

National Electric Power Regulatory Authority Islamic Republic of Pakistan

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> No. NEPRA/TRF-266/UCH-II-2014/14416-18 October 1, 2015

Subject: Decision of the Authority in the matter of Motion for Leave for Review filed by Uch-II Power (Private) Ltd. against the Decision of the Authority dated April 22, 2015 in the matter of Tariff Modification Petition [Case # NEPRA/TRF-266/UCH-II-2014]

Dear Sir,

This is in continuation of this office letter No. NEPRA/TRF-266/Uch-II-2014/6206-6208 dated April 22, 2015 whereby Decision of the Authority in the matter of Tariff Modification Petition filed by Uch-II Power (Pvt.) Ltd. (UCH-II) was sent to the Federal Government for notification in the official Gazette.

- 2. Please find enclosed herewith the decision of the Authority along with Annex-I & Annex-II(b) (18 pages) in the matter of Motion for Leave for Review filed by Uch-II Power (Pvt.) Ltd. against NEPRA's Decision dated 22.04.2015 in Case No. NEPRA/TRF-266/Uch-II-2014.
- 3. The Decision of the Authority 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 (XL of 1997).

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 MOTION FOR LEAVE FOR REVIEW FILED BY UCH-II POWER (PRVATE) LIMITED AGAINST THE DECISION OF THE AUTHORITY DATED APRIL 22, 2015 IN THE MATTER OF TARIFF MODIFICATION

1. Introduction:

- 1.1. UCH-II Power (Pvt) Limited (herein after referred as 'UCH-II' or 'the Petitioner' or as 'the company') is a generation licensee of National Electric Power Regulatory Authority (hereinafter referred as the "Authority"). A decision in the matter of tariff modification was given by the Authority on April 22, 2015. Being aggrieved with the said decision, UCH-II filed a motion for leave for review on April 30, 2015 under Rule 16(6) of NEPRA (Tariff Standards and Procedure) Rules, 1998 (hereinafter referred as the "Rules").
- 1.2. In the motion for leave for review, UCH-II sought review to the extent of the following items:

i. EPC Cost

- a) FME related Cost
- b) Furniture and Fixture

ii. Non-EPC Cost

- a) Startup and Production Cost
- b) Sabotage and Terrorism Insurance (S & T Insurance)
- c) Residential Colony

2. <u>Proceedings:</u>

The motion for leave for review was admitted by the Authority on May 26, 2015. Hearing in the instant case was held on Jun 18, 2015 at NEPRA Tower, G-5/1, Islamabad. The hearing was attended by UCH-II and NTDCL. Having heard the contentions raised during the course of hearing and after having gone through the relevant record and documentary evidences, the Authority on respective points agitated by the Petitioner has decided as follows:

3. EPC Cost:

3.1 FME Related Cost

The Petitioner had requested the Authority to allow a cost of Rs. 40.185 million (equivalent to US \$ 0.499 million) in the review motion owing to a Force Majeure Event (herein after referred as 'FME') due to record heavy rainfall in September, 2012. The breakup of the claimed FME related cost is given below;

Cost Details	PKR
Detention and Demurrage Charges	31,669,426
Bridge Repair Cost (i.e. placement of frame structure)	4,149,505





Road Repair Cost	4,366,839	
Total Cost	40,185,770	

- 3.1.2 The Petitioner in its review petition has claimed that the cost associated with a FME should be allowed to it as a part of EPC cost. The submissions of the Petitioner on this claim are reproduced as under:
 - This cost is related to the one in a hundred year rain experience at site.
 - The rain caused damage to the roads, bridges and infrastructure leading to the site.
 - Delivery of the critical equipment (Gas Turbines, Generators etc) to site was delayed.
 - PPIB and NTDC recognized the impact to the project related to the delayed deliveries of critical equipment.
 - The National Highway Authority (and other government entities) were overwhelmed resulting in delays fixing the roads and bridges.
 - The Petitioner in an effort to mitigate the impact on the project under took the repair work of the roads / bridges and making them useable for delivery of equipment at site.
- 3.1.2 The Petitioner further submitted that both NTDC and PPIB were timely informed about the FME of September 2012. NTDC and PPIB vide letter no GM/ (CPPA)/DGMF and 7(708)PPIB-1057-15/FIN respectively, not only accepted the FME event but also granted extension of time by giving additional 62 days to the Petitioner for the completion of the project.
- 3.1.3 The Petitioner during the hearing and in review motion submitted that the NTDC and PPIB lack authority to comment or approve the cost associated with the Force Majeure Event. The power to assess and approve the FME related cost rests exclusively with NEPRA.
- 3.1.4 The Authority has considered the above mentioned submissions of the Petitioner and has concluded that the cost was incurred by the Petitioner after the acceptance of the FME by relevant agencies. The Authority is of the view that the Petitioner had made all efforts and approached all the relevant governmental agencies with a request for repair of road and bridge but could not get the required response. Accordingly the petitioner had to carry out the required work in order to avoid further delay in the completion of the project. In view thereof and considering the unusual circumstances, the Authority has decided to allow the FME related cost of Rs. 40.185 million (equivalent to US \$ 0.499 million), subject to verifiable documentary evidences at the time of COD.

3.2 Furniture and Fixture

3.2.1 The Petitioner has requested the Authority to allow the cost of Rs. 12.682 million (US \$ 0.157 million). The cost pertains to the furniture and fixture for plant control room, warehouse and offices, which was earlier not factored in EPC cost of the Petitioner's original tariff petition. The Petitioner has requested that the cost should be allowed being an indispensible cost for the operation of the plant.



3.3.3 The Authority considered the request made by the Petitioner and is of the view that the EPC contract is a turnkey contract and cost of furniture and fixture is part and parcel of the EPC cost. It is therefore the duty of the Petitioner to negotiate the EPC contract as a prudent investor. Furthermore, the Authority has refused to allow such cost to other IPPs in its earlier decisions. Hence, The Authority has decided not to allow the aforesaid furniture and fixture cost as a separate line item of EPC cost as claimed by the Petitioner.

4 Non-EPC Cost:

4.1 Start-up and Production Cost

- 4.1.1 **Gas**: The Petitioner requested the Authority to allow the actual gas used in the start up and the production of the UCH-II instead of restricting it up to RCOD i.e. January 8, 2014. The Petitioner submitted that the actual COD was achieved on April 4, 2014 instead of January 8, 2014 (RCOD) due to the FME. Resultantly, the plant commissioning tests were delayed and had to be carried out in March 2014 (subsequent to RCOD). Therefore, most of the gas was consumed between January 8, 2014 (RCOD) and April 4, 2014 (actual COD).
- 4.1.2 The Authority has considered the aforementioned claim of the Petitioner and is of the view that the gas consumption during the testing phase was erroneously linked with RCOD. The gas consumption during testing before synchronization is considered a legitimate cost. The Authority has therefore decided to allow actual gas consumption, subject to verification at the time of COD of the net payments made by NTDCL on account of fuel charges for the units delivered before COD.

4.2 Sabotage and Terrorism Insurance (S & T Insurance)

- 4.2.1 The Petitioner in its review motion against the Authority's tariff modification decision has requested to allow additional S&T insurance cost of US \$ 560,449 (exceeding 1.35% of the EPC cost). The Authority in its tariff modification decision has allowed insurance cost up to 1.35% of the EPC cost subject to verifiable documentary evidence at the time of COD.
- 4.2.2 The Petitioner in its review motion submitted that S&T insurance was triggered due to geographical location of the project, which also experienced militant activities and rocket attacks. The Petitioner submitted that due to the remote and difficult location of the project many insurance/reinsurance markets are unwilling to insure, which makes it difficult to buy insurance at competitive prices resulting in higher premiums as compare to other locations in Pakistan.
- 4.2.3 The Authority considered the submission given by the Petitioner and has found that it was the sole responsibility of the Petitioner to negotiate for the insurance rate and keep the cost within the confines of allowed 1.35% of EPC cost. The Authority, being consistent with the decision made for other IPPs has decided to upheld its earlier decision in the instant matter.





4.3 Residential Colony

- 4.3.1 The Petitioner in its review motion requested the Authority to allow Rs. 174.403 million (equivalent to US \$ 2.1678 million) for establishment of a residential colony. In support of its claim the Petitioner has submitted that
 - The project site is located in a remote area isolated and considerably away from any major town.
 - Without providing reasonable living conditions it is extremely difficult to retain qualified and trained O & M staff.
 - Security situations around the site and in Baluchistan province impact the cost of doing business in the area.
 - The project had to pay a premium to hire the services of an experienced contractor required for the construction of the residential colony.
 - The wholesale price index increased 38% from 2009 (year of last determination) to 2011 (year of contract execution).
 - The Petitioner is requesting the Authority to kindly give due consideration to its location and security conditions associated with our project site that resulted in the increase of cost.
- 4.3.2 The Authority has considered the above mentioned claim of the Petitioner and is of the view that the Authority in its earlier review motion decision dated 26.06.2009 has already revised upwards the per sq.ft construction cost. The Petitioner was unable to justify that this revised cost was not sufficient at the time of the previous determination. In view thereof the Authority has decided not to accept the claim of the Petitioner.

5 ORDER

4.3.3 Pursuant to section 31 (4) of Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 read with Rule 6 of the NEPRA Licensing (Generation) Rules 2000, Uch-II Power (Pvt.) Limited (Uch-II) is allowed to charge, subject to adjustment of Capacity Purchase Price on account of net dependable capacity and net thermal efficiency as determined by test jointly carried out by the Central Power Purchasing Agency (CPPA) of the National Transmission and Dispatch Company (NTDC)/CPPA-G and the Petitioner, the following specified tariff for delivery of electricity to the CPPA of the NTDC/CPPA-G for procurement on behalf of Ex-WAPDA Distribution Companies:

REFERENCE SPECIFIED TARIFF

Tariff Components	Year 1 to10	Year 11to 14	Year 15to 25	Indexation
Capacity Charge PKR/kW/Hour				
O&M Foreign	0.1285	0.1285	0.1285	US\$ /PKR & US CPI





O&M Local	0.0621	0. 0621	0. 0621	WPI
Insurance	0.0852	0.0852	0.0852	US\$ /PKR
Debt Service	1.3223	0.1191	-	LIBOR/KIBOR
Return on Equity	0.4546	0.4546	0.4546	US\$/PKR
ROE during Construction	0.0932	0.0932	0.0932	US\$ /PKR
Total Capacity Charge	2.1459	0.9427	0.8236	
Energy Charge on Operation on				
Gas Rs./kWh				
Fuel Cost Component	3.0900	3.0900	3.0900	Fuel Price
Variable O&M – Foreign	0.1173	0.1173	0.1173	US\$ /PKR & US CPI
Local	0.0221	0.0221	0.0221	WPI

Note:

- i) The levelized tariff over the life of 25 years at a notional 60% plant factor and 10% discount rate has been determined as Rs. 6.1889/kWh.
- ii) The applicable component wise tariff is indicated at **Annex-I**.
- iii) Debt Servicing Schedule is attached as Annex-II.
- iv) The Annex I&II are the inherent part of this Order.
- v) Debt Service component will be adjusted for exchange rate variation for currencies in which the borrowing is taken permissible GOP policy.

The following adjustments /indexations shall be applicable to reference tariff;

I.(i) Adjustment in EPC Cost

One time adjustment of EPC cost shall be made for foreign currency fluctuation on account of the portion paid in the relevant foreign currency at the time of COD. In this regard, the sponsor will be required to provide all the necessary relevant details along with verifiable documentary evidence. Based upon such information, the relevant currency of EPC cost components shall be established and applied to the corresponding EPC cost components. The relevant tariff components i.e. Insurance, ROE, ROEDC, Principal Repayment and Interest Charges shall be adjusted only for currency fluctuation against the reference parity values.

I.(ii) Adjustment due to Variation in Net Capacity

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The reference tariff has been determined on the basis of minimum net capacity of 375.20 MW at delivery point, at following reference site conditions:

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•	Ambient temperature	27.3° C
•	Relative humidity	48.5%
•	Atmospheric pressure	1006 mbar

All the relevant tariff components shall be adjusted at the time of COD based upon the Initial Dependable Capacity (IDC) to be carried out for determination of contracted capacity. Adjustments shall be made according to the following formula:

$$CC_{(Ad_J)} = CC_{(Ref)} \times 375.20 \text{ MW} / NC_{(IDC)}$$

No Adjustment shall be made if IDC is established at less than the net capacity of 375.20 MW at reference site conditions.

Note: Above formula shall be applicable to all the individual relevant components of Capacity Charges.

Where:

$CC_{(Adj)}$	=	Adjusted relevant Capacity Charge components of tariff
CC _(Ref)	=	Reference relevant Capacity Charge components of tariff
NC(IDC)	=	Net Capacity at reference site conditions established

Note: Reference capacity charge components of Tariff i.e. Revised O&M Foreign, Revised O&M Local, Insurance, Debt Servicing, Return on Equity and ROEDC to be adjusted as per IDC test

I.(iii) Adjustment due to variation in Net Efficiency

The reference tariff has been determined on the basis of minimum net efficiency of 49.360 %. However the fuel cost component shall not be adjusted if the net thermal efficiency is established less than efficiency of 49.360 %. Based upon the heat rate test of the complex to be carried out jointly by the CPPA and the Uch-II at the time of COD, the reference fuel cost component of tariff shall be adjusted in case the net efficiency is established at higher than 49.360 %. The adjustment shall be made according to the following formula;

$$FC_{(Adj)}$$
 = Rs. 3.0900 per kWh / 6913 x HR_(T)

Where:

FC_(Adj) = Adjusted fuel cost component at the time of heat rate test at COD

HR(T) = Net Efficiency in Btu per kWh established after Heat Rate





Test at the time of COD

I.(iv) Adjustment Based on Actual Interest During Construction & Financing Fees

Debt Service, ROE and ROEDC shall be adjusted on account of actual variation in drawdown and Interest During Construction & Financing Fees with reference to the estimated figure of US\$ 40.09 million and US\$ 22.05 million respectively.

I.(v) Adjustment due to Custom Duties & Taxes

Debt Service, Return on Equity and ROE during construction shall be adjusted on account of actual variation in custom duties and withholding taxes with reference to the estimated figure of US \$ 18.600 million subject to production of verifiable documentary evidences at the time of COD.

I.(vi) Adjustment for variation in Dollar/Rupee parity

Relevant reference tariff components shall be adjusted at COD on account of variation in Dollar/Rupee parity.

II. Adjustment in Insurance as per actual

The actual insurance cost for the minimum cover required under contractual obligations with the Power Purchaser, not exceeding 1.35% of the EPC cost, will be treated as pass-through. Insurance component of reference tariff shall be adjusted as per actual on yearly basis upon the production of authentic documentary evidence by Uch-II according to the following formula;

Insurance (AdJ) = AIC / P (Ref) * P(Act) /80.45 * ER(Rev)

Where;

AIC = Adjusted Insurance Component (Rs. kW/hr) as per IDC

Test

P (Ref) = Reference Premium US\$ 3.4801 million

 $P_{(Act)}$ Actual Premium or 1.35% of the adjusted EPC whichever

is lower

ER_(Rev) = The revised TT & OD selling rate of US dollar as notified by the National Bank of Pakistan at Invoice date





III. Adjustment in Return on Equity (ROE)

Uch-II also requested to allow quarterly adjustment on account of US\$/PKR exchange rate based on the revised TT &OD selling rate of US dollar notified by the National Bank of Pakistan (NBP). Uch-II request is inline with the decision of the Economic Coordination Committee (ECC) and is, therefore, being allowed subject to adjustment on account of exchange rate variation according to the following formula;

 $ROE_{(Rev)}$

 $= ROE_{(Ref)} * ER_{(Rev)} / ER_{(Ref)}$

Where:

 $ROE_{(Rev)}$ = The revised ROE component of the Capacity

Purchase Price

ROE(Ref) = The reference ROE component of the Capacity

Purchase Price determined at the time of COD

ER_(Rev) = The revised TT & OD selling rate of US\$ as notified

by the National Bank of Pakistan

 $ER_{(Ref)}$ = The reference exchanges rate of PKR 80.45 = 1 US\$.

IV. Adjustment on Return on Equity during Construction (ROEDC)

ROEOC component of tariff will be adjusted subject to exchange rate variation according to the following formula;

ROEDC (Rev) = ROEDC (Ref) * ER (REV)/ ER (Ref)

Where:

 $ROEDC_{(Rev)}$ = The revised ROEDC component of the

Capacity Purchase Price

ROEDC (Ref) = The reference ROEDC component of the

Capacity Purchase Price determined at the time

of COD

The revised TT & OD selling rate of US\$ as notified by the National Bank of Pakistan





ER (Ref)

The reference exchanges rate of PKR 80.45 = 1 US\$.

V. Adjustment of Withholding Tax:

Withholding tax will be adjusted on account of exchange rate variation according to the following formula:

WT (Rev) = WT (Ref) * ER (Rev)/80.45

Where;

 $WT_{(Rev)} = Revised Withholding tax$

WT (Ref) = Reference Withholding tax

ER (Rev) = The revised TT&OD selling rate of US dollar as

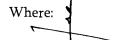
notified by the National Bank of Pakistan

VI. Pass-Through Items

No provision for income tax, workers' profit participation fund and workers' welfare fund, any other tax, excise duty or other duty, levy, charge, surcharge or other governmental impositions, payable on the generation sales, has been accounted for in the tariff. If Uch-II is obligated to pay any tax on the income purely generated from its main operation i.e. generation of electric power, the exact amount should be reimbursed by CPPA/CPPA-G on production of the original receipts. This payment may be considered as pass-through (Rs./kW/hr) payment spread over a 12 months period in addition to the capacity purchase price in the Reference Tariff. Furthermore, in such a scenario, Uch-II may also submit to the CPPA details of any tax shield savings and the CPPA will deduct the amount of these savings from its payment to Uch-II on account of taxation.

Withholding tax on dividend is a pass-through item, which is allowed in accordance with the Government Guidelines for determination of tariff for new IPPs. In a reference tariff table, withholding tax number is indicated as reference and CPPA (NTDC/CPPA-G) shall make payment on account of withholding tax at the time of actual payment of dividend subject to maximum of 7.5% of 15% equity at the time of hourly payment (Rs./kW/hour) spread over a 12 months period according to the following formula:

Withholding Tax Payable = $[(15\% *(E_{(Ref)} - E_{(Red)}) + ROEDC_{(Ref)}]*7.5\%*ER_{(Rev)}/80.45$







E _(Ref)	=	Adjusted Reference Equity at COD
$E_{(\text{Red})}$	=	Equity Redeemed
$ROEDC_{(Ref)}$	=	Reference Return on Equity During Construction
ER (Rev)	=	The revised TT & OD selling rate of US dollar as notified by the National Bank of Pakistan

In case the Uch-II 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 Uch-II is able to recover the same in hourly payments spread over 12 months period as a pass through from the Power Purchaser in future on the basis of the total dividend payout.

VII. Indexations:

The following indexation shall be applicable to the reference tariff as follows:

a) Indexation applicable to O&M

The Fixed O&M local component of Capacity Charge will be adjusted on account of Inflation (WPI) and Fixed O&M foreign component on account of variation in US CPI and dollar/Rupee exchange rate. Quarterly adjustment for local inflation, foreign inflation and exchange rate variation will be made on 1st July, 1st October, 1st January and 1st April based on the latest available information with respect to WPI notified by the Federal Bureau of Statistics (FBS), US CPI issued by US Bureau of Labor Statistics and revised IT & 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

F O&M(FREV) Rs. 0.1285 / kW/ Hour * US CPI(Rev)/ 212.193 * ER(Rev)/ 80.45

FO&M(LREV) = Rs. 0.0621 / kW / Hour *WP1 (REV)/138.38

Where:

F O&M(FREV) = The revised foreign Fixed O&M Foreign Component of tariff

F O&M(LREV) = The revised local Fixed O&M Local Component of tariff

WPI(REV) = The revised Wholesale Price Index (manufactures)





WPI(REF) = The reference WPI (manufactures) of 138.38 of February 2009
 US CPI(REV) = The revised US CPI (All Urban Consumers)
 US CPI(REF) = Reference US CPI of 212.193 for February 2009
 ER(REV) = The Revised TT & OD selling rate of US dollar as notified by the National Bank of Pakistan

Note: The reference numbers indicated above shall be replaced by the revised numbers after incorporating the required adjustments at COD.

ii) Variable O&M

The formula for indexation of variable O&M component will be as under:

 $V \; O\&M \; (\text{frev}) = \\ \qquad \qquad \text{Rs. } 0.1173/kWh \; ^* \; US \; CPI(\text{Rev})/212.193 \; ^*ER(\text{Rev})/ \; 80.45$

V O&M (LREV) = Rs. 0.0221/kWh * WPI (REV) / 138.38

Where:

 $VO\&M_{(FREV)}$ = The revised foreign Variable O&M Foreign Component of

tariff

V O&M(LREV) = The revised local variable O&M Local Component of tariff

WPI(REV) = The revised Wholesale Price Index (manufactures)

WPI(Ref) = Reference WPI (manufactures) of 138.38 of February 2009

US CPI(REV) = The revised US CPI (All Urban Consumers)

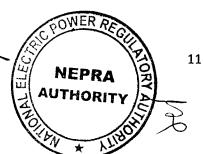
US CPI(REF) = Reference US CPI of 212.193 for February 2009

ER(REV) = The Revised TT & OD selling rate of US dollar as notified by

the National Bank of Pakistan

Note: The reference Variable O&M indicated above shall be replaced with the revised number at COD after incorporating the required adjustment based upon the IDC Test.

iii) Adjustment for KIBOR and LIBOR variation





The interest part of fixed charge component will remain unchanged throughout the term except for the adjustment due to variations in interest rate as a result of variation in quarterly KIBOR and LIBOR according to the following formula;

 Δ I (L) = P(LREV) * (K1BOR(REV) -12.81%) / 4 Δ II (Foreign Debt-US\$) = P(FREV) * (L1BOR(REV) -4%) / 4 Δ III (Foreign Debt-Euro) = P(FREV) * (EURIBOR(REV) - 4%) / 4

Where:

 Δ I(local debt)

the variation in interest charges applicable corresponding to variation in quarterly KIBOR. A I can be positive or negative depending upon whether KIBOR($_{Rev}$) > or < 12.81%. The interest payment obligation will be enhanced or reduced to the extent of Δ I for each quarter under adjustment applicable on quarterly basis.

Δ II(US\$ debt)

= the variation in interest charges applicable corresponding to variation in quarterly LIBOR. Δ II can be positive or negative depending upon whether LIBOR (Rev) > or < 4%. The interest payment obligation will be enhanced or reduced to the extent of Δ II for each quarter under adjustment applicable on quarterly basis.

Δ III(Euro debt)

= the variation in interest charges applicable corresponding to variation in quarterly EURIBOR. Δ III can be positive or negative depending upon whether EURIBOR (Rev) > or < 4%. The interest payment obligation will be enhanced or reduced to the extent of Δ III for each quarter under adjustment applicable on quarterly basis.

P(REV)

= is the outstanding principal (as indicated in the attached debt service schedule to this order) on a quarterly basis on the relevant quarterly calculations date. Period I shall commence on the date on which the 18 installment is due after availing the grace period.

iv) Fuel Price Variation

The Variable Charge Part of the tariff relating to fuel cost shall be adjusted on account of the fuel price variations as agreed between OGDCL and the petitioner and approved



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by the competent Authority. In this regard, the fuel cost component of tariff shall be revised according to the following formula:

$$FC(Rev) = FC(Ad_J) per kWh*FP(Rev) / FP(Ref)$$

Where:

 $P_{(REV)} \hspace{1.5cm} = \hspace{1.5cm}$

is the outstanding principal (as indicated in the attached debt service schedule to this order) on a quarterly basis on the relevant quarterly calculations date. Period I shall commence on the date on which the 1st installment is due after availing the grace period.

iv) Fuel Price Variation

The Variable Charge Part of the tariff relating to fuel cost shall be adjusted on account of the fuel price variations as agreed between OGDCL and the petitioner and approved by the competent Authority. In this regard, the fuel cost component of tariff shall be revised according to the following formula:

$$FC(Rev) = FC(Ad_J) per kWh*FP(Rev) / FP(Ref)$$

Where:

 $FC_{(Rev)}$ = The revised fuel cost component of Variable Charge on low BTU gas.

FP (Rev) = The new price of gas as agreed between OGDCL and the petitioner and approved by the competent Authority

FP $_{(Ref)}$ = The reference price of gas as indicated by the petitioner of US\$ 5.0102 / MMBTU adjusted for HHV-LHV factor of 1.109 and exchange rate of Rs. 80.45/US\$.

FC_(Adj) = Adjusted fuel cost component subsequent to heat rate test at COD

Adjustment on account of local inflation, foreign inflation, foreign exchange variation, KIBOR, LIBOR and EURIBOR variation and fuel price variation will be approved and announced by the Authority for immediate application within seven working days after receipt of Uch-II request for adjustment in accordance with the requisite indexation mechanism stipulated herein,



For onetime adjustment of relevant tariff components at COD according to the mechanism laid down in this order, Uch-I1 shall submit the relevant documents to NEPRA within 30 days of COD for adjustment.

VIII. Terms and Conditions of Tariff:

- i) Capacity Charge (Rs./kW/hour) applicable to dependable capacity at the delivery point.
- ii) The tariff is applicable for a period of 25 years commencing from the date of the Commercial Operation.
- iii) Use of Low BTU Gas is allowed as single fuel for operation of the plant.
- iv) All new equipment will be installed and the plant will be of standard configuration.

 The plant availability shall be 90%.
- vi) Dispatch criterion will be based on the Energy Charge.
- vii) Scheduled Outage periods per annum shall be in accordance with the 2006 standardized PPA.
- viii) NTDC/CPPA will be responsible for constructing the interconnection to the grid.
- ix) All invoicing and payment terms are assumed to be in accordance with the 2006 standardized PPA.
- x) Tolerance in Dispatch shall be in accordance with the 2006 standardized PPA.
- xi) If there is any change in any assumption that may lead to change in the tariff shall be referred to NEPRA for approval.
- xii) No corporate income tax and no minimum turnover tax have been assumed.

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AUTHORITY	
10 N 21 9 er	(Mai. (R) Haroon Rashid)
(Khawaja Muhammad Naeem)	(1124). (11) 11410011 114011111)
Member	Member
(Himayat Ullah Khan) Member	(Syed Masoov ul Hassan Naqvi) Member
Xus-	2 22
(Brig. (R) T ariq Saddozai)	ROWER REGIL
Chairman 38/9/15	NEPRA NEPRA
	huse of 10.15

UCH II Power (Private) Limited Reference Tariff Schedule

	En	ergy Char	ge (PKR/kW	7h)				Capaci	ty Charge (PI	(R/kW/Hr)				CPP	Tariff
		Variable	Variable	<u> </u>	Fixed O&M-	Fixed O&M-		Return on		Withholding	Loan	Interest		60% Plant	PKR per
Year	Fuel	O&M	O&M	Total			Insurance		Equity during Constru-				Total	Factor	
		Local	Foreign		Local	Foreign		Equity	ction	Тах @7.5%	Repayment	Charges		PKR/kWh	kWh
1	3.0900	0.0221	0 1173	3.2293	0 0621	0.1285	0.0852	0.4546	0.0932	0.0411	0.5765	0.7459	2.1869	3.6449	6.8742
2	3.0900	0.0221	0 1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	0.6261	0 6962	2.1869	3.6449	6.8742
3	3.0900	0.0221	0.1173	3 2293	0.0621	0.1285	0.0852	0.4546	0.0932	0 0411	0.6803	0.6420	2.1869	3.6449	6.8742
4	3 0900	0.0221	0 1173	3 2293	0 0621	0.1285	0.0852	0.4546	0.0932	0 0411	0.7396	0.5827	2.1869	3.6449	6.8742
5	3 0900	0 0221	0.1173	3 2293	0.0621	0.1285	0.0852	0 4546	0.0932	0.0411	0 8044	0.5179	2 1869	3 6449	6.8742
6	3.0900	0 0221	0.1173	3 2293	0 0621	0 1285	0.0852	0.4546	0.0932	0.0411	0 8753	0.4470	2.1869	3.6449	6.8742
7	3 0900	0 0221	0.1173	3.2293	0 0621	0 1285	0 0852	0 4546	0.0932	0.0411	0 9530	0.3693	2.1869	3.6449	6.8742
8	3.0900	0 0221	0.1173	3.2293	0 0621	0 1285	0.0852	0 4546	0.0932	0.0411	1.0381	0.2842	2.1869	3.6449	6.8742
9	3.0900	0.0221	0.1173	3.2293	0 0621	0.1285	0.0852	0.4546	0 0932	0 0411	1.1314	0.1909	2.1869	3.6449	6.8742
10	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0 4546	0.0932	0 0411	1.2338	0.0885	2 1869	3.6449	6.8742
11	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0 4546	0.0932	0.0411	0.1009	0.0182	0 9836	1.6394	4.8687
12	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	0.1056	0.0135	0.9836	1.6394	4.8687
13	3.0900	0 0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	0.1105	0.0085	0.9836	1.6394	4.8687
14	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0 4546	0.0932	0.0411	0 1157	0.0033	0.9836	1.6394	4.8687
15	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
16	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
17	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
18	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
19	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
20	3.0900	0 0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
21	3.0900	0 0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0 0411	-	-	0.8646	1.4410	4.6703
22	3.0900	0 0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
23	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0 0932	0.0411	-	-	0.8646	1.4410	4.6703
24	3.0900	0 0221	0.1173	3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	-	-	0.8646	1.4410	4.6703
25	3.0900	0.0221	0.1173	3.2293	0.0621	0.1285	0 0852	0.4546	0.0932	0.0411	-	-	0 8646	1.4410	4.6703
Levelized	l Tariff (1	25 Years)		3.2293	0.0621	0.1285	0.0852	0.4546	0.0932	0.0411	0.5632	0.3480	1.7757	2.9596	6.1889

Net Capacity

375.20 MW

Reference Exchange Rate

PKR 80 45 = 1 US\$

Reference US CPI

212.193 for February 2009 as notified by the US Labour Bureau of Labor Statistics

Reference WPI (Manufacturer)

138.38 for February 2009 as notified by the Federal Bureau of Statistics

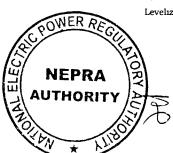
Efficiency

49.360% (Minimum)

Levelized Tariff

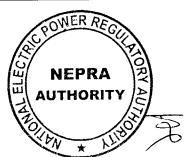
Levelized tariff in US Cents

7.6929 /kWh



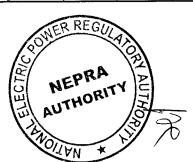
UCH II Power (Private) Limited Debt Servicing Schedule

	For	eign Debt-US	D Commer	cial Facilit	У		Fore	ign Debt-DFI U	SD		Annuai	Annual	Annual Debt Servicing Rs./kW/ hr.
Period	Principai Million \$	Repayment Million \$	Mark-Up Million \$	Balance Million \$	Debt Service Millin \$	Principal Miliion \$	Repayment Million \$	Mark-Up Million \$	Balance Million \$	Debt Service Millin \$	Principal Repayment Rs./kW/ hr.	Interest Rs./kW/ hr.	
i	84.90	1.29	2 02	83.61	\$3 31	87.22	1 44	1.74	85 78	3.19	_		
	83.61	1 33	1.99	82.28	3.31	85.78	1.47	1.72	84 30	3.19			
l	82 28	1 36	1 95	80 93	3.31	84 30	1 50	1.69	82 80	3.19			
	80 93	1 39	1.92	79 54	3 31	82 80	1.53	1 66	81.27	3.19			
1	84.90	5.37	7.88	79.54	13.25	87.22	5.95	6.80	81.27	12.75	0.2771	0.3593	0.6364
1	79.54	1.42	1 89	78.11	3 31	81.27	1 56	1.63	79.71	3 19			
	78 11	1 46	1.86	76.66	3 31	79.71	1.59	1.59	78.11	3.19			
	76 66	1 49	1 82	75.17	3 31	78.11	1 63	1.56	76.49	3.19			
	75.17	1 53	1.79	73 64	3 31	76.49	1.66	1 53	74 83	3.19	0.3020	0.3344	0.636
2	79.54	5.90	7.35	73.64	13.25	81.27	6.44	6.31	74.83	12.75 3.19	0.3020	0.3344	0.636
	73 64	1 56	1.75	72 08	3.31	74 83	1.69	1.50	73 14 71.41	3.19		'	1
	72 08	1 60	1.71	70 48	3.31	73 14	1 73	1.46	69 65	3.19			
	70.48	1 64	1 67	68.84	3 31	71.41	1.76	1 43 1.39	67.85	3.19			
_	68 84	1.68	1 63	67 16	3.31	69 65	1 80 6.97	5.78	67.85	12.75	0.3292	0.3072	0.636
3	73.64	6.48	6.77	67.16	13.25	74.83	1 83	1 36	66 02	3.19	0.3292	0.3012	0.000
	67 16	1.72	1.60	65 45	3 31	67.85			l	3.19			
	65.45	1 76	1.55	63 69	3.31	66 02	1 87	1 32	64.15	3.19	1		
ļ	63 69	1 80	1.51	61 89	3.31	64 15	191	1.28	62.25 60.31	3.19			ļ
_ 1	61 89	1 84	1 47	60 05	3 31	62 25	1.94	1.24	l	12.75	0.3589	0.2775	0.63
4	67.16	7.11	6.13	60.05	13.25	67.85	7.55	5.21	60.31		0.3389	0.2775	0.03
	60 05	1.89	1 43	58.17	3 31	60 31	1.98	1.21	58 32	3.19 3.19	ļ		
	58 17	1.93	1 38	56.24	3 31	58 32	2.02	1.17	56.30	3.19	1		
	56 24	1 98	1.34	54.26	3 31	56 30	2 06	1.13	54.24 52 14	3.19			
_	54.26	2 02	1.29	52 24	3.31	54.24	2 10	108	52 14 52.14	12.75	0.3912	0.2451	0.63
5	60.05	7.81	5.43	52.24	13.25	60.31	8.17	4.58	1	3 19	0.3912	0.2451	0.63
	52 24	2.07	1 24	50.17	3 31	52.14	2.15	1.04	49 99	1			1
	50.17	2 12	1 19	48 05	3.31	49 99	2 19	1 00	47 80 45.57	3.19			
	48 05	2.17	1 14	45 88	3.31	47.80	2.23	0 96	43.57	3.19			
_	45.88	2 22	1.09	43 65	3.31	45.57	2 28 8.84	0 91 3.91	43.29 43.29	12.75	0.4266	0.2098	0.63
6	52.24	8.58	4.66	43.65	13.25	52.14	2 32	0.87	40 97	3 19	0.7200	0.2050	0.00
	43 65	2 27	1.04	41.38	3.31	43 29 40 97	2 32	0 82	38 60				
	41 38	2 33	0.98	39 05	3.31		2.42	0.77	36 18				
	39 05	2.38	0.93		3.31	38 60 36.18	2.42	0.77	33 72				
_ '	36.67	2 44	0.87	34 23	3.31	43.29	9.57	3.18	33.72	12.75	0.4651	0.1713	0.63
7	43.65	9.43	3.82	34.23	13.25 3 31	33.72	2.51	0.67	31.20	1	0.1001	0.2	
	34.23	2 50	0.81	31 73 29.17	3 31	33.72 31.20	2.51	0.67	28 64	1			
	31.73	2 56	0 75		3 31	28 64	2.50	0 57	26 02	1			
	29.17	2.62 2.68	0 63	1	3.31	26 02	2 67	0 52	23 36			1	
	26 55 34.23	10.36	2.89	23.87	13.25	33.72	10.36	2.39	23.36		0.5071	0.1293	0.63
8	23 87	2.74	0 57	21 13	3.31	23 36	2 72	0.47	20.64				
	1	1	0.50	1	3.31	20.64	2.78	0.41	17.86	1		İ	1
	21 13	2 81 2 88	0.50		3.31	17.86	2.83	0.36	15.03				
	18 32	2.94	0.44	1	3.31	15 03	2.83	0.30	12.14		!		1
9	15 44 23.87	11.38	1.87		13.25	23.36	11.22	1.54	12.14	1	0.5530	0.0834	0.63
y			1		3.31	12.14	2.95	0 24	9 20				
	12 50	3 01	0.30	l .	3.31	9 20	1	0.18	6.19	L			
	9.48	3 09	1		3.31	6 19	3.06	0.18	3.13	1	l .		
	6.39	3.16 3.23	1		1	3.13	I .	0.06	(0.00	1	3		1
10	3.23 12.50	12.50	0.75		13.25	12.14		0.61	(0.00	.1	II .	0.0334	0.763



UCH II Power (Private) Limited Debt Servicing Schedule

		Foreign	Debt-DFI E	uro				Local Debt			Annual	Annual	Annual
Period	Principal Million €	Repayment Million €	Mark-Up Million €	Balance Million €	Debt Service Million €	Principal Million Rs.	Repayment Million Rs.	Mark-up Milllon Rs.	Balance Million Rs.	Debt Service Millin Rs.	Principal Repayment Rs./kW/ hr.	Interest Rs./kW/ hr.	Debt Servicing Rs./kW/ hr.
	92 62	1 53	1.85	91.09	3.39	1,964.73	20.91	77.66	1,943.82	98 56			
	91 09	1 56	1 82	89 52	3 39	1,943 82	21.73	76 83	1,922.08	98.56			
	89.52	1.60	1.79	87.93	3.39	1,922 08	22.59	75.97	1,899.49	98.56	i		
	87.93	1 63	1 76	86 30	3.39	1,899.49	23 49	75 08	1,876.00	98 56			
1	92.62	6.32	7.22	86.30	13.54	1,964.73	88.72	305.53	1,876.00	394.26	0.2356	0.3313	0.5669
	86.30	1.66	1.73	84 64	3 39	1,876 00	24.42	74 15	1,851.59	98 56]		
ŀ	84 64	1 69	1.69	82.95	3.39	1,851 59	25.38	73.18	1,826 21	98.56		1	
	82.95	1 73	1 66	81 22	3 39	1,826.21	26 38	72.18	1,799 82	98 56			
- 1	81 22	1.76	1.62	79.46	3.39	1,799 82	27 43	71.14	1,772 40	98.56			
2	86.30	6.84	6.70	79.46	13.54	1,876.00	103.61	290.65	1,772.40	394.26	0.2573	0.3096	0.5669
	79 46	1 80	1.59	77.66	3.39	1,772 40	28.51	70 05	1,743.89	98 56			
	77.66	1 83	1 55	75 83	3 39	1,743 89	29 64	68.93	1,714 25	98.56			
i	75 83	1 87	1 52	73 96	3.39	1,714.25	30 81	67.76	1,683 44	98.56	[
	73 96	1 91	1.48	72.05	3.39	1,683 44	32 03	66 54	1,651.42	98 56			
3	79.46	7.40	6.14	72.05	13.54	1,772.40	120.98	273.27	1,651.42	394.26	0.2812	0.2857	0.5669
	72 05	1 94	1.44	70.11	3.39	1,651 42	33 29	65.27	1,618 12	98.56			
l l	70.11	1.98	1 40	68 13	3 39	1,618.12	34 61	63.96	1,583 52	98.56			
	68.13	2 02	1 36	66 10	3.39	1,583.52	35.98	62.59	1,547 54	98 56			
	66 10	2.06	1.32	64 04	3 39	1,547.54	37.40	61.17	1,510.14	98.56			
4	72.05	8.02	5.53	64.04	13.54	1,651.42	141.27	252.98	1,510.14	394.26	0.3075	0.2594	0.5669
	64.04	2 11	1.28	61 93	3.39	1,510 14	38.88	59 69	1,471.27	98.56			
	61 93	2.15	1 24	59 79	3.39	1,471.27	40.41	58 15	1,430.85	98 56			
	59.79	2 19	1 20	57.60	3 39	1,430 85	42 01	56.55	1,388 84	98.56			
	57 60	2 23	1.15	55 36	3.39	1,388 84	43.67	54 89	1,345.17	98.56			
5	64.04	8.68	4.87	55.36	13.54	1,510.14	164.97	229.29	1,345.17	394.26	0.3365	0.2304	0.5669
	55.36	2 28	1 11	53.08	3.39	1,345.17	45 40	53.17	1,299 78	98 56			
	53 08	2.32	1.06	50 76	3 39	1,299.78	47.19	51.37	1,252.59	98 56			
	50 76	2.37	1 02	48 39	3.39	1,252 59	49.06	49.51	1,203.53	98.56			
	48 39	2 42	0.97	45 97	3 39	1,203.53	50 99	47.57	1,152 54	98 56			
6	55.36	9.39	4.15	45.97	13.54	1,345.17	192.64	201.62	1,152.54	394.26	0.3685	0.1984	0.5669
İ	45 97	2.47	0.92	43 50	3 39	1,152.54	53 01	45.55	1,099.53	98 56	1		
	43.50	2.52	0 87	40 99	3.39	1,099 53	55.11	43.46	1,044.42	98.56			
	40 99	2.57	0 82	38 42	3.39	1,044 42	57.28	41.28	987.14	98.56			
	38.42	2 62	0.77	35.81	3 39	987 14	59 55	39.02	927 59	98.56			
7	45.97	10.17	3.38	35.81	13.54	1,152.54	224.95	169.31	927.59	394.26	0.4039	0.1630	0.5669
	35.81	2 67	0.72	33 14	3 39	927.59	61.90	36 66	865.69	98.56			
	33 14	2.72	0.66	30 41	3 39	865 69	64.35	34 22	801 34	98.56			
	30.41	2 78	0.61	27 64	3 39	801.34	66.89	31 67	734 45	98 56		ľ	
	27 64	2.83	0 55	l	3 39	734 45	69 54	29.03	664.91	98 56	1		
8	35.81	11.00	2.54	24.80	13.54	927.59	262.68	131.58	664.91	394.26	0.4431	0.1239	0.5669
	24 80	2 89	0.50		3 39	664 91	72 28	26.28	592.63	98 56			
	21 91	2 95	0.44		3 39	592.63	75.14	23 42	517 49	98.56		l	
	18.97	3 01	0.38	1	3 39	517 49	78.11	20 45	439.38	98.56			
	15 96	3.07	0 32	1	3.39	439 38	81.20	17.37	358 18	98.56			
9	24.80	11.91	1.63		13.54	664.91	306.73	87.52	358.18	394.26	0.4864	0.0805	0.5669
_	12 89	3 13	0.26	9.76	3 39	358 18	84.41	14 16	273 77	98.56	i]	
l	9 76	3.19	0.20		3.39	273 77	87.74	10.82	186 03	98 56	1		}
l	6.57	3 25	0.20		3 39	186 03	91.21	7 35	94 82	98.56	1		
l	3.32	3 32	0.07	(0 00		94 82	94.82	3.75	-	98.56	1		
10	12.89	12.89	0.65			358.18	358.18	36.08		394.26	,	0.0325	0.5669



UCH II Power (Private) Limited Debt Servicing Schedule

	Debt Servicing Schedule Foreign Debt-ECA Facility USD Total for 5 Loan Facility												
		Foreign Debt	t-ECA Facil	ity USD		Annual				for 5 Loan Fa	cilites		
Period	Principal Million \$	Repayment Million \$	Mark-Up Million \$	Balance Million \$	Debt Service Millin \$	Principal Repayment Rs./kW/ hr.	Annual Interest Rs./kW/ hr.	Annual Debt Servicing Rs./kW/ hr.	Annual Principal Repayment Rs./kW/hr.	Annual Interest Rs./kW/hr.	Annual Debt Servicing Rs./kW/hr.		
	50.00	0.64	0.58	49.36	1 22								
	49.36 48 71	0.65 0.66	0.57 0.56	48.71 48 05	1.22 1.22								
	48 05	0.66	0.55	47.39	1.22								
1	50.00	2.61	2.26	47.39	4.86	0.0638	0.0552	0.1191	0.5765	0.7459	1.3223		
	47.39	0.67	0.55	46.72	1.22								
	46.72 46.04	0 68 0 69	0.54 0.53	46.04 45.36	1 22 1 22]				
	45.36	0.69	0.53	44.66	1.22			:					
2	47.39	2.73	2.13	44.66	4.86	0.0668	0.0522	0.1191	0.6261	0.6962	1.3223		
	44.66	0.70	0 51	43.96	1.22								
	43.96	0 71	0 51	43.25	1.22								
	43.25 42.53	0 72 0.73	0 50 0.49	42.53 41 80	1.22 1.22								
3	44.66	2.86	2.01	41.80	4.86	0.0700	0.0491	0.1191	0.6803	0.6420	1.3223		
	41 80	0.74	0 48	41.07	1.22								
	41.07	0.74	0.47	40 32	1 22								
	40 32	0.75	0.46	39.57	1.22				· '				
4	39.57 41.80	0.76 2.99	0 46 1.87	38 81 38.81	1.22 4.86	0.0732	0.0458	0.1191	0.7396	0.5827	1.3223		
	38.81	0.77	0.45	38.04	1.22	0.0702	0.0400	0.1151	0.7050	0.0027	1.0220		
	38.04	0.78	0.44	37.26	1.22								
	37.26	0.79	0.43	36.48	1.22								
_	36.48	0 80	0.42	35 68	1 22	0.0===							
5	38.81 35.68	3.13 0.81	1.73 0.41	35.68 34.87	4.86 1.22	0.0767	0.0424	0.1191	0.8044	0.5179	1.3223		
	34.87	0.81	0.41	34.06	1.22								
	34.06	0.82	0 39	33 23	1.22								
	33.23	0.83	0 38	32.40	1.22								
6	35.68	3.28	1.59	32.40	4.86	0.0803	0.0388	0.1191	0.8753	0.4470	1.3223		
	32.40	0.84	0.37	31.56	1.22								
	31.56 30.70	0.85 0.86	0.36 0.35	30.70 29 84	1.22 1.22								
	29 84	0.87	0.33	28 97	1.22								
7	32.40	3.43	1.43	28.97	4.86	0.0840	0.0350	0.1191	0.9530	0.3693	1.3223		
	28.97	0.88	0 33	28.09	1.22								
	28.09	0.89	0 32	27 19	1.22								
	27 19 26.29	0 90	0.31	26.29	1.22 1.22								
8	28.97	0.91 3.59	1.27	25.38 25.38	4.86	0.0879	0.0311	0.1191	1.0381	0.2842	1.3223		
-	25.38	0.92	0.29	24.45	1.22								
	24.45	0.93	0.28	23.52	1 22								
	23.52	0 95	1	22.57	1 22								
_	22.57	0.96	0.26	21.61	1 22 4.86	0.0921	0.0270	0.1191	1.1314	0.1909	1.3223		
9	25.38 21.61	3.76 0.97	1.10 0.25	21.61 20 65	1 22	0.0921	0.0270	0.1191	1.1314	0.1909	1.0220		
	20 65	0.98	0.23	19.67	1.22								
	19 67	0.99	0.23	18.68	1 22								
	18.68	1.00	0.21	17 68	1 22			0.1101		0.000-	1		
10	21.61 17.68	3.94 1.01	0.93 0 20	17.68 16.67	4.86 1.22	0.0964	0.0227	0.1191	1.2338	0.0885	1.3223		
	16.67	1.01	0.19	15.64	1.22								
	15.64	1.04	0.18	14 60	1.22								
	14.60	1.05	0 17	13 56	1.22								
11	17.68	4.12	0.74	13.56	4.86	0.1009	0.0182	0.1191	0.1009	0.0182	0.1191		
	13 56	1.06	0.16	12.50	1 22								
	12.50 11.42	1.07 1.08	0.14 0.13	11.42 10.34	1.22 1.22								
	10.34	1.10	0.13	9.24	1.22								
12	13.56	4.31	0.55	9.24	4.86	0.1056	0.0135	0.1191	0.1056	0.0135	0.1191		
	9 24	1.11	0 11	8 13	1.22								
	8 13	1.12		7.01	1.22								
	7.01 5.88	1.14 1.15	1	5.88 4.73	1.22 1.22								
13	9.24	4.52		4.73	4.86	0.1105	0.0085	0.1191	0.1105	0.0085	0.1191		
	4.73	1.16	0 05	3.57	1.22								
	3 57	1.17	1	2.39	1.22					[
	2 39	1.19	1	1.20	1.22								
_14	1.20 4.73	1.20 4.73		(0.00) (0.00)	1 22 4.86	0.1157	0.0033	0.1191	0.1157	0.0033	0.1191		
NER A		1 7.73	0.14	(0.00)	7.00	3.1137	3.0000	5.1191		2.5550			

