



National Electric Power Regulatory Authority
Islamic Republic of Pakistan

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No. NEPRA/TRF-445/LXREC-2018/11883-11885
July 20, 2018

Subject: Decision of National Electric Power Regulatory Authority (NEPRA) in the matter of Application of Lahore Xingzhong Renewable Energy Company (Pvt.) Ltd. opting for Upfront Tariff for Municipal Solid Waste Power Projects [Case No. NEPRA/TRF-445/LXREC-2018]

Dear Sir,

Please find enclosed herewith the subject Decision of the Authority along Annex-I & II (10 pages) in Case No. NEPRA/TRF-445/LXREC-2018.

2. The Decision is being intimated to the Federal Government for the purpose of notification in the official gazette pursuant to Section 31(7) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997.

3. The Order of the Authority along with Annex-I & II is to be notified in the official Gazette.

Enclosure: As above

(Syed Safer Hussain)

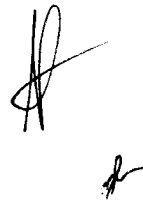
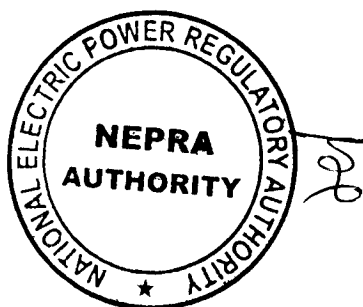
Secretary
Ministry of Energy (Power Division)
'A' Block, Pak Secretariat
Islamabad

CC:

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

DECISION OF NATIONAL ELECTRIC POWER REGULATORY AUTHORITY (NEPRA)
IN THE MATTER OF APPLICATION OF
LAHORE XINGZHONG RENEWABLE ENERGY COMPANY (PRIVATE) LIMITED OPTING FOR
UPFRONT TARIFF FOR MUNICIPAL SOLID WASTE POWER PROJECTS

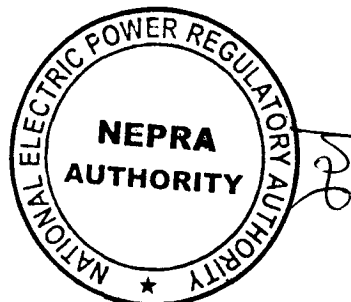
1. Background
- 1.1 National Electric Power Regulatory Authority (hereinafter referred to as the "Authority") in accordance with the provisions of NEPRA Act, Rules and Regulations made therein initiated Suo Moto proceedings with respect to determining the Upfront Tariff for Municipal Solid Waste Power Projects (MSW). Accordingly after consultative process the Upfront Tariff in the matter was issued on January 15, 2018. The same was notified vide SRO dated March 16, 2018. As per Section 7(2)(g) of the NEPRA Act, 1997 the Authority may review its orders, decisions and determinations. In pursuance to regulation 3 of the NEPRA (Review Procedure) Regulations, 2009 the Authority may at any time, on its own motion, review any order passed by it and on so reviewing modify, reverse or confirm the same. After issuance of the tariff determination, the Authority has observed few typographical errors in the said determination i.e. mentioning Variable O&M as Rs./kW/hr instead of Rs./kWh, energy criterion for dispatch order etc, which needs to be corrected. Further, the said errors do not have any financial implications, therefore, the Authority has decided to review the upfront tariff determination and correct the errors. Accordingly review decision in the matter was issued on July 10, 2018.
- 1.2 As per terms and conditions of the above Upfront Tariff following are eligible:
 - a. Companies recommended by the AEDB / relevant agencies for the grant of Upfront tariff.
 - b. Companies which certify that all the plant and machinery to be installed will be new and of international standards in the form attached with the determination.
- 1.3 M/s Lahore Xingzhong Renewable Energy Company (Private) Limited (hereinafter referred to as "LXREC" or "the Applicant") vide letter dated May 07, 2018 submitted application for unconditional acceptance (hereinafter referred to as "Application") of upfront tariff for Municipal Solid Waste Power Projects determined by the Authority with all the terms, conditions and assumptions provided therein, for its proposed MSW power project of 40 MW installed capacity to be located at Lakhodair site at Lahore. LXREC also submitted the generation license application. While reviewing the submitted application, certain documents i.e. Certificate of incorporation, Articles of Association, project generation facility information etc were not attached. Accordingly LXREC based on the directions of NEPRA provided the same vide letter dated May 23, 2018. Before submitting the application LXREC also pointed out the above typo errors which has been corrected through the review decision dated July 10, 2018.



- 1.4 The Authority considered the subject matter and admitted the application for further processing. The Authority observed that the LXREC was incorporated under Companies Ordinance, 1984 on February 01, 2017. It was further observed that the LXREC submitted the Memorandum of Association wherein the principal line of business of the Company has been mentioned as establishing the power generation plants based on power generated from waste. LXREC also provided the details with respect to the generation facility. LXREC also submitted the Letter of Intent (LOI) issued by Punjab Power Development Board (PPDB - Energy Department).
- 1.5 PPDB vide letter dated May 21, 2018 submitted that the Government of Punjab in order to promote renewable energy power generation and add clean energy into the national grid invited expression of interest publically for development of Waste to Energy power projects at raw site at Lakhodair near Lahore. PPDB further submitted that the Lahore Waste Management Company (the custodian of Municipal Solid Waste at Lahore) assured supply of 2000 tons per day for the above site. According to PPDB, Letter of Intent (LOI) was issued to the consortium of M/s China ENFI Engineering Corporation (ENFI) and Ms. MCC Tongsin Resources Limited under the Punjab Power Generation Policy, 2006 revised in 2009 for development of 40 MW Waste to Energy power project. PPDB also submitted that the Special Purpose Vehicle Company (SPV) in the name of Lahore Xingzhong Renewable Energy Company (Pvt.) Limited was later formed by the above referred consortium to carry out the project feasibility study as per terms and conditions of LOI. PPDB submitted that the feasibility study of the proposed site which was carried out by the Company, has been approved by the PPDB appointed panel of experts on July 14, 2017. Grid interconnection study was vetted by LESCO on December 04, 2017 and finally approved by NTDCL on May 17, 2018. Initial Environmental Examination study was approved by the EPA Government of Punjab on December 26, 2017.
- 1.6 The Authority considered the above submissions and documentary evidence submitted along with the application in the light of Upfront Tariff (Approval & Procedure) Regulations 2011 and decided to grant approval of the Upfront Tariff opted unconditionally by the Lahore Xingzhong Renewable Energy Company (Private) Limited for 40 MW MSW power project at Lahore which is as under:

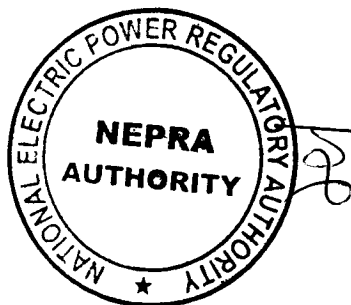
2. **ORDER**

- 2.1 The Authority hereby determines and approves the following upfront tariff for Lahore Xingzhong Renewable Energy Company (Private) for establishing 40 MW Municipal Solid Waste Power Projects (MSWPP) at Lakhodair site at Lahore for delivery of electricity to the power purchaser:



Tariff Components	MSW Incineration Power projects			Indexation
	1-10	11-25	Levelized	
Rs./kWh				
Variable O&M-Foreign	0.2100	0.2100	0.2100	US CPI & PKR / USD
Variable O&M – Local	0.3149	0.3149	0.3149	CPI General
Rs./kW/hr				
Fixed O&M – Local	1.2248	1.2248	1.2248	CPI General
Insurance	0.3499	0.3499	0.3499	PKR / USD
ROE /ROEDC	2.2272	2.2272	2.2272	PKR/USD
Debt Servicing	4.9494	-	3.3504	LIBOR / KIBOR & PKR/USD (If applicable)
Levelized Tariff – Rs/kWh	12.4562	5.5941	10.3170	
Levelized Tariff US Cents/kWh	11.8630	5.3277	9.8257	

- i. The above tariff is applicable for 25 years from COD.
- ii. The above tariff is applicable for MSW power projects.
- 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.
- v. Variable O&M shall be invoiced separately on unit delivered basis.
- vi. Debt:Equity ratio is 75:25.
- vii. The above tariff shall become infructuous in case of decline of generation license.
- viii. This upfront tariff has been worked out on the basis of the interest rate of 6% being offered under SBP scheme. In case of commercial local financing, the tariff shall be computed using applicable KIBOR plus a premium of 300 basis points. In case of commercial foreign financing, the tariff shall be computed using applicable LIBOR plus a premium of 450 basis points. In case negotiated rates/spread is less than the said limits, the savings shall be shared by the power purchaser and the power producer in the ratio of 60:40 respectively. The power producer shall submit relevant authentic documentary evidence to the Authority, for the aforesaid adjustment within 15 days of COD of the relevant company. In case the premium on LIBOR/KIBOR is higher than that mentioned above, no adjustment on the basis of actual higher premium will be allowed.
- ix. The 50% 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 24 months of project construction period as given hereunder.






1 st QTR	2 nd QTR	3 rd QTR	4 th QTR	5 th QTR	6 th QTR	7 th QTR	8 th QTR	Total 24 months
10%	20%	20%	15%	15%	10%	5%	5%	100%

2.2 The PKR/US\$ exchange rate variation will be the average of the quarter. The interest during construction shall be adjusted at the time of COD on account of actual variation in quarterly LIBOR/KIBOR (where applicable) over the approved reference rates. The interest during construction shall be reassessed for the allowed construction period of twenty four months, starting from the date of financial close/construction period, on the same computation basis as already adopted, by applying 3 months KIBOR/LIBOR of last day of the preceding quarter (plus allowed spread thereon), on the basis of phasing for debt injection considered in the computation of upfront tariff.

2.3 Pass through items

2.3.1 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 will 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.

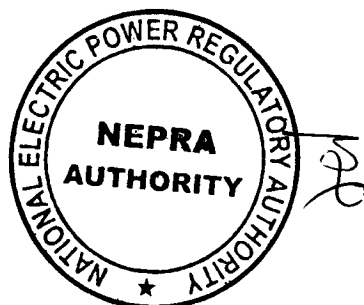
2.3.2 The adjustment for duties and/ or taxes will be restricted only to the extent of duties and/or taxes directly imposed on the company. No adjustment for duties and/or taxes imposed on third parties such as contractors, suppliers, consultants, etc. will be allowed. Withholding tax on dividends will not be allowed as a pass through item.

2.4 Adjustments & Indexations

2.4.1 Following indexation shall be applicable to the reference tariff after one-time adjustment:

- a) Fixed O&M: The fixed O&M component will be adjusted on account of local Inflation. Quarterly adjustments for inflation 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). The formula of indexation will be as under:

F. O&M _(REV)	=	F. O&M _(REF) * CPI _(REV) / CPI _(REF)
Where:		
F. O&M _(REV)	=	The revised Fixed O&M component of tariff



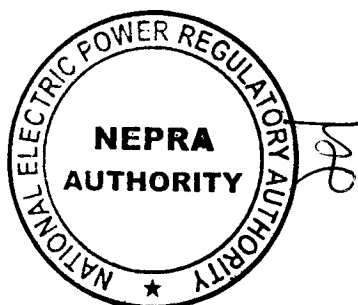
F. O&M _(REF)	=	The reference Fixed O&M component of tariff
CPI _(REV)	=	The applicable revised CPI (General)
CPI _(REF)	=	The reference CPI (General) of 216.61 for the month of August, 2017

- b) Variable O&M-Local: The local variable O&M component will be adjusted on account of local Inflation. Quarterly adjustments for inflation 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). The formula of indexation will be as under:

L V. O&M _(REV)	=	$L V. O\&M_{(REF)} * CPI_{(REV)} / CPI_{(REF)}$
Where:		
L V. O&M _(REV)	=	The revised local variable O&M component of tariff
L V. O&M _(REF)	=	The reference local variable O&M component of tariff
CPI _(REV)	=	The applicable revised CPI (General)
CPI _(REF)	=	The reference CPI (General) of 216.61 for the month of August 2017

- c) Variable O&M-Foreign: The foreign variable 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 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 formula of indexation will be as under:

F V. O&M _(REV)	=	$F V. O\&M_{(REF)} * US CPI_{(REV)} / US CPI_{(REF)} * ER_{(REV)} / ER_{(REF)}$
Where:		
F V. O&M _(REV)	=	The revised foreign variable O&M component of tariff
F V. O&M _(REF)	=	The revised foreign variable O&M component of tariff
US CPI _(REV)	=	The revised US CPI (All Urban Consumers)
US CPI _(REF)	=	The reference US CPI (All Urban Consumers) of 245.519 for the month of August, 2017



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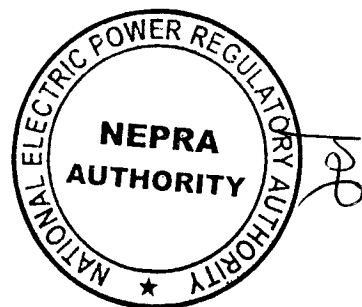
ER(Rev)	=	The revised TT & OD selling rate of US dollar
ER(Ref)	=	The reference TT & OD selling rate of RS. 105/USD

- 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 LIBOR/KIBOR in case of commercial financing. 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(Ref) * ER(Rev) / ER(Ref)
Where;		
ROE(Rev)	=	Revised ROE Component of Tariff
ROE(Ref)	=	Reference ROE Component of Tariff
ER(Rev)	=	The revised TT & OD selling rate of US dollar as notified by the National Bank of Pakistan
ER(Ref)	=	The reference TT & OD selling rate of Rs. 105/USD

- f) Insurance during Operation: The actual insurance cost for the minimum cover required under contractual obligations with the Power Purchaser, not exceeding 1% of the EPC cost, will be treated as pass through. Insurance component of reference tariff shall be adjusted annually as per actual upon production of authentic documentary evidence according to the following formula:

AIC	=	Ins (Ref) / P (Ref) * P (Act)
Where		
AIC	=	Adjusted insurance component of tariff
Ins (Ref)	=	Reference insurance component of tariff
P (Ref)	=	Reference premium @ 1% of EPC Cost at Rs. 105
P (Act)	=	Actual premium or 1% of the EPC Cost converted into Pak Rupees on exchange rate prevailing on the 1st day of the insurance coverage period whichever is lower

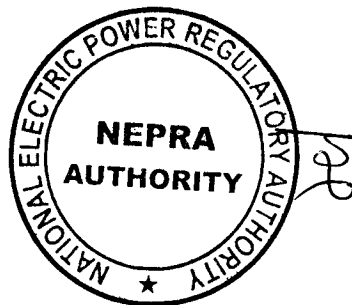





2.5 Terms and condition of Upfront Tariff

2.5.1 The terms and conditions are as under:

- ii. Upfront tariff will be applicable for all new power projects using Municipal Solid Waste.
- iii. The Upfront Tariff will be applicable and become effective after Commercial Operations Date (COD).
- iv. The decision to opt for upfront tariff once exercised will be irrevocable.
- v. The project sponsors will be required to achieve COD within 24 months from date of approval of Upfront tariff by the Authority. No extension will be allowed.
- vi. The mode of transaction will be on take or pay basis. No allowance / adjustment shall be given other than NEPRA allowed tariff.
- vii. The power purchaser shall procure power from the MSW power plants on Must Run basis.
- viii. The projects opting this tariff shall secure debt under the concessionary financing scheme of State Bank of Pakistan. This tariff shall be allowed on the approved terms of commercial financing only after availing the option of financing under SBP scheme.
- ix. Power Producers shall have the option to offer energy to the respective Distribution Company (DISCO) at 11 KV or 132 KV, or to the CPPAG at 132 KV, provided that the cost of interconnection, grid station upgrades etc. for power evacuation shall be incurred by the respective DISCO/ CPPAG.
- x. 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 power producer.
- xi. Pre-COD sale of electricity to the power purchaser, if any, will be allowed subject to the terms and conditions of PPA, at the applicable tariff excluding principal repayment of debt component and interest 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.
- xiii. The PPA shall be consistent with all applicable documents including Generation License and NEPRA's Tariff determination for the power producer. Any provisions of PPA/ PPA 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.
- xiv. The terms and conditions specified herein form an integral part of this tariff.
- xv. General assumptions, which are not covered in this determination and National Electric Power Regulatory Authority Upfront Tariff (Approval & Procedure) Regulations, 2011, may be dealt with as per the standard terms of the Power Purchase Agreement.




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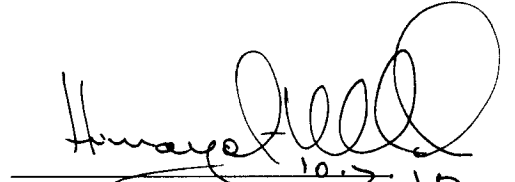


3. The above order of the Authority, along with attached annexures (I to II), are recommended for notification by the Federal Government, in the Official Gazette, in accordance with Section 31(7) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997.

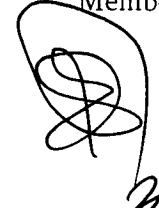
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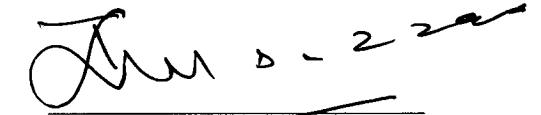
(Saif Ullah Chhattah)
Member 11-7-2018



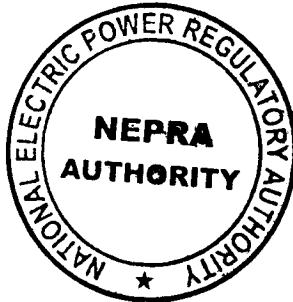
(Himayat Ullah Khan)
Member 10-7-18



(Rahmatullah)
Vice Chairman 20-7-18



(Brig (R) Tariq Saddozai)
Chairman



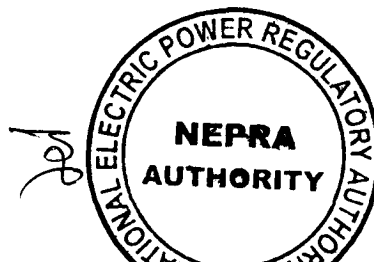
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Lahore Xingzhong Renewable Energy Company (Pvt.) Limited Generation Tariff for Municipal Solid Waste Power Project

Year	Variable O&M Local	Variable O&M Foreign	Fixed O&M Local	Insurance	Return on Equity	Loan Repayment	Interest Charges	Capacity Charge	Total Tariff @ availability factor	
	Rs./kWh		Rs./kW/hr						Rs./kWh	US cents / kWh
1	0.3149	0.2100	1.2248	0.3499	2.2272	2.7904	2.1590	8.7513	13.9885	13.3224
2	0.3149	0.2100	1.2248	0.3499	2.2272	2.9617	1.9878	8.7513	13.0268	12.4065
3	0.3149	0.2100	1.2248	0.3499	2.2272	3.1434	1.8060	8.7513	12.1933	11.6127
4	0.3149	0.2100	1.2248	0.3499	2.2272	3.3363	1.6131	8.7513	12.1933	11.6127
5	0.3149	0.2100	1.2248	0.3499	2.2272	3.5410	1.4084	8.7513	12.1933	11.6127
6	0.3149	0.2100	1.2248	0.3499	2.2272	3.7583	1.1911	8.7513	12.1933	11.6127
7	0.3149	0.2100	1.2248	0.3499	2.2272	3.9889	0.9605	8.7513	12.1933	11.6127
8	0.3149	0.2100	1.2248	0.3499	2.2272	4.2337	0.7157	8.7513	12.1933	11.6127
9	0.3149	0.2100	1.2248	0.3499	2.2272	4.4935	0.4559	8.7513	12.1933	11.6127
10	0.3149	0.2100	1.2248	0.3499	2.2272	4.7692	0.1802	8.7513	12.1933	11.6127
11	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
12	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
13	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
14	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
15	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
16	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
17	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
18	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
19	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
20	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
21	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
22	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
23	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
24	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
25	0.3149	0.2100	1.2248	0.3499	2.2272			3.8019	5.5941	5.3277
Levelized Tariff	0.3149	0.2100	1.2248	0.3499	2.2272	2.3919	0.9585	7.1523	10.3170	9.8257

Note: The variable O&M invoice shall be raised based on the unit delivered basis.



**Reference Upfront Tariff for Municipal Solid Waste Power Projects
Debt Servicing Schedule**

Period	Local Debt					Annual Principal Repayment Rs./kW/hr	Annual Interest Rs./kW/hr	Annual Debt Service Rs./kW/hr
	Principal Million Rupees	Repayment Million Rupees	Mark-Up Million Rupees	Balance Million Rupees	Debt Service Million Rupees			
	275.6254	5.0790	4.1344	270.5464	9.2134	0.6821	0.5552	1.2374
	270.5464	5.1552	4.0582	265.3913	9.2134	0.6923	0.5450	1.2374
	265.3913	5.2325	3.9809	260.1588	9.2134	0.7027	0.5346	1.2374
	260.1588	5.3110	3.9024	254.8478	9.2134	0.7133	0.5241	1.2374
1	275.6254	20.7776	16.0758	254.8478	36.8534	2.7904	2.1590	4.9494
	254.8478	5.3906	3.8227	249.4572	9.2134	0.7240	0.5134	1.2374
	249.4572	5.4715	3.7419	243.9857	9.2134	0.7348	0.5025	1.2374
	243.9857	5.5536	3.6598	238.4321	9.2134	0.7458	0.4915	1.2374
	238.4321	5.6369	3.5765	232.7952	9.2134	0.7570	0.4803	1.2374
2	254.8478	22.0526	14.8008	232.7952	36.8534	2.9617	1.9878	4.9494
	232.7952	5.7214	3.4919	227.0738	9.2134	0.7684	0.4690	1.2374
	227.0738	5.8073	3.4061	221.2665	9.2134	0.7799	0.4574	1.2374
	221.2665	5.8944	3.3190	215.3722	9.2134	0.7916	0.4457	1.2374
	215.3722	5.9828	3.2306	209.3894	9.2134	0.8035	0.4339	1.2374
3	232.7952	23.4058	13.4476	209.3894	36.8534	3.1434	1.8060	4.9494
	209.3894	6.0725	3.1408	203.3169	9.2134	0.8155	0.4218	1.2374
	203.3169	6.1636	3.0498	197.1533	9.2134	0.8278	0.4096	1.2374
	197.1533	6.2561	2.9573	190.8972	9.2134	0.8402	0.3972	1.2374
	190.8972	6.3499	2.8635	184.5473	9.2134	0.8528	0.3846	1.2374
4	209.3894	24.8421	12.0114	184.5473	36.8534	3.3363	1.6131	4.9494
	184.5473	6.4451	2.7682	178.1022	9.2134	0.8656	0.3718	1.2374
	178.1022	6.5418	2.6715	171.5603	9.2134	0.8786	0.3588	1.2374
	171.5603	6.6400	2.5734	164.9204	9.2134	0.8917	0.3456	1.2374
	164.9204	6.7396	2.4738	158.1808	9.2134	0.9051	0.3322	1.2374
5	184.5473	26.3665	10.4870	158.1808	36.8534	3.5410	1.4084	4.9494
	158.1808	6.8406	2.3727	151.3402	9.2134	0.9187	0.3187	1.2374
	151.3402	6.9433	2.2701	144.3969	9.2134	0.9325	0.3049	1.2374
	144.3969	7.0474	2.1660	137.3495	9.2134	0.9465	0.2909	1.2374
	137.3495	7.1531	2.0602	130.1964	9.2134	0.9607	0.2767	1.2374
6	158.1808	27.9844	8.8690	130.1964	36.8534	3.7583	1.1911	4.9494
	130.1964	7.2604	1.9529	122.9360	9.2134	0.9751	0.2623	1.2374
	122.9360	7.3693	1.8440	115.5667	9.2134	0.9897	0.2477	1.2374
	115.5667	7.4799	1.7335	108.0868	9.2134	1.0045	0.2328	1.2374
	108.0868	7.5921	1.6213	100.4948	9.2134	1.0196	0.2177	1.2374
7	130.1964	29.7016	7.1518	100.4948	36.8534	3.9889	0.9605	4.9494
	100.4948	7.7059	1.5074	92.7888	9.2134	1.0349	0.2024	1.2374
	92.7888	7.8215	1.3918	84.9673	9.2134	1.0504	0.1869	1.2374
	84.9673	7.9388	1.2745	77.0284	9.2134	1.0662	0.1712	1.2374
	77.0284	8.0579	1.1554	68.9705	9.2134	1.0822	0.1552	1.2374
8	100.4948	31.5242	5.3292	68.9705	36.8534	4.2337	0.7157	4.9494
	68.9705	8.1788	1.0346	60.7917	9.2134	1.0984	0.1389	1.2374
	60.7917	8.3015	0.9119	52.4902	9.2134	1.1149	0.1225	1.2374
	52.4902	8.4260	0.7874	44.0642	9.2134	1.1316	0.1057	1.2374
	44.0642	8.5524	0.6610	35.5118	9.2134	1.1486	0.0888	1.2374
9	68.9705	33.4587	3.3948	35.5118	36.8534	4.4935	0.4559	4.9494
	35.5118	8.6807	0.5327	26.8311	9.2134	1.1658	0.0715	1.2374
	26.8311	8.8109	0.4025	18.0203	9.2134	1.1833	0.0541	1.2374
	18.0203	8.9431	0.2703	9.0772	9.2134	1.2011	0.0363	1.2374
	9.0772	9.0772	0.1362	0.0000	9.2134	1.2191	0.0183	1.2374
10	35.5118	35.5118	1.3416	-	36.8534	4.7692	0.1802	4.9494

