - XLV ISSUE	28-Feb-2014	9.65%	28-Feb-2024	166.60	[ICRA]AAA(Stable)
INE752E07LK3	BOND - XLV ISSUE	28-Feb-2014	9.65%	28-Feb-2025	166.60	[ICRA]AAA(Stable)
INE752E07LL1	BOND - XLV ISSUE	28-Feb-2014	9.65%	28-Feb-2026	166.60	[ICRA]AAA(Stable)
INE752E07LM9	BOND - XLV ISSUE	28-Feb-2014	9.65%	28-Feb-2027	166.60	[ICRA]AAA(Stable)
INE752E07LN7	BOND - XLV ISSUE	28-Feb-2014	9.65%	28-Feb-2028	166.60	[ICRA]AAA(Stable)
INE752E07LO5	BOND - XLV ISSUE	28-Feb-2014	9.65%	28-Feb-2029	166.60	[ICRA]AAA(Stable)
INE752E07LQ0	BOND - XLVI ISSUE	04-Sep-2014	9.30%	04-Sep-2024	1,454.00	[ICRA]AAA(Stable)
INE752E07LR8	BOND - XLVI ISSUE	04-Sep-2014	9.30%	04-Sep-2029	1,454.00	[ICRA]AAA(Stable)
INE752E07LX6	BOND - XLVII ISSUE	20-Oct-2014	8.93%	20-Oct-2023	220.00	[ICRA]AAA(Stable)
INE752E07LY4	BOND - XLVII ISSUE	20-Oct-2014	8.93%	20-Oct-2024	220.00	[ICRA]AAA(Stable)
INE752E07LZ1	BOND - XLVII ISSUE	20-Oct-2014	8.93%	20-Oct-2025	220.00	[ICRA]AAA(Stable)
INE752E07MA2	BOND - XLVII ISSUE	20-Oct-2014	8.93%	20-Oct-2026	220.00	[ICRA]AAA(Stable)
INE752E07MB0	BOND - XLVII ISSUE	20-Oct-2014	8.93%	20-Oct-2027	220.00	[ICRA]AAA(Stable)
INE752E07MC8	BOND - XLVII ISSUE	20-Oct-2014	8.93%	20-Oct-2028	220.00	[ICRA]AAA(Stable)
INE752E07MD6	BOND - XLVII ISSUE	20-Oct-2014	8.93%	20-Oct-2029	220.00	[ICRA]AAA(Stable)
INE752E07MG9	BOND - XLVIII ISSUE	23-Jan-2015	8.20%	23-Jan-2025	645.00	[ICRA]AAA(Stable)
INE752E07MH7	BOND - XLVIII ISSUE	23-Jan-2015	8.20%	23-Jan-2030	645.00	[ICRA]AAA(Stable)
INE752E07MJ3	BOND - XLIX ISSUE	09-Mar-2015	8.15%	09-Mar-2025	435.00	[ICRA]AAA(Stable)
INE752E07MK1	BOND - XLIX ISSUE	09-Mar-2015	8.15%	09-Mar-2030	435.00	[ICRA]AAA(Stable)
INE752E07MQ8	BOND - L ISSUE	27-May-2015	8.40%	27-May-2024	244.00	[ICRA]AAA(Stable)
INE752E07MR6	BOND - L ISSUE	27-May-2015	8.40%	27-May-2025	244.00	[ICRA]AAA(Stable)
INE752E07MS4	BOND - L ISSUE	27-May-2015	8.40%	27-May-2026	244.00	[ICRA]AAA(Stable)
INE752E07MT2	BOND - L ISSUE	27-May-2015	8.40%	27-May-2027	244.00	[ICRA]AAA(Stable)
INE752E07MU0	BOND - L ISSUE	27-May-2015	8.40%	27-May-2028	244.00	[ICRA]AAA(Stable)
INE752E07MV8	BOND - L ISSUE	27-May-2015	8.40%	27-May-2029	244.00	[ICRA]AAA(Stable)
INE752E07MW6	BOND - L ISSUE	27-May-2015	8.40%	27-May-2030	244.00	[ICRA]AAA(Stable)
INE752E07NB8	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2023	250.00	[ICRA]AAA(Stable)
INE752E07NC6	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2024	250.00	[ICRA]AAA(Stable)
INE752E07ND4	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2025	250.00	[ICRA]AAA(Stable)
INE752E07NE2	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2026	250.00	[ICRA]AAA(Stable)
INE752E07NF9	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2027	250.00	[ICRA]AAA(Stable)
INE752E07NG7	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2028	250.00	[ICRA]AAA(Stable)
INE752E07NH5	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2029	250.00	[ICRA]AAA(Stable)
INE752E07NI3	BOND - LI ISSUE	14-Sep-2015	8.40%	14-Sep-2030	250.00	[ICRA]AAA(Stable)
INE752E07NK9	BOND - LII ISSUE	23-Dec-2015	8.32%	23-Dec-2025	466.00	[ICRA]AAA(Stable)
INE752E07NL7	BOND - LII ISSUE	23-Dec-2015	8.32%	23-Dec-2030	466.00	[ICRA]AAA(Stable)
INE752E07NQ6	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2024	333.00	[ICRA]AAA(Stable)
INE752E07NR4	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2025	333.00	[ICRA]AAA(Stable)
INE752E07NS2	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2026	333.00	[ICRA]AAA(Stable)
INE752E07NT0	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2027	333.00	[ICRA]AAA(Stable)
INE752E07NU8	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2028	333.00	[ICRA]AAA(Stable)
INE752E07NV6	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2029	333.00	[ICRA]AAA(Stable)
INE752E07NW4	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2030	333.00	[ICRA]AAA(Stable)
INE752E07NX2	BOND - LIII ISSUE	25-Apr-2016	8.13%	25-Apr-2031	333.00	[ICRA]AAA(Stable)
INE752E07NZ7	BOND - LIV ISSUE	15-Jul-2016	7.97%	15-Jul-2026	1,000.00	[ICRA]AAA(Stable)
INE752E07OA8	BOND - LIV ISSUE	15-Jul-2016	7.97%	15-Jul-2031	1,000.00	[ICRA]AAA(Stable)
INE752E07OB6	BOND - LV ISSUE	21-Sep-2016	7.55%	21-Sep-2031	1,240.00	[ICRA]AAA(Stable)
INE752E07OC4	BOND - LVI ISSUE	18-Oct-2016	7.36%	18-Oct-2026	1,065.00	[ICRA]AAA(Stable)



INE752E07OE0	BOND - LVIII ISSUE	09-Mar-2017	7.89%	09-Mar-2027	2,060.00	[ICRA]AAA(Stable)
INE752E07OF7	BOND – LIX ISSUE	19-Jun-2017	7.30%	19-Jun-2027	3,070.00	[ICRA]AAA(Stable)
INE752E07OG5	BOND – LX ISSUE	09-Aug-2017	7.20%	09-Aug-2027	3,060.00	[ICRA]AAA(Stable)
INE752E08502	BOND – LXI ISSUE	12-Dec-2017	7.74%	12-Dec-2028	600.00	[ICRA]AAA(Stable)
INE752E08510	BOND – LXI ISSUE	12-Dec-2017	7.74%	12-Dec-2029	600.00	[ICRA]AAA(Stable)
INE752E08528	BOND – LXI ISSUE	12-Dec-2017	7.74%	12-Dec-2030	600.00	[ICRA]AAA(Stable)
INE752E08536	BOND – LXI ISSUE	12-Dec-2017	7.74%	12-Dec-2031	600.00	[ICRA]AAA(Stable)
INE752E08544	BOND – LXI ISSUE	12-Dec-2017	7.74%	12-Dec-2032	600.00	[ICRA]AAA(Stable)
INE752E07OH3	BOND – LXII ISSUE	07-Jan-2019	8.36%	07-Jan-2029	2,000.00	[ICRA]AAA(Stable)
INE752E08551	GoI Fully serviced bonds	14-Feb-2019	8.24%	14-Feb-2029	3,487.50	[ICRA]AAA(Stable)
INE752E08569	BOND – LXIII ISSUE	15-Jul-2019	7.34%	15-Jul-2024	600.00	[ICRA]AAA(Stable)
INE752E08577	BOND – LXIII ISSUE	15-Jul-2019	7.34%	15-Jul-2029	600.00	[ICRA]AAA(Stable)
INE752E08585	BOND – LXIII ISSUE	15-Jul-2019	7.34%	15-Jul-2034	600.00	[ICRA]AAA(Stable)
INE752E08593	BOND – LXIV ISSUE	25-Oct-2019	7.49%	25-Oct-2024	756.00	[ICRA]AAA(Stable)
INE752E08601	BOND – LXIV ISSUE	25-Oct-2019	7.49%	25-Oct-2029	756.00	[ICRA]AAA(Stable)
INE752E08619	BOND – LXIV ISSUE	25-Oct-2019	7.49%	25-Oct-2034	1,008.00	[ICRA]AAA(Stable)
INE752E08635	BOND – LXVI ISSUE	08-Jan-2020	7.38%	12-Apr-2030	500.00	[ICRA]AAA(Stable)
INE752E08643	BOND – LXVII ISSUE	15-Apr-2020	6.85%	15-Apr-2025	2,800.00	[ICRA]AAA(Stable)
INE752E08650	BOND – LXVIII ISSUE	05-Aug-2020	6.28%	11-Apr-2031	500.00	[ICRA]AAA(Stable)
INE752E08668	BOND – LXIX ISSUE	25-Mar-2022	6.05%	25-Mar-2027	529.90	[ICRA]AAA(Stable)
INE752E08676	BOND – LXX ISSUE	17-Feb-2023	7.40%	17-Feb-2033	2,120.00	[ICRA]AAA(Stable)
INE752E08684	BOND – LXXI ISSUE	23-Mar-2023	7.52%	23-Mar-2033	867.00	[ICRA]AAA(Stable)
INE752E08694	BOND – LXXII ISSUE	31-Mar-2023	7.56%	31-Mar-2033	425.00	[ICRA]AAA(Stable)
NA	Bonds proposed	-	-	-	6000.00	[ICRA]AAA(Stable)
INE752E07II3	Bond - XXXV issue	31-May-11	9.64%	31-May-23	163.13	[ICRA]AAA(Stable) – withdrawn
INE752E07KU4	Bond - XLIII issue	20-May-13	7.93%	20-May-23	260.50	[ICRA]AAA(Stable) – withdrawn
INE752E07MP0	Bond - L issue	27-May-15	8.40%	27-May-23	244.00	[ICRA]AAA(Stable) – withdrawn
INE752E07NP8	Bond - LIII issue	25-Apr-16	8.13%	25-Apr-23	333.00	[ICRA]AAA(Stable) – withdrawn
INE752E08627	Bond- LXV issue	8-Jan-20	6.35%	14-Apr-23	200.00	[ICRA]AAA(Stable) – withdrawn
NA	Bonds proposed	-	-	-	2588.00	[ICRA]AAA(Stable) – withdrawn
NA	Short-term borrowing/ Commercial Paper – Unplaced <sup>^</sup>	-	-	-	12,000.00	[ICRA]A1+
NA	Term loan I	FY2012	3M MCLR	FY2027	1821.35	[ICRA]AAA(Stable)
NA	Term loan II	FY2014	3M MCLR	FY2029	5999.66	[ICRA]AAA(Stable)
NA	Term loan III	FY2018	3M MCLR	FY2033	4242.92	[ICRA]AAA(Stable)
NA	Term loan IV	FY2019	3M MCLR	FY2034	7081.57	[ICRA]AAA(Stable)
NA	Term loan V	FY2017	REPO+195bps	FY2032	2700.00	[ICRA]AAA(Stable)
NA	Term loan VI	FY2021	REPO+195bps	FY2036	2473.94	[ICRA]AAA(Stable)
NA	Term loan VII	FY2023	REPO+185bps	FY2035	3621.00	[ICRA]AAA(Stable)
NA	Term loan – undrawn	-	-	-	3352.00	[ICRA]AAA(Stable)
NA	Long term – unallocated limits	-	-	-	10000.00	[ICRA]AAA(Stable)
NA	Long term/ short term fund based/ non fund based limits <sup>^^</sup>	-	-	-	7200.00	[ICRA]AAA(Stable)/ [ICRA]A1+

<sup>^</sup>Aggregate borrowing under commercial paper and short term borrowing programme capped at Rs 12,000 crore.

<sup>^^</sup>Rs 7,200 crore limits comprises Rs 4500 crore cash credit, Rs 1100 crore bank guarantee limits and Rs 1600 crore letter of credit limits which are interchangeable

List of outstanding ISIN is as on May 31, 2023

Source: Company

[Please click here to view details of lender-wise facilities rated by ICRA](#)

## Annexure-2: List of entities considered for consolidated analysis

Company Name	PGCIL Ownership	Consolidation Approach
Power Grid Corporation of India Limited	100.00% (rated entity)	Full Consolidation
Badhla Sikar Transmission Limited	100.00%	Full Consolidation
Dharamjaigarh Transmission Limited	100.00%	Full Consolidation
Raipur Pool Dhamtari Transmission Limited	100.00%	Full Consolidation
Powergrid ERWR Power Transmission Limited	100.00%	Full Consolidation
Powergrid KPS2 Transmission Limited	100.00%	Full Consolidation
Powergrid KPS3 Transmission Limited	100.00%	Full Consolidation
Khavda II-C Transmission Limited	100.00%	Full Consolidation
Khavda II-B Transmission Limited	100.00%	Full Consolidation
Khavda RE Transmission Limited	100.00%	Full Consolidation
Powergrid NM Transmission Limited	100.00%	Full Consolidation
Powergrid Unchahar Transmission Limited	100.00%	Full Consolidation
Powergrid Southern Interconnector Transmission System Limited	100.00%	Full Consolidation
Powergrid Vemagiri Transmission Limited	100.00%	Full Consolidation
Powergrid Medinipur Jeerat Transmission Limited	100.00%	Full Consolidation
Powergrid Mithilanchal Transmission Limited	100.00%	Full Consolidation
POWERGRID Varanasi Transmission System Limited	100.00%	Full Consolidation
Powergrid Jawaharpur Firozabad Transmission Limited	100.00%	Full Consolidation
Powergrid Khetri Transmission System Limited	100.00%	Full Consolidation
Powergrid Bhuj Transmission Limited	100.00%	Full Consolidation
Powergrid Bhind Guna Transmission Limited	100.00%	Full Consolidation
Powergrid Ajmer Phagi Transmission Limited	100.00%	Full Consolidation
Powergrid Fatehgarh Transmission Limited	100.00%	Full Consolidation
Powergrid Rampur Sambhal Transmission Limited	100.00%	Full Consolidation
Powergrid Meerut Simbhavali Transmission Limited	100.00%	Full Consolidation
Central Transmission Utility of India Limited	100.00%	Full Consolidation
Powergrid Ramgarh Transmission Limited	100.00%	Full Consolidation
Powergrid Himachal Transmission Limited	100.00%	Full Consolidation
Powergrid Bikaner Transmission Limited	100.00%	Full Consolidation
Powergrid Sikar Transmission Limited	100.00%	Full Consolidation
Powergrid Bhadla Transmission Limited	100.00%	Full Consolidation
Powergrid Aligarh Sikar Transmission Limited	100.00%	Full Consolidation
Powergrid Teleservices Limited	100.00%	Full Consolidation
Powergrid Energy Services Limited	100.00%	Full Consolidation
Powergrid Narela Transmission Limited	100.00%	Full Consolidation
Powergrid Gomti Yamuna Transmission Limited	100.00%	Full Consolidation
Powergrid Neemuch Transmission Limited	100.00%	Full Consolidation
Powergrid ER NER Transmssion Limited	100.00%	Full Consolidation
Powerlinks Transmission Limited	49%	Equity Method
Torrent Powergrid Limited	26%	Equity Method
Parbati Koldam Transmission Company Limited	26%	Equity Method
Teestavalley Power Transmission Limited	30.92%	Equity Method
North East Transmission Company Limited	26%	Equity Method
National High Power Test Laboratory Limited	20%	Equity Method
Bihar Grid Company Limited	50%	Equity Method

Company Name	PGCIL Ownership	Consolidation Approach
Cross Border Power Transmission Company Limited	26%	Equity Method
RINL Powergrid TLT Private Limited	50%	Equity Method
Energy Efficiency Services Limited	33.33%	Equity Method
Butwal-Gorakhpur Cross Border Power Transmission Limited	50%	Equity Method
Power Transmission Company Nepal Limited	26%	Equity Method

**Source:** Company

**Note:** ICRA has taken a consolidated view of the parent (PGCIL), its subsidiaries and Joint Ventures while assigning the ratings.

## Corrigendum

**Document dated June 16, 2023 has been corrected with revision as detailed below -**

- In Annexure-1 on Page-9, the instrument detail has been updated.

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