

September 27, 2019

## Power Grid Corporation of India Limited: Ratings assigned for enhanced amount

### Summary of rating action

| Instrument*                                           | Previous Rated Amount<br>(Rs. crore) | Current Rated Amount<br>(Rs. crore) | Rating Action                      |
|-------------------------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| Long term bonds programme                             | 1,16,422.95                          | 1,16,422.95                         | [ICRA]AAA(stable);<br>outstanding  |
| Commercial Paper                                      | 6,000.00                             | 6,000.00                            | [ICRA]A1+; outstanding             |
| Short term borrowing programme                        | 6,000.00                             | 6,000.00                            | [ICRA]A1+; outstanding             |
| Working capital loan                                  | 300.00                               | 0.00                                |                                    |
| Long term loans                                       | 45,356.22                            | 45,356.22                           | [ICRA]AAA(stable);<br>outstanding  |
| Short term non-fund based limits                      | 2200.00                              | 0.00                                |                                    |
| Long term/Short Term Fund based/Non-fund based limits | 0.00                                 | 5,700.00                            | [ICRA]AAA(stable)/A1+;<br>assigned |
| <b>Total</b>                                          | <b>1,76,279.17</b>                   | <b>1,79,479.17</b>                  |                                    |

\*Instrument details are provided in Annexure-1

### Rationale

The rating reflects the strategic role of Power Grid Corporation of India Limited in the Indian power sector by way of development of inter-state transmission network, low level of business risks in its core operations given the near monopoly in inter-state transmission and the cost plus transmission tariff structure for majority of its operational assets and superior operating efficiency as indicated by availability factor of 99.79% for its transmission network in FY2017, 99.81% in FY2018, 99.71% in FY2019 and 99.77% in Q1 FY2020. In FY2019, the company incurred a capital expenditure of Rs 25,807 crore on consolidated basis (Rs. 25,791 crore in FY2018) while capitalization of transmission assets stood at Rs 25,869 crore in FY2019 (Rs. 27,928 crore in FY2018). In Q1 FY2020, the company incurred capital expenditure of Rs 2,909 crore while capitalization of transmission assets stood at Rs 1,466 crore on consolidated basis which is expected to boost the company's revenues and cash flows going forward.

ICRA continues to take into consideration the support from Government of India in the form of guarantees to PGCIL for some of its borrowing programmes to raise long-term funds at competitive rates. The timely collection from state distribution utilities is ensured by presence of letter of credit for one month of billing as per terms of Transmission Service Agreement and presence of tripartite agreement between RBI, Government of India and state governments. The tripartite agreement earlier valid till October 2016 has been extended by 29 states (as on June 30, 2019) while signing of extension is in progress for other states. PGCIL's cash collections have continued to remain strong since 2003-04 as a result of tripartite agreement for settlement of SEB dues and the resultant payment discipline. This is also reflected in its collection efficiency of 99.4% in FY 2017 and 98.7% in FY2018 although the same declined to 94.9% in FY2019 and 91.2% in Q1 FY2020 due to delay in payments from state distribution utilities.

Nevertheless, sustainability of the collection performance, going forward, remains an issue if sectoral reforms do not result in a fundamental improvement in the financial position of the state power utilities. In this context, ICRA notes that state governments issued bonds worth Rs 2.32 lakh crore as part of UDAY scheme which improved the financial position of state distribution utilities. However, timely issuance of tariff orders, adequate tariff hikes for reduction of revenue gaps and time-bound recovery of the regulatory assets and reduction of distribution loss levels going forward remains

imperative for improvement in the financial health of the power distribution sector, thereby reducing counter party credit risks of entities serving the power sector, including transmission companies such as PGCIL.

ICRA notes that new projects are awarded either on nomination basis or through tariff based competitive bidding. The projects awarded through competitive bidding process shall not have cost overruns as pass-through in tariffs, thus resulting in increased business risks in the core business, although the proportion of such assets as a percentage of total gross block is expected to remain low in the near foreseeable future. PGCIL is expected to incur significant capital expenditure in coming years although lower than past trends, which exposes the company to significant project execution risks. Furthermore, sizeable debt remains to be raised for funding the aforementioned capex which exposes the company to funding risks and will also result in high gearing in the medium term. While PGCIL's debt service coverage indicators are relatively modest for the assigned rating levels, its strategic position in the Indian power sector, low business risks, sovereign ownership and strong operational efficiency are significant positives from the credit perspective.

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 of majority of its assets, the satisfactory operational performance and timely payments from customers (primarily state distribution utilities).

## Key rating drivers and their description

### Credit strengths

**Significant government ownership and support extended by government-** PGCIL is India's Central Transmission Utility and the largest transmission company in the country. Government of India holding 55.37% shares in PGCIL as on June 30, 2019. PGCIL is also executing several strategically important projects assigned by Government of India. The government has extended support in the form of guarantees for some of the loans availed by the company.

**Large network of transmission assets with satisfactory operational performance-** As on June 30, 2019, the company owned transmission lines of 158,858 ckm and 246 substations with capacity of 375,142 MVA including subsidiaries. PGCIL demonstrated system availability of 99.79% in FY2017, 99.81% in FY2018, 99.71% in FY2019 and 99.77% in Q1 FY2020 as against minimum target of 98% as per CERC norms, thereby ensuring recovery of annual transmission charges and also earning incentive for availability being higher than normative level

**Cost plus nature of tariff for majority of assets ensures healthy return on equity, CERC tariff norms for FY2020-24 are neutral for the company-** The company generates stable revenue and cash flows on account of significant portion of transmission assets being commissioned under cost-plus tariff norms by CERC for transmission projects. The company needs to ensure network availability above the normative level in order to recover annual transmission charges which includes return on equity, tax on return on equity, interest on term loan, interest on working capital loan, operation and maintenance expenses and depreciation. The CERC tariff norms for FY2020-24 notified on March 07, 2019 are largely in line with tariff norms for FY2014-19 including return on equity of 15.5% (pre-tax), normative debt equity ratio of 70:30, normative operation and maintenance expenses and escalation rate at 3.5% higher than FY2014-19 which is a positive.

### Credit challenges

**Exposure to state distribution utilities which have relatively weak financial profile-** The rating of the company is constrained by the weak financial profile of the counter parties i.e. state distribution utilities. The company has demonstrated satisfactory collection efficiency of 99.4% in FY2017 and 98.7% in FY2018 although the same declined to

94.9% in FY2019 and 91.2% in Q1 FY2020 on account of delay in payments from state distribution utilities. The tripartite mechanism for payment security between RBI, Government of India and State Governments for recovery of dues in case of delay in payments from state distribution utilities which was valid till October 2016 has been extended by 29 states as on June 30, 2019 while signing is in progress with other states. The presence of tripartite agreement apart from letter of credit amounting to one month billing as per terms of Transmission Service Agreement mitigates counter party credit risk to some extent

### Liquidity position: Strong

PGCIL's liquidity is **strong** with satisfactory operational performance and cost plus nature of transmission charges with recovery of transmission charges linked to line availability and not actual flow of power. The operational track record of the company is satisfactory in FY2019 and Q1 FY2020 as evident from the line availability of 99.71% and 99.77% respectively which is higher than normative line availability for recovery of transmission charges. The company is expected to demonstrate satisfactory operational performance in near future as well. The capitalization of transmission assets by the company stood at Rs 25,869 crore in FY2019 and Rs 1,466 crore in Q1 FY2020 which is expected to boost the company's revenues and cash flows going forward subject to satisfactory operational performance. On consolidated basis, the debtors increased to Rs 5,793 crore as on June 30, 2019 as against Rs 4,728 crore as on March 31, 2019 on account of higher transmission income in Q1 FY2020 and delay in payments from state distribution utilities. However, presence of LC and tripartite agreement mitigates counter party credit risk to some extent. The company has long term debt repayment of Rs 10,747 crore in FY2020. The cash flows are expected to be sufficient to meet the debt servicing obligations in near term.

### Rating sensitivities

**Positive triggers** – Not Applicable.

**Negative triggers** – Significant delay in payment from state distribution utilities which persists for a long period of time

### Analytical approach

| Analytical Approach             | Comments                                                                                                                                                  |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicable Rating Methodologies | <a href="#">Corporate Credit Rating Methodology</a><br><a href="#">Rating Methodology for Power Transmission Companies</a>                                |
| Parent/Group Support            | The rating derives strength from PGCIL's majority ownership by the Government of India (55.37% as on June 30, 2019) and its role in power sector in India |
| Consolidation/Standalone        | The rating is based on consolidated financial statements of the company                                                                                   |

### About the company

Power Grid Corporation of India Limited (PGCIL) is India's central transmission utility and the largest electric power transmission commission in the country. As on June 30, 2019, PGCIL owned transmission lines of 158,858 ckm and 246 substations with capacity of 375,142 MVA including subsidiaries.

In FY2019, the company reported a net profit of Rs 10,034 crore on an operating income of Rs 35,059 crore as against net profit of Rs 8,204 crore on an operating income of Rs 29,954 crore in FY2018 on consolidated basis.

### Key financial indicators- Consolidated (audited)

|                                                      | FY2018 | FY2019 |
|------------------------------------------------------|--------|--------|
| Operating Income (Rs. crore)                         | 29,954 | 35,059 |
| PAT (Rs. crore)                                      | 8,204  | 10,034 |
| OPBDIT/OI (%)                                        | 87.8%  | 86.9%  |
| RoCE (%)                                             | 14.4%  | 10.7%  |
| Total Outside Liabilities/Tangible Net Worth (times) | 3.14   | 3.19   |
| Total Debt/OPBDIT (times)                            | 5.00   | 4.80   |
| Interest Coverage (times)                            | 3.59   | 3.49   |
| DSCR                                                 | 1.81   | 1.71   |

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

**Any other information: None**

### Rating history for past three years

|   | Rating (FY2020)                |            |              |                                        |                   |                   |                   | Rating History for the Past 3 Years |                   |                   |                   |                   |
|---|--------------------------------|------------|--------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------------|-------------------|-------------------|-------------------|-------------------|
|   | Instrument                     | Type       | Amount Rated | Current Rating                         |                   | Earlier Rating    |                   | FY2019                              | FY2018            |                   | FY2017            |                   |
|   |                                |            |              | Amount Outstanding as on June 30, 2019 | 27-Sep-2019       | 03-Jul-2019       | 09-May-2019       | 05-Apr-2018                         | 25-Apr-2017       | 07-Apr-2017       | 30-May-2016       | 28-Apr-2016       |
| 1 | Long term bonds                | Long Term  | 116,422.95   | <b>76,926.50</b>                       | [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 | Commercial Paper               | Short Term | 6000.00      | -                                      | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+                           | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         |
| 3 | Short term borrowing programme | Short Term | 6000.00      | -                                      | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+                           | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         |
| 4 | Long term loans                | Long Term  | 45,356.22    | <b>26,860.40</b>                       | [ICRA]AAA(stable) | [ICRA]AAA(stable) | [ICRA]AAA(stable) | [ICRA]AAA(stable)                   | [ICRA]AAA(stable) | [ICRA]AAA(stable) | [ICRA]AAA(stable) | [ICRA]AAA(stable) |
| 5 | Working capital loan           | Long Term  | -            | -                                      | -                 | [ICRA]AAA(stable) | [ICRA]AAA(stable) | [ICRA]AAA(stable)                   | [ICRA]AAA(stable) | [ICRA]AAA(stable) | [ICRA]AAA(stable) | [ICRA]AAA(stable) |
| 6 | Short term non                 | Short Term | -            | -                                      | -                 | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+                           | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         | [ICRA]A1+         |

|   | fund based limits                                        |                       |           |   |                       |  |  |  |                       |                       |                       |                       |
|---|----------------------------------------------------------|-----------------------|-----------|---|-----------------------|--|--|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 7 | Long term/ short term fund based/ non fund based limits* | Long term/ Short Term | 5,700 .00 | - | [ICRA]AAA(stable)/A1+ |  |  |  | [ICRA]AAA(stable)/A1+ | [ICRA]AAA(stable)/A1+ | [ICRA]AAA(stable)/A1+ | [ICRA]AAA(stable)/A1+ |

Amount in Rs. Crore

\*Long term/short term fund based/ non fund based limits comprise of Rs 3000.00 crore of cash credit (fund based limits), Rs 1100.00 crore bank guarantee and Rs 1600.00 crore letter of credit. The limits are inter-changeable

### 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](http://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 |
|--------------|---------------------|-----------------------------|-------------|---------------|--------------------------|----------------------------|
| INE752E07AO8 | BOND - XVIII ISSUE  | 9-Mar-06                    | 8.15%       | 9-Mar-20      | 83.25                    | [ICRA]AAA (stable)         |
| INE752E07AP5 | BOND - XVIII ISSUE  | 9-Mar-06                    | 8.15%       | 9-Mar-21      | 83.25                    | [ICRA]AAA (stable)         |
| INE752E07AZ4 | BOND - XIX ISSUE    | 24-Jul-06                   | 9.25%       | 24-Jul-19     | 41.25                    | [ICRA]AAA (stable)         |
| INE752E07BA5 | BOND - XIX ISSUE    | 24-Jul-06                   | 9.25%       | 24-Jul-20     | 41.25                    | [ICRA]AAA (stable)         |
| INE752E07BB3 | BOND - XIX ISSUE    | 24-Jul-06                   | 9.25%       | 24-Jul-21     | 41.25                    | [ICRA]AAA (stable)         |
| INE752E07BM0 | BOND - XX ISSUE     | 7-Sep-06                    | 8.93%       | 7-Sep-19      | 125                      | [ICRA]AAA (stable)         |
| INE752E07BN8 | BOND - XX ISSUE     | 7-Sep-06                    | 8.93%       | 7-Sep-20      | 125                      | [ICRA]AAA (stable)         |
| INE752E07BC1 | BOND - XX ISSUE     | 7-Sep-06                    | 8.93%       | 7-Sep-21      | 125                      | [ICRA]AAA (stable)         |
| INE752E07BX7 | BOND - XXI ISSUE    | 11-Oct-06                   | 8.73%       | 11-Oct-19     | 42.5                     | [ICRA]AAA (stable)         |
| INE752E07BY5 | BOND - XXI ISSUE    | 11-Oct-06                   | 8.73%       | 11-Oct-20     | 42.5                     | [ICRA]AAA (stable)         |
| INE752E07BZ2 | BOND - XXI ISSUE    | 11-Oct-06                   | 8.73%       | 11-Oct-21     | 42.5                     | [ICRA]AAA (stable)         |
| INE752E07CJ4 | BOND - XXII ISSUE   | 7-Dec-06                    | 8.68%       | 7-Dec-19      | 57.5                     | [ICRA]AAA (stable)         |
| INE752E07CK2 | BOND - XXII ISSUE   | 7-Dec-06                    | 8.68%       | 7-Dec-20      | 57.5                     | [ICRA]AAA (stable)         |
| INE752E07CL0 | BOND - XXII ISSUE   | 7-Dec-06                    | 8.68%       | 7-Dec-21      | 57.5                     | [ICRA]AAA (stable)         |
| INE752E07CV9 | BOND - XXIII ISSUE  | 9-Feb-07                    | 9.25%       | 9-Feb-20      | 25.625                   | [ICRA]AAA (stable)         |
| INE752E07CW7 | BOND - XXIII ISSUE  | 9-Feb-07                    | 9.25%       | 9-Feb-21      | 25.625                   | [ICRA]AAA (stable)         |
| INE752E07CX5 | BOND - XXIII ISSUE  | 9-Feb-07                    | 9.25%       | 9-Feb-22      | 25.625                   | [ICRA]AAA (stable)         |
| INE752E07DH6 | BOND - XXIV ISSUE   | 26-Mar-07                   | 9.95%       | 26-Mar-20     | 66.625                   | [ICRA]AAA (stable)         |
| INE752E07DI4 | BOND - XXIV ISSUE   | 26-Mar-07                   | 9.95%       | 26-Mar-21     | 66.625                   | [ICRA]AAA (stable)         |
| INE752E07DJ2 | BOND - XXIV ISSUE   | 26-Mar-07                   | 9.95%       | 26-Mar-22     | 66.625                   | [ICRA]AAA (stable)         |
| INE752E07DT1 | BOND - XXV ISSUE    | 12-Jun-07                   | 10.10%      | 12-Jun-20     | 88.75                    | [ICRA]AAA (stable)         |
| INE752E07DU9 | BOND - XXV ISSUE    | 12-Jun-07                   | 10.10%      | 12-Jun-21     | 88.75                    | [ICRA]AAA (stable)         |
| INE752E07DV7 | BOND - XXV ISSUE    | 12-Jun-07                   | 10.10%      | 12-Jun-22     | 88.75                    | [ICRA]AAA (stable)         |
| INE752E07EE1 | BOND - XXVI ISSUE   | 7-Mar-08                    | 9.30%       | 7-Mar-20      | 83.25                    | [ICRA]AAA (stable)         |
| INE752E07EF8 | BOND - XXVI ISSUE   | 7-Mar-08                    | 9.30%       | 7-Mar-21      | 83.25                    | [ICRA]AAA (stable)         |
| INE752E07EG6 | BOND - XXVI ISSUE   | 7-Mar-08                    | 9.30%       | 7-Mar-22      | 83.25                    | [ICRA]AAA (stable)         |
| INE752E07EH4 | BOND - XXVI ISSUE   | 7-Mar-08                    | 9.30%       | 7-Mar-23      | 83.25                    | [ICRA]AAA (stable)         |
| INE752E07EQ5 | BOND - XXVII ISSUE  | 31-Mar-08                   | 9.47%       | 31-Mar-20     | 58.75                    | [ICRA]AAA (stable)         |
| INE752E07ER3 | BOND - XXVII ISSUE  | 31-Mar-08                   | 9.47%       | 31-Mar-21     | 58.75                    | [ICRA]AAA (stable)         |
| INE752E07ES1 | BOND - XXVII ISSUE  | 31-Mar-08                   | 9.47%       | 31-Mar-22     | 58.75                    | [ICRA]AAA (stable)         |
| INE752E07ET9 | BOND - XXVII ISSUE  | 31-Mar-08                   | 9.47%       | 31-Mar-23     | 58.75                    | [ICRA]AAA (stable)         |
| INE752E07FB4 | BOND - XXVIII ISSUE | 15-Dec-08                   | 9.33%       | 15-Dec-19     | 200                      | [ICRA]AAA (stable)         |
| INE752E07FC2 | BOND - XXVIII ISSUE | 15-Dec-08                   | 9.33%       | 15-Dec-20     | 200                      | [ICRA]AAA (stable)         |
| INE752E07FD0 | BOND - XXVIII ISSUE | 15-Dec-08                   | 9.33%       | 15-Dec-21     | 200                      | [ICRA]AAA (stable)         |
| INE752E07FE8 | BOND - XXVIII ISSUE | 15-Dec-08                   | 9.33%       | 15-Dec-22     | 200                      | [ICRA]AAA (stable)         |
| INE752E07FF5 | BOND - XXVIII ISSUE | 15-Dec-08                   | 9.33%       | 15-Dec-23     | 200                      | [ICRA]AAA (stable)         |

|              |                        |           |       |           |         |                    |
|--------------|------------------------|-----------|-------|-----------|---------|--------------------|
| INE752E07FN9 | BOND - XXIX ISSUE      | 12-Mar-09 | 9.20% | 12-Mar-20 | 108.125 | [ICRA]AAA (stable) |
| INE752E07FO7 | BOND - XXIX ISSUE      | 12-Mar-09 | 9.20% | 12-Mar-21 | 108.125 | [ICRA]AAA (stable) |
| INE752E07FP4 | BOND - XXIX ISSUE      | 12-Mar-09 | 9.20% | 12-Mar-22 | 108.125 | [ICRA]AAA (stable) |
| INE752E07FQ2 | BOND - XXIX ISSUE      | 12-Mar-09 | 9.20% | 12-Mar-23 | 108.125 | [ICRA]AAA (stable) |
| INE752E07FR0 | BOND - XXIX ISSUE      | 12-Mar-09 | 9.20% | 12-Mar-24 | 108.125 | [ICRA]AAA (stable) |
| INE752E07FY6 | BOND - XXX ISSUE       | 29-Sep-09 | 8.80% | 29-Sep-19 | 194.375 | [ICRA]AAA (stable) |
| INE752E07FZ3 | BOND - XXX ISSUE       | 29-Sep-09 | 8.80% | 29-Sep-20 | 194.375 | [ICRA]AAA (stable) |
| INE752E07GA4 | BOND - XXX ISSUE       | 29-Sep-09 | 8.80% | 29-Sep-21 | 194.375 | [ICRA]AAA (stable) |
| INE752E07GB2 | BOND - XXX ISSUE       | 29-Sep-09 | 8.80% | 29-Sep-22 | 194.375 | [ICRA]AAA (stable) |
| INE752E07GC0 | BOND - XXX ISSUE       | 29-Sep-09 | 8.80% | 29-Sep-23 | 194.375 | [ICRA]AAA (stable) |
| INE752E07GD8 | BOND - XXX ISSUE       | 29-Sep-09 | 8.80% | 29-Sep-24 | 194.375 | [ICRA]AAA (stable) |
| INE752E07GK3 | BOND - XXXI ISSUE      | 25-Feb-10 | 8.90% | 25-Feb-20 | 170.625 | [ICRA]AAA (stable) |
| INE752E07GL1 | BOND - XXXI ISSUE      | 25-Feb-10 | 8.90% | 25-Feb-21 | 170.625 | [ICRA]AAA (stable) |
| INE752E07GM9 | BOND - XXXI ISSUE      | 25-Feb-10 | 8.90% | 25-Feb-22 | 170.625 | [ICRA]AAA (stable) |
| INE752E07GN7 | BOND - XXXI ISSUE      | 25-Feb-10 | 8.90% | 25-Feb-23 | 170.625 | [ICRA]AAA (stable) |
| INE752E07GO5 | BOND - XXXI ISSUE      | 25-Feb-10 | 8.90% | 25-Feb-24 | 170.625 | [ICRA]AAA (stable) |
| INE752E07GP2 | BOND - XXXI ISSUE      | 25-Feb-10 | 8.90% | 25-Feb-25 | 170.625 | [ICRA]AAA (stable) |
| INE752E07GW8 | BOND - XXXII ISSUE     | 29-Mar-10 | 8.84% | 29-Mar-20 | 86.25   | [ICRA]AAA (stable) |
| INE752E07GX6 | BOND - XXXII ISSUE     | 29-Mar-10 | 8.84% | 29-Mar-21 | 86.25   | [ICRA]AAA (stable) |
| INE752E07GY4 | BOND - XXXII ISSUE     | 29-Mar-10 | 8.84% | 29-Mar-22 | 86.25   | [ICRA]AAA (stable) |
| INE752E07GZ1 | BOND - XXXII ISSUE     | 29-Mar-10 | 8.84% | 29-Mar-23 | 86.25   | [ICRA]AAA (stable) |
| INE752E07HA2 | BOND - XXXII ISSUE     | 29-Mar-10 | 8.84% | 29-Mar-24 | 86.25   | [ICRA]AAA (stable) |
| INE752E07HB0 | BOND - XXXII ISSUE     | 29-Mar-10 | 8.84% | 29-Mar-25 | 86.25   | [ICRA]AAA (stable) |
| INE752E07HH7 | BOND - XXXIII<br>ISSUE | 8-Jul-10  | 8.64% | 8-Jul-19  | 240     | [ICRA]AAA (stable) |
| INE752E07HI5 | BOND - XXXIII<br>ISSUE | 8-Jul-10  | 8.64% | 8-Jul-20  | 240     | [ICRA]AAA (stable) |
| INE752E07HJ3 | BOND - XXXIII<br>ISSUE | 8-Jul-10  | 8.64% | 8-Jul-21  | 240     | [ICRA]AAA (stable) |
| INE752E07HK1 | BOND - XXXIII<br>ISSUE | 8-Jul-10  | 8.64% | 8-Jul-22  | 240     | [ICRA]AAA (stable) |
| INE752E07HL9 | BOND - XXXIII<br>ISSUE | 8-Jul-10  | 8.64% | 8-Jul-23  | 240     | [ICRA]AAA (stable) |
| INE752E07HM7 | BOND - XXXIII<br>ISSUE | 8-Jul-10  | 8.64% | 8-Jul-24  | 240     | [ICRA]AAA (stable) |
| INE752E07HN5 | BOND - XXXIII<br>ISSUE | 8-Jul-10  | 8.64% | 8-Jul-25  | 240     | [ICRA]AAA (stable) |
| INE752E07HT2 | BOND - XXXIV<br>ISSUE  | 21-Oct-10 | 8.84% | 21-Oct-19 | 290.625 | [ICRA]AAA (stable) |
| INE752E07HU0 | BOND - XXXIV<br>ISSUE  | 21-Oct-10 | 8.84% | 21-Oct-20 | 290.625 | [ICRA]AAA (stable) |
| INE752E07HV8 | BOND - XXXIV<br>ISSUE  | 21-Oct-10 | 8.84% | 21-Oct-21 | 290.625 | [ICRA]AAA (stable) |
| INE752E07HW6 | BOND - XXXIV<br>ISSUE  | 21-Oct-10 | 8.84% | 21-Oct-22 | 290.625 | [ICRA]AAA (stable) |
| INE752E07HX4 | BOND - XXXIV<br>ISSUE  | 21-Oct-10 | 8.84% | 21-Oct-23 | 290.625 | [ICRA]AAA (stable) |
| INE752E07HY2 | BOND - XXXIV<br>ISSUE  | 21-Oct-10 | 8.84% | 21-Oct-24 | 290.625 | [ICRA]AAA (stable) |



|              |                        |           |       |           |         |                    |
|--------------|------------------------|-----------|-------|-----------|---------|--------------------|
| INE752E07HZ9 | BOND - XXXIV<br>ISSUE  | 21-Oct-10 | 8.84% | 21-Oct-25 | 290.625 | [ICRA]AAA (stable) |
| INE752E07IF9 | BOND - XXXV ISSUE      | 31-May-11 | 9.64% | 31-May-20 | 163.125 | [ICRA]AAA (stable) |
| INE752E07IG7 | BOND - XXXV ISSUE      | 31-May-11 | 9.64% | 31-May-21 | 163.125 | [ICRA]AAA (stable) |
| INE752E07IH5 | BOND - XXXV ISSUE      | 31-May-11 | 9.64% | 31-May-22 | 163.125 | [ICRA]AAA (stable) |
| INE752E07II3 | BOND - XXXV ISSUE      | 31-May-11 | 9.64% | 31-May-23 | 163.125 | [ICRA]AAA (stable) |
| INE752E07IJ1 | BOND - XXXV ISSUE      | 31-May-11 | 9.64% | 31-May-24 | 163.125 | [ICRA]AAA (stable) |
| INE752E07IK9 | BOND - XXXV ISSUE      | 31-May-11 | 9.64% | 31-May-25 | 163.125 | [ICRA]AAA (stable) |
| INE752E07IL7 | BOND - XXXV ISSUE      | 31-May-11 | 9.64% | 31-May-26 | 163.125 | [ICRA]AAA (stable) |
| INE752E07IP8 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-19 | 206     | [ICRA]AAA (stable) |
| INE752E07IQ6 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-20 | 206     | [ICRA]AAA (stable) |
| INE752E07IR4 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-21 | 206     | [ICRA]AAA (stable) |
| INE752E07IS2 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-22 | 206     | [ICRA]AAA (stable) |
| INE752E07IT0 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-23 | 206     | [ICRA]AAA (stable) |
| INE752E07IU8 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-24 | 206     | [ICRA]AAA (stable) |
| INE752E07IV6 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-25 | 206     | [ICRA]AAA (stable) |
| INE752E07IW4 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-26 | 206     | [ICRA]AAA (stable) |
| INE752E07IX2 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-27 | 206     | [ICRA]AAA (stable) |
| INE752E07IY0 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-28 | 206     | [ICRA]AAA (stable) |
| INE752E07IZ7 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-29 | 206     | [ICRA]AAA (stable) |
| INE752E07JA8 | BOND - XXXVI<br>ISSUE  | 29-Aug-11 | 9.35% | 29-Aug-30 | 206     | [ICRA]AAA (stable) |
| INE752E07JF7 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-19 | 166.25  | [ICRA]AAA (stable) |
| INE752E07JG5 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-20 | 166.25  | [ICRA]AAA (stable) |
| INE752E07JH3 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-21 | 166.25  | [ICRA]AAA (stable) |
| INE752E07JI1 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-22 | 166.25  | [ICRA]AAA (stable) |
| INE752E07JJ9 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-23 | 166.25  | [ICRA]AAA (stable) |
| INE752E07JK7 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-24 | 166.25  | [ICRA]AAA (stable) |
| INE752E07JL5 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-25 | 166.25  | [ICRA]AAA (stable) |
| INE752E07JM3 | BOND - XXXVII<br>ISSUE | 26-Dec-11 | 9.25% | 26-Dec-26 | 166.25  | [ICRA]AAA (stable) |

|              |                         |           |       |           |         |                    |
|--------------|-------------------------|-----------|-------|-----------|---------|--------------------|
| INE752E07JN1 | BOND - XXXVIII<br>ISSUE | 9-Mar-12  | 9.25% | 9-Mar-27  | 855     | [ICRA]AAA (stable) |
| INE752E07JO9 | BOND - XXXIX<br>ISSUE   | 29-Mar-12 | 9.40% | 29-Mar-27 | 1800    | [ICRA]AAA (stable) |
| INE752E07JT8 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-20 | 333.125 | [ICRA]AAA (stable) |
| INE752E07JU6 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-21 | 333.125 | [ICRA]AAA (stable) |
| INE752E07JV4 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-22 | 333.125 | [ICRA]AAA (stable) |
| INE752E07JW2 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-23 | 333.125 | [ICRA]AAA (stable) |
| INE752E07JX0 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-24 | 333.125 | [ICRA]AAA (stable) |
| INE752E07JY8 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-25 | 333.125 | [ICRA]AAA (stable) |
| INE752E07JZ5 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-26 | 333.125 | [ICRA]AAA (stable) |
| INE752E07KA6 | BOND - XL ISSUE         | 28-Jun-12 | 9.30% | 28-Jun-27 | 333.125 | [ICRA]AAA (stable) |
| INE752E07KE8 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-19 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KF5 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-20 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KG3 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-21 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KH1 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-22 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KI9 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-23 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KJ7 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-24 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KK5 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-25 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KL3 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-26 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KM1 | BOND - XLI ISSUE        | 19-Oct-12 | 8.85% | 19-Oct-27 | 236.875 | [ICRA]AAA (stable) |
| INE752E07KN9 | BOND - XLII ISSUE       | 13-Mar-13 | 8.80% | 13-Mar-23 | 1990    | [ICRA]AAA (stable) |
| INE752E07KR0 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-20 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KS8 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-21 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KT6 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-22 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KU4 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-23 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KV2 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-24 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KW0 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-25 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KX8 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-26 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KY6 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-27 | 260.5   | [ICRA]AAA (stable) |
| INE752E07KZ3 | BOND - XLIII ISSUE      | 20-May-13 | 7.93% | 20-May-28 | 260.5   | [ICRA]AAA (stable) |
| INE752E07LB2 | BOND - XLIV ISSUE       | 15-Jul-13 | 8.70% | 15-Jul-23 | 1322    | [ICRA]AAA (stable) |
| INE752E07LC0 | BOND - XLIV ISSUE       | 15-Jul-13 | 8.70% | 15-Jul-28 | 1322    | [ICRA]AAA (stable) |
| INE752E07LF3 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-20 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LG1 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-21 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LH9 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-22 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LI7 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-23 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LJ5 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-24 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LK3 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-25 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LL1 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-26 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LM9 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-27 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LN7 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-28 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LO5 | BOND - XLV ISSUE        | 28-Feb-14 | 9.65% | 28-Feb-29 | 166.6   | [ICRA]AAA (stable) |
| INE752E07LP2 | BOND - XLVI ISSUE       | 4-Sep-14  | 9.30% | 4-Sep-19  | 1454    | [ICRA]AAA (stable) |
| INE752E07LQ0 | BOND - XLVI ISSUE       | 4-Sep-14  | 9.30% | 4-Sep-24  | 1454    | [ICRA]AAA (stable) |
| INE752E07LR8 | BOND - XLVI ISSUE       | 4-Sep-14  | 9.30% | 4-Sep-29  | 1454    | [ICRA]AAA (stable) |
| INE752E07LT4 | BOND - XLVII ISSUE      | 20-Oct-14 | 8.93% | 20-Oct-19 | 220     | [ICRA]AAA (stable) |
| INE752E07LU2 | BOND - XLVII ISSUE      | 20-Oct-14 | 8.93% | 20-Oct-20 | 220     | [ICRA]AAA (stable) |
| INE752E07LV0 | BOND - XLVII ISSUE      | 20-Oct-14 | 8.93% | 20-Oct-21 | 220     | [ICRA]AAA (stable) |

|              |                        |           |       |           |     |                    |
|--------------|------------------------|-----------|-------|-----------|-----|--------------------|
| INE752E07LW8 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-22 | 220 | [ICRA]AAA (stable) |
| INE752E07LX6 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-23 | 220 | [ICRA]AAA (stable) |
| INE752E07LY4 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-24 | 220 | [ICRA]AAA (stable) |
| INE752E07LZ1 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-25 | 220 | [ICRA]AAA (stable) |
| INE752E07MA2 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-26 | 220 | [ICRA]AAA (stable) |
| INE752E07MB0 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-27 | 220 | [ICRA]AAA (stable) |
| INE752E07MC8 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-28 | 220 | [ICRA]AAA (stable) |
| INE752E07MD6 | BOND - XLVII ISSUE     | 20-Oct-14 | 8.93% | 20-Oct-29 | 220 | [ICRA]AAA (stable) |
| INE752E07ME4 | BOND - XLVIII<br>ISSUE | 23-Jan-15 | 8.20% | 23-Jan-20 | 645 | [ICRA]AAA (stable) |
| INE752E07MF1 | BOND - XLVIII<br>ISSUE | 23-Jan-15 | 8.20% | 23-Jan-22 | 645 | [ICRA]AAA (stable) |
| INE752E07MG9 | BOND - XLVIII<br>ISSUE | 23-Jan-15 | 8.20% | 23-Jan-25 | 645 | [ICRA]AAA (stable) |
| INE752E07MH7 | BOND - XLVIII<br>ISSUE | 23-Jan-15 | 8.20% | 23-Jan-30 | 645 | [ICRA]AAA (stable) |
| INE752E07MI5 | BOND - XLIX ISSUE      | 9-Mar-15  | 8.15% | 9-Mar-20  | 435 | [ICRA]AAA (stable) |
| INE752E07MJ3 | BOND - XLIX ISSUE      | 9-Mar-15  | 8.15% | 9-Mar-25  | 435 | [ICRA]AAA (stable) |
| INE752E07MK1 | BOND - XLIX ISSUE      | 9-Mar-15  | 8.15% | 9-Mar-30  | 435 | [ICRA]AAA (stable) |
| INE752E07MM7 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-20 | 244 | [ICRA]AAA (stable) |
| INE752E07MN5 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-21 | 244 | [ICRA]AAA (stable) |
| INE752E07MO3 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-22 | 244 | [ICRA]AAA (stable) |
| INE752E07MP0 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-23 | 244 | [ICRA]AAA (stable) |
| INE752E07MQ8 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-24 | 244 | [ICRA]AAA (stable) |
| INE752E07MR6 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-25 | 244 | [ICRA]AAA (stable) |
| INE752E07MS4 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-26 | 244 | [ICRA]AAA (stable) |
| INE752E07MT2 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-27 | 244 | [ICRA]AAA (stable) |
| INE752E07MU0 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-28 | 244 | [ICRA]AAA (stable) |
| INE752E07MV8 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-29 | 244 | [ICRA]AAA (stable) |
| INE752E07MW6 | BOND - L ISSUE         | 27-May-15 | 8.40% | 27-May-30 | 244 | [ICRA]AAA (stable) |
| INE752E07MX4 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-19 | 250 | [ICRA]AAA (stable) |
| INE752E07MY2 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-20 | 250 | [ICRA]AAA (stable) |
| INE752E07MZ9 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-21 | 250 | [ICRA]AAA (stable) |
| INE752E07NA0 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-22 | 250 | [ICRA]AAA (stable) |
| INE752E07NB8 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-23 | 250 | [ICRA]AAA (stable) |
| INE752E07NC6 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-24 | 250 | [ICRA]AAA (stable) |
| INE752E07ND4 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-25 | 250 | [ICRA]AAA (stable) |
| INE752E07NE2 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-26 | 250 | [ICRA]AAA (stable) |
| INE752E07NF9 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-27 | 250 | [ICRA]AAA (stable) |
| INE752E07NG7 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-28 | 250 | [ICRA]AAA (stable) |
| INE752E07NH5 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-29 | 250 | [ICRA]AAA (stable) |
| INE752E07NI3 | BOND - LI ISSUE        | 14-Sep-15 | 8.40% | 14-Sep-30 | 250 | [ICRA]AAA (stable) |
| INE752E07NJ1 | BOND - LII ISSUE       | 23-Dec-15 | 8.32% | 23-Dec-20 | 466 | [ICRA]AAA (stable) |
| INE752E07NK9 | BOND - LII ISSUE       | 23-Dec-15 | 8.32% | 23-Dec-25 | 466 | [ICRA]AAA (stable) |
| INE752E07NL7 | BOND - LII ISSUE       | 23-Dec-15 | 8.32% | 23-Dec-30 | 466 | [ICRA]AAA (stable) |
| INE752E07NM5 | BOND - LIII ISSUE      | 25-Apr-16 | 8.13% | 25-Apr-20 | 333 | [ICRA]AAA (stable) |
| INE752E07NN3 | BOND - LIII ISSUE      | 25-Apr-16 | 8.13% | 25-Apr-21 | 333 | [ICRA]AAA (stable) |
| INE752E07NO1 | BOND - LIII ISSUE      | 25-Apr-16 | 8.13% | 25-Apr-22 | 333 | [ICRA]AAA (stable) |
| INE752E07NP8 | BOND - LIII ISSUE      | 25-Apr-16 | 8.13% | 25-Apr-23 | 333 | [ICRA]AAA (stable) |

|              |                                                                       |           |       |            |          |                        |
|--------------|-----------------------------------------------------------------------|-----------|-------|------------|----------|------------------------|
| INE752E07NQ6 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-24  | 333      | [ICRA]AAA (stable)     |
| INE752E07NR4 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-25  | 333      | [ICRA]AAA (stable)     |
| INE752E07NS2 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-26  | 333      | [ICRA]AAA (stable)     |
| INE752E07NT0 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-27  | 333      | [ICRA]AAA (stable)     |
| INE752E07NU8 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-28  | 333      | [ICRA]AAA (stable)     |
| INE752E07NV6 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-29  | 333      | [ICRA]AAA (stable)     |
| INE752E07NW4 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-30  | 333      | [ICRA]AAA (stable)     |
| INE752E07NX2 | BOND - LIII ISSUE                                                     | 25-Apr-16 | 8.13% | 25-Apr-31  | 333      | [ICRA]AAA (stable)     |
| INE752E07NY0 | BOND - LIV ISSUE                                                      | 15-Jul-16 | 7.97% | 15-Jul-21  | 1000     | [ICRA]AAA (stable)     |
| INE752E07NZ7 | BOND - LIV ISSUE                                                      | 15-Jul-16 | 7.97% | 15-Jul-26  | 1000     | [ICRA]AAA (stable)     |
| INE752E07OA8 | BOND - LIV ISSUE                                                      | 15-Jul-16 | 7.97% | 15-Jul-31  | 1000     | [ICRA]AAA (stable)     |
| INE752E07OB6 | BOND - LV ISSUE                                                       | 21-Sep-16 | 7.55% | 21-Sep-31  | 1240     | [ICRA]AAA (stable)     |
| INE752E07OC4 | BOND - LVI ISSUE                                                      | 18-Oct-16 | 7.36% | 18-Oct-26  | 1065     | [ICRA]AAA (stable)     |
| INE752E07OD2 | BOND - LVII ISSUE                                                     | 21-Dec-16 | 7.20% | 21-Dec-21  | 2120     | [ICRA]AAA (stable)     |
| INE752E07OE0 | BOND - LVIII ISSUE                                                    | 9-Mar-17  | 7.89% | 9-Mar-27   | 2060     | [ICRA]AAA (stable)     |
| INE752E07OF7 | LT Bonds                                                              | 19-Jun-17 | 7.30% | 19-Jun-27  | 3070     | [ICRA]AAA (stable)     |
| INE752E07OG5 | LT Bonds                                                              | 9-Aug-17  | 7.20% | 9-Aug-27   | 3060     | [ICRA]AAA (stable)     |
| INE752E08502 | LT Bonds                                                              | 12-Dec-17 | 7.74% | 12-Dec-28  | 600      | [ICRA]AAA (stable)     |
| INE752E08510 | LT Bonds                                                              | 12-Dec-17 | 7.74% | 12-Dec-29  | 600      | [ICRA]AAA (stable)     |
| INE752E08528 | LT Bonds                                                              | 12-Dec-17 | 7.74% | 12-Dec-30  | 600      | [ICRA]AAA (stable)     |
| INE752E08536 | LT Bonds                                                              | 12-Dec-17 | 7.74% | 12-Dec-31  | 600      | [ICRA]AAA (stable)     |
| INE752E08544 | LT Bonds                                                              | 12-Dec-17 | 7.74% | 12-Dec-32  | 600      | [ICRA]AAA (stable)     |
| INE752E07OH3 | LT Bonds                                                              | 7-Jan-19  | 8.36% | 7-Jan-29   | 2,000.00 | [ICRA]AAA (stable)     |
| INE752E08551 | GoI Fully serviced bonds                                              | 14-Feb-19 | 8.24% | 14-Feb-29  | 3,487.50 | [ICRA]AAA (stable)     |
|              | Long term bonds programme*                                            | -         | -     | -          | 10000.00 | [ICRA]AAA (stable)     |
|              | Long term loan**                                                      | -         | -     | -          | 10000.00 | [ICRA]AAA (stable)     |
|              | Long term Loan-1 <sup>#</sup>                                         | FY2012    | -     | FY2027     | 3638     | [ICRA]AAA (stable)     |
|              | Long term Loan-2 <sup>#</sup>                                         | FY2014    | -     | FY2029     | 9,500    | [ICRA]AAA (stable)     |
|              | Long term Loan-3 <sup>#</sup>                                         | FY2017    | -     | FY2032     | 3000     | [ICRA]AAA (stable)     |
|              | Long term Loan-4 <sup>#</sup>                                         | FY2018    | -     | FY2033     | 5000     | [ICRA]AAA (stable)     |
|              | Long term Loan-5 <sup>#</sup>                                         | FY2019    | -     | FY2034     | 5722.40  | [ICRA]AAA (stable)     |
|              | Unallocated limits                                                    | -         | -     | -          | 8495.82  | [ICRA]AAA (stable)     |
|              | Commercial Paper                                                      | -         | -     | 7-365 days | 6000.00  | [ICRA]A1+              |
|              | Short term borrowing programme                                        | -         | -     | 7-365 days | 6000.00  | [ICRA]A1+              |
|              | Long term/ short term fund based/ non fund based limits <sup>##</sup> | -         | -     | -          | 5700.00  | [ICRA]AAA (stable)/A1+ |

#List of ISIN for bonds and term loan limits as on June 30, 2019

\*Bonds programme for FY2019-20

\*\*Term loan for FY2019-20

<sup>##</sup>Long term/short term fund based/ non fund based limits comprise of Rs 3000.00 crore of cash credit (fund based limits), Rs 1100.00 crore bank guarantee and Rs 1600.00 crore letter of credit. The limits are inter-changeable

Source: Power Grid Corporation of India Limited



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

| Company Name                                           | Ownership | Consolidation Approach |
|--------------------------------------------------------|-----------|------------------------|
| Powergrid Jabalpur Transmission Limited                | 100.00%   | Full Consolidation     |
| Powergrid Kala Amb Transmission Limited                | 100.00%   | Full Consolidation     |
| Powergrid NM Transmission Limited                      | 100.00%   | Full Consolidation     |
| Powergrid Parli Transmission Limited                   | 100.00%   | Full Consolidation     |
| Powergrid Southern Interconnector Transmission Limited | 100.00%   | Full Consolidation     |
| Powergrid Unchahar Transmission Limited                | 100.00%   | Full Consolidation     |
| Powergrid Vemagiri Transmission Limited                | 100.00%   | Full Consolidation     |
| Powergrid Vizag Transmission Limited                   | 100.00%   | Full Consolidation     |
| Powergrid Warora 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     |
| Powerlinks Transmission Limited                        | 49.00%    | Equity Method          |
| Torrent Powergrid Limited                              | 26.00%    | Equity Method          |
| Jaypee Powergrid Limited                               | 26.00%    | Equity Method          |
| Parbati Koldam Transmission Company Limited            | 26.00%    | Equity Method          |
| Teestavalley Power Transmission Limited#               | 28.23%    | Equity Method          |
| North East Transmission Company Limited                | 26.00%    | Equity Method          |
| National High Power Test Lab Pvt Limited               | 20.00%    | Equity Method          |
| Bihar Grid Company Limited                             | 50.00%    | Equity Method          |
| Kalinga Bidyut Prasaran Nigam Pvt Limited              | 50.00%    | Equity Method          |
| Cross Border Transmission Limited                      | 26.00%    | Equity Method          |
| RINL POWERGRID TLT Pvt. Limited                        | 50.00%    | Equity Method          |
| Power Transmission Company Nepal Ltd                   | 26.00%    | Equity Method          |

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