



National Electric Power Regulatory Authority

Islamic Republic of Pakistan

Registrar

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No. NEPRA/R/TRF-100/MFPA/12288-C3

July 7, 2022

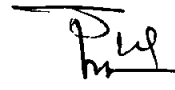
1.	Chief Executive Officer, Faisalabad Electric Supply Company Abdullahpur, Canal Bank Road Faisalabad	2.	Chief Executive Officer, Gujranwala Electric Power Company Ltd. 565/A, Model Town, G.T. Road, Gujranwala
3.	Chief Executive Officer, Hyderabad Electric Supply Co. Ltd. WAPDA Offices Complex, Hussainabad, Hyderabad	4.	Chief Executive Officer Islamabad Electric Supply Co. Ltd. Street # 40, Sector G-7/4, Islamabad.
5.	Chief Executive Officer, Lahore Electric Supply Company Ltd. 22-A, Queens Road, Lahore	6.	Chief Executive Officer Multan Electric Power Co. Ltd. MEPCO Headquarter, Khanewal Road, Multan
7.	Chief Executive Officer, Peshawar Electric Supply Company WAPDA House, Shami Road, Sakhi Chashma, Peshawar	8.	Chief Executive Officer Quetta Electric Supply Company Zarghoon Road, Quetta
9.	Chief Executive Officer, Sukkur Electric Power Company Ltd. Administration Block, Thermal Power Station, Old Sukkur.	10	Chief Executive Officer Tribal Areas Electricity Supply Company Limited (TESCO) Room No. 213, 1 st Floor, WAPDA House, Shami Road, Sakhi Chashma, Peshawar

Subject: **Decision of the Authority in the matter of Fuel Charges Adjustment for the month of May 2022 for XWDISCOs along with Notification Thereof**

Enclosed please find herewith copy of the Decision of the Authority (13 Pages) regarding adjustment in fuel charges in respect of Ex-WAPDA Distribution Companies for the month of May 2022 and its Notification i.e. S.R.O. 1003(I)/2022 dated 07.07.2022.

2. XWDISCOs are directed that while charging the fuel charges adjustment from their consumers, the Order of the Honourable Court(s), if any, be kept in mind and ensure compliance with the Order(s) of the Court(s), whatsoever, in this regard. In case of non-compliance of Courts Order the concerned DISCO shall be held responsible for violating / defying the orders of the Honourable Court(s).

Enclosure: As above (Decision alongwith Notification is also available on NEPRA's website)


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(Syed Safer Hussain)

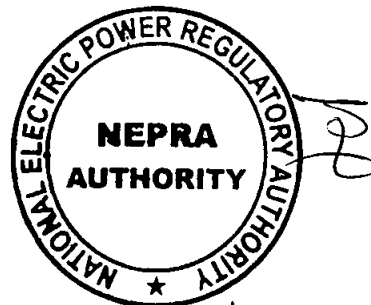
CC:

1. Secretary, Ministry of Energy (Power Division), 'A' Block, Pak Secretariat, Islamabad.
2. Secretary, Cabinet Division, Cabinet Secretariat, Islamabad.
3. Secretary, Ministry of Finance, 'Q' Block, Pak Secretariat, Islamabad.
4. Member (Power), WAPDA, WAPDA House, Shahrah-e-Quaid-e-Azam, Lahore.
5. Managing Director, NTDC, 414 WAPDA House, Shahrah-e-Quaid-e-Azam, Lahore.
6. Chief Executive Officer, Central Power Purchasing Agency Guarantee Limited, Shaheen Plaza, 73-West, Fazl-e-Haq Road, Islamabad.



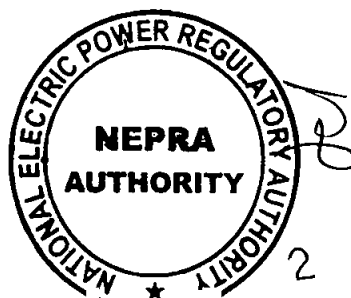
**DECISION OF THE AUTHORITY IN THE MATTER OF FUEL CHARGES ADJUSTMENT
FOR THE MONTH OF MAY 2022 FOR EX-WAPDA DISCOS**

1. Pursuant to the provisions of Section 31(7) of the Regulation of Generation, Transmission and Distribution of Electric Power Act 1997, (NEPRA Act) read with the mechanism/formula determined by the Authority in the tariff determinations for Ex-WAPDA DISCOs notified in the Official gazette, the Authority has to make adjustments in the approved tariff on account of any variations in the fuel charges on a monthly basis.
2. In order to make adjustments in the approved tariff of the Ex-WAPDA DISCOs due to variations in the fuel charges for the month of May 2022, necessary information as to the details of the actual fuel charges etc. was obtained from Central Power Purchasing Agency Guarantee Limited (CPPA-G).
3. The Authority has reviewed the information provided by CPPA-G seeking monthly fuel cost adjustment (FCA) and due diligence is done accordingly. From perusal of the information so provided by CPPA-G, the actual pool fuel cost for the month of May 2022 is Rs.13.8969/kWh, against the reference fuel cost component of Rs.5.9322/kWh as indicated in the Annexure-IV of the notified consumer-end tariff of Ex-WAPDA DISCOs for the FY 2019-20. The actual fuel charges, as reported by CPPA-G, for the month of May 2022 increased by Rs.7.9647/kWh (**Annex-I**) as compared to the reference fuel charges.
4. Notwithstanding the fact that the monthly adjustment on account of fuel charges variation is made in pursuance of the provisions of section 31(7) of the NEPRA Act, as well as on the basis of a mechanism/formula already determined by the Authority in its annual tariff determinations for Ex-WAPDA DISCOs, yet in order to meet the ends of natural justice and to arrive at an informed decision, the Authority decided to conduct a hearing in the matter. The advertisement for hearing along-with salient features and details of the proposed adjustments, in the approved tariff, were published in newspapers on June 18, 2022 and also uploaded on NEPRA's Website for information of all concerned stakeholders.
5. The Authority conducted the hearing in the matter on June 27, 2022 (Monday) at NEPRA Tower, Ataturk Avenue (East), G-5/1, Islamabad through zoom. The date of hearing was mentioned in the advertisement published in newspapers and also uploaded on NEPRA's website, whereby participation in the hearing and filing of comments/ objections from any interested/affected person were invited. Separate notices were also sent to the interested / affected parties.
6. On the date fixed for hearing, representatives from CPPA-G, National Power Control Center (NPCC)/NTDC, Media and General Public were present. However, no representation was made from WAPDA Power Privatization Organization (WPPO), Sui Southern Gas Company Limited (SSGCL), Sui Northern Gas Pipelines Limited (SNGPL) and Ministry of Finance despite serving the hearing notice.
7. The Authority observed that while submitting the monthly FCA request, CPPA-G and NTDC/NPCC certifies that;
 - a) **2002 Power Policy Plants**
 - i. All purchases have been made from Generation Companies having valid generation License issued by NEPRA.





- ii. Invoices of all Electricity Purchases have been processed in accordance with the rates, terms & conditions as determined by NEPRA. Payments related to periodical adjustments are also made as per decision of NEPRA.
 - iii. The above statement is true, based on facts and from verifiable documentary evidence. In case of any deviation / variation observed if not rectified at later stage, CPPA-G will be responsible for the consequences arising out of any misstatement under NEPRA Act and its Rules & Regulations.
- b) 1994 Power Policy Plants**
- i. All purchases have been made from IPPs under 1994 Policy, including HUBCO, KAPCO & Chasnupp and excluding Tavanir, having valid generation license issued by NEPRA.
 - ii. Invoices of all Electricity Purchases have been made strictly in accordance with the rates, terms & conditions as stipulated in the respective Power Purchase Agreements.
 - iii. All payments to IPPs are being made after observing all formalities provided in the respective Power Purchase Agreements.
 - iv. All purchases have been made in accordance with the Power Purchase Agreement
 - v. The above statement is true, based on facts and from verifiable documentary evidences. In case of any deviation / variation observed if not rectified at later stage, CPPA-G will be responsible for the consequences arising out of any misstatement under NEPRA Act and its Rules & Regulations.
- c) Power Plants Operations**
- i. It is certified that Merit Order was followed as defined under section 2(I)(x) of the NEPRA Licensing (Generation) Rules, 2000, while operating power plants in its fleet during month of May 2022.
 - ii. Claimed Partial Loading Adjustment charges (PLAC) was not due to fuel constraints but was strictly in accordance with the provision of their respective Power Purchase Agreement and the plants were operated on partial load due to less demand in the system and transmission/distribution network constraints .
8. Accordingly for the purpose of instant FCA, the information along-with certification given by CPPA-G has been relied upon. In case of any variation, error, omission or misstatement found out at a later stage, CPPA-G shall be responsible and the same would adjusted in the subsequent monthly fuel charges adjustment.
9. The Authority observed that CPPA-G has purchased energy of 54.525 GWh from Tavanir Iran in May 2022 at a cost of Rs.1,033.64 million, however, contract between CPPA-G and Tavanir Iran for import of Power up-to 104 MW has expired on December 31, 2021. In view thereof, the cost of electricity purchased from Tavanir Iran is being allowed strictly on provisional basis, subject to its adjustment once the Authority decides the extension in the contract between CPPA-G and Tavanir Iran or otherwise. The cost being allowed on provisional basis is to avoid piling up of the cost and one time burdening of the consumers in future.
10. The Authority, from the data provided by CPPA-G, observed that fuel cost of power plants have been claimed by CPPA-G as per the Authority's approved rates, accordingly, the same



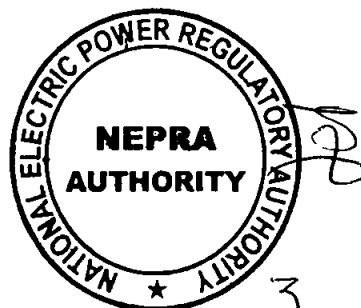
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has been allowed for the month of May 2022. The same has been verified and allowed by the Authority. A summary of the amounts claimed by CPPA-G and being allowed by the Authority is as under;

Power Producer	Prev. Adj. Claimed by CPPA-G Rs.	Prev. Adj. Proposed Rs.
Attock-Gen	(1)	(1)
Foundation Power	(205,292)	(205,292)
Orient	224,399,908	224,399,908
Nisbat Chumian	15,761,146	15,761,146
Salf Power	11,952,647	11,952,647
Sapphire Power	162,981,415	162,981,415
Hubco Nazawal	23,505,065	23,505,065
Liberty Power	33,289,480	33,289,480
Halmore	12,340,159	12,340,159
Uch-II	82,864,374	82,864,374
JDW-II	125,913,347	125,913,347
JDW-III	73,924,797	73,924,797
Hamea Sugar Mills	414,804,727	414,804,727
Almoiz Industries Limited	839,542	839,542
Chanaar Energy Limited	1,399,712	1,399,712
China Hub Power (Pvt.) Ltd	(87,381,159)	(87,381,159)
Engro PowerGen Thar TPS	2,381,784	2,381,784
Layyah Sugar Mills	11,574,906	11,574,906
QATPL	1,298,135,853	1,298,135,853
Haveh Bahadur Shah	2,532,427,006	2,532,427,006
Huaneng Shandong Ruyi Energy (Pvt) Ltd	(24,916,229)	(24,916,229)
Beloki	1,653,062,901	1,653,062,901
Port Qasim	(60,939,857)	(60,939,857)
AES Lalpir	(493,430)	(493,430)
Saba Power	(744,805)	(744,805)
Tavanir Iran	2,030,564	2,030,564
Guddu 747 (CC)	(975,466)	(975,466)
Nandipur	(736)	(736)
Total	6,507,932,357	6,507,932,357

11. As per the data submitted by CPPA-G, XWDISCOs purchased 16.769 GWh from Captive Power Plants (CPPs) during May 2022, for which CPPA-G provided actual details of energy purchased from these plants. According to the details provided by CPPA-G, the actual fuel cost of this energy is Rs.78.594 million. The same being as per the NEPRA approved mechanism, has been considered while working out the FCA of May 2022.
12. During the hearing, the Authority also observed that energy from costlier RFO and HSD based power plants was generated to the tune of over Rs.43,452 million and Rs.857 million respectively, during the month of May 2022. The Authority has been directing NPCC/NTDC & CPPA-G repeatedly to provide complete justification in this regard, to the satisfaction of the Authority and submit complete details for deviation from Economic Merit Order (EMO), showing hourly generation along-with the financial impact for deviation from EMO, if any, and the reasons, thereof. The Authority also directed CPPA-G/NPCC/NTDC in the previous monthly FCA decisions, as under;
 - I. System Operator shall report to CPPA-G, within 24 hours, dispatch of generation plant(s) out of merit order along with reasons thereof. The copy of the report shall be sent to NEPRA simultaneously.
 - II. CPPA-G shall scrutinize the above mentioned dispatch report in terms of Scheduling and Dispatch Code (SDC) of Grid Code and prepare a report which shall comprise of;
 - a. all dispatch deviation from merit order;
 - b. the plants available but not dispatched ; and
 - c. Dispatch deviation justified or unjustified in terms of SDC of Grid Code along-with their financial impact.



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- III. CPPA-G shall share the report with the system operator and also submit it to NEPRA at the time of filing of monthly fuel price adjustment request.
13. The Authority observed that the required data/information was submitted by CPPA-G along-with the monthly FCA data of May 2022, however, the same was not as per the requirements of the Authority. Accordingly, CPPA-G was directed to submit that the report as per the desired format for consideration of the Authority.
 14. NPCC/NTDC during the hearing, explained operation of power plants on RFO, however, the Authority observed that an in-house analysis has also been carried out, to work out the financial impact due to deviation from EMO based on the information submitted by NPCC. As per the in-house analysis/ workings carried out, the net amount deductible, on provisional basis, from the overall claim due to deviation from EMO is Rs. 796 million (Rs. 794.61 million financial impact due to System constraints and Rs. 1.4 million due to underutilization of efficient power plants). The Authority has decided to deduct this amount provisionally in the instant FCA, until NPCC/ NTDC and CPPA-G provide the required details along-with complete justification in this regard to the satisfaction of the Authority.
 15. Here it is also pertinent to mention that during the hearing of FCA for the month of April 2022, CPPA-G and NPCC agreed to revise the EMO list, posted on their website to exclude the RFO, Gas and RLNG power plants which are not supplying energy to CPPA-G due to lack of availability of fuel. CPPA-G/NPCC is again directed to ensure compliance of the same.
 16. The Authority during hearing also inquired from NPCC regarding its certificate for operation of power plants on Partial Load and claim of Partial Load Adjustment Charges (PLAC). The same was explained/clarified by NPCC during the hearing.
 17. In view of the above discussion, the Authority has calculated the fuel cost for the month of May 2022, after accounting for the aforementioned adjustments, and including costs arising out due to application of various factors, as provided in the respective PPAs of the Power Producers and claimed by CPPA-G in its FCA request. Here it is pertinent to mention that the amount arising out due to application of PPA factors, for the six RFO based IPPs, incorporated under 2002 Power Policy, is being allowed on provisional basis and shall be subject to adjustment, based on the final outcome of the ongoing *suo moto* proceedings against RFO based IPPs.
 18. NTDC, reported provisional T&T losses of 323.345 GWh i.e. 2.42%, based on energy delivered on NTDC system during May 2022. NTDC in addition also reported T&T losses of 42.440 GWh i.e. 2.82%, for PMLTC (HVDC) line.
 19. NTDC is allowed T&T losses of 2.80% only at 500KV and 220 KV network, while PMLTC (HVDC) is allowed T&T losses of maximum up-to 4.3%.
 20. Accordingly, for the month of May 2022, T&T losses of 323.345 GWh have been verified for NTDC system based on units delivered only at 500KV and 220 KV network. Regarding PMLTC (HVDC), the claimed T&T losses i.e. 42.440 GWh, being within the Authority's allowed limit have also considered while working out the FCA of May 2022.



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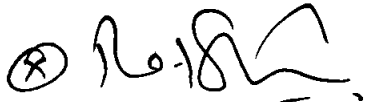
21. The Authority noted that as per the NEPRA (Alternative and Renewable Energy) Distributed Generation and Net Metering Regulations, 2015, the price payable by a Distribution Company for net kWh shall be the national average power purchase price (NAPP) of the Distribution Company as determined by the Authority and notified by the Federal Government. The currently notified NAPP is Rs. 12.95/kWh. The Authority considering the exorbitant increase in the monthly energy purchase price, directs CPPA-G to provide detail of net metering units purchased by all XWDISCOs along-with its subsequent monthly FCA request.
22. The Authority hereby directs CPPA-G to provide the Technically/financially verified data of each generation company pertaining to previous month along-with its next monthly FCA request, in order to ensure that any required adjustments are made in a timely manner.
23. The Authority, after incorporating the aforementioned adjustments, has reviewed and assessed an increase of Rs.7.9040/kWh (**Annex-II**) in the applicable tariff for XWDISCOs on account of variations in the fuel charges for the month of May 2022 as per the following details:

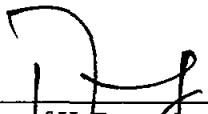
Actual Fuel Charge Component for May 2022	Rs.13.8363/kWh
Corresponding Reference Fuel Charge Component	Rs.5.9322/kWh
Fuel Price Variation for the month of May 2022-Increase	Rs.7.9040/kWh

24. In view of the aforementioned, the Authority has decided that adjustment as referred above;
- Shall be applicable to all the consumer categories except lifeline consumers.
 - Shall be shown separately in the consumers' bills on the basis of units billed to the consumers in the month of May 2022.
 - XWDISCOs shall reflect the fuel charges adjustment in respect of May 2022 in the billing month of July 2022; and
 - While effecting the Fuel Adjustment Charges, the concerned XWDISCOs shall keep in view and strictly comply with the orders of the courts notwithstanding this order.


AUTHORITY

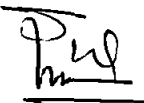

Engr. Maqsood Anwar Khan
Member

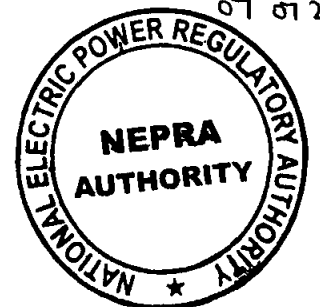

Rafique Ahmed Shaikh
Member


Tauseef H. Farooq
Chairman

⊗ My additional note is enclosed


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Additional Note

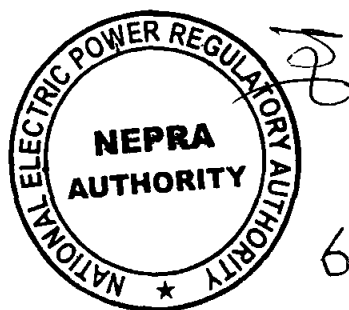
At the outset the consistent non-compliance of CPPA G is highlighted which is serious in order to fix the governance issues of power sector. The direction of the Authority which is not being complied with by CPPA G are as follows:

- I. System Operator shall report to CPPA G, within 24 hours, dispatch of generation plant(s) out of merit order along with reason thereof. The copy of report shall be sent to NEPRA simultaneously.
- II. CPPA G shall scrutinize the above mentioned dispatch report in term of Scheduling and Dispatching Code (SDC) of Grid Code and prepare a report which shall comprise of ;
 - a. All dispatch deviation from merit order;
 - b. The plant available but not dispatch; and
 - c. Dispatch deviation justified or unjustified in term of SDC of Grid Code along-with their financial impact.
- III. CPPA G shall share the report with System Operator and also submit it to NEPRA at the time of filing of monthly fuel price adjustment request."

Unfortunately, above directions of Authority have not been complied with in letter & spirit by NPCC & CPPA-G.

It is important to mention that CPPA G is also working as an agent of XWDISCOs; this function of CPPA G requires economic procurement of electricity from the power plants. The above direction of the Authority was to ensure the operation of power plants in economic merit order. However, CPPAG is in consistent failure to the above direction of the Authority. This non compliance is a major impediment in identifying the weak links and fixing of the same. In view of the non compliance, the Authority, through third party, has initiated a comprehensive assessment of the system operator for the past three years while the process to carry out the audit of CPPA G is in process. CPPAG is required to start compliance of the Authority decision; failure of CPPAG shall be considered as a deliberate attempt of non cooperation to fix the power sector issues.

2. During hearing of the FCA for the month of April 2022, it was mentioned that inclusion of power plant in Merit Order list on natural gas fuel, which is not available since last 2/3 years, is misleading. Therefore, it was directed by the Authority that from now onward while preparing the Merit Order list the power plant with natural (pipe line quality) gas shall not be considered as such fuel is no more available. However, it is noted that Merit Order lists are still being issued on old consideration which is nothing but to mislead the stakeholders.



Therefore, all relevant departments which are responsible to prepare the Merit Order lists shall take immediate action to revise it on the basis of fuel(s) which is available.

3. Furthermore, it was noted that there are several plants which either have no valid generation license or not available for operation (like JPCL block 3 & 4-Kotri, Japan Power, Reshama Power, Gulf Power etc.) are also included in the application of CPPA G for the monthly fuel price adjustment. All such plants need to be deleted from the Merit Order list.

4. This Fuel Price Adjustment (FPA) is for the month of May 2022 and its impact is around Rs. 113 billion i.e. the amount to be recovered by XWDISCO. Under Scheme of law, this adjustment should have been done within first 7 days of June 2022 for its recovery in the month of June. In term of Time Value of Money – how and to whom this delay will affect? The delay in processing of this adjustment ultimately affects the electricity consumers or the tax payers.

Therefore, CPPA G shall look into its process to ensure adjustment of the fuel price, negative or positive, shall be passed-on to the consumers within stipulated time.

5. The amount claimed on account of previous adjustment is more than Rs. 6.5 billion. In view of the Time Value of Money, this needs to be audited that for which period this amount pertains to. Considering the judgment of the Honorable Supreme Court with regard to pass-on the FCA amount, NEPRA has already decided that previous claim, if any, shall be submitted as early as possible but beyond the period of 180 days the petitioner shall have to justify it.

Therefore, in the instant case it is required to carry out an audit regarding period of previous adjustment claim and calculate the financial impact of the delay. Further, for future cases the CPPA G while submitting the request for FPA shall also furnish a certificate that previous adjustment is not beyond the period of 180 days.

6. The Partial Load Adjustment Charges (PLAC) of Rs. 3.9 billion has been claimed under the FPA for the month of May 2022. A certificate from NPCC is also attached that the PLAC is either due no demand in the system or the constraint in Transmission and/or Distribution system. It is known fact that during the month of May 2022 load shedding was observed in the system throughout 24 hours for reasons one or the other. It means the demand remained exist in the system and therefore the only reason left for PLAC appears to be the Transmission and/or distribution system constrains.

Out of this Rs. 3.9 billion PLAC amount, more than Rs. 3.0 billion is against three most efficient RLNG power plants (QAPTL, HBS and Baloki power plants) , the efficiency of which are above 61%. In the scenario of throughout 24 hours load shedding in the system, how it was



appropriate to operate the most efficient power plant on part load. Operation of power plant on part load is nothing but to burn the fuel lower to its optimum value.

Under the above situation, can PLAC amount of around Rs. 3.9 billion, that too due to Transmission and/or Distribution constraint, is justified to be passed on to the electricity consumers'?

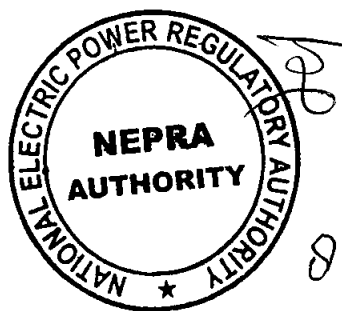
7. The utilization factor of three most efficient RLNG power plants (efficiency above 61%) i.e. Quaid e Azam Thermal Power was 72%, National Power Park Management Company Limited at Baloki was 79% and National Power Park Management Company Limited at Haveli Bahadur Shah was 87%. Due to part load operation during the month of May 2022, these power plants claimed PLAC charges to the tune of Rs. 3.14 billion. In the wake of high load demand in the system and ongoing electricity shortfall in the country, the full utilization of these power plants could minimize the load shedding, through generation of electricity by cheaper resources on one hand while on the hand it could help avoid part load charges of around Rs. 3.14 billion. An inquiry is needed in the matter.

8. The performance of GENCO-II is worst since past many years; the worst performance of GENCO-II has so far caused billion of rupees losses to power sector.

Guddu 747 MW power plant is one of the cheapest power plant due to its operation on cheap local dedicated gas. However, Guddu 747 MW power plant is being operated on partial load since February 2021 after damage of its one Gas Turbine. The utilization factor of Guddu 747 MW during the month of May 2022 was only 41.18%. The average per unit EPP of Guddu 747 MW power plant during the month of May 2022 remained as Rs. 6.58/kwh. Due to low utilization of the Guddu 747 MW power plant, the equivalent electricity which Guddu 747 MW could not generate was generated through costlier power plants and that has caused a loss of around Rs. 6.06 billion during the month of May 2022. The total loss due to low utilization of Guddu 747 MW since February 2021 till May 2022 remained more than around Rs.53 billion. A forensic inquiry is needed to determine the exact losses in the matter.

Similarly, the utilization factor of Guddu CC Block1 (OC) and Central Block 2(CC) during the month of May 2022 remained very low. The average per unit EPP for the referred power plant is quite low due to cheaper dedicated indigenous gas. Lower utilization of the cheaper local gas dedicated power plant is affecting the power sector adversely. An inquiry is needed to ascertain the causes of low utilization of power plant and financial impact thereof. Operation of power plant at GENCO II in open cycle mode is adversely affecting the power basket.

9. As per the data submitted by NPCC, the average RLNG allocated to power sector during the month of May, 2022 was 765 MMCFD against a demand of 845 MMCFD that resulted in adverse financial impact during the aforesaid month. Had this gas be available, the partial



loading could have been avoided. Load shedding in the system for any reason is affecting the financial health of power sector adversely. Similarly, constrains in Transmission and/or Distribution system is causing operation of power plant in violation of Economic Merit Order and affecting the power sector adversely.

10. The utilization factor of RFO based AES Lalpir power plant was around 49.30% during the month of May 2022. This electricity was supplied at an average rate of around Rs. 38.06/kwh. Similarly, utilization factor of RFO based Pak Gen Power Limited was around 65.53% during the month of May 2022. This electricity was supplied at an average rate of around Rs. 38.20/kwh. Operation of these costlier RFO based power plants while leaving the comparative RFO based power plant underutilized needs to be checked.



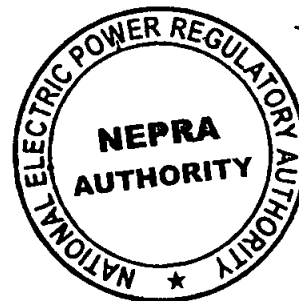
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CENTRAL POWER PURCHASING AGENCY (CPPA)
Energy Procurement Report (Provisional)
For the Month of May 2022

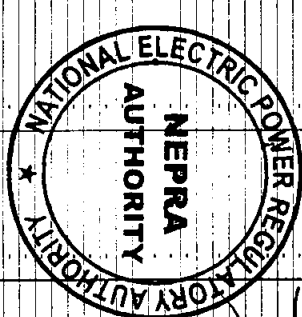
S.No.	Power Producers	Fuel	Dep. Capacity (MW)	Energy KWh	Fuel Charges Rs.	VO&M Charges Rs.	EPP Billing month (Rs.)	Prev. Adjustment in Fuel Cost (Rs.)	Prev. Adjustment in VO&M (Rs.)	Prev. Adjustment in EPP Total Rs.	Supp. Charges	Total Fuel Cost Rs.	Total VO&M Rs.	Total Energy Cost (Rs.)	
28	Tricon Boston-B	Wind	50	24,118,528	-	-	-	-	-	-	-	-	-	-	
28	Tricon Boston-C	Wind	50	23,733,510	-	-	-	-	-	-	-	-	-	-	
30	ZEPHYR Wind	Wind	50	26,831,645	-	-	-	-	-	-	-	-	-	-	
31	Foundation Wind Energy-II (Pvt.) Limited	Wind	50	20,495,480	-	-	-	-	-	-	-	-	-	-	
32	Master Green Energy Limited	Wind	50	22,013,300	-	-	-	-	-	-	-	-	-	-	
33	Lucky Renewables (Private) Limited	Wind	50	23,700,980	-	-	-	-	-	-	-	-	-	-	
34	ACT2 DIN Wind (Pvt) Ltd.	Wind	50	25,926,220	-	-	-	-	-	-	-	-	-	-	
36	Artistic Wind Power (Pvt) Ltd.	Wind	50	25,282,120	-	-	-	-	-	-	-	-	-	-	
36	Indus Wind Energy Ltd.	Wind	50	26,900,760	-	-	-	-	-	-	-	-	-	-	
37	Lakeside Energy Limited	Wind	50	27,068,820	-	-	-	-	-	-	-	-	-	-	
38	Liberty Wind Power-I Ltd.	Wind	50	25,053,040	-	-	-	-	-	-	-	-	-	-	
39	DIN Energy Ltd.	Wind	50	24,621,810	-	-	-	-	-	-	-	-	-	-	
40	Gul Ahmed Electric Limited	Wind	50	27,070,930	-	-	-	-	-	-	-	-	-	-	
41	Zhenfa Pakistan New Energy Company Limit	Solar	50	22,282,700	-	-	-	-	-	-	-	-	-	-	
42	Liberty Wind Power-II (Pvt.) Ltd.	Wind	100	19,185,790	-	-	-	-	-	-	-	-	-	-	
43	NASDA Green Energy (Pvt) Limited	Wind	50	27,735,040	-	-	-	-	-	-	-	-	-	-	
44	Netro Wind Power Limited	Wind	50	13,680,710	-	-	-	-	-	-	-	-	-	-	
46	SPPs	Mixed	257	16,768,733	78,594,467	-	78,594,467	-	-	-	-	78,594,467	-	78,594,467	
Sub-Total			2,643	885,790,190	78,594,467	-	78,594,467	-	-	-	-	78,594,467	-	78,594,467	
G-Total:			39,427	14,656,889,807	192,784,470,608	4,943,200,202	197,727,670,810	6,507,932,357	93,997,596	6,601,929,953	-	199,292,402,965	5,037,197,798	204,329,600,763	
Summary															
1	Hydel			3,590,821,276	-	299,616,377	299,616,377	-	27,094,107	27,094,107	-	-	326,710,484	326,710,484	
2	Coal			2,018,494,700	36,372,000,517	1,005,509,396	37,377,509,913	(170,855,461)	93,264,042	(77,591,419)	-	36,201,145,056	1,098,773,438	37,299,918,494	
3	HSD			28,475,717	857,048,052	1,651,458	858,699,510	-	-	-	-	857,048,052	1,651,458	858,699,510	
4	F.O.			1,290,326,896	43,451,968,511	1,338,613,377	44,790,581,887	71,317,454	(29,069,233)	42,248,221	-	43,523,285,965	1,309,544,143	44,832,830,109	
5	Gas			1,464,589,549	14,823,016,286	692,319,094	15,515,335,380	81,683,616	(107,793)	81,575,823	-	14,904,699,882	692,211,301	15,596,911,183	
6	RLNG			3,355,230,929	93,697,506,730	1,542,054,388	95,239,561,118	5,895,299,153	(8,907,476)	5,886,391,677	-	99,592,805,883	1,533,146,912	101,125,952,795	
6	Nuclear			1,890,376,000	2,002,530,323	-	2,002,530,323	-	-	-	-	2,002,530,323	-	2,002,530,323	
7	Import from Iran			54,524,800	1,033,640,285	-	1,033,640,285	-	2,030,564	-	-	1,035,670,829	-	1,035,670,829	
8	Wind Power			779,127,007	-	-	-	-	-	-	-	-	-	-	
9	Solar			89,894,450	-	-	-	-	-	-	-	-	-	-	
10	Bagasse			78,259,750	468,165,477	63,436,112	531,601,589	628,457,030	11,723,950	640,180,980	-	1,098,622,506	75,160,062	1,171,782,569	
11	Mixed			16,768,733	78,594,467	-	78,594,467	-	-	-	-	78,594,467	-	78,594,467	
Totals For The month				14,656,889,807	192,784,470,608	4,943,200,202	197,727,670,810	6,507,932,357	93,997,596	6,601,929,953	-	199,292,402,965	5,037,197,798	204,329,600,763	
Prev. Adjustments :				(4,611,859)	6,507,932,357	93,997,596	6,601,929,953	-	-	-	-	-	-	-	-
GRAND TOTALS :				14,652,278,148	199,292,402,965	5,037,197,798	204,329,600,763	-	-	-	-	-	-	-	-

Energy Cost (Rs.)	199,292,402,965	5,037,197,798	204,329,600,763
Cost not chargeable to DISCOs (Rs.)	1,054,131,425	-	1,054,131,425
EPP (Chargeable) (Rs.)	198,238,271,540	5,037,197,798	203,275,469,338
Energy Sold (KWh)	14,264,946,029	14,264,946,029	14,264,946,029
Avg. Rate (Rs./KWh)	13.8969	0.3531	14.2500

Reference Rate (Rs./KWh)	5.9322
FCA Rate (Rs./KWh)	7.9647



S.No.	Power Producers	Fuel	Dep. Capacity (MW)	Energy KWH	Fuel Charges R.	VOAM Charges R.	EPM Billing month (Rs.)	Prev. Adjustment in Fuel Cost (Rs.)	Prev. Adjustment in VOAM (Rs.)	Prev. Adjustment in EPM Total (Rs.)	Supp. Charges	Total Fuel Cost R.	Total VOAM R.	Total Energy Cost (Rs.)			
				A	B	C	D-E	F	G-E+F	H	I	J+K	L				
1	Hydel WAPDA Jagran Peshawar Makhdumabad SHTD Karachi Sagar Hydelco Hebal Marzala Medium Jhalum Tribal Est. 4 Mira Power Limited Choral Power Karachi Hydro Power Ranold Hydro Power Complex	Hydel	6902	2,412,785,388		205,675,933	205,675,933		18,647,303	18,647,303		2,431,432,691	205,675,933	2,637,108,624			
		Hydel	30	17,789,376		46,065,541	46,065,541		8,446,804	8,446,804			64,712,844	64,712,844			
		Hydel	18	42,414,500		13,432,672	13,432,672						21,879,476	21,879,476			
		Hydel	81	15,276,535		15,276,535	15,276,535						15,276,535	15,276,535			
		Hydel	147	90,299,300		16,650,638	16,650,638						16,650,638	16,650,638			
		Hydel	8	2,853,382													
		Hydel	969	689,408,000													
		Hydel	1,478														
		Hydel	101	12,959,050		2,515,158	2,515,158							2,515,158	2,515,158		
		Hydel	37	23,659,080													
		Hydel	720	244,244,200													
		Hydel	17	4,324,280													
		Hydel	10,592	3,990,821,276		299,818,377	299,818,377		27,094,107	27,094,107	27,094,107		326,710,484	326,710,484			
		2	GENCO-I *** Jamshoro Block 1 Jamshoro Block 2 Jamshoro Block 3 Jamshoro Block 4 Jamshoro Block 5 Jamshoro Block 6 Jamshoro Block 7 Jamshoro Block 8 Jamshoro Block 9 Jamshoro Block 10 Jamshoro Block 11 Jamshoro Block 12 Jamshoro Block 13 Jamshoro Block 14 Jamshoro Block 15 Jamshoro Block 16 Jamshoro Block 17 Jamshoro Block 18 Jamshoro Block 19 Jamshoro Block 20 Jamshoro Block 21 Jamshoro Block 22 Jamshoro Block 23 Jamshoro Block 24 Jamshoro Block 25 Jamshoro Block 26 Jamshoro Block 27 Jamshoro Block 28 Jamshoro Block 29 Jamshoro Block 30 Jamshoro Block 31 Jamshoro Block 32 Jamshoro Block 33 Jamshoro Block 34 Jamshoro Block 35 Jamshoro Block 36 Jamshoro Block 37 Jamshoro Block 38 Jamshoro Block 39 Jamshoro Block 40 Jamshoro Block 41 Jamshoro Block 42 Jamshoro Block 43 Jamshoro Block 44 Jamshoro Block 45 Jamshoro Block 46 Jamshoro Block 47 Jamshoro Block 48 Jamshoro Block 49 Jamshoro Block 50 Jamshoro Block 51 Jamshoro Block 52 Jamshoro Block 53 Jamshoro Block 54 Jamshoro Block 55 Jamshoro Block 56 Jamshoro Block 57 Jamshoro Block 58 Jamshoro Block 59 Jamshoro Block 60 Jamshoro Block 61 Jamshoro Block 62 Jamshoro Block 63 Jamshoro Block 64 Jamshoro Block 65 Jamshoro Block 66 Jamshoro Block 67 Jamshoro Block 68 Jamshoro Block 69 Jamshoro Block 70 Jamshoro Block 71 Jamshoro Block 72 Jamshoro Block 73 Jamshoro Block 74 Jamshoro Block 75 Jamshoro Block 76 Jamshoro Block 77 Jamshoro Block 78 Jamshoro Block 79 Jamshoro Block 80 Jamshoro Block 81 Jamshoro Block 82 Jamshoro Block 83 Jamshoro Block 84 Jamshoro Block 85 Jamshoro Block 86 Jamshoro Block 87 Jamshoro Block 88 Jamshoro Block 89 Jamshoro Block 90 Jamshoro Block 91 Jamshoro Block 92 Jamshoro Block 93 Jamshoro Block 94 Jamshoro Block 95 Jamshoro Block 96 Jamshoro Block 97 Jamshoro Block 98 Jamshoro Block 99 Jamshoro Block 100	Gas	182	321,071,118	2,152,807,180	18,676,800	2,171,483,980						2,171,483,980	18,676,800	2,190,160,780
				Gas	390	61,117,388	446,933,169	4,210,988	451,144,097						451,144,097	4,210,988	455,355,085
Gas	330			209,953,732	1,705,871,081	14,465,812	1,720,336,893						1,720,336,893	14,465,812	1,734,802,705		
Gas	721			313,123,006	1,331,800,327	11,065,981	1,342,866,308	812,480					1,342,866,308	11,065,981	1,353,932,289		
Gas	1,641			488,802,119	3,475,887,727	160,081,891	3,635,969,618	812,480					3,635,969,618	160,081,891	3,796,051,509		
Gas	556																
Gas	272																
Gas	385																
Gas	117																
Gas	97																
Gas	75																
Gas	411																
Gas	1,884																
Coal	31																
3	GENCO-IV Lahora Sub-Totals GENCO Total Kor Adu Block 1 Kor Adu Block 2 Kor Adu Block 3 Kor Adu Block 4 Kor Adu Block 5 Kor Adu Block 6 Kor Adu Block 7 Kor Adu Block 8 Kor Adu Block 9 Kor Adu Block 10 Kor Adu Block 11 Kor Adu Block 12 Kor Adu Block 13 Kor Adu Block 14 Kor Adu Block 15 Kor Adu Block 16 Kor Adu Block 17 Kor Adu Block 18 Kor Adu Block 19 Kor Adu Block 20 Kor Adu Block 21 Kor Adu Block 22 Kor Adu Block 23 Kor Adu Block 24 Kor Adu Block 25 Kor Adu Block 26 Kor Adu Block 27 Kor Adu Block 28 Kor Adu Block 29 Kor Adu Block 30 Kor Adu Block 31 Kor Adu Block 32 Kor Adu Block 33 Kor Adu Block 34 Kor Adu Block 35 Kor Adu Block 36 Kor Adu Block 37 Kor Adu Block 38 Kor Adu Block 39 Kor Adu Block 40 Kor Adu Block 41 Kor Adu Block 42 Kor Adu Block 43 Kor Adu Block 44 Kor Adu Block 45 Kor Adu Block 46 Kor Adu Block 47 Kor Adu Block 48 Kor Adu Block 49 Kor Adu Block 50 Kor Adu Block 51 Kor Adu Block 52 Kor Adu Block 53 Kor Adu Block 54 Kor Adu Block 55 Kor Adu Block 56 Kor Adu Block 57 Kor Adu Block 58 Kor Adu Block 59 Kor Adu Block 60 Kor Adu Block 61 Kor Adu Block 62 Kor Adu Block 63 Kor Adu Block 64 Kor Adu Block 65 Kor Adu Block 66 Kor Adu Block 67 Kor Adu Block 68 Kor Adu Block 69 Kor Adu Block 70 Kor Adu Block 71 Kor Adu Block 72 Kor Adu Block 73 Kor Adu Block 74 Kor Adu Block 75 Kor Adu Block 76 Kor Adu Block 77 Kor Adu Block 78 Kor Adu Block 79 Kor Adu Block 80 Kor Adu Block 81 Kor Adu Block 82 Kor Adu Block 83 Kor Adu Block 84 Kor Adu Block 85 Kor Adu Block 86 Kor Adu Block 87 Kor Adu Block 88 Kor Adu Block 89 Kor Adu Block 90 Kor Adu Block 91 Kor Adu Block 92 Kor Adu Block 93 Kor Adu Block 94 Kor Adu Block 95 Kor Adu Block 96 Kor Adu Block 97 Kor Adu Block 98 Kor Adu Block 99 Kor Adu Block 100			Coal	4,202	729,811,119	10,897,372,352	342,575,474	11,239,947,826	(978,202)					10,896,398,150	342,575,474	11,238,972,624
		Coal	326	150,380,300	4,842,591,257	115,352,633	4,727,238,624						4,727,238,624	115,352,633	4,842,591,257		
		Coal	782	89,536,400	2,125,980,101	30,754,009	2,156,734,110						2,156,734,110	30,754,009	2,187,488,119		
		Coal	782	130,281,500	4,397,146,987	140,890,580	4,537,037,567						4,537,037,567	140,890,580	4,677,928,147		
		Coal	782	243,899,800	8,384,877,980	128,178,287	8,491,054,227						8,491,054,227	128,178,287	8,619,232,514		
		Coal	249	51,890,100	1,847,387,929	51,543,744	1,898,931,673						1,898,931,673	51,543,744	1,950,475,417		
		Coal	1,338	645,879,900	27,377,974,234	466,517,233	27,844,491,467						27,844,491,467	466,517,233	28,311,008,700		
		Coal	1,208	111,419,700	3,583,734,284	32,075,553	3,615,809,847						3,615,809,847	32,075,553	3,647,885,400		
		Coal	124	51,006,000	1,732,036,191	50,589,157	1,782,625,348						1,782,625,348	50,589,157	1,833,214,505		



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ADJUSTED				Annex-II
Source Wise Generation				
Sources	May 2022			
	Reference		Actual	
	GWh	%	GWh	%
Hydel	3,306.17	25.70%	3,590.82	24.50%
Coal	2,332.07	18.13%	2,018.49	13.77%
HSD	-	0.00%	28.48	0.19%
RFO	508.66	3.95%	1,290.33	8.80%
Gas	1,945.83	15.12%	1,464.59	9.99%
RLNG	3,624.86	28.17%	3,355.23	22.89%
Nuclear	543.61	4.23%	1,890.38	12.90%
Import Iran	52.43	0.41%	54.52	0.37%
Mixed	15.27	0.12%	16.77	0.11%
Wind	413.31	3.21%	779.13	5.32%
Baggasse	54.47	0.42%	78.26	0.53%
Solar	69.08	0.54%	89.89	0.61%
Total	12,865.77	100.0%	14,656.89	100.0%
Sale to IPPs	(18.30)	-0.14%	(21.26)	-0.15%
Transmission Losses	(278.91)	-2.17%	(365.71)	-2.50%
Net Delivered	12,568.56	97.7%	14,269.92	97.36%

Source Wise Fuel Cost/Energy Purchase Price				
Sources	May 2022			
	Reference		Actual	
	Mlns. Rs.	Rs./kWh	Mlns. Rs.	Rs./kWh
Hydel	-	-	-	-
Coal	17,500.30	7.5042	36,372.00	18.0194
HSD	-	-	857.05	30.0975
RFO	7,434.13	14.6150	43,451.97	33.6752
Gas	15,868.61	8.1552	14,823.02	10.1209
RLNG	32,492.08	8.9637	93,697.51	27.9258
Nuclear	586.79	1.0794	2,002.53	1.0593
Import Iran	606.69	11.5709	1,033.64	18.9573
Mixed	100.61	6.5872	78.59	4.6870
Wind	-	-	-	-
Baggasse	336.09	6.1704	468.17	5.9822
Solar	-	-	-	-
Total	74,925.29	5.8236	192,784.47	13.1532
Supplemental Charges	-	-	6,507.93	0.4440
Sale to IPPs	(365.92)	-	(1,054.13)	(49.5873)
Grand Total	74,559.36	5.7952	198,238.27	13.5253
Transmission Losses	-	0.1370	-	0.3668
Total	74,559.36	5.9322	198,238.27	13.8920
EMO Deductions			(796.0)	
Net Total	74,559	5.9322	197,442	13.8363

National Electric Power Regulatory Authority



NOTIFICATION

Islamabad, the July 7, 2022

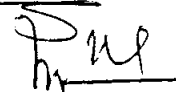
S.R.O. ¹⁰⁰³ (I)/2022: – Pursuant to Section 31(7) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 as amended through Regulation of Generation, Transmission and Distribution of Electric Power (Amendment) Act 2011, the National Electric Power Regulatory Authority makes and notifies the adjustments on account of variations in fuel charges in the approved tariff of XWDISCOs. The following is the fuel charges adjustment for the month of May 2022 in respect of Ex-WAPDA Distribution Companies (XWDISCOs):

Description	May 2022
Actual Fuel Charge Component for May 2022	Rs.13.8363/kWh
Corresponding Reference Fuel Charge Component	Rs.5.9322/kWh
Fuel Price Variation for the month of May 2022 - Increase	Rs.7.9040/kWh

Note: The Authority has reviewed and assessed an increase of Rs.7.9040/kWh in the applicable tariff for Ex-WAPDA DISCOs on account of variation in the fuel charges for the month of May 2022 as per the above details.

2. The above adjustment an increase of Rs.7.9040/kWh shall be applicable to all the consumer categories except lifeline consumers of all the XWDISCOs. The said adjustment shall be shown separately in the consumers' bills on the basis of units billed to the consumers in the month of May 2022 by the XWDISCOs. XWDISCOs shall reflect the fuel charges adjustment in respect of May 2022 in the billing month of July 2022.

3. While effecting the Fuel Adjustment Charges, the concerned XWDISCOs shall keep in view and strictly comply with the orders of the courts notwithstanding this order.


07 07 22
(Syed Safer Hussain)
Registrar

