

National Electric Power Regulatory Authority Islamic Republic of Pakistan

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No. NEPRA/TRF-375/EPGL-2017/2387-2389 February 20, 2017

Subject:

Decision of the Authority in the Matter of Application for Unconditional Acceptance of Bagasse Upfront Tariff filed by Etihad Power Generation Limited (EPGL) for its 74 MW (Gross Capacity) New Bagasse Based Cogeneration Power Plant in Mauza Karamabad, District Rahim Yar Khan, Punjab (Case No. NEPRA/TRF-375/EPGL-2017)

Dear Sir,

Please find enclosed herewith the subject Decision of the Authority along with Annexure-1 & II (12 pages) in Case No. NEPRA/TRF-375/EPGL-2017.

- 2. The subject decision is being intimated to the Federal Government for the purpose of notification in the official gazette pursuant to Section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997).
- 3. Order of the Authority at paragraph 3 of the Decision needs to be notified in the official Gazette.

Enclosure: As above

(Syed Safeer Hussain)

Secretary
Ministry of Water & Power
'A' Block, Pak Secretariat
Islamabad

CC:

- 1. Secretary, Cabinet Division, Cabinet Secretariat, Islamabad.
- 2. Secretary, Ministry of Finance, 'Q' Block, Pak Secretariat, Islamabad.



DECISION OF THE AUTHORITY IN THE MATTER OF APPLICATION FOR UNCONDITIONAL ACCEPTANCE OF BAGASSE UPFRONT TARIFF FILED BY ETIHAD POWER GENERATION LIMITED (EPGL) FOR ITS 74 MW (GROSS CAPACITY) NEW BAGASSE BASED COGENERATION POWER PLANT IN MAUZA KARAMABAD, DISTRICT RAHIM YAR KHAN, PUNJAB.

The National Electric Power Regulatory Authority (hereinafter referred to as the "Authority") vide its determination dated May 29, 2013, approved Upfront Tariff for New Bagasse Based Co-Generation Power Projects (hereinafter referred to as the "upfront tariff") based on high pressure boilers (60 bars and above) with the terms and conditions mentioned therein, which were modified through the Authority's subsequent decisions dated August 28, 2013, June 19, 2014 and June 17, 2015. Etihad Power Generation Limited (hereinafter referred to as the "applicant" or "EPGL" or the "company") submitted application on November 11, 2016 for unconditional acceptance of the upfront tariff for its 74 MW (Gross capacity) high-pressure cogeneration power plant (hereinafter referred to as the "Project") located in Karamabad, District Rahim Yar Khan, Punjab. In this regard, the Central Power Purchasing Agency (Guarantee) Limited (CPPA-G) has conveyed its consent to purchase power from the Project vide letter No. CPPAGL/DGM-II/MT-IV/SSML/6336-40 dated December 28, 2016. The said application was scrutinized and found to be in compliance with the Terms and Conditions stipulated in the aforementioned decisions of the Authority and the requirements prescribed in Regulation 4 of the National Electric Power Regulatory Authority Upfront Tariff (Approval & Procedure) Regulations, 2011.

2. In view of the above, the Authority has decided to accept this application and has decided to grant upfront tariff to the applicant as follows:

3. ORDER

Pursuant to Rule 6 of the National Electric Power Regulatory Authority Licensing (Generation) Rules, 2000 read with Regulation 4(7) of NEPRA Upfront Tariff (Approval & Procedure) Regulations, 2011 and section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act. 1997, the applicant is allowed to charge the following approved tariff for delivery of electricity to the power purchaser:







| Tariff components | 1-10 years | 11-30 years | Indexations |
|----------------------|------------|-------------|------------------|
| | (Rs/kWh) | (Rs./kWh) | |
| Fuel Cost | 5.7702 | 5.7702 | Fuel price |
| Variable O&M Local | 0.1074 | 0.1074 | Local CPI |
| Variable O&M Foreign | 0.3223 | 0.3223 | PKR/US\$, US CPI |
| Fixed O&M Local | 0.2865 | 0.2865 | Local CPI |
| Insurance | 0.2204 | 0.2204 | •• |
| Working Capital | 0.1924 | 0.1924 | KIBOR |
| Debt Service | 3.8249 | - | KIBOR |
| Return on Equity | 1.0155 | 1.0155 | PKR/US\$ |
| Total | 11.7396 | 7.9147 | |

- The above reference tariff is applicable for 30 years from commencement of commercial operation date (COD).
- ii) The above tariff has been worked out on the basis of reference PKR/US\$ rate of Rs. 98.0.
- iii) The reference component wise Upfront Tariff table is attached herewith as Annex-I
- iv) The reference Debt Service schedule is attached herewith as Annex-II.

1. Pass-Through Items

If the company is obligated to pay any tax on its income from generation of electricity, or any duties and/or taxes, not being of refundable nature, are imposed on the company up to the commencement of its commercial operations for import of its plant, machinery and equipment, the exact amount paid by the company on these accounts shall be reimbursed by the power purchaser on production of original receipts. This payment should be considered as a pass-through payment spread over a twelve months period. Furthermore, in such a scenario, the company shall also submit to the power purchaser details of any tax savings and the power purchaser shall deduct the amount of these savings from its payment to the company on account of taxation.

The adjustment for duties and/or taxes will be restricted only to the extent of duties and/or taxes directly imposed on the company. No adjustment for duties and/or taxes imposed on third parties such as contractors, suppliers, consultants, etc., excluding adjustment for taxes imposed on dividend as stated below, will be allowed.

Withholding tax on dividends will also be allowed as a pass through item just like other taxes. The power purchaser shall make payment on account of withholding tax at the







time of actual payment of dividend, on production of original receipts, subject to maximum of 7.5% of return on equity. In case the company does not declare a dividend in a particular year or only declares a partial dividend, then the difference in the withholding tax amount (between what is paid in that year and the total entitlement as per the net return on equity) would be carried forward and accumulated so that the company is able to recover the same as a pass through from the power purchaser in future on the basis of the total dividend payout. Adjustment for variation in tax rate on dividend from 7.5% shall also be allowed as a pass through item by the power purchaser, after satisfying itself that tax rates have actually varied. The company shall also submit to the power purchaser details of any tax savings and the power purchaser shall deduct the amount of these savings from its payment to the company on account of taxation.

II. One-Time Adjustment

The reference Upfront Tariff will be adjusted at the reference date of May 31, 2015, to account for cost variations during the project construction period, and this adjustment will be applicable to the project upon achievement of commercial operations. The following adjustment in the reference Upfront tariff will be allowed.

i) The 40% of the approved total project cost has been assumed in foreign currency (USD) which shall be adjusted with respect to PKR/US\$ exchange rate variation to be worked out on quarterly basis as per the assumed schedule of debt and equity injections spread over 20 months of project construction period starting from October 01, 2013 as given hereunder.

| Debt & Equity Qtr.1 | | Qtr. 2 | Qtr.3 | Qtr. 4 | Qtr.5 | Qtr.6 | 2 months | Total |
|---------------------|-----|--------|-------|--------|-------|-------|---------------|-------|
| Injections | | | | | | | (after Qtr.6) | |
| % of total | | | | | | | | |
| project cost | 20% | 20% | 15% | 15% | 10% | 10% | 10% | 100% |

- ii) The debt service component of reference Upfront Tariff will be adjusted on account of variation in quarterly KIBOR over the reference KIBOR of 9.50% plus spread on KIBOR at 3%.
- iii) The return on equity component (ROE) including return on equity during construction component (ROEDC) of reference Upfront Tariff will be revised on







account of variation in PKR/US\$ exchange rate over the reference PKR/US\$ exchange rate of Rs. 98.

III. Indexation/adjustment

The following indexation shall be applicable to the reference tariff after one-time adjustment:

a) Fuel Cost Component

Fuel cost component of tariff will be adjusted on account of variation in price of fuel (bagasse) on yearly basis in advance (w.e.f. 1st of October of each applicable year) as per the formula given hereunder.

 $FCC_{(Rev)} = FCC_{(Fet)} \times BFP_{(Eev)} / BFP_{(Ket)}$

Where;

 $FCC_{(Rev)}$ = Revised fuel cost component of tariff for the applicable year.

 $FCC_{(Ret)}$ = Reference fuel cost component of tariff at the time of

determination.

 $BFP_{(Rex)}$ = Revised price of bagasse in Rs/ton as determined in accordance

with mechanism set out below.

BFP_(Ret) = Reference price of bagasse for the relevant year. Current

reference price is Rs. 2861.12/ton

 $BFP_{(Rev)} = CPCIF_{(Rev)} \times 6905/23810$

Where:

 $CPCIF_{(Kev)} = \{CPFOB_{(Kev)} + MF_{(Rev)} + MI_{(Kev)}\} \times ER_{(Kev)}$

Where;

 $CPCIF_{(Rev)}$ = Revised CIF price of coal in Rs/ton for the applicable year.







| CPFOB (Rev.) | <u> </u> | Revised FOB price of coal expressed in US\$/ton based on monthly average of prices published in the Argus McCloskey's API4 index for the relevant year. |
|--------------------------------|-------------------|---|
| $\mathrm{MF}_{(\mathrm{Rev})}$ | | Revised marine freight of coal per ton as worked out below. |
| $MF_{(Rev)}$ | | US\$ $19.19 \times BIX_{(Rev)} / BIX_{(Ret)}$ |
| Where; | | |
| BIX _(Rev) | | Revised monthly average of the daily Bunker Index price for 380-CST published by the Bunker Index for the relevant year. |
| BIX _(Ref) | = | Reference monthly average of the daily Bunker Index price of 380-CST published by the Bunker Index. Current reference for the month of April 2013 is US\$ 641.8219/ton. |
| $MI_{(\mathrm{Kev})}$ | edition and an | $CPFOB_{(Rev)} \times 0.1\%$ |
| $\mathrm{ER}_{(\mathrm{Rev})}$ | | Revised monthly average PKR/US\$ exchange rate for the relevant month. |

The constants such as 6905, 23810 and US\$ 19.19 are fixed values representing LHV value of Bagasse in Btu/kg, LHV value of coal in Btu/kg and fixed value of marine freight charges per ton of coal respectively.

Note:

- 1. Applicable year means, the year for which adjustment/indexation of fuel cost component is required starting from 1st of July and ending on 30th of June.
- 2. Relevant year means the year immediately preceding the applicable year for adjustment/indexation of fuel cost component.

b) O&M Cost Component

The local O&M component will be adjusted on account of local Inflation and foreign O&M component will be adjusted on account of variation in Rupee/Dollar exchange rate and US CPI. Quarterly adjustments for inflation and exchange rate variation will be made on 1st July. 1st October, 1st January & 1st April respectively on the basis of the latest available information with respect to Pakistan CPI (general), US CPI (notified by







US bureau of labor statistics) and revised TT&OD Selling rate of US Dollar (notified by the National Bank of Pakistan). The mode of indexation will be as under:

i) Fixed O&M Local

 $FO\&M_{(FEV)} = FO\&M_{(FEI)} * CPI_{(REV)} / CPI_{(REF)}$

Where:

F O&M (REV) = The revised applicable Fixed O&M local component of tariff indexed with Pakistan CPI.

If O&M (KEF) = The reference fixed O&M local component of tariff for the relevant period.

CPI_(REV) = The Revised Consumer Price Index (General) for the relevant month.

CP1_(RFF) = The Consumer Price Index (General) of April 2013 notified by the Federal Bureau of Statistics, i.e. 177.74.

ii. Variable O&M

 $V O\&M_{(LREV)} = V O\&M_{(LREF)} * CPI_{(REV)} / CPI_{(REF)}$

V O&M (FPFV) = V O&M(FREF) * USCPI (RFV) / US CPI (REF) * ER (REV) / 98

Where:

V O&M $_{(LREV)}$ = The revised applicable Variable O&M local component of tariff indexed with CPI.

V O&M_(FREV)= The revised applicable Variable O&M foreign component of tariff indexed with US CPI and exchange rate variation.

V $O\&M_{(I,RFF)}$ = The reference variable O&M local component of tariff for the relevant period.







V O&M (FREE) = The reference variable O&M foreign component of tariff for the relevant period.

CPI (REV) = The Revised Consumer Price Index (General) for the relevant month.

CPI (REF) = The Consumer Price Index (General) of April 2013 notified by the Federal Bureau of Statistics, i.e. 177.74.

US CPI_(REV) = The Revised US Consumer Price Index (All Urban Consumers) notified by the US Bureau of Labor Statistics.

US CPI (REF) = Reference US CPI (All Urban Consumers) notified by the Bureau of Labor Statistics for the month of April 2013, i.e. 232.531.

 $ER_{(IIFV)}$ = The revised TT&OD selling rate of US dollar as notified by the National Bank of Pakistan.

c) Adjustment of working capital cost

The cost of working capital shall be adjusted on account of variation in 3-month KIBOR over the reference KIBOR of 9.50% while premium over KIBOR, 2% remaining the same for the entire tariff control period.

d) Adjustment of debt servicing component

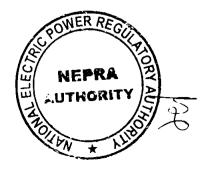
This fixed charge component after one-time adjustment will remain unchanged throughout the tariff control period except for the adjustment due to variation in KIBOR. The debt servicing component of tariff will be adjusted accordingly on quarterly basis.

e) Return on Equity

Return on equity (ROE) as well as Return on Equity during Construction (ROEDC) component of tariff shall be adjusted for variation in PKR/US\$ exchange rate according to the following formula:

 $ROE_{(REV)} = ROE_{(REV)} * ER_{(REV)} / ER_{(REF)}$







| ROEDC (REV) | Approx. | ROEDC $_{(REF)}$ * ER $_{(REV)}$ /ER $_{(REF)}$ |
|-------------|--|---|
| Where; | | |
| ROE (REV) | | Revised Return on Equity component of tariff expressed in Rs/kWh adjusted with exchange rate variation. |
| ROEDC (REV) | <u>lenne</u> | Revised Return on Equity during Construction component of tariff in Rs/kWh adjusted with exchange rate variation. |
| ROE (REF) | Madern Printer | Reference Return on Equity component of tariff expressed in Rs/kWh for the relevant period. |
| ROEDC (REF) | ************************************** | Reference Return on Equity during Construction component of tariff expressed in Rs/kWh for the relevant period. |
| ER (REV) | ***** | Revised TT and OD selling rate of US dollar as notified by the National Bank of Pakistan. |
| ER (REF) | e447h | Reference TT and OD selling rate of US dollar. |

IV. <u>Terms and conditions of Upfront Tariff</u>

- i) The Upfront tariff is applicable for power generation using bagasse.
- ii) The Upfront Tariff will be applicable and become effective after Commercial Operation Date (COD) of the project.
- iii) The decision of the applicant to opt for upfront tariff is irrevocable.
- iv) The applicant is required to achieve COD within two years from date of issuance of this order.
- v) All energy offered for sale by the project shall be taken by the power purchaser on priority.







- vi) The applicant shall have the option to offer energy to the respective Distribution Company (DISCO) at 11 KV or 132 KV, or to the CPPA/NTDC at 132 KV, provided that the cost of interconnection, grid station upgrades etc. for power evacuation shall be incurred by the respective DISCO/NTDC.
- vii) This tariff will be applicable for a period of thirty years (30) from the commencement of commercial operations.
- viii) In the Upfront Tariff no adjustment for certified emission reductions has been accounted for. However, upon actual realization of carbon credits, the same shall be distributed between the power purchaser and the company in accordance with the Policy for Development of Renewable Energy for Power Generation 2006, as amended from time to time.
- ix) The project is allowed the use of other biomass fuel such as rice husk, cotton stalk etc. in combination with Bagasse or separately. However use of coal imported or local is not allowed.
- x) Pre COD sale of electricity is allowed to the applicant, subject to the terms and conditions of PPA, at the applicable tariff excluding principal repayment of debt component and interest component.
- To safeguard interest of consumers, the Authority may review the fuel pricing mechanism stipulated above in accordance with NEPRA applicable law, after due consultation with the affected/interested parties, if it is deemed that there is exorbitant/unreasonable increase in international coal prices. Similarly, to mitigate risk to the power producer and to encourage the investors to put up bagasse based(indigenous fuel) cogeneration projects, the reference CIF coal price of US\$ 100.67/ton used at the time of this determination shall be considered the floor/minimum price for the purpose of the Fuel cost Component.
- xii) The adjustment/indexation of upfront tariff will be made on the basis of benchmarks assumed by the Authority for Upfront Tariff in accordance with the







indexation mechanism stipulated hereinabove. No project specific adjustments shall be taken into account.

- 4. The EPA/PPA executed shall be consistent with all applicable documents including Generation License and NEPRA's Tariff determination for the power producer. Any provision of PPA/EPA which is inconsistent with NEPRA's Tariff Determination shall be void to that extent and its financial impact shall not be passed on to the end consumer.
- 5. The order at paragraph 3 is recommended for notification by the Federal Government in the official gazette in accordance with Section 31(4) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997.

AUTHORITY

(Himayat Ullah Khan)

Member

(Syed Masood ul Hassan Nagy

Member

(Major (Rtd.) Haroon Rashid)

Member

(Tariq Saddozai)

Chairman

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NEPRA AUTHORITY AUTHORITY

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Reference Upfront Tariff for 74 MW EPGL Co-generation Power Project

| | Year | Fuel cost component | Variable O&M Local | Variable O&M Foreign | Fixed O&M Local | Insurance | Working capital cost | Return on Equity | ROE During Construction | Loan Repayment | Interest Charges | Total Tariff |
|----|------------------|---------------------|--------------------------|----------------------------|-----------------------|-----------|-------------------------|---------------------|----------------------------|---|---------------------|-----------------|
| | | Rs./kWh | Rs./kWh | Rs./kWh | Rs. / kWh | Rs. / kWh | Rs. / kWh | Rs. / kWh | Rs. / kWh | Rs. / kWh | Rs./kWh | Rs. / kWh |
| Ī | 1 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0 1924 | 0.9207 | 0 0948 | 1.1705 | 2.6544 | 11.7396 |
| | 2 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | 1.3238 | 2.5011 | 11.7396 |
| | 3 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | 1.4972 | 2.3277 | 11.7396 |
| | 4 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0 9207 | 0 0948 | 1.6933 | 2.1316 | 11.7396 |
| | 5 | 5 7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0 1924 | 0.9207 | 0.0948 | 1 9150 | 1 9098 | 11.7396 |
| Ì | 6 | 5.7702 | 0.1074 | 0.3223 | 0 2865 | 0 2204 | 0 1924 | 0 9 2 07 | 0.0948 | 2 1659 | 1.6589 | 11.7396 |
| | 7 | 5.7702 | 0.1074 | 0 3223 | 0 2865 | 0 2204 | 0 1924 | 0 9207 | 0.0948 | 2 4496 | 1.3752 | 11.7396 |
| i | 8 | 5.7702 | 0.1074 | 0 3223 | 0 2865 | 0.2204 | 0 1924 | 0.92 0 7 | 0.0948 | 2 7704 | 1.0544 | 11.7396 |
| | 9 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | 3.1333 | 0.6915 | 11.7396 |
| | 10 | 5 7702 | 0 1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | 3.5437 | 0.2811 | 11.7396 |
| | 11 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 12 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 13 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 14 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| ~4 | 15 16 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0 1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 17 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 1018 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| ř | ו שנדו | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| G! | HTY 😝 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | \mathcal{F}_1 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 22 | 5.7702 | 0.1074 | 0.3223 | 0 2865 | 0.2204 | 0 1924 | 0.9207 | 0.0948 | | | 7.9147 |
| * | 23 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 24 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 25 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 26 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 27 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | *************************************** | | 7.9147 |
| | 28 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | Į | | 7.9147 |
| | 29 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | 30 | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | | | 7.9147 |
| | Levelized Tariff | 5.7702 | 0.1074 | 0.3223 | 0.2865 | 0.2204 | 0.1924 | 0.9207 | 0.0948 | 1.2831 | 1.2100 | 10.4078 |

Levelized Tariff (1-30 years) discounted at 10% per annum = US Cents 10.6202/kWh at reference exchange rate of 1US\$=Rupees 98.00.



Reference Upfront Tariff for 74 MW EPGL Co-generation Power Project Debt Servicing Schedule

| | | | | | | Dent Servi | cing Scheau | | 1 | | | | |
|--|------------|-------------|---------------|------------|------------|------------|-------------|-----------|----------|----------------|-----------|-----------|---------|
| | | 1 | Local Debt | | | , | L | | Annual | Annual | Annual | | |
| | Principal | Repayment | Mark-Up | Balance | Debt | Principal | Repayment | Mark-Up | Balance | Debt Service | Principal | Interest | Debt |
| Period | Million \$ | Million \$ | Million \$ | Million S | Service | Million | Million | Million | Million | Million | Repayment | Rs./kWh | Service |
| | | | | | Million \$ | Rupees | Rupees | Rupees | Rupees | Rupees | Rs./kWh | | Rs./kWh |
| | 0 7973 | 0.0103 | 0.0249 | 0 7870 | 0.0352 | 78.1353 | 1 0072 | 2 4417 | 77 1281 | 3 4490 | 0.2792 | 0 6770 | 0 9562 |
| ŀ | 0.7870 | 0 0106 | 0 0246 | 0.7764 | 0 0352 | 77 1281 | 1 0387 | 2 4103 | 76 0893 | 3 4490 | 0.2880 | 0 6682 | 0 9562 |
| İ | 0 7764 | 0.0109 | 0.0243 | 0 7655 | 0.0352 | 76 0893 | 1.0712 | 2 3778 | 75 0182 | 3 449 0 | 0 2970 | 0 6592 | 0.9562 |
| | 0.7655 | 0 0113 | 0 0239 | 0.7542 | 0 0352 | 75 0182 | 1 1046 | 2.3443 | 73 9135 | 3,4490 | 0.3063 | 0.6499 | 0.9562 |
| 1 | 0.7973 | 0.0431 | 0.0977 | 0.7542 | 0.1408 | 78 1353 | 4.2218 | 9.5741 | 73.9135 | 13 7958 | 1.1705 | 2 6 5 4 4 | 3.8248 |
| | 0.7542 | 0 0116 | 0 0236 | 0.7426 | 0 0352 | 73.9135 | 1.1392 | 2.3098 | 72.7744 | 3.4490 | 0.3158 | 0.6404 | 0.9562 |
| } | 0.7426 | 0.0120 | 0.0232 | 0 7306 | 0 0352 | 72,7744 | 1,1748 | 2.2742 | 71 5996 | 3,4490 | 0 3257 | 0 6305 | 0.9562 |
| | 0.7306 | 0 0124 | 0 0228 | 0.7182 | 0 0352 | 71 5996 | 1.2115 | 2.2375 | 70.3881 | 3 4490 | 0.3359 | 0.6203 | 0,9562 |
| | 0 7182 | 0.0127 | 0.0224 | 0 7055 | 0.0352 | 70.3881 | 1.2493 | 2.1996 | 69 1388 | 3.4490 | 0.3464 | 0 6098 | 0.9562 |
| 2 | 0.7542 | 0 0487 | 0 0921 | 0.7055 | 0.1408 | 73.9135 | 4.7747 | 9.0211 | 69.1388 | 13.7958 | 1.3238 | 2.5011 | 3.8248 |
| | 0.7055 | 0.0131 | 0.0220 | 0 6924 | 0.0352 | 69.1388 | 1 2884 | 2 1606 | 67 8504 | 3.4490 | 0.3572 | 0 5990 | 0.9562 |
| 1 | 0.6924 | 0 0136 | 0 0216 | 0.6788 | 0.0352 | 67 8504 | 1 3286 | 2 1203 | 66 5218 | 3.4490 | 0 3684 | 0.5878 | 0 9562 |
| | 0.6788 | 0.0140 | 0 0212 | 0 6648 | 0.0352 | 66 5218 | 1 3702 | 2 0788 | 85 1516 | 3 4490 | 0.3799 | 0 5763 | 0.9562 |
| | 0.6648 | 0.0144 | 0 0208 | 0.6504 | 0 0352 | 65 1516 | 1 4130 | 2.0360 | 63 7387 | 3 4490 | 0 3917 | 0.5645 | 0.9562 |
| | 4 | 0.0551 | 0.0857 | 0 6504 | 0.1408 | 69 1388 | 5 400 ! | 8 3957 | 63.7387 | 13 795& | 1.4972 | 2 3277 | 3 8248 |
| | 0.6504 | 0 0149 | 0 0203 | 0.6355 | 0.0352 | 63.7387 | 1.4571 | 1 9918 | 62 2815 | 3,4490 | 0.4040 | 0.5522 | 0.9562 |
| ı | 0.6355 | 0.0153 | 0.0199 | 0 6202 | 0.0352 | 62,2815 | 1 5027 | 1 9463 | 60 7789 | 3.4490 | 0.4166 | 0 5396 | 0 9562 |
| | 0 6202 | 0.0158 | 0 0194 | 0.6044 | 0 0352 | 60 7789 | 1 5496 | 1 8993 | 59 2293 | 3.4490 | 0.4296 | 0.5266 | 0 9562 |
| | 0 6044 | 0.0163 | 0.0189 | 0 5881 | 0.0352 | 59.2293 | 1.5980 | 1.8509 | 57 6312 | 3,4490 | 0.4430 | 0.5132 | 0.9562 |
| | | 0.0623 | 0 0785 | 0 5881 | 0.1408 | 63.7387 | 6.1075 | 7 6884 | 57.6312 | 13,7958 | 1,6933 | 2.1316 | 3.8248 |
| | 0.5881 | 0.0168 | 0.0184 | 0 5713 | 0.0352 | 57 6312 | 1.6480 | 1.8010 | 55 9832 | 3,4490 | 0 4569 | 0 4993 | 0 9562 |
| | 0.5713 | 0.0173 | 0.0179 | 0.5539 | 0 0352 | 55 9832 | 1 6995 | 1 7495 | 54.2838 | 3.4490 | 0.4712 | 0.4850 | 0.9562 |
| | 0 5539 | 0.0179 | 0.0173 | 0 5360 | 0.0352 | 54 2638 | 1.7526 | 1 6904 | 52 5312 | 3 4490 | 0.4859 | 0 4703 | 0.9562 |
| | 0 5360 | 0.0184 | 0 0 1 6 8 | 0.5176 | 0 0352 | 52.5312 | 1.8074 | 1.6416 | 50.7238 | 3.4490 | 0.5011 | 0.4551 | 0.9562 |
| N . | 0.5881 | 0.0705 | 0 0703 | 0 5176 | 0.1408 | 57 6312 | 6.9074 | 6.8884 | 50.7238 | 13.7958 | 1.9150 | 1.9098 | 3.8248 |
| 3 \ | 0.5176 | 0.0190 | 0.0162 | 0.4986 | 0 0352 | 50.7238 | 1.8638 | 1.5851 | 48.8600 | 3.4490 | 0.5167 | 0.4395 | 0.9562 |
| 1 Æ 1 | 0.4986 | 0.0196 | 0 0156 | 0.4790 | 0.0352 | 48.8600 | 1.9221 | 1 5 2 6 9 | 46.9379 | 3.4490 | 0 5329 | 0 4233 | 0 9562 |
| 1 * ! | 0.4790 | 0.0202 | 0 0 1 5 0 | 0.4587 | 0 0352 | 46 9379 | 1.9822 | 1.4668 | 44.9557 | 3.4490 | 0.5495 | 0.4067 | 0.9562 |
| <i>l</i> ≱I | 0 4587 | 0.0209 | 0.0143 | 0.4379 | 0.0352 | 44,9557 | 2 0441 | 1 4049 | 42.9116 | 3.4490 | 0.5667 | 0 3895 | 0.9562 |
| | 0.5176 | 0.0797 | 0.0611 | 0.4379 | 0 1408 | 50,7238 | 7.8122 | 5.9837 | 42.9116 | 13.7958 | 2,1659 | 1.6589 | 3.8248 |
| X | 0.4379 | 0 0215 | 0.0137 | 0 4164 | 0.0352 | 42.9116 | 2 1080 | 1 3410 | 40 8037 | 3 4490 | 0 5844 | 0 3718 | 0 9562 |
| | 0.4164 | 0 0222 | 0 0130 | 0.3942 | 0 0352 | 40.8037 | 2,1738 | 1 2751 | 38.6298 | 3 4490 | 0.6027 | 0.3535 | 0.9562 |
| | 0.3942 | 0.0229 | 0.0123 | 0 3713 | 0 0352 | 38.6298 | 2.2418 | 1.2072 | 36 3880 | 3 4490 | 0.6215 | 0 3347 | 0 9562 |
| | 0.3713 | 0 0236 | 0 0116 | 0.3477 | 0 0352 | 35,3880 | 2.3118 | 1.1371 | 34 0762 | 3,4490 | 0.6409 | 0.3153 | 0.9562 |
| | 0.4379 | 0.0902 | 0.0506 | 0 3477 | 0.1408 | 42.9116 | 8.8354 | 4.9604 | 34.0762 | 13 7958 | 2.4496 | 1 3752 | 3 8248 |
| 1 | 0.3477 | 0 0243 | 0 0109 | 0.3234 | 0 0352 | 34.0762 | 2,3841 | 1 0649 | 31 6921 | 3.4490 | 0.6610 | 0.2952 | 0.9562 |
| | 0.3234 | 0.0251 | 0.0101 | 0 2983 | 0.0352 | 31.6921 | 2.4586 | 1 | 29 2335 | 3.4490 | 0.6816 | 0.2746 | 0 9562 |
| | 0.2983 | 0 0259 | 0 0093 | 0.2724 | 0 0352 | 29.2335 | 2,5354 | 1 | 26.6981 | 3.4490 | 0.7029 | 0.2533 | 0.9562 |
| | 0.2724 | 0.0267 | 0.0085 | 0.2457 | 0.0352 | 26.6981 | 2.6146 | 1 | 24 0835 | 3.4490 | 0.7249 | 0.2313 | 0 9562 |
| | 6 0.3477 | 0 1020 | | 0.2457 | 0.1408 | 34.0762 | 9,9927 | 3.8031 | 24.0835 | 13.7958 | 2.7704 | 1.0544 | 3.8248 |
| | 0.2457 | 0.0275 | | 0.2182 | 0.0352 | 24.0835 | 2.6964 | | 21.3871 | 3.4490 | 0.7475 | 0 2087 | 0.9562 |
| | 0.2182 | L | 1 | 0.1899 | 0.0352 | 21.3871 | 2.7806 | | 18.6065 | 3.4490 | 0.7709 | 0.1853 | 0.9562 |
| | 0.1899 | 0.0293 | | 0.1606 | 0.0352 | 18.6065 | 2.8675 | | 15 7390 | 3 4490 | 0.7950 | 0 1612 | 0.9562 |
| 1 | 0.1606 | 0.0302 | 1 | 0.1304 | 0 0352 | 15.7390 | 2.9571 | 0.4918 | 12.7819 | 3.4490 | 0.8198 | 0.1364 | 0.9562 |
| | 9 0.2457 | 0.1153 | · | 0.1304 | 0.1408 | 24.0835 | 11.3016 | 2.4943 | 12.7819 | 13 7958 | 3.1333 | 0.6915 | 3.8248 |
| | 0.1304 | 0.0311 | | 0.0993 | 0.0352 | 12.7819 | 3.0495 | | 9 7324 | 3.4490 | 0.8455 | 0.1107 | 0 9562 |
| | 0.0993 | 0.0321 | 1 | 0.0672 | 0.0352 | 9.7324 | 3.1448 | 1 | 6.5875 | 3.4490 | | 0 0843 | 0.9562 |
| | 0.0672 | 0.0331 | 0.0021 | 0.0341 | 0.0352 | 6.5875 | 3.2431 | 1 | 3.3444 | 3 4490 | 0.8991 | 0.0571 | 0.9562 |
| | 0.03/1 | 0.0341 | 1 | (0.0000) | 0.0352 | 3,3444 | 3.3444 | 1 | 1 | 3.4490 | 0.9272 | 0.0290 | 0.9562 |
| 1 | | | | (0.0000) | | 12.7819 | 12.7819 | 1.0139 | 0.0000 | 13.7958 | 3.5437 | 0.2811 | 3.8248 |
| | 0.1004 | 0 1004 | , 00.00 | 1 (0.0000) | 2 . 100 | | 120.0 | 1 | 1 3.5.50 | | | <u> </u> | 1 |

NEPRA AUTHORITY