

**PETITION FOR MARKET OPERATION FEE  
UNDER RULE 3 AND SUB-RULE 7 OF RULE 4 OF NEPRA  
(TARIFF STANDARDS AND PROCEDURES) RULES, 1998**

Before


**THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY (NEPRA)  
FOR DETERMINATION OF MULTIYEAR MARKET OPERATION FEE  
FOR FINANCIAL YEARS 2022-24**

**CENTRAL POWER PURCHASING AGENCY (GUARANTEE) LIMITED (CPPA-G)**

**ADDRESS: Shaheen Plaza, Plot No. 73-West, Fazal-e-Haq Road, Blue Area, Islamabad.**

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## **I. Petitioner Information**

### **I.1. NAME**

Central Power Purchasing Agency (Guarantee) Limited ("CPPA-G").

### **I.2. ADDRESS**

Shaheen Plaza, Plot No. 73-West, Fazal-e-Haq Road, Blue Area, Islamabad.

### **I.3. COMPANY DETAILS**

Central Power Purchasing Agency (Guarantee) Limited CPPA-G (the "Petitioner" or the "Company") is a company incorporated under the repealed Companies Ordinance, 1984 (now the Companies Act, 2017) and granted a Corporate Universal Identification No. 0068608 by the Security Exchange Commission of Pakistan in the year 2009.

In exercise of the powers conferred by Rule-3 of the National Electric Power Regulatory Authority (Market Operator Registration, Standards and Procedure) Rules, 2015, the National Electric Power Regulatory Authority has granted a certificate of registration to Central Power Purchasing Agency (Guarantee) Limited. The registration number of the Market Operator is MOR/01/2018.

### **I.4. THE BOARD'S AUTHORIZATION**

Board of Directors (BoD) authorized the Chief Executive Officer and other senior officers to sign, file and represent this petition and to submit any additional document/information to the Authority (**Annex-A**).

### **I.5. COMPANY REPRESENTATIVES**

The following officers of CPPA-G have been authorized by the Board of CPPA-G to sign, file and represent this petition and to submit any additional documents/information to the Authority:

- Mr. Waseem Mukhtar, Chief Executive Officer
- Mr. Rihan Akhtar, Chief Financial Officer
- Mr. Majid Khan, Chief Legal Officer
- Mr. Mubasher Ahmad, Chief Technical Officer
- Mr. Arshad Minhas, Chief Information Officer

## 2. GROUNDS AND FACTS FORMING BASIS OF THIS PETITION

- i. In order to meet with the expenses for discharging the functions and plans mentioned, the petitioner requires revenue to be approved by the Authority in terms of clause (e) and (j) of subsection 2 of Section 7 of the NEPRA Act and chapter 11 of the Commercial Code.
- ii. Chapter 11 of the Commercial Code deals with the Market Operation Fee and clause 11.1.1 provides that the existing cost associated with CPPA of NTDC shall be separated from the Use of System Charge (the "UoSC") of NTDC. In this manner, the UoSC of NTDC, already being paid by the ex-WAPDA DISCOs, shall be reduced by the amount corresponding to the expenses of CPPA-G.
- iii. As per the broad guidelines laid down in Chapter 11 of the Commercial Code, the general heads of costs associated with the operations of the petitioner have been provided in clause 11.1.2.
- iv. In terms of these broad guidelines the petitioner is also permitted to include any cost estimate for future capital expenditure required for compliance with current and future provisions contained in the Commercial Code.
- v. As such the total revenue requirement of the petitioner shall comprise of the existing cost separated from the UoSC of NTDC, additional operating cost in view of present operations independent of NTDC and the Capital cost required for effective operations of CPPA-G for compliance with present and future requirements of the Market Rules and Commercial Code shall form the Market Operation Fee of the petitioner.
- vi. These guidelines also provide that the formula for calculating the Market Operation Fee shall be similar to the formula of calculating the UoSC i.e., dividing total determined cost by peak demand of ex-WAPDA DISCOs.
- vii. Rule-9 (1) (d) of the NEPRA Market Operator (Registration, Standards and Procedure) Rules, 2015 (the "Market Rules") state that "In addition to the obligations in the applicable documents, each market participant shall have the obligation to pay the market operation fee as per Commercial Code and such other charges as specified by the Authority."
- viii. Rule 4 (7) of the NEPRA (Tariff Standards and Procedures) Rules, 1998 state that "The Authority may, while admitting a petition, allow the immediate application of the proposed tariff subject to an order for refund for the protection of consumers, or for satisfactory security to be provided for refund, while the proceedings are pending before the Authority"



In accordance with the revenue requirement of the company, CPPA-G is hereby submitting a petition for Multiyear Market Operation Fee for FY 2022-24. This petition is filed in line with Rule 3 of the Tariff Standards & Procedure Rules-1998 (Rules) and in line with the Chapter 11 of the approved Commercial Code by Authority.

### 3. COMPLIANCE OF THE AUTHORITY DIRECTION

#	Directions	Compliance Status
1.	Submit its Power Purchase Price (PPP) forecast report updated every year after accounting for upcoming addition in Generation, changes rate parity, changes in local US CPIs, LIBOR, KIBOR etc., for consideration of the Authority.	Power Purchase Price (PPP) forecast report for FY 2022-30 has been shared with Authority vide letter no CPPA-G/2021/CEO/8340 dated June 14, 2021.
2	Continue sharing its HR development progress at the end of each quarter and also include therein department wise detail of employees, functions being performed by each department and plans for future recruitment, if any, along-with their proposed JDs etc. in its HR Report.	Attached at <b>Annex-B</b> and <b>Annex-J</b>
3.	Provide composition of its Board of Directors, with brief profile of each member, basis of their appointment and their roles and responsibilities.	Attached at <b>Annex-C</b>
4.	Ensure provision of monthly information to the Authority in terms of energy generated, energy, capacity & other charges, and payments etc. as per the prescribed formats, already shared with the Petitioner, including Fuel stocks held at each Power Plant on monthly basis. CPPA-G is also directed to submit complete details for deviation from EMO, showing hourly generation along-with financial impact for deviation from EMO, and the reasons thereof, in coordination with NPCC, and within the given timelines, as also directed by the Authority in the monthly FCA decisions, while submitting the monthly FCA data.	The detail of Energy & Capacity has been shared via email dated 24-08-2021  Information is regularly being shared with the Authority. For instance, latest report for July 2021 is attached at <b>Annex-D</b> .
5.	Finalize agreement with NTDCL without further delay and submit a copy of the final	The UoSC / T&T losses agreement to be executed with NTDC, as per the Grid Code, 2015. NTDC is required to execute

	agreement with NTDCL not later than September 30, 2021.	Connection Agreements with the DISCOs & K-Electric prior to the preparation and execution of the UoSC / T&T losses agreement. A draft UoSC/ T&T losses agreement has been prepared and after the connection agreement the UoSC/T&T losses agreement would also be finalized.
6.	Submit monthly reconciliation report of the T&T losses with NTDCL.	CPPA-G is regularly sharing reconciliation of T&T losses with Authority. For instance, the latest reports are attached at <b>Annex-E</b> .
7.	Provide party wise breakup of amounts payable & receivables as per the following format on monthly basis, in addition to the monthly circular debt reporting as per the agreed formats.	Attached at <b>Annex-F and F-1</b>
8.	Regarding Market Transactions Audit as required under clause 11.2 of the Commercial Code, the Authority directs CPPA-G to submit the ToRs for conducting the Market Transactional Audit for approval of the Authority and carry out the Market Transactional Audit according to the approved ToRs and submit the report to the Authority.	Market Transactions are covered under the annual statutory audit of CPPA-G by the independent external A-rated chartered accountant audit firm. The audit report on the financial statements for the year ended June 30, 2020 has been shared with the Authority vide letter No. CPPA-G/2021/CFO/6252-53.
9.	Submit the financial impact due to deviation from EMO as per the format shared with CPPA-G.	Information is regularly being shared with the Authority. For instance, latest report for July-21 is attached at <b>Annex-D</b> .
10.	Submit compliance status on "Terms and Conditions" of its Registration.	Attached at <b>Annex-G</b> .
11.	Provide the detail of all legal cases against various entities including international arbitrations and their status and also those cases filed against NEPRA since July 2015.	Attached at <b>Annex-H</b> .
12.	To make these legal costs as part of its market operation fees and the same shall be got approved from the Authority.	Since CPPA-G is engaged in the local and international legal proceedings in its capacity as agent of DISCOs, the litigation charges incurred by CPPA-G on behalf of DISCOs are passed on to DISCOs in accordance with the Article III of the Power Procurement Agency Agreement (PPAA) between CPPA-G and DISCOs dated June 03, 2015.

13.	Provide monthly report regarding LDs imposed on Generation Companies along with reasons specifically pursuant to Section 9.4(b)(iii) and (c) of the 2002 Power Policy PPAs.	Attached at <b>Annex-I</b>
14.	Ensure submission of its Audited financial reports of every year in time.	CPPA-G is regularly sharing audited financial reports of every year.
15.	Apprise the Authority regarding its plans for future recruitment, along-with their proposed JDs etc., before making any such hiring.	Attached at <b>Annex-J</b>
16.	Share detailed plan for complete digitization of whole record, invoices as well as correspondence since the start of each Project along-with timelines.	Currently, the record is automatically digitized after implementation of exchange portal, However the digitization of old record is under process.

#### 4. REVENUE REQUIREMENTS FOR CPPA-G:

CPPA-G revenue requirement includes General Establishment Cost (Pay & Allowances, Training & Capacity Building, Outsource Services & Consultancy), Administration Cost (rent rate & taxes, power light & water, office supplies, telephone internet fax & postage, travelling expenses, subscription & periodicals, presentation & entertainment, professional fee & BoD fee, outsourcing services, advertisement & publications expenses, NEPRA Petition Fee and NEPRA Licenses Fee), Insurance, Finance Charges, Office Operation, Services & Maintenance (R&M General, IT Services, R&M, Support Fee, etc.) and Capital Expenditure (Capex) etc.

The head wise breakup of the revenue requirement for FY 2022-24 along with comparison of Authority requested revenue requirement for FY 2020-21 is given below.

Description	Mln. Rs.			
	FY 21	FY 22	FY 23	FY 24
	Requested	Requested		
General Establishment Costs	696	670	852	926
Administrative Costs	184	265	221	233
Office Operations, Services & Maintenance	69	78	57	57
Insurance	3	4	4	4
Finance Charges	3	3	3	3
<b>Total O&amp;M Cost</b>	<b>954</b>	<b>1,019</b>	<b>1,137</b>	<b>1,224</b>
CAPEX	61	58	52	51
<b>Total</b>	<b>1,015</b>	<b>1,077</b>	<b>1,189</b>	<b>1,275</b>
ISMO Requirement	101	630		
<b>Grand Total (CPPA+ISMO)</b>	<b>1,117</b>	<b>1,707</b>	<b>1,189</b>	<b>1,275</b>

The requested revenue requirements for FY 2022-24 is discussed in detail in the following paragraphs.

#### **4.1. GENERAL ESTABLISHMENT COST**

This head mainly includes cost associated with pay & allowances and other benefits of the employees, Training and Capacity Building cost and cost regarding consultancy services.

The pay and allowances for FY 22, FY 23 & FY 24 are proposed at Rs. 455 million, Rs. 655 million & Rs. 713 million against the last year figure of Rs. 465 million for FY 21. Pay & Allowances for FY 2021-22 to 2023-24 are projected after applying yearly 10% increase over "*Actual Basis pay*" of each employee for the period of April 2021 and keeping in view "pay scales structure" already approved by the BoD.

The employees benefits head consist of provident fund, gratuity, earned leaves, EOBI, GLI, medical benefits, overtime and Honoraria. The employees' benefits are projected around Rs. 86 million for FY 22, Rs.124 million for FY 23 & Rs.133 million for FY 24, keeping in view the "pay scales structure" already approved by the BoD. The Authority is requested to approve the same in the head of Pay & Allowance of the Employees for FY 2021-22 to 2023-24.

The HR department also planned to fill 69 vacant positions in various departments. The HR department is of the view that the proposed hiring would be completed by the end of March 2022, therefore the projected pay and allowance are based on 3 to 6 months salaries. In this regard the Authority is requested to allow an amount of 73 million for new hiring in FY 22.

***Training and Capacity Building:*** - This head includes cost associated with training courses / workshops planned for the employees of CPPA-G in FY 2021-22 to 2023-24. The training expenses are comprising of local and foreign training and capacity building of employees, soft skill, Job related, Basic IT training for employees and others. Keeping in view the previous trend and direction of BoD an amount of Rs. 7 million for FY 22, Rs. 8 million for FY 23 & Rs.9 million FY 24 are proposed in the head of training and capacity building. The required budget would be utilized for CPPA-G finance, technical, HR& Admin, P&P, Legal, IT, Company Secretary, Internal Audit department.

***Consultancy Services:*** - This head mostly includes outsourcing of Recruitment Firm, Engagement of Head-hunting Company for Hiring, Legal Consultant, Tax Consultant, Design & Implementation New data center, Integrated Information Security Management Systems Consultant Phase-II & External Audit Fee, and Consultant for Implementation of COBIT Framework (Phase-I Preparation).

In this regard the Authority is requested to allow an amount of Rs. 11 million for FY 22, Rs. 10 million for FY 23 & Rs.11 million FY 24 against the consultancy services.

It is delineated that the requested expenses are legitimate and essential in nature and any reduction in these expenses would result in disruption of operational activities of CPPA-G. Hence the Authority is requested to allow the actualization of expenditure of General Establishment Cost based on the audited financial statements of FY 2022-24 when available.

4.2. ADMINISTRATIVE COST

The sub heads of administrative expenses are rent, rate & taxes, power light & water, telephone internet fax & Postage, office supplies and other expenses, subscription of periodicals, presentation & entertainment, travelling expenses, BOD and auditor fees, Office running expenses (outsourced services) advertisement & publication expenses, NEPRA Petition fee and NEPRA Licenses fee.

The head wise breakup of the cost proposed for FY 2021-22 to 2023-24 is as follows.

Description	Mln. Rs.			
	FY 21	FY 22	FY 23	FY 24
	Requested	Requested		
Rent Rate Taxes, Power Light, Communication & etc	114	122	129	136
Office Running Exp.(outsourced services)	6	10	12	15
Other Expenses	64	132	80	82
Total	184	265	221	233

The administrative expenses are proposed at Rs. 265 million for FY 22, Rs. 221 million for FY 23 and Rs. 233 million for FY 24. The proposed administrative cost along with justifications is discussed in detail in the following paragraphs.

**Rent, Rate & Taxes:** - These expenses are mainly related to the building rent, being paid for occupying office space to carry out CPPA-G operations. Increase of 5% on every year as per contract over the last year rent, on average an increase of Rs. 5 million for each financial year. The CPPA-G also hold around 2,325 and 1,589 square feet space in WAPDA house and sunny view Lahore respectively. The estimated rent of these offices is around 4.7 million. The total amount required in this head are Rs. 95 million for FY 22, Rs.101 million For FY 23 and Rs. 105 million for FY 24 respectively.

**Power light and Water:** - In order to estimate expense in this head the electricity bill of new building is assumed @ 1 million p/m for each financial year, keeping in view the average historical bill of almost of same

size NEPRA building. Water expenditures are assumed around 0.01 million and after consolidating the above figures an amount of Rs. 12 million for FY 22, Rs. 13 million for FY 23 and Rs. 14 million FY 24 are proposed in the head of power, light and water. Increase of 10% assumed on every year.

**Communication:** - This head includes mainly the expenses relevant to telephone charges, employees cell phone charges, internet charges, courier services charges for external communication through letters. Keeping in view the historical trend of these expenses and cell phone charges limits allowed to each employee an amount of Rs. 15 million for FY 22, Rs. 15 million for FY 23 and Rs. 16 million proposed for FY 24.

**Office Running Expenses (Outsourcing Services):** - This head includes services relevant to Security, Mineral water, Newspapers, Generator fueling cost, CCTV room operator, Cleaning & Pest control services, HVAC unit & maintenance contract, window cleaning services, Generator Operator, Elevator operator etc. The budget in this regard is proposed to be Rs. 10 million for FY 22, Rs. 12 million for FY 23 and Rs. 15 million for FY 24.

**Other Administrative Expenses:** - The remaining head of administrative expense consists of office supplies, entertainment, travelling, advertisement and publications, BOD and auditor fee, NEPRA Petition Fee, NEPRA Licenses Fee and other expenses.

This has an increase of Rs. 68 million for FY 22 over the last year. Major increase is due to NEPRA License fees and Petition fees which have been projected first time. Now NEPRA has determined the petition and license fee for CPPA-G which is approximately Rs. 11 million per year applying from 2016. Keeping in view all above, the Authority is requested to allow an amount of Rs. 132 million for FY 22, Rs. 80 million for FY 23 and Rs.82 million FY 24 in the head of other administrative cost.

It is delineated that the requested expenses are legitimate and essential in nature and any reduction in these expenses would result in disruption of operational activities of CPPA-G. Hence the Authority is requested to allow the actualization of Administrative expenditure based on the audited financial statements of FY 2022-24 when available.

#### **4.3. INSURANCE, FINANCIAL CHARGES**

The insurance expenses of Rs. 3.72 million for FY 22, Rs. 4.23 million for FY 23 and Rs. 4.49 million for FY 24 are proposed @ 3% (as allowed by the NEPRA) of its various assets. Financial charges are normal bank charges, charged by banks against total transactions / projected payments of over Rs. 1.5 trillion annually. Finance charges of Rs. 3 million for every year are proposed for FY 2021-22 to 2023-24.

It is delineated that the requested expenses are legitimate and essential in nature and any reduction in these expenses would result in disruption of operational activities of CPPA-G. Hence the Authority is requested to allow the actualization of expenditure of insurance and financial charges based on the audited financial statements of FY 2022-24 when available.

4.4. OFFICE OPERATIONS, SERVICES & MAINTENANCE

The office operations, services & maintenance expenses consist of repair and maintenance of furniture, office equipment, vehicle, repair and maintenance of IT equipment's, I.T services, software's and running cost of vehicle inclusive of fuel oil, oil and lubricants and annual fee and token taxes.

The head wise breakup of the cost proposed for FY 2022-24 is as follows.

Description	Mln. Rs.			
	FY 21	FY 22	FY 23	FY 24
	Requested	Requested		
R&M General	5	20	4	4
I.T Services (Email Sevices,Internet Expansion, Software Renewals, & etc)	53	48	46	45
Vehicle Expenses-Fuel & Oil,Repair & Licenses (Running Cost)	11	11	7	8
Grand-total	69	78	57	57

The office Operations, Services & Maintenance expenses are proposed Rs. 78 million for FY 22, Rs. 57 million for FY 23 and Rs.57 million for FY 24. The proposed Office operation, services & maintenance cost along with justifications is discussed in detail in the following paragraphs.

**Repair & Maintenance General:-** This head includes R&M of office furniture, Office renovation work, Sanitary & Plumbing works, Carpentry items, Electrical Fixtures, Gardening, R&M Lifts and other misc items. These expenditures mainly relate to office day to day operations. Major increase in R&M General over FY-21 represents an amount of Rs. 15 million projected for the renovation of office, the Authority is requested to allow an amount of Rs. 20 million for FY 22, Rs. 4 million for FY 23 and Rs.4 million for FY 24.

**IT Services:-** This head mainly include the cost related to software licenses fee, I.T support, I.T services and I.T repair & maintenance. The head wise breakup of the cost proposed for FY 2022-24 is as follows.

Project Description	Detail Description	Amount
Office 365 E3 Renewal	This is the licensing Fee Paid To TMRC for Office 365 E3 and Azure License for Two Apps and Two DBs Usage of The licenses are for (CDXP Development, Organization vide ECM, and Making Organization Capable for Organization wise as well as external stakeholders through MS Team)	FY-2021-2022 Rs. 9,500,000 FY-2022-2023 Rs. 10,630,000 FY-2023-2024 Rs. 11,720,000
Adobe CC 2019 Package (Creative Cloud for Teams - Annual Subscription) Renewal	Adober Creative Cloud is a collection of application, main purpose of tool is for Web designing of CPPA-G's internal and external portals	FY-2021-2022 Rs. 240,000 FY-2022-2023 Rs. 263,000 FY-2023-2024 Rs. 270,000
GenyMotion (Emulator for Android Development -Annual Subscription) Renewal	Genymotion Desktop is an Android emulator which includes a complete set of sensors and features in order to interact with a virtual Android environment. With Genymotion Desktop, you can test your Android applications on a wide range of virtual devices for development, test and demonstration purposes	FY-2021-2022 Rs. 30,000 FY-2022-2023 Rs. 35,000 FY-2023-2024 Rs. 40,000
IOS Store Account	IOS Store Account is purchased for publishing CPPA-G's apps to the internal and external stake holders using Apple Mobile phones	FY-2021-2022 Rs. 30,000 FY-2022-2023 Rs. 35,000 FY-2023-2024 Rs. 40,000
GitHUB	GitHub is a web-based version-control and collaboration platform for software developers. GitHub facilitates social coding by providing a web interface to the Git code repository and management tools for collaboration. GitHub can be thought of as a serious social networking site for software developers.	FY-2021-22 Rs. 180,000
Trello Task Management	Trello is the easy, free, flexible, and visual way to manage your projects and organize anything. Easy to get team onboard and supports blog calendar to software development.	FY 2022-2023 Rs. 360,000
Power Apps and Power Automate Licenses	Provide professional developers the tools to seamlessly extend app capabilities with Azure Functions and custom connectors to proprietary or on-premises systems.	FY-2022-2023 Rs. 500,000 FY-2023-2024 Rs. 500,000



Dark Trace (Enterprise Immune System) License renewal	Licensing Fee - To provide Darktrace's Enterprise Immune System in CPPA network which determines what data is collected and what information Darktrace is able to use for analysis. Using machine learning and AI algorithms, Darktrace creates a unique behavioral model that defines this 'pattern of life' for each device, user and the network as a whole. Since the State of Covid-19 Epidemic, required working from home. All working systems have been converted to digital form and these digital assets need to be safeguarded against internet-based attacks, vulnerabilities and hacks so to ensure information securities this system was inevitable.	FY-2021-2022 Rs 7,000,000 FY-2022-2023 Rs. 4,000,000 FY-2023-2024 Rs. 4,100,000
Board PAC Subscription	BoardPac is a software for conducting paperless board meetings, Preparation of Agenda Items, Getting approvals from all board members	FY-2021-2022 Rs 900,000 FY-2022-2023 Rs. 900,000 FY-2023-2024 Rs. 900,000
Solar Wind NPM License Renewal	SNMP Software for monitoring internal network nodes Routers, Switches, Servers, UPSs for Intime alarm generation when one or more of these devices are down	FY-2021-2022 Rs 500,000 FY-2022-2023 Rs. 1,000,000 FY-2023-2024 Rs. 500,000
Renewal of Symantec Antivirus Endpoint Protection (200 Clients) with Techaccess	Antivirus License annual renewal contract with CNS will Expire and Last Year will be new tender	FY-2021-2022 Rs 357,000 FY-2022-2023 Rs. 399,000 FY-2023-2024 Rs. 700,000
Oracle Linux -Oracle Support Renewal. 3 Subscriptions Renewal for 03 Years Expirey Date Feb, 10 2022	Oracle Linux Support For Three Years	FY-2021-2022 Rs. 1,750,000
CISCO Firewall Licenses (TAMC & CISCO Firepower Management Centre) for 2 Devices-Renewal of agreement with Megaplus	Renewal Of CISCO Firewall Licenses (TAMC & CISCO Firepower Management Centre) For 2 Devices-Renewal of agreement with Megaplus	FY- 2021-2022 Rs. 1,019,660 FY-2022-2023 Rs. 1,139,620

Oracle EBS Application License Renewal	Renewal of Oracle EBS License Annual Used for ERP	FY-2021-2022 Rs 1,300,000 FY-2022-2023 Rs. 1,300,000 FY-2023-2024 Rs. 1,300,000
CPPA-ZOOM Account Yearly Renewal. License	Account for Managing Zoom meetings (two)	FY-2021-2022 Rs 80,000 FY-2022-2023 Rs. 90,000 FY-2023-2024 Rs. 100,000
Website (Hosting+Domain Name Registration)	Website Hosting and domain name registration annual support cost	FY-2021-2022 Rs 204,000 FY-2022-2023 Rs. 250,000 FY-2023-2024 Rs. 45,000
SMS Gateway	SMS Gateway for sending System Generated Notification of Critical Events to Internal and External Stake holders of CPPA-G	FY-2021-2022 Rs 300,000 FY-2022-2023 Rs. 300,000 FY-2023-2024 Rs. 300,000
Annual ERP Phase-I Support	ERP Phase-I Support Fee	FY-2021-2022 Rs 11,000,000 FY-2022-2023 Rs. 11,000,000 FY-2023-2024 Rs. 11,000,000
Maintenance & Support Services for IT Infrastructure including Data Centre & backup Site Facilities (with parts)-Renewal of agreement with Fortek	Maintenance & Support Services for IT Infrastructure including Data Centre & backup Site Facilities (with parts)- Renewal of agreement with Fortek	FY-2021-2022 Rs 1,753,169 FY-2022-2023 Rs. 1,753,169 FY-2023-2024 Rs. 1,753,169
The Maintenance & Renewal of Support Services and Service Level Agreement (SLA) For Servers, Storage Software and Network Equipment (with parts)-Renewal	The Maintenance & Renewal of Support Services and Service Level Agreement (SLA) For Servers, Storage Software and Network Equipment (with parts)-agreement has been signed between CPPA-G and M/s CNS-E signed First Time after Expired of OEM Warranties of Hardware Equipment as well as VMWare Software)	FY-2021-2022 Rs 5,495,000 FY-2022-2023 Rs. 5,000,000 FY-2023-2024 Rs. 5,000,000
Oracle Life Cycle Management Pack	Oracle Life Cycle Management Pack Processor P TSS Support Renewal for 03 Years	FY-2021-2024 2,000,000

Processor P TSS Support Renewal for 03 Years		
Old Record Migration to ECM	Migration of Historical record to Eenterprise Content Management System	FY-2021-2022 Rs 2,400,000 FY-2022-2023 Rs. 2,000,000 FY-2023-2024 Rs. 1,500,000
CPPA website Annual Support Cost	CPPA-G's Website Annual Support Cost	FY-2022-2023 Rs. 700,000 FY-2023-2024 Rs. 700,000
R740 Servers OEM Support Renewal - 3 Years	Dell Servers OEM Support Cost for Three Years for servers which are not covered under SLA with CNS Engineering	FY-2023-2024 Rs. 1,890,000
Sangfor HCI Solution OEM Supprot - 3 Years	Sangfor HCI Solution OEM Support Cost for three years	FY-2023-2024 Rs. 1,400,000
Misc. (External Hard Disk, USB Flash , & Data Recovery services etc, Laptops computres, Printers Repair Not covered under warranty)	Miscellaneous Budget for purchase of external hard disk, usb flash, data recovery services etc laptop printers repair not covered under warranty	FY-2021-2022 Rs 1,000,000 FY-2022-2023 Rs. 1,000,000 FY-2023-2024 Rs. 1,000,000

The Authority is requested to allow an amount of Rs. 48 million for FY 22, Rs. 46 million for FY 23 and Rs.45 million for FY 24 in the head of I.T Services.

**Vehicle Running Cost:-** This head includes the cost of vehicle repair & maintenance, vehicle running cost (Petrol/ Diesel, Oil lubricant & etc), vehicle registration & annual token tax. CPPA has bought 8 new vehicles with the approval of Authority and these vehicles will be on road from F.Y. 2021-22, and the old vehicles will be off road from F.Y. 2022, therefore budget in this head is showing a decreasing trend for next years. The Authority is requested to allow an amount of Rs. 11 million for FY 22, Rs. 7 million for FY 23 and Rs.8 million FY 24 in the head of vehicle running cost.

In view of above, the Authority is requested to approve an amount of Rs. 78 million for FY 22, Rs. 57 million for FY 23 and Rs. 57 million for FY 24 in the head of office operations, services & maintenance.

It is delineated that the requested expenses are legitimate and essential in nature and any reduction in these expenses would result in disruption of operational activities of CPPA-G. Hence the Authority is requested to allow the actualization of expenditure of office operations, services & maintenance based on the audited financial statements of FY 2022-24 when available.

#### 4.5. CAPITAL EXPENDITURE

The requirement of capital expenditure for FY 2022-24 have been estimated in the following categories.

- ✓ IT Equipment & Software
- ✓ Other Capex

The summary of CAPEX required for FY 2022-24 is given as below.

Description	Mln. Rs.			
	FY 21	FY 22	FY 23	FY 24
	Requested	Requested		
IT Equipment & Software	24	51	47	45
Replacement of Vehicle	29	-	-	-
*Other Capex/ Office Renovation	9	7	5	6
<b>Total</b>	<b>61</b>	<b>58</b>	<b>52</b>	<b>51</b>

**IT Equipment and Software's:** - It is important to delineated that the ERP Financial including utility specific solutions to deal with billing, settlement and payment mechanism will tremendously improve CPPA-G capability to operate more effectively and also bring more transparency to operation and provide timely information to all participants. The proposed expenses in the head of IT equipment are mainly include Data Institutionalization and Publishing, IT Infrastructure Transformation, Operational Software's, Back-office Automation, ERP Implementation (Extension), IT Management Solutions, record management, Data Loss prevention solution, Task Management. Power Apps and Power automate licenses, Inhouse Application Development Environment and data center. The head wise breakup of the cost proposed for FY 2022-24 is as follows.

FY 2021-22		
Actions	Justification	Amount Million Rs.
Laptops Core-i7, 8GB RAM, 512 SSD Hard Disk or latest SPECS	Warranty of 32 of the Laptops is Expired Since 2019 As Per IT Asset Policy Life of IT Equipment is three years	12.2
All in One Desktops For Dev Team and R&I Section	For Activation of IR Section Of CPPA-G and New Inductees in Software Development Section High End All in One Desktops are required	2.0
Window Server Licenses	CPPA critical IT services which will be hosted on the newly procured server will run on Window Server	0.5

	machines will require Window servers licenses for security and smooth operations.	
High End Desktop Computer For Noc	Multiscreen Desktop computer is required for IT Network Operation Centre to monitor multiple the IT Service	0.6
Solarwinds network topology mapper - 3 Years	Network mapping software to automatically plot CPPA network. It helps to automate device discovery and mapping, build multiple maps from a single scan, perform multi-level network discovery, auto-detect changes to network topology, export network diagrams to Visio, address regulatory PCI compliance	1.2
Access switches 48 ports - 3 Years	Access switches required to provide internet access to laptop users and to connect IT Devices like printers, WIFI devices etc. Due to CPPA head count increase, the demand has been increased to provide IT access to newly appointed human resources on multiple floor and also standby switch required in case of any failure of the currently deployed switches in all sections	4.5
UPS 2 KVA	UPS required for the idea Hub screens/access switches for un-interrupted power supply for video conferences and IT access switches	0.4
UPS 1 KVA	For Ten All in One Desktops in IT Section and Five New All in One Desktop for the safety of Data and Computers during power outage	1.0
Network Expansion including Parts and Labor	New data/telephony points expansion to accommodate new employees	0.5
Network card for Datacenter 10KVA UPS	Network Cards are required to monitor the Datacenter 10KVA UPS via already deployed monitoring software Solarwind Network Performance Monitor	0.1
Server/ Storage expansion with enclosure	To meet the growing requirement of CPPA of new machines for new applications and SAN storage to cater the growing data	6.0
WIFI Solution Operationalization with eight additional Access Points	Centrally controlled and secure WIFI solution with extended policies and quality control features RUKUS is required to be fully functional in the CPPA-G premises	0.5
Revamping of CPPA-G Website	In Order to Make CPPA-G Existing website capable to Cater Current and Near Future Needs	1.0
Contingent Hardware/Software	In Order to Cater Unforeseen Compulsory Procurement of IT Hardware /Software	1.0
SMS Gateway	SMS Gateway for sending System Generated Notification of Critical Events to Internal and External Stake holders of CPPA-G	0.3

Robotic Automation- Automation of Data Collection Direct from the Source	RPA is a technology that uses software robots to automate repetitive tasks and manual processes. In future we will be replacing common repetitive human tasks with RPA.	2.0
Record Management System	Software that will be used to track, issue and manage physical Files.	1.0
Trello Task Management	Trello is the easy, free, flexible, and visual way to manage your projects and organize anything. Easy to get team onboard and supports blog calendar to software development.	0.3
Power Apps and Power Automate Licenses	Provide professional developers the tools to seamlessly extend app capabilities with Azure Functions and custom connectors to proprietary or on-premises systems.	0.5
MS Visual Studio Licenses	Additional Licenses are required for new Software Developers	0.2
PLEXOS Software	This tool will be used for electricity price forecasting under the development of Power Purchase Price Report on annual basis. The tool applications include dispatch optimization, fuel requirements, modeling of fuel contracts etc. Moreover, the tool will be used for sensitivity analysis on various scenarios of IGCEP, and wholesale and retail levels for power business.	14.6
EViews	EViews is a statistical tool, used mainly for time-series oriented econometric analysis. This tool will be used for various statistical analysis related to power sector, regression-based electricity price forecasting from time series data for Power purchase Price Report, validation of economic models, impulse responses, calculation of various elasticities, and variance inflation factors.	0.1

FY 2022-23		
Actions	Justification	Amount Million Rs.
Laptops Core-i7, 8GB RAM, 512 SSD Hard Disk or latest SPECS	warranty expired of 44 Laptops since (2020) As Per IT Asset Policy Life of IT Equipment is Three Years	5.0
Window Server Licenses	CPPA critical IT services which will be hosted on the newly procured server will run on Window Server machines will require Window servers licenses for security and smooth operations.	0.5
High-End Desktop Computer for NOC	Multiscreen Desktop computer is required for IT Network Operation Centre to monitor multiple the IT Service	0.7

Replacement of current Firewall alongwith additional VPN Licenses-End of support for firewall=31-Aug-2022	The IT Data center CISCO Firewall will get end of support on 31-Aug-2022 and afterwards no support or updates will be available from the CISCO. Therefore new firewall is required to deployed for smooth operations and better IT infrastructure security	5.0
Additional Licenses for Solarwinds Network Performance Monitor - 3 Years	Currently 100 nodes licenses have been procured. However, with increase in IT infrastructure additional licenses will be required to monitor them effectively.	1.0
Additional Licenses Symantec Antivirus Endpoint Protection - 3 Years	Currently 200 nodes licenses have been procured. However, with increase in IT infrastructure additional licenses will be required to monitor them effectively.	1.0
Network Expansion including Parts and Labor	New data/telephony points expansion to accommodate new employees	0.5
Audio/Visual Equipment for Recording of Trainings	Hardware Necessary for Recording and Preparing IT Trainings material /Videos Etc	2.0
Additional VPN Licenses	Currently 100 VPN licenses have been procured, however with increase in the CPPA-G head count more licenses are required to be procured so that the users can securely connect to CPPA-G datacenter services from remote sites e.g. home etc	0.5
IPAM solarwind module - 3 Years	The role of IPAM is to automate IP address management tasks and allocate data in a centralized, easy-to-access, and user-friendly interface. It will help CPPA IT Team keep track of IP addresses within a network and helps ensure seamless business connectivity.	1.7
UPS 2 KVA	UPS required for the access switches for uninterrupted power supply for IT access switches	0.4
Smart Rack for backup site (including Biometric Access Control System, Fire Suppression System & CCTV camera System)- Shaheed e millat secretariat, Islamabad	Smart Rack required for backup site expansion	3.0
Server/ Storage expansion with enclosure	To meet the growing requirement of CPPA of new machines for new applications and SAN storage to cater the growing data	10.0
Two Highspeed and resolution Scanner	Considering Growth of R&I Section Established in 2021-22 Equipment is Required	0.5
Visual Studio 2019 or Latest	Keeping in View the Growth of IT Development Section at least Three Licenses required	0.2
PLEXOS Software	This tool will be used for electricity price forecasting under the development of Power Purchase Price Report	15.3

	on annual basis. The tool applications include dispatch optimization, fuel requirements, modeling of fuel contracts etc. Moreover, the tool will be used for sensitivity analysis on various scenarios of IGCEP, and wholesale and retail levels for power business.	
EViews	EViews is a statistical tool, used mainly for time-series oriented econometric analysis. This tool will be used for various statistical analysis related to power sector, regression based electricity price forecasting from time series data for Power purchase Price Report, validation of economic models, impulse responses, calculation of various elasticities, and variance inflation factors.	0.1

FY 2023-24		
Actions	Justification	Amount Million Rs.
Laptops Core-i7, 8GB RAM, 512 SSD Hard Disk or latest SPECS	Keeping In View of the growth of CPPA-G laptops are required for new inductees	5.0
Window Server Licenses	CPPA critical IT services which will be hosted on the newly procured server will run on Window Server machines will require Window servers licenses for security and smooth operations.	0.6
High End Desktop Computer For Noc	Multiscreen Desktop computer is required for IT Network Operation Centre to monitor multiple the IT Service	0.8
Tape Library TL4000. End of support for old =30-12-2023	The IT Data center Tape library is used to backup critical IT Data. It will get end of support on 30-12-2023 and afterwards no support or updates will be available from the DELL. Therefore new tape library is required to be deployed for smooth operations	0.5
Dell PowerEdge R730.End of support for old =30-12-2023	The IT Datacenter Server is used to deploy critical IT Machines. It will get end of support on 30-12-2023 and afterwards no support or updates will be available from the DELL. Therefore new Server is required to be deployed as replacement for smooth operations	2.0
Replacement of 10KVA UPS Along with 4 batteries enclosures	The 10 KVA UPS were procured before 2016 so should be replaced now as it is out of warranty	6.5
Replacement of 6KVA UPS Along with 16 batteries	The 6 KVA UPS were procured before 2018 so should be replaced now as it is out of warranty	1.5



CCTV with software	The CCTV with software was procured before 2018 so should be replaced now as it is out of warranty	0.09
3 Cameras for Datacenter Surveillance	The Cameras were procured before 2018 so should be replaced now as they are out of warranty	0.07
Environmental Management System	The Environmental Management System was procured before 2018 so should be replaced now as it is out of warranty	0.6
Load Transfer Switch	The Load Transfer Switch was procured 29 Nov 2019 so should be replaced now as it is out of warranty	0.5
NAC network access control/IAM (Identity access Management) for 500 nodes -3 Years	Network access control is the act of keeping unauthorized users and devices out of a private network. Effective network access control restricts access to only those devices that are authorized and compliant with security policies, meaning they have all the required security patches and anti-intrusion software. Identity and access management (IAM) ensures that the right people and job roles in CPPA can access the tools they need to do their jobs. Identity management and access systems enable CPPA to manage employee apps without logging into each app as an administrator.	0.5
Datacenter Security	Security for Physical & Virtual Datacenter via Vulnerability Scanning, Virtual Patching, File Integrity Monitoring, Scan Web Applications for Vulnerabilities & Virtual Patching, Application Control on servers, Advance Host Firewall, Log Inspection (Activity monitoring), Malware & Advance Malware Protection, Machine Learning, Behavior Analysis & Document exploit protection, Malware Pattern Analysis, Sandbox Integration	5.0
Network Expansion including Parts and Labor	New data/telephony points expansion to accommodate new employees	0.6
Server/ Storage expansion with enclosure	To meet the growing requirement of CPPA of new machines for new applications and SAN storage to cater the growing data	2.0
Visual Studio 2019 Latest	Additional Licenses are required for new Software Developers	0.28
Business Process Management (Phase-I) & Case Management	In order to automate processes to keep up with modern demands and changing business environments, the BPMS will help to define workflows and build processes for tasks of any complexity to automate operations across several departments. BPM platform will provide	1.0

	the core technology for organizations undergoing digital transformation, helping them accelerate their transformation cycle, innovate and adapt faster. Case management software is a digital system that will enable CPPA to track and store information in a centralized location and report on their data. Case information will be accessible to a variety of users so that stakeholders can collaborate on cases and share information in a secure environment.	
Establishment of Data Warehouse Solution	A data warehouse is a the data management system that will be designed to enable and support business intelligence (BI) activities, especially analytics. Data warehouses will solely intended to perform queries and analysis and often contain large amounts of historical data.	1.0
PLEXOS Software	This tool will be used for electricity price forecasting under the development of Power Purchase Price Report on annual basis. The tool applications include dispatch optimization, fuel requirements, modeling of fuel contracts etc. Moreover, the tool will be used for sensitivity analysis on various scenarios of IGCEP, and wholesale and retail levels for power business.	16.06
EViews	EViews is a statistical tool, used mainly for time-series oriented econometric analysis. This tool will be used for various statistical analysis related to power sector, regression based electricity price forecasting from time series data for Power purchase Price Report, validation of economic models, impulse responses, calculation of various elasticities, and variance inflation factors.	0.1

The Authority is requested to approve an amount of Rs. 51 million for FY 22, Rs. 47 million for FY 23 and Rs. 45 million for FY 24 in the head of IT software's and equipment.

It is delineated that the requested expenses are legitimate and essential in nature and any reduction in these expenses would result in disruption of operational activities of CPPA-G. Hence the Authority is requested to allow the actualization of expenditure of I.T equipment & Software based on the audited financial statements of FY 2022-24 when available.

**Other Capex:-** In other capex procurement of remaining office equipment i.e., furniture & fixtures, steel racks, internal sound systems, walk through gate, Telephone exchange, luggage scanner and hand metal detector & misc.

items. The Authority is requested to approve an amount of Rs. 7 million for FY 22, Rs. 5 million for FY 23 and Rs. 6 million for FY 24 in the head of other capex.

It is delineated that the requested expenses are legitimate and essential in nature and any reduction in these expenses would result in disruption of operational activities of CPPA-G. Hence the Authority is requested to allow the actualization of expenditure of other capex based on the audited financial statements of FY 2022-24 when available.

**5. REQUIREMENT FOR MARKET OPERATOR (MO)**

NEPRA in its determination dated 5<sup>th</sup> December 2019, approved High Level / Conceptual Design of Competitive Trading Bilateral Contract Market (CTBCM), a wholesale electricity market model. Detailed Design and Implementation Roadmap of CTBCM, approved by NEPRA on 12 November 2020, envisage bifurcation of CPPA-G into ‘market operator’ and ‘special purpose trader’ in order to avoid any possible conflict of interest arising on account of its dual functions. This separation will be completed in phases. The budget broadly consists of Capital Expenditure and Operating Expenditure as detailed in coming paragraphs.

**Operating Expenditure:**

The summary of OPEX required for FY 2021-22 is given below:

Description	Requested
	Mln.Rs
Human Resource cost	162
Admin expenses	27
Consultancy & Licensing fee	57
Training & capacity building	97
IT Opex	26
Total	370

**Human Resource cost:** HR cost includes salaries and other benefits based on ‘pay scale structure’ prevalent in CPPA-G. Other benefits consist of provident fund, gratuity, earned leaves, EOBI, GLI, medical benefits etc.

For employees currently working in SMD department, existing salaries have been projected after applying 10% increase over actual basic pay.



A staffing plan has been prepared for fresh hiring of 58 employees in four (4) batches:

Batch	Month of onboarding	No. of employees
1 <sup>st</sup>	September 2021	10
2 <sup>nd</sup>	December 2021	20
3 <sup>rd</sup>	January 2022	13
4 <sup>th</sup>	March 2022	15

These salaries have been budgeted based on expected time of onboarding, which is in line with status of preparedness for market operationalization.

The Authority is requested to approve an amount of Rs. 162 million for FY 21-22 under the head of HR cost.

**Admin expenses:** Admin expenses consist of POL of pool vehicles, insurance, communication & postage, printing & stationery, branding & advertisement, office supplies, travelling expenses, BoD & committees fee, external audit fee (after legal separation of MO) etc. Rent & utilities have **not** been budgeted in line with the assumption that MO will be accommodated in the existing building for 1<sup>st</sup> year.

The Authority is requested to approve an amount of Rs. 27 million for FY 21-22 under the head of Admin expenses.

**Consultancy & Licensing fee:** Market consultancy services obtained from international firm is the major chunk under this head. An RFP has already been launched to solicit such services from renowned firms. This budget has been based on man days / level of efforts required of the consultants.

In addition to this, local consultants are also required to provide support in areas like Business Process Re-engineering, Code & Regulatory matters and taxation etc.

NEPRA Licensing fee of Rs. 10 million has also been budgeted.

The Authority is requested to approve an amount of Rs. 57 million for FY 21-22 under this head.

**Training & Capacity building:** Market trainings and capacity building of major stakeholders are essential for effective operations of the wholesale electricity market. In addition to this, corporate trainings (including soft skills trainings) would be required for MO staff. Renowned business schools and executive training providers shall be engaged for these interventions. An amount has been provided for participation in

international conferences / specialized trainings on electricity markets and product design etc. Keeping in view the previous trend and requirements of the market, such interventions have been budgeted.

The Authority is requested to approve an amount of Rs. 97 million for FY 21-22 under the head of training & capacity building.

**IT Opex:** This head comprises of recurring cost related to maintenance and support of IT systems and solutions. Opex related to each system / solution has been separately identified and budgeted.

The Authority is requested to approve an amount of Rs. 26 million for FY 21-22 under this head.

**Capital Expenditure:**

CAPEX requirements of Market Operator have been estimated in the following categories:

- ✓ IT Systems & Solution
- ✓ Pool vehicles
- ✓ Furniture, fixtures & appliances

The summary of CAPEX required for FY 2021-22 is given below:

Description	Requested
	Mln Rs.
IT Systems & solutions	229
Pool vehicles	19
Furniture, fixtures & appliances	13
Total	261

**IT Systems and Solutions:** Market Management System (MMS) is the most critical and important core business solution of the Market Operator, required for proper functioning of the wholesale electricity market. It will support all phases of the market, ranging from registration of market participants, contracts registration, certification of capacity obligation, balancing mechanism and resulting settlement of the market. It will also cater complaints management and dispute resolution. MMS will also include the feature of web-based electronic communication (through internet) of market participants and service providers with the MO. An amount of Rs. 140 million (representing 70% of total cost) has been budgeted in the first year, when its configuration and implementation is expected to be completed by end of the year.

Demand forecasting tools (both in short term and medium term) are required to undertake simulation trails under different scenarios and assess impact for the market and enable important decision making. Short Term Load Forecasting (STLF) tool has already been developed and in the process of improvement. Only remaining

milestone payments have been budgeted. Medium term forecasting tool shall also be procured and has been budgeted on the indicative estimate.

An official website for Market Operator will be developed to disseminate information among the stakeholders (including public at large), in addition to fulfilling a statutory requirement. There will a dedicated login area on the web page, for market participants to interact with the MO and exchange essential information.

User level equipment (laptops & screens etc.) and office equipment (printers, fax machine & copier etc.) will be required for MO staff and have been budgeted in line with staffing plan, spanning over a period of three (3) years.

Additional licenses of ERP would also be required for MO staff and have been budgeted according to users' need.

The Authority is requested to approve an amount of Rs. 229 million for FY 21-22 in the head of IT Systems and Solutions.

**Pool Vehicles:** 2 Toyota cars (1.6L) have been budgeted for use of MO staff, whereas one car has been budgeted for Chief Executive Officer. In addition to this, one Toyota Hiace has also been budgeted to cater for the situation where more than 4 members are required to travel for official purposes.

The Authority is requested to approve an amount of Rs. 19 million for FY 21-22 under this head.

**Furniture, fixtures and appliances:** Furniture and fixtures (including seating arrangements and enabling working environment) have been budgeted in line with staffing plan. Offices of CEO and other heads of the department will also be required. Certain appliances for kitchen use like refrigerator, microwave oven and water dispenser will be required to serve the MO staff. These appliances have been budgeted in line with staff strength and will be enhanced over the time as per requirement. Underlying assumption while budgeting under this head, was that MO shall be accommodated in this building; Shaheen Plaza by end of this year and only additional facilities will be procured.

The Authority is requested to approve an amount of Rs. 13 million for FY 21-22 under this head.

## **6. PRIOR YEAR ADJUSTMENT (PYA)**

The Authority has determined the MOF of Rs. 1.61/kW/M to meet the revenue requirement of the company for FY 2020-21. Consequently CPPA-G has filed a review against the MOF determination of FY 2020-21, the decision of which is still awaited. Therefore, the working of the PYA for FY 2020-21(Prov) has been computed

based on the above-mentioned determination and actual expenditure of CPPA-G for FY 2020-21 as tabulated below:

<b><u>FY 2020-21</u></b>			
<b>Determined</b>	1.6100	23,693	<b>457.75</b>
<b>Recovery</b>	1.4610	25,583	<b>447.32</b>
			<b>10.43</b>
<b>O&amp;M Expenses</b>			
Determined	786.68		
Actual	<u>853.80</u>		<b>67.12</b>
<b>Capex</b>			
Determined	123.42		
Actual	<u>124.46</u>		<b>1.04</b>
<b>Other Income</b>			
Determined	334.09		
Actual	<u>296.28</u>		<b>37.81</b>
<b>Tax</b>			
Determined	69.91		
Actual	<u>72.49</u>		<b>2.58</b>
<b>PYA for FY 2020-21</b>			<b>118.98</b>

In view of the above submissions, the Authority is requested to allow Rs. 118.98 million in the head of Prior Year Adjustment to actualize the actual cost of FY 2020-21 (upward /downward) based on the audited financial statements of FY 2020-21.

## 7. COST ACTUALIZATION

It is delineated that CPPA-G, operating under Market Rules 2015 and performing various functions on behalf of DISCOs, meets its operational needs solely through Market Operation Fee determined by the Authority.

It is important to highlight that around 70% of total Market Operation Fee represents salaries & wages of employees and remaining 30% portion covers other essential needs like office rent for space requirement, travelling, office supplies, repair & maintenance, BoD & Audit Fee, NEPRA Licensing Fee, IT services, capex etc. It is submitted to the Authority that all expenditures are essential and legitimate in nature and by applying a cut on the actual expenditure, CPPAG will be unable to run its operational activities smoothly. Hence the Authority is requested to allow the actualization of expenditure based on the audited financial statements of FY 2022-24 when available.

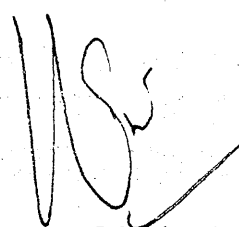
## 8. PROPOSED MARKET OPERATORS FEE

In view of the above discussion the summary of the revenue requirement is produced hereunder.

Description	Mln. Rs.			
	FY 21	FY 22	FY 23	FY 24
	Requested	Requested		
General Establishment Costs	695	670	852	926
Administrative Costs	184	265	221	233
Office Operations, Services & Maintenance	69	78	57	57
Insurance	3	4	4	4
Finance Charges	3	3	3	3
Less: other income	(334)	(269)	(269)	(269)
Total Revenue Requirement	620	750	868	955
CAPEX	61	58	52	51
Requirement of Market Operator (MO)	157	630	-	-
Tax	71	47	-	-
PYA	(114)	119	-	-
Revenue Requirement + CAPEX	795	1,604	920	1,006
Avg. MDI	23,693	26,535	26,857	28,237
Rs. /kW/M	2.7978	5.036	2.854	2.968

## 9. PRAYERS:

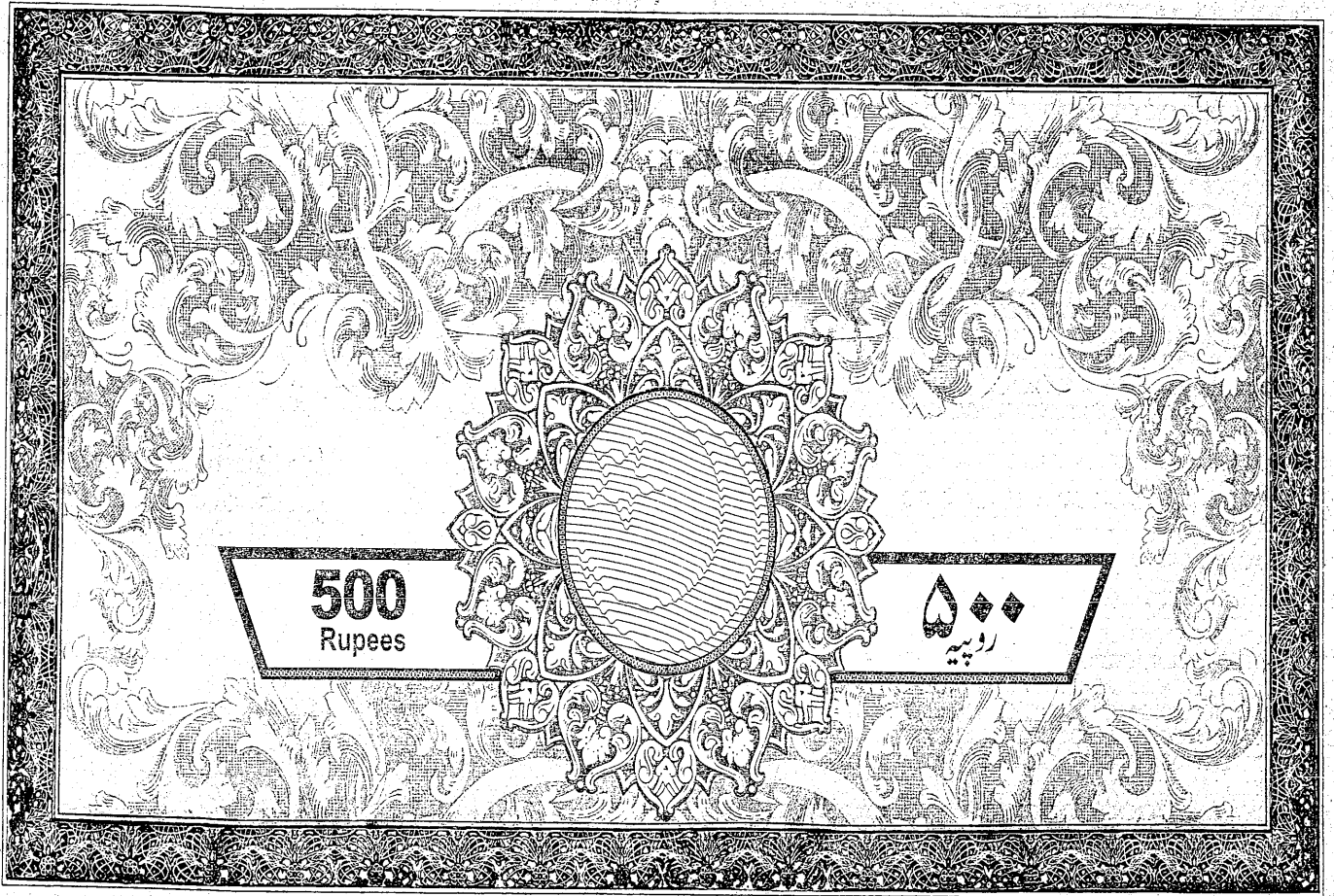
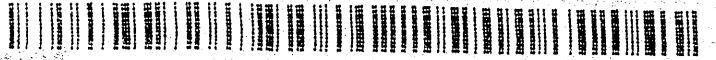
- In view of above submissions, it is respectfully prayed that the Authority may very graciously approve the Market Operation Fee @ Rs.5.036 per kW / Month for FY 22, Rs.2.854 per kW / Month for FY 23 and Rs.2.968 per kW / Month for FY 24.
- Authority is requested to allow the actualization of expenditure based on the audited financial statements of FY 2022-24 when available.
- Authority may allow immediate application of above-mentioned Market Operations Fee under Sub-Rule 7 of Rule 4 of the NEPRA (Tariff Standards and Procedures) Rules, 1998.
- Any other relief which the Authority deems fit in the circumstances may also be granted.



(Waseem Mukhtar)

Chief Executive Officer CPPA-G





The Affidavit of the Chief Executive Officer of the Petitioner, in Support of the Application

## AFFIDAVIT

I, Waseem Mukhtar, Chief Executive Officer, Central Power Purchasing Agency (Guarantee) Limited being duly authorized representative / attorney of Central Power Purchasing Agency (Guarantee) Limited, hereby solemnly affirm and declare that the contents of the accompanying petition including all supporting documents are true and correct to the best of my knowledge and belief and that nothing has been concealed. I also affirm that all further documentations to be provided by me in connection with the accompanying petition shall be true to the best of my knowledge and belief.

DEPONENT

Waseem Mukhtar



# Central Power Purchasing Agency Guarantee Limited

A Company of Government of Pakistan



No. CPPA-G/2021/CS/ 1551-53

31<sup>st</sup> August 2021

## BOARD RESOLUTION III / 74

### CPPA-G MULTIYEAR BUDGET FOR FY 2021-22 TO 2023-24

A meeting of Board of Directors of Central Power Purchasing Agency (Guarantee) Limited (CPPA-G) was held on 26<sup>th</sup> August 2021 at CPPA-G office, Shaheen Plaza, 73-west, Fazal-e-Haq Road, Blue Area Islamabad.

The Board of Directors of Central Power Purchasing Agency Guarantee Limited (CPPA-G) has;

- I. Resolved that "CPPA-G Multiyear Budget of Rs. 1,707 million for FY 2021-22 (CPPA Rs. 1,077 million & MO Rs. 630 million), Rs.1,189 million for FY 2022-23 and Rs.1,275 million for FY 2023-24 and its utilization as per Book of Financial Powers, be and is hereby approved."
- II. Further resolved that "Chief Executive Officer CPPA-G be and is hereby authorized for re-appropriation of O&M and Capital expenditure budget among their respective sub-heads on the recommendations of CFO CPPA-G, as per allowed limit of Book of Financial Powers.
- III. Further resolved that "CPPA-G management be and is hereby authorized to file approved Multiyear Budget, after incorporating impact of Prior Year Adjustment, as CPPA-G's Multiyear Market Operation Fee for FY 2021-22 to 2023-24 including budget for Market Operator for FY 2021-22 before National Electric Power Regulatory Authority (NEPRA)."
- IV. Further Resolved that "Chief Executive Officer CPPA-G be and is hereby authorized to:
  - i. sign individually or jointly the necessary documents for filing of Multiyear Market Operations Fee (MOF) application for MOF for FY 2021-22 to FY 2023-24.
  - ii. file subsequent review motion petition after determination on the said application of FY 2021-22 to FY 2023-24., if any.
  - iii. pay the necessary Market Operations Fee (MOF) petition filing fees.
  - iv. appear before the Authority as needed and do all acts necessary for completion and processing of the applications.

Page 1/2



**BOARD RESOLUTION III / 74**

**CPPA-G MULTIYEAR BUDGET FOR FY 2021-22 TO 2023-24**

- V. *Further resolved that "After the FY 2021-22 the Market Operator Budget for FY 2022-23 & 2023-24 should be presented to the ISMO Board for approval."*
- VI. *Further resolved that "Chairman CPPA-G Board is hereby decided to be the Chairman of IT Committee of CPPA-G Board."*
- VII. *Further resolved that "Chief Information Officer CPPA-G should present the IT Security initiatives undertaken by CPPA-G Independent System & Market Operator (ISMO), to the IT Committee of CPPA-G Board within Two Weeks."*

**CERTIFIED TO BE TRUE COPY**

Certified that the above resolution was passed by the Board of Directors of Central Power Purchasing Agency (Guarantee) Limited in its 74<sup>th</sup> meeting held on 26<sup>th</sup> August 2021 and has been duly recorded in the minutes book of the Company.

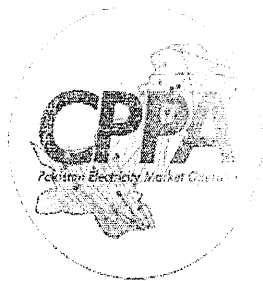
Noman Rafiq  
Company Secretary

**Distribution:**

- i. Chief Financial Officer, CPPA (G) Ltd.
- ii. Manager Finance, (B&R), CPPA (G) Ltd.

**CC for Information:**

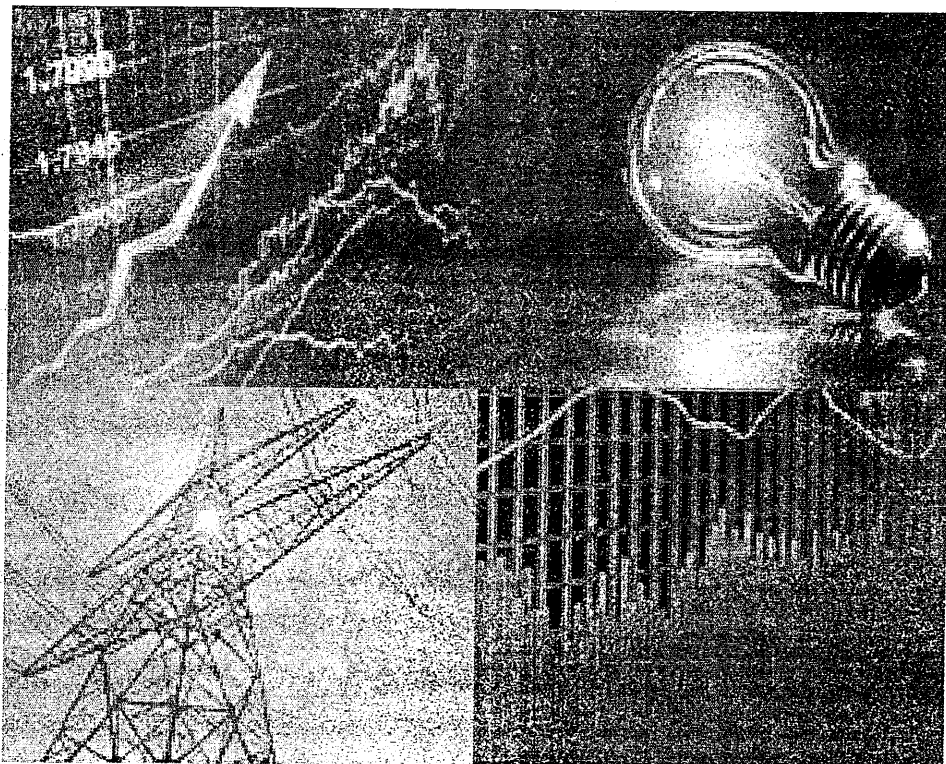
1. Chief Executive Officer, CPPA (G) Ltd.



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**HUMAN RESOURCE & ADMIN  
PROGRESS REPORT  
APR - JUN (Q4), 2021**

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**CENTRAL POWER PURCHASING AGENCY GUARANTEE**

## Introduction:

This report succinctly details the key development areas and progress made by the Human Resource & Admin Department CPPA-G during the second quarter i.e., from **April to June 2021**, as directed by NEPRA as an obligation under determination of its market fee. Here at CPPA-G, HR&A Department has transformed itself from support function to a corporate Business Partner and take every step to support the organization functions while maintaining a congenial & conducive working environment.

## Brief Details of HR&A Functions:

HR&A department covers multitude of HR functions to provide smooth and non-stop services to all the sections of CPPA-G. The synopsis of HR role is given as under:

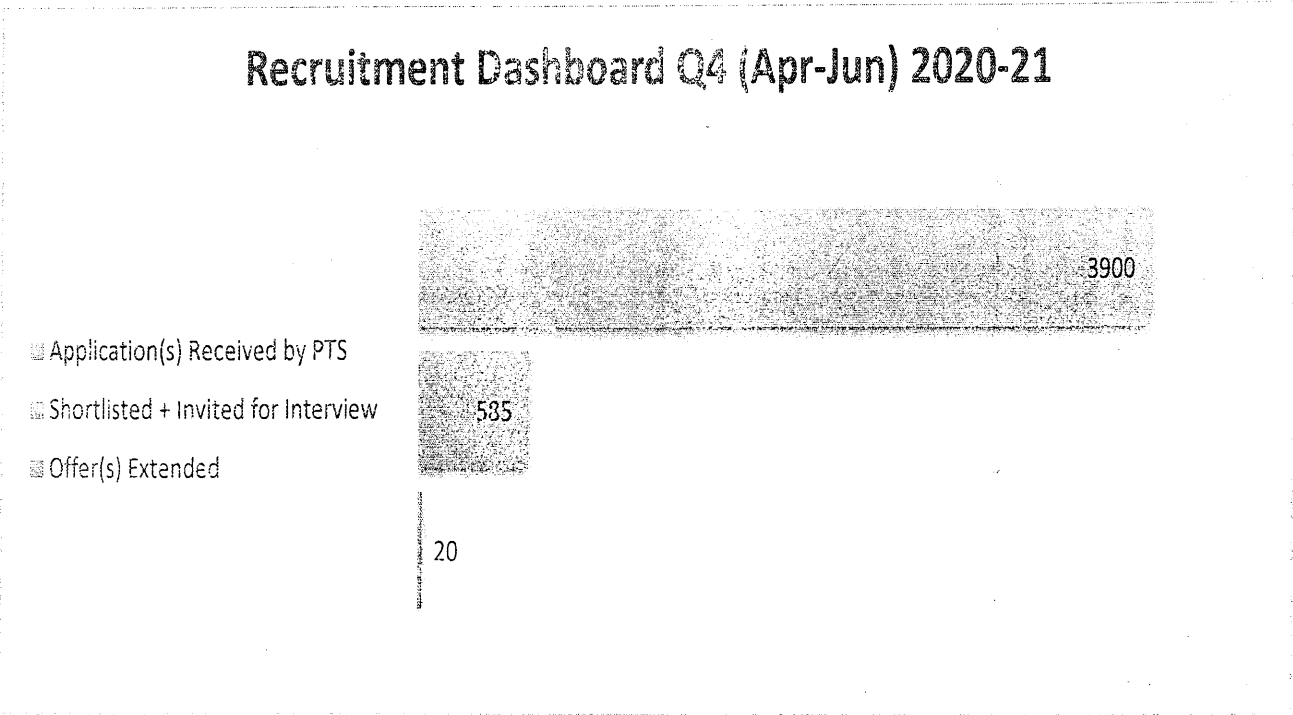
<b>HR Operations</b> <ul style="list-style-type: none"><li>➤ HR Service Delivery</li><li>➤ Employee Record Mgt</li><li>➤ Employee Relations</li><li>➤ Contract &amp; Vendor Mgt</li></ul>	<b>Recruitment &amp; Selection</b> <ul style="list-style-type: none"><li>➤ Job Advertisement</li><li>➤ Written Test &amp; Interview</li><li>➤ Onboard &amp; Orientation</li><li>➤ Offer &amp; Acceptance</li></ul>	<b>Compensation &amp; Benefit</b> <ul style="list-style-type: none"><li>➤ Payroll Processing</li><li>➤ Exit Management</li><li>➤ Employee Terminal Benefits</li><li>➤ Group Health Insurance</li><li>➤ Life Insurance</li></ul>
<b>Organization Development</b> <ul style="list-style-type: none"><li>➤ Organization Restructuring</li><li>➤ Policies &amp; Procedures</li><li>➤ HR Manual</li><li>➤ Employee Handbook</li><li>➤ Recreation Activities</li></ul>	<b>Training &amp; Development</b> <ul style="list-style-type: none"><li>➤ Training Need Assessment</li><li>➤ Profiling of Training Needs</li><li>➤ Training Programs in collaboration with PPRA Rules</li><li>➤ Training Feedbacks &amp; ROI</li></ul>	<b>HR Legal Framework</b> <ul style="list-style-type: none"><li>➤ Employee Grievance</li><li>➤ Legal Matters</li><li>➤ Legal Compliance</li><li>➤ Contract Management</li></ul>
<b>Procurement &amp; Logistics</b> <ul style="list-style-type: none"><li>➤ Ensuring all procurements while following the designated Supply Chain procedures</li><li>➤ Keeping ample quantity of different kinds of entities' stocks</li></ul>	<b>Fleet Management</b> <ul style="list-style-type: none"><li>➤ Vehicle Record Keeping</li><li>➤ Vehicle Fuel Management</li><li>➤ Vehicle Timely Maintenance</li><li>➤ Vehicle Tour Operations</li></ul>	<b>Facility Management</b> <ul style="list-style-type: none"><li>➤ Keeping Office Ambiance</li><li>➤ Facilitating all in-house meetings/trainings etc</li><li>➤ Office House Keeping</li><li>➤ Travel Arrangements</li></ul>

## HR&A Function-Wise Progress:

### Recruitment:

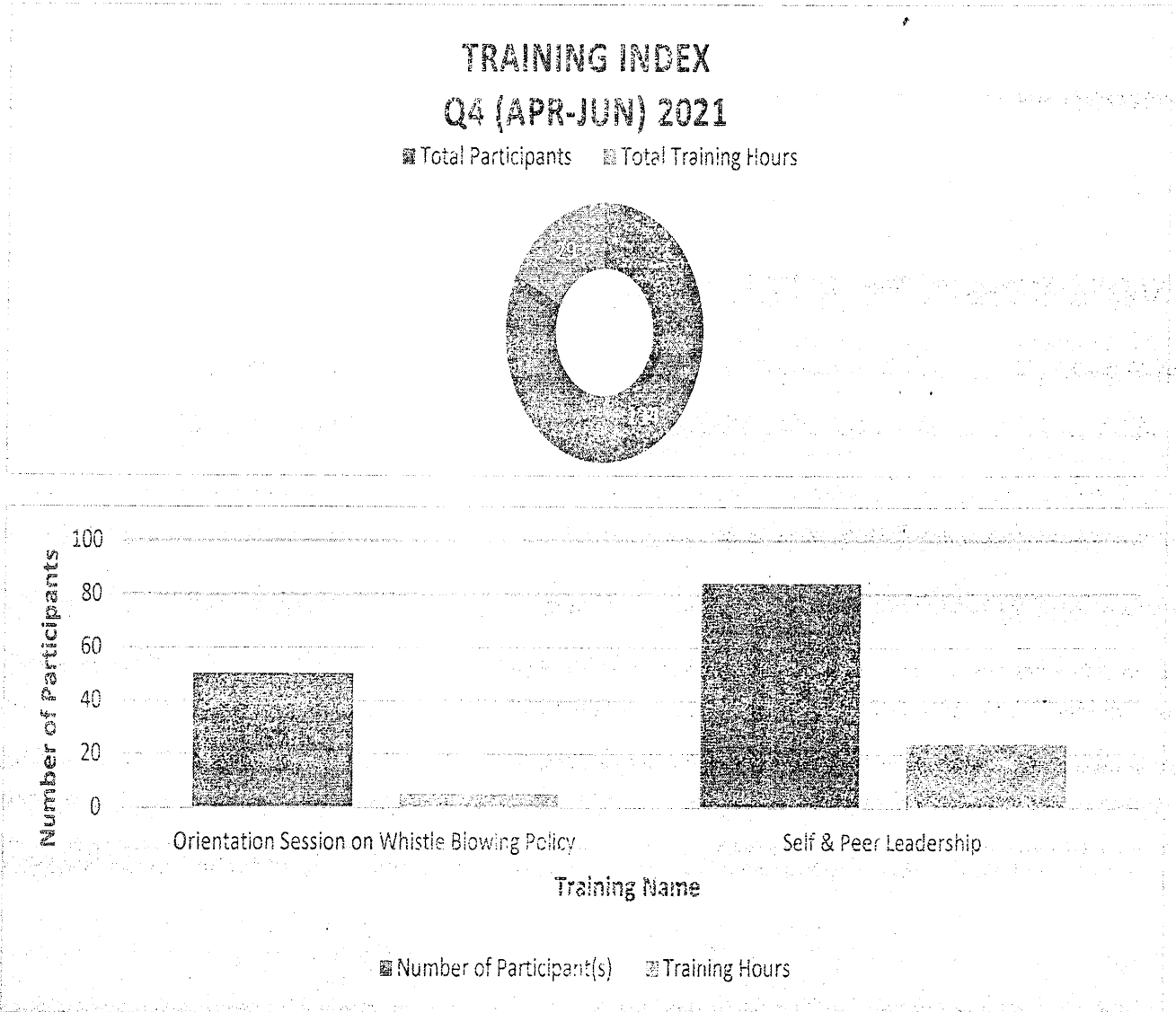
CPPA-G has continued to fill in the manpower needs as per the sanctioned strength. Despite Covid-19 restrictions, the recruitment domain worked tirelessly to deliver the required manpower needs within stipulated time. Especially, the manpower needs for the Market Operations & Development

function (previously Strategy & Market Development) have been catered on war-footing. The snapshot for the recruitment numbers for second quarter Q4 are as under:



Trainings:

The training programmes for the second quarter took a hit. However, pending in-house workshop on “Self & Peer Leadership” was organized whilst keeping the Covid-19 related safety measures in place. The Training Dashboard for second quarter as under:



Development & Review of Policies:

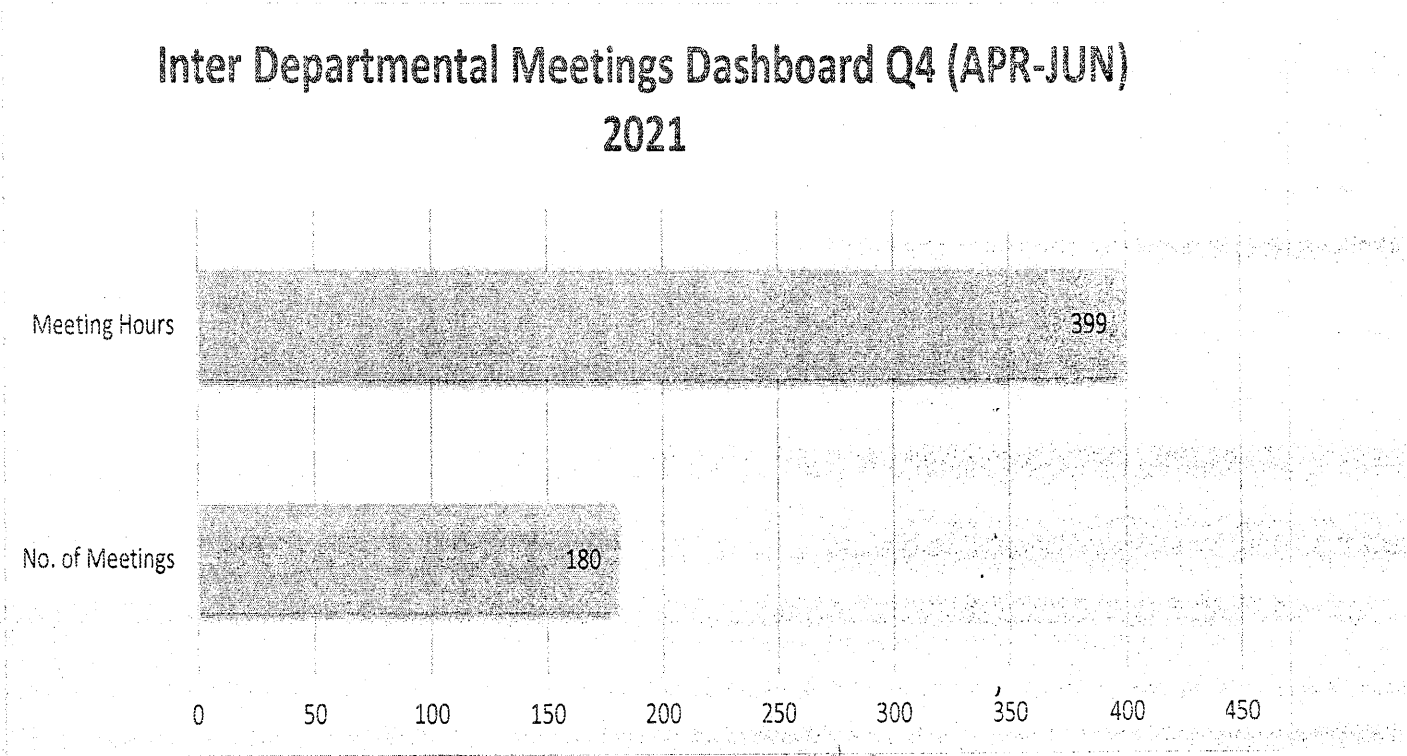
HR&A Department takes keen interest in developing and creating policies for the betterment of employees and to uplift the overall working environment. In this regard, three polices were formulated after extensive study and review in the first and second quarter. The newly formulated policies include **“The Risk Assessment Policy”** along with **“The Whistleblowing Policy”** and **“The Anti-Corruption Policy”**.

HR&A Admin Work Progress w.r.t Market Operator (MO) Function:

Economic Coordination Committee (ECC) has given the mandate to CPPA-G to segregate its two basic functions i.e., Agency Function and Market Operator. As NEPRA has already approved the CTBCM Model, therefore, keeping in view the timelines and prospective internal restructuring requirements, CPPA-G must establish a separate Market Operator Function. Pursuant to this mandate, HR&A Department of CPPA-G has been tasked to formulate a comprehensive **HR Manual for the Market Operator**. The first draft has been prepared after reviewing and extensive examining of best corporate practices. The review of first draft is currently underway by the Competent Authority.

Admin Support:

A brief snapshot of Admin Services with regards to meetings is provided below:



Miscellaneous Operations:

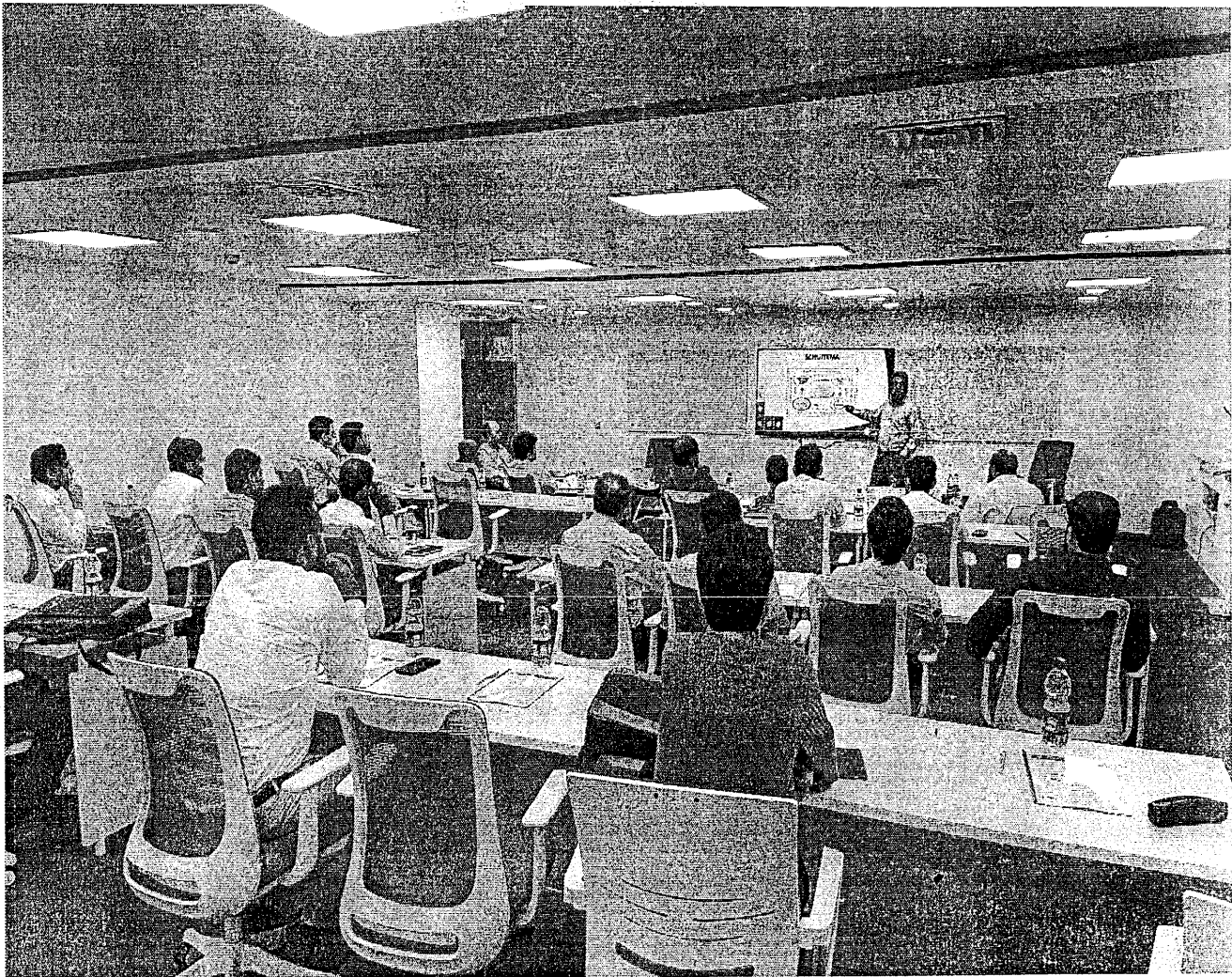
- As per **Smart Fleet Management Programme**, new vehicles have been added in the CPPA-G fleet to reduce overall repair and maintenance cost.
- After renovation & redesign of the office floor, an additional space has been created and around 40 employees have been adjusted.
- As Covid-19 is rampant and positivity rate is still high, HR&A Department has taken contingency initiatives and has ensured safety of all employees. Full health support has been provided to infected employees and their families along with periodic disinfection of the office

facility. Moreover, steps were taken to ensure 100 % staff gets covid vaccinated and it was accomplished within target date.

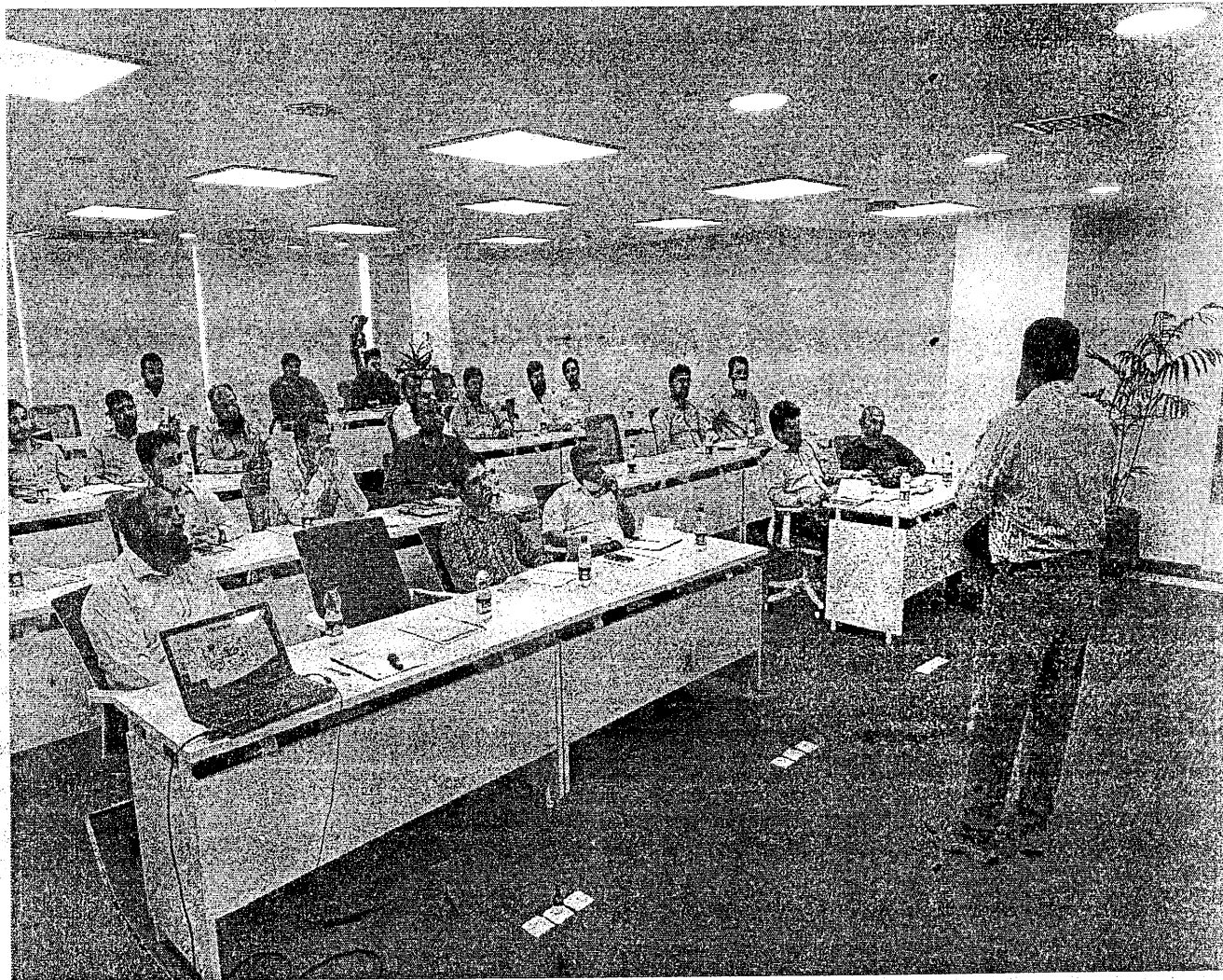
- The internal office branding was initiated, and numerous wall-hangings, motivational quotes and important guidelines were placed within CPPA-G.



Highlights of the Workshops/Sessions at CPPA-G:

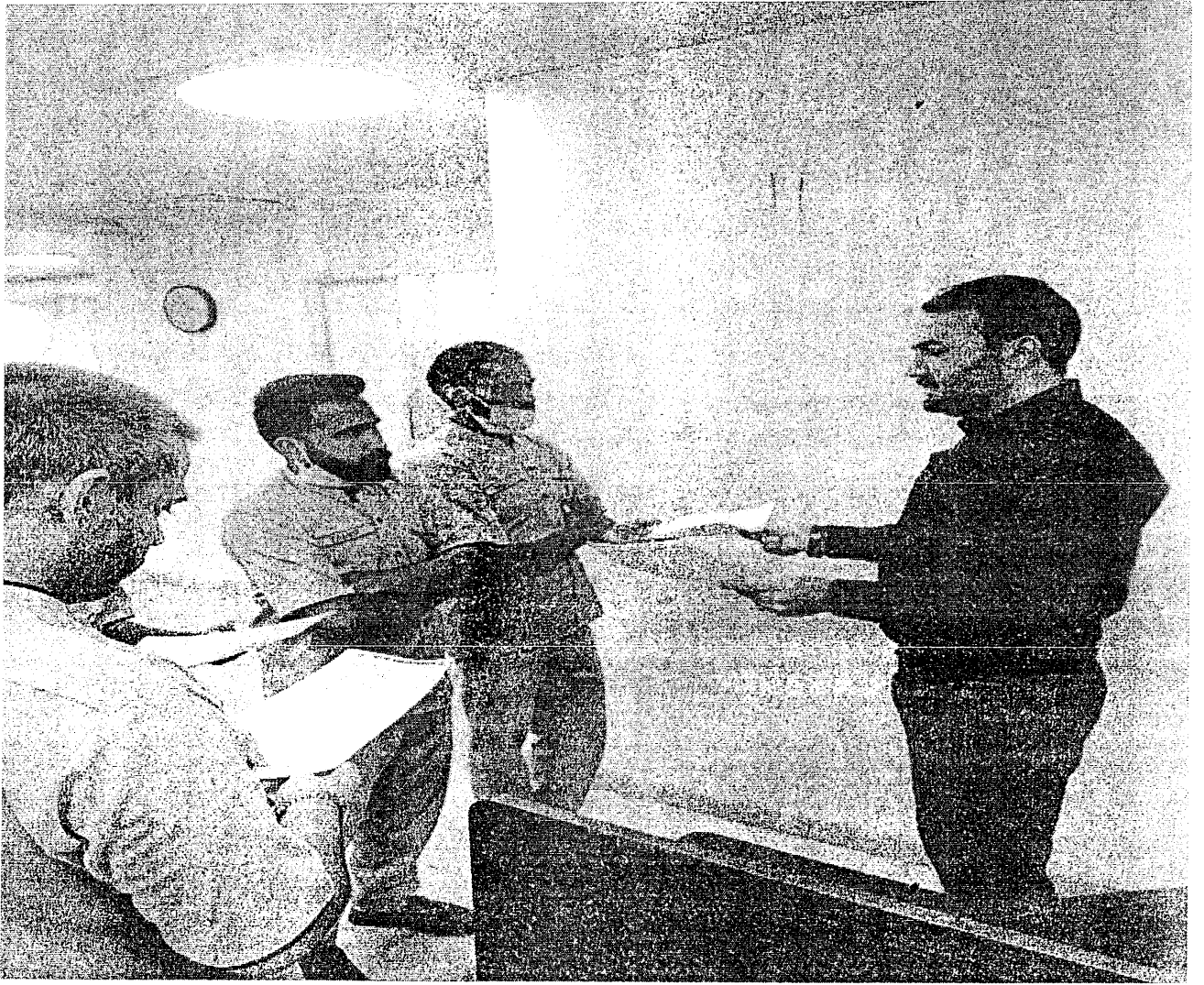


*Self & Peer Leadership Workshop*

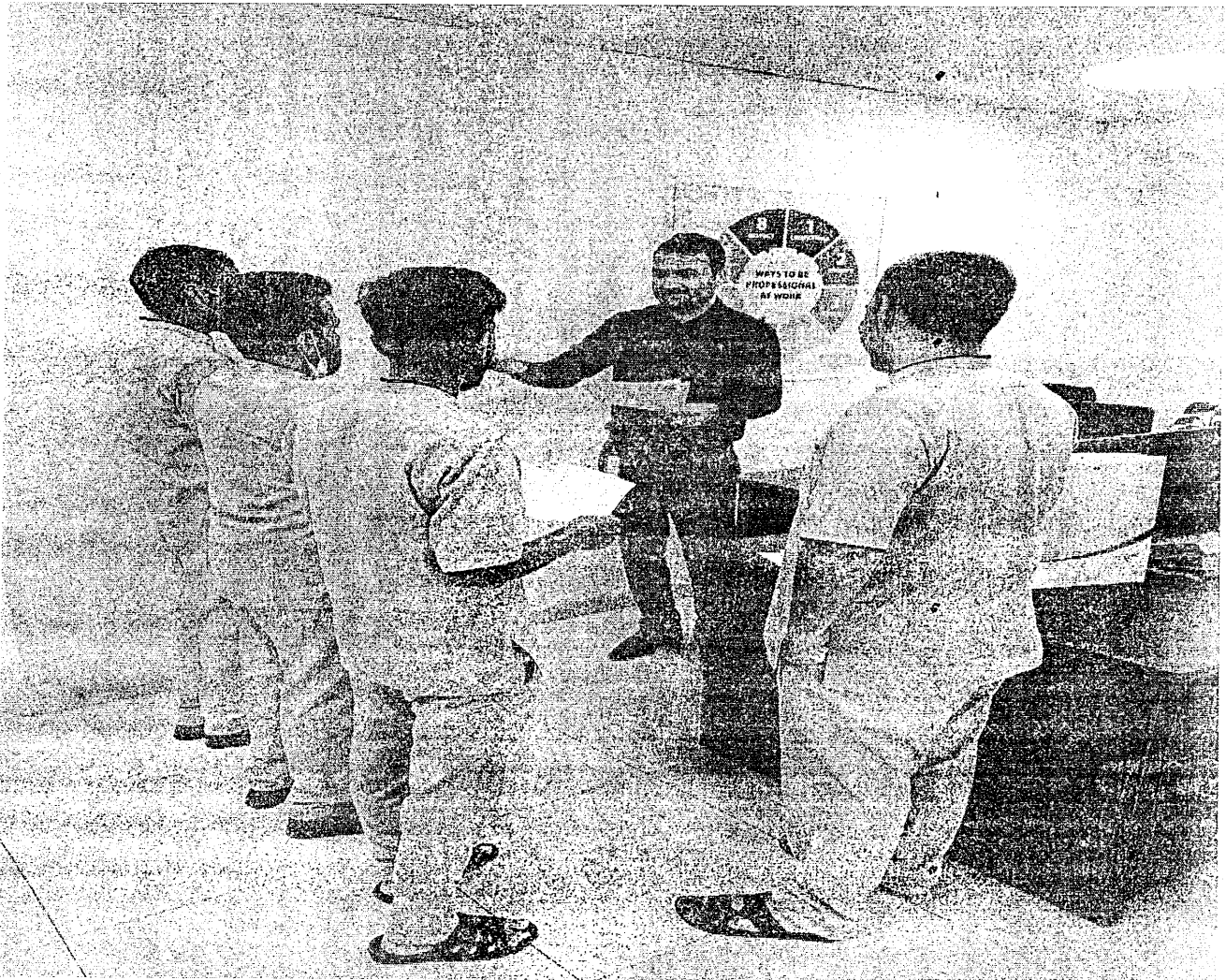


*Self & Peer Leadership Workshop*





*Orientation on Code of Conduct*



*Orientation on Code of Conduct*

**LIST OF BOARD MEMBERS AS ON 31<sup>ST</sup> AUGUST 2021****Name of Company:** Central Power Purchasing Agency (Guarantee) Limited**Registered Address:** 73-West, Shaheen Plaza, Fazal-e-Haq Road, Blue Area Islamabad

S. No	Full Name of Director	Date of Appointment	Designation
1	Mr. Ali Raza Bhutta	14-09-2020	Secretary Ministry of Energy (Power Division) / Chairman Board
2	Ms. Ayla Majid	27-12-2018	Independent Director
3	Mr. Hamid Ali Khan	27-12-2018	Independent Director
4	Mr. Ghias ud Din Ahmed	27-12-2018	Independent Director
5	Mr. M. Anwer Sheikh	02-06-2020	Sr. Joint Secretary (Finance Division) (Ex. Officio)
6	Mr. Muhammad Amjad Khan	16-07-2021	CEO IESCO (Ex. Officio)
7	Syed Tanveer Jafri	04-08-2021	CEO GENCO Holding Co. (Ex. Officio)
8	Mr. Mahfooz Ahmad Bhatti	12-08-2021	Joint Secretary (PF) Ministry of Energy (Power Division) (Ex. Officio)
9	Mr. Azaz Ahmad	04-08-2021	Managing Director NTDC (Ex. Officio)
10	Mr. Waseem Mukhtar	10-06-2020	CEO CPPA-G / Addl. Secretary (Power Division)

## **Mr. Ali Raza Bhutta**

Mr. Ali Raza Bhutta is Secretary Ministry of Energy (Power Division), with a Degree of M. Phil (Economic Development) from University of Glasgow, United Kingdom, and master's in business administration degree from Quaid-e-Azam University Islamabad, Pakistan. Mr. Ali Raza Bhutta has wide range experience in public administration and held various important positions throughout his professional career in government departments. Mr. Ali is a Board member of CPPA-G in his ex. Officio capacity.

## **Ms. Ayla Majid**

Ms. Ayla Majid is working as the CEO CAMCO (Pvt) Limited. Director Business Advisory Services with Khalid Majid Rehman Chartered Accountants.

In 2015 The World 'Economic Forum honored Ayla as Young Global Leader. She is also elected on the International Council of Association of Chartered Certified Accountants (ACCA), being the first and the only Pakistani at this global governing body. She did LLB Honors from University of London in 2008, Associate Chartered certified Accountant (ACCA UK) in 2006 and MBA from LUMS in 2000

## **Mr. Hamid Ali Khan**

27 years in the Civil Service of Pakistan / District Management Group (Pakistan Administrative Service) He possesses vast and extensive experience of public sector management at strategic, policy, operational and tactical levels in all tiers of government. He remained on key positions as National Coordinator of Counter Terrorism Authority, Federal Secretary Capital Development Authority, Chairman NHA, Chief Commissioner Islamabad and served as Additional Secretary of Ministry of Water & Power, NHA and Live Stocks

## **Mr. Ghias Ud Din Ahmed**

Mr. Ghias ud Din Ahmed joined Civil Services in 1973 and served as Deputy Commissioner, Commissioner and Home Secretary Balochistan, other assignments and planning side include Director Mineral Development Balochistan, Secretary Urban Planning and Development Department Balochistan. Mr. Ghias Ud Din Ahmed also worked as principal secretary with various Chief Ministers of Balochistan.

In Federal Government he also served as Joint Secretary Establishment Division, DG National Institute of Public Administration Quetta, Addl. Secretary Minorities Affairs, Managing Director of National Book Foundation. He also serves as Secretary Youth Affairs,

Secretary Planning & Development and Secretary Establishment Division and also served as Member NEPRA Authority

## **Mr. Muhammad Anwer Sheikh**

Mr. Muhammad Anwer Sheikh is Government Officer and currently has been working as Additional Secretary in Ministry of Finance, Mr. Sheikh did master's in Commerce/Finance (with distinction) and LLB. He also poses the Leadership Program training on campus Executive Education in Public Financial Management from JFK School of Government, Harvard, National Management Course from National School of Public Policy, Pakistan.

Over 26 years' experience in public administration, corporate sector management, local and international financing, investment dispute settlement, taxation laws, international aid architecture etc. Served in Revenue Division, PM Secretariat, Economic Affairs Division and currently in Finance Division and also serving different Boards of DISCOs and other Public Sector Entities.

## **Engr. Dr. Muhammad Amjad Khan**

Dr. Muhammad Amjad Khan is an engineer by profession and has a vast experience of working in Power Sector of Pakistan. Dr. Amjad holds Masters Degree in Engineering and then PhD in management with the experience of Planning, Distribution of Power, currently he has been working as Chief Executive Officer of Islamabad Electric Supply Company (IESCO) and is a Board member of CPPA-G in his ex. Officio capacity.

## **Syed Tanveer Ahmed Jafri**

Syed Tanveer Ahmed Jafri is an engineer by profession and his experience covers over two decades. He is a leader and expert developer of energy projects including, efficiency, transmission, power generation projects. He designed, built and managed multi-million-dollar projects within USA and globally, with a working knowledge of Utility, State, and Federal Government procurement processes. Worked on Over 3 GW of Green Energy Projects Globally with a cumulative value of over 5 Billion USD and 14 GW of Conventional Energy Projects. Awarded 2010 Legend of Energy by AEE-USA. Working Experience with ADB, IBRD and USAID funded projects. Currently he is serving as Chief Executive Officer of GENCO Holding Company and is a Board member of CPPA-G in his ex. Officio capacity.

## **Mr. Mahfooz Ahmad Bhatti**

Mr. Mahfooz Ahmad Bhatti is a Public Sector Financial Management Specialist with more than 17 years of experience of working with the Pakistan Public Sector. Public sector Audit, Public Sector Accounts, Project Management, Policy Development and Analysis and Project Oversight, Monitoring and Evaluation are key expertise. Currently working as Joint Secretary (Power Finance) at Ministry of Energy (Power Division) and is a Board member of CPPA-G in his ex. Officio capacity.

## **Mr. Azaz Ahmad**

Mr. Azaz Ahsan is an engineer by profession and also has MBA degree from IBA Punjab, and having a vast experience of working in National and International Institutions, i.e. Siemens (Pakistan/UAE/Canada) and NTDC of Pakistan. He also won Siemens Canada Leadership Award (2012) and Siemens Canada Top Talent Nomination (2012). Currently Mr. Azaz Ahmad has been working as Managing Director of National Transmission and Despatch Company Ltd. and is a Board member of CPPA-G in his ex. Officio capacity.

## **Mr. Waseem Mukhtar**

Chief Executive Officer / Executive Member Board of Directors

Mr. Waseem Mukhtar has been working as Additional Secretary, Power Division since February 2018. And currently having additional charge of CEO CPPA-G as per directions of Federal Cabinet. He also severed different Government departments i.e. MD Utility Stores Corporation, MD National Fertilizer Marketing Ltd., Secretary Housing, Urban Development & Public Health Engineering Dept., Secretary Transport Dept. Govt. of Punjab, Member Colonies, Board of Revenue, Govt of Punjab, Special Secretary, Health Department, Govt. of Punjab, Special Secretary / Secretary, Communication & Works Dept. Govt. of Punjab.

**Central Power Purchasing Agency (Guarantee) Limited**

A Company of Government of Pakistan



No. CPPA-G/CTO/DGM(Ren)/20806-09


13<sup>th</sup> Aug 2021

The Registrar NEPRA  
NEPRA Tower, Attaturk Avenue (East)  
Sector G-5/1 Islamabad

SUBJECT: REPORT ON MERIT ORDER DEVIATIONS – JULY 2021

This is with reference to Clause-11 of the NEPRA's decision No. NEPRA/R/TRF-100/MFPA/18911-27 dated 7<sup>th</sup> April 2021 in the matter of Fuel Charges Adjustment for the month of February 2021 for XWDISCOs regarding submission of the captioned report to the Authority. Although the responsibility of system operations lies with NPCC of NTDC as per the Grid Code, however, per the Authority instructions, financial delta has been calculated by CPPA-G (Annexure-1) on the data submitted by NPCC regarding merit order deviations for the month of July-2021.

It is further apprised that the reasoning mentioned therein by NPCC on account of deviations in the merit order seems in line with the relevant provisions of the Scheduling and Dispatch Code of the Grid Code.

  
Dy GM Technical  
(Convener)

C.C.

1. Chief Executive Officer CPPA-G
2. Chief Financial Officer CPPA-G
3. Chief Technical Officer CPPA-G
4. Master File



<b>Monthly Report on NPCC Merit Order Deviations Considering Security Constrained Economic Dispatch Month of July-2021</b>			
	<b>Reason</b>	<b>No. of Instances</b>	<b>Financial Delta (Million PKR)</b>
Deviations	System Constraints	54	318.21
	System Testing	0	0.00
		54	318.21



Daily Report Sheet of Power Plants Operated out of Merit																							
Sr.No.	Date	Deviation Event	Merit Order #	Economic Despatch Level	MW	Rate as per Merit Order Rs./kWh	Generation Curtailed/Taken OFF Bar				Generation Increased/Taken ON Bar				Approx. Energy (GWh) (Power x Duration)	Plants Available as per Merit Order						Justification Details As per Grid Code SDC 1.4.9.3	Deviation Category
							Start Time	End Time	Duration	Avg. Power	Start Time	End Time	Duration	Avg. Power		Name	Merit Order #	Rate as per Merit Order Rs./kWh	Capacity (MW)	Energy Compensated (GWh)	No. MU		
1	01-Jul-2021	Liberty Power	1	200	1.8260	00:01	23:59	23:58	30					0.72	Self (HSD)	105	21.3220	203	0.36	7.02	132 kV Gotki-Rohri & 132 kV Panu Akif-Rohri cct under permanent fault due to tower collapse at loc # 213	System Constraints	
2	02-Jul-2021	Liberty Power	1	200	1.8260	00:01	23:59	23:58	21					0.5	Sapphire (HSD)	102	20.5976	203	0.36	7.56	132 kV Gotki-Rohri & 132 kV Panu Akif-Rohri cct under permanent fault due to tower collapse at loc # 213	System Constraints	
3	03-Jul-2021	HUB China	5	1250	6.8597	06:45	08:12	01:26	98					0.140	LALPIR	75	17.8179	350	0.140	1.53	Generation curtailed due to schedule shutdown on 500 kV HUBCO-Jamshoro cct	System Constraints	
4	02-Jul-2021	SABA	85	123.057	18.79716					20:32	21:54	01:22	100	0.1	Nisbat Chunian	68	16.5631	196	0.1	- 0.31	To avoid overloading of 04 No. 500/220 kV, 600 MVA Auto Transformers at Sheikhpura (1450 A each) & Forced Outage of Halmora Complex	System Constraints	
5	03-Jul-2021	SABA	85	123.057	18.79716					23:00	23:59	00:59	102	0.10	LALPIR	75	17.8179	350	0.25	- 0.24	Recommended max loading <= 1400 A To avoid overloading of 04 No. 500/220 kV, 600 MVA Auto Transformers at Sheikhpura (1260 A each) & Forced Outage of Halmora Complex. Loading maintained to ensure N-1 contingency.	System Constraints	
6	04-Jul-2021	SABA	85	123.057	18.79716					8:20	14:12	05:52	101	0.59	HUBCO(N)	72	17.4342	214	0.59	- 0.80	Recommended max loading <= 1400 A along with Low Voltages in LESCO Region	System Constraints	
7	04-Jul-2021	Liberty Tech	65	68	16.3055					11:21	23:15	11:54	96	1.14	KEL	62	16.1716	124	0.8	- 0.11	To avoid overloading of 04 No. 500/220 kV, Transformers at Gatti (1045 A each)	System Constraints	
8	04-Jul-2021	Liberty Power	1	195	1.8260	22:54	23:59	01:05	43					0.0464	Orient (HSD)	101	20.9352	203	0.0464	0.89	Tripping of 132 kV Gotki-IDW cct on 04-07-2021 at 22:15 Hrs	System Constraints	
9	05-Jul-2021	Liberty Tech	65	68	16.3055					0:00	8:00	08:00	61.25	0.49	AGL	63	16.2043	156	0.30	- 0.03	To avoid overloading of 04 No. 500/220 kV, 450 MVA Auto Transformers at Gatti (1045 A each)	System Constraints	
10	05-Jul-2021	Nisbat Power	49	68	14.0524					0:01	06:12	06:11	53	0.33	KEL	62	16.1716	124	0.19	3.07	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (656 A each)	System Constraints	
11	05-Jul-2021	Liberty Power	1	205	1.8260	00:00	10:30	10:30	61					1.19	ATLAS	45	12.9174	214	0.33	- 0.38	Recommended max loading <= 640 A	System Constraints	
12	08-Jul-2021	HUB China	5	1250	6.8597	07:11	11:31	04:20	354					2.24	SABA	85	10.79716	123.057	0.50	8.49	Tripping of 132 kV Gotki-IDW cct on 04-07-2021 at 22:15 Hrs	System Constraints	
13	10-Jul-2021	HUB China	5	1250	6.8597	05:00	12:03	07:03	301					2.12	Orient (HSD)	101	20.9352	203	1.50	21.11	Overloading of 500 kV HUB-Jamshoro cct due to tripping of 500 kV HUB China-Jamshoro cct & 500 kV Bus Bar # 02 at Jamshoro on 09-07-2021 at 07:10 Hrs.	System Constraints	
14	11-Jul-2021	HUB China	5	1250	6.8597	4:03	11:04	7:01	345					2.42	Self (HSD)	105	21.3220	105	0.74	15.78	Overloading of 500 kV HUB-Jamshoro cct due to tripping of 500 kV HUB China-Jamshoro cct on 10-07-2021 at 05:00 Hrs.	System Constraints	
15	12-Jul-2021	HUB China	5	1250	6.8597	9:56	11:05	1:10	343					0.4	Sapphire (HSD)	102	20.5976	105	0.67	14.07	Overloading of 500 kV HUB-Jamshoro cct due to tripping of 500 kV HUB China-Jamshoro cct on 11-07-2021 at 04:01 Hrs.	System Constraints	
															LALPIR	75	17.8179	350	0.60	6.62		System Constraints	
															Nisbat Chunian	68	16.5631	196	0.60	10.00		System Constraints	
															PAK GEN	86	18.8225	350	0.60	11.87		System Constraints	
															HUBCO Narowal	72	17.4342	214	0.60	10.53		System Constraints	
															PAK GEN	86	18.8225	350	0.10	1.20		System Constraints	
															Nisbat Chunian	68	16.5631	196	0.10	1.66		System Constraints	
															Liberty Power Tech	65	16.3055	193	0.10	1.63		System Constraints	
															HUBCO (N)	72	17.4342	214	0.10	1.74		System Constraints	

Daily Report Sheet of Power Plants Operated out of Merit																						
Sr.No.	Date	Deviation Event	Merit Order #	Economic Despatch Level		Generation Curtailed/Taken Off Bar				Generation Increased/Taken On Bar				Approx. Energy (GWH) (Power x Duration)	Plants Available as per Merit Order						Justification Details As per Grid Code SDC 1.4.3.3	Deviation Category
				MW	Rate as per Merit Order Rs./kWh	Start Time HH:MM	End Time HH:MM	Duration HH:MM	Avg. Power MW	Start Time HH:MM	End Time HH:MM	Duration HH:MM	Avg. Power MW		Name	Merit Order #	Rate as per Merit Order Rs./kWh	Capacity (MW)	Energy Consumed (GWH)	Rs. MVA		
16	12-Jul-2021	Liberty Power	1	203	1.8260	15:26	23:59	08:33	61					0.37	ATLAS	45	12.9174	214.00	0.37	4.10	Tripping of 132 kV Panu Ahi-Rohri cut on 12-07-2021 (From 19:00 Hrs to 20:00 Hrs) & Tripping of 132 kV Liberty Power-Mirpur Mathelo cut on 12-07-2021 (From 20:15 Hrs to 23:59 Hrs)	System Constraints
17	13-Jul-2021	Nisbat Power	49	0	14.0524					03:00	09:00	06:00	177	1.06	Bhikki	37	12.2491	1080	1.06	1.95	Overloading of 220kV Okara-YSW cut # 02 (1010 A) due to emergent Shutdown on 220kV Okara-YSW cut # 01. Recommended max. loading <= 1100 A	System Constraints
18	13-Jul-2021	KEL	62	0	16.17156					03:00	09:00	06:00	44	0.264	Kuloki	34	11.6670	1172	0.264	1.19	Overloading of 220kV Okara-YSW cut # 02 (1010 A) due to emergent Shutdown on 220kV Okara-YSW cut # 01. Recommended max. loading <= 1100 A	System Constraints
19	13-Jul-2021	Nisbat Chunian	60	0	16.5531					02:00	9:00	6:00	68	0.408	Sapphire	40	12.4155	203	0.408	1.60	Overloading of 220kV Okara-YSW cut # 02 (1010 A) due to emergent Shutdown on 220kV Okara-YSW cut # 01. Recommended max. loading <= 1100 A	System Constraints
20	14-Jul-2021	Nisbat Power	49	66	14.0524					7:45	13:50	06:05	64	0.39	Sahiwal Coal	20	9.6137	1245	0.39	1.73	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (650 A each) Recommended max. loading <= 640 A	System Constraints
21	14-Jul-2021	Sapphire	37	170	12.2491					10:43	15:19	04:36	80	0.37	Bhikki	29	10.0517	1080	0.37	0.80	To avoid overloading of 04 No. 500/220 kV, 600 MVA Auto Transformers at Sheikhpura (1565 A each) Recommended max. loading <= 1500 A & Low Voltages at 500 kV Sheikhpura (484 kV)	System Constraints
22	14-Jul-2021	Helmars	34	55	17.7590					14:12	15:19	01:07	63	0.07	Bhikki	29	10.0517	1080	0.07	0.15	To avoid overloading of 04 No. 500/220 kV, 600 MVA Auto Transformers at Sheikhpura (1565 A each) Recommended max. loading <= 1500 A & Low Voltages at 500 kV Sheikhpura (484 kV)	System Constraints
23	17-Jul-2021	Liberty Power	1	195	1.8260	06:18	16:22	09:04	31					0.25	Nisbat Power	48	12.7168	195	0.25	4.97	Scheduled shutdown on 132kV Guddu-Gharkhi cut	System Constraints
24	19-Jul-2021	Nisbat Power	49	0	21.7168					21:55	23:59	02:04	141	0.26	Bhikki	37	12.5961	1080	0.26	2.37	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (610 A each) Recommended max. loading <= 640 A	System Constraints
25	20-Jul-2021	Nisbat Chunian	52	0	16.5532					00:00	08:45	08:45	16	0.14	Bhikki	37	12.5961	1080	0.14	0.55	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (610 A each) Recommended max. loading <= 640 A	System Constraints
26	20-Jul-2021	KEL	66	0	16.80445					00:00	4:28	04:28	74	0.33	HAS	33	12.1759	1180	0.33	2.19	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (610 A each) Recommended max. loading <= 640 A	System Constraints
27	20-Jul-2021	Nisbat Power	88	0	21.7168					0:00	0:45	00:45	80	0.06	Bhikki	37	12.5961	1080	0.06	0.55	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (610 A each) Recommended max. loading <= 640 A	System Constraints
28	20-Jul-2021	FKPCL	63	0	17.9956					0:00	23:59	23:59	108	2.6	Sapphire	40	15.8160	203	0.86	2.90	To avoid overloading of 02 No. of Autos at NGPS (628 A)	System Constraints
					17.9956										Orient	39	15.0911	203	0.86	2.90		System Constraints
					17.9956										Sih	42	15.3539	203	0.86	2.29	Recommended max. loading is <= 580 A	System Constraints
29	23-Jul-2021	KEL	66	0	16.80445					4:25	8:32	04:07	103	0.39	ATLAS	36	16.5558	213	0.39	0.88	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (610 A each) Recommended max. loading <= 640 A	System Constraints
30	27-Jul-2021	Nisbat Power	48	0	21.7168					0:00	23:55	23:55	71	1.7	ATLAS	56	16.5552	213	0.55	2.89	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (670 A each)	System Constraints
															Nisbat Chunian	52	16.5558	196	0.56	5.27		System Constraints
															AGL	58	17.1502	155	0.56	9.60	Recommended max. loading <= 640 A	System Constraints
31	27-Jul-2021	KEL	66	44	16.80445					17:00	23:59	06:59	72	0.5	ATLAS	56	16.7850	213	0.16	0.32	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (670 A each)	System Constraints
															Nisbat Chunian	52	16.5558	196	0.16	2.65		System Constraints
															AGL	58	17.1502	156	0.16	2.74	Recommended max. loading <= 640 A	System Constraints
32	27-Jul-2021	Liberty Power	1	201	1.8260	0:20	13:26	03:06	43					0.23	PAYGEN	72	20.7873	350	0.11	1.09	Scheduled shutdown on 132kV Liberty-Guddu left cut	System Constraints
															RUBCO (N)	61	17.4632	214	0.11	1.92		System Constraints
33	28-Jul-2021	AES PAYGEN	72	0	20.7873					0:00	23:58	23:59	132	3.14	ATLAS	56	16.7850	213	0.23	1.72	To avoid overloading of 02 No. 500/220 kV, 450 MVA Auto Transformers at Multan (999 A)	System Constraints
															Orient	39	15.0911	203	0.43	6.49		System Constraints
															Bhikki	37	12.5961	1080	1.20	15.12	Recommended max. loading <= 1100 A	System Constraints
															Sahiwal Coal	28	10.3555	1245	1.10	11.39		System Constraints
															Orient	39	15.0911	203	0.50	1.86	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (660 A each)	System Constraints

Daily Report Sheet of Power Plants Operated out of Merit																						
Sr.No.	Date	Deviation Event	Merit Order #	Economic Dispatch Level	Generation Curtailed/Taken Off Bar				Generation Increased/Taken On Bar				Approx Energy (GWH) (Power x Duration)	Plants Available as per Merit Order						Justification Details: As per Grid Code SOC 1.4.3.3	Deviation Category	
				MW	Rate as per Merit Order Rs./kWh	Start Time HH:MM	End Time HH:MM	Duration H:MM	Avg. Power MW	Start Time HH:MM	End Time HH:MM	Duration H:MM		Avg. Power MW	Name	Merit Order #	Rate as per Merit Order Rs./kWh	Capacity (MW)	Energy Compensated (GWH)			Rs. MN
34	28-Jul-2021	KEL	68	0	18.8045					0:03	21:35	21:32	70	1.51	Bhikki	37	12.5961	1080	0.50	6.30	Recommended max. loading <= 640 A To avoid over-loading of 03 No. 500/220 kV, 450 MVA Auto Transformers at Rawat (800 A)	System Constraints
35	28-Jul-2021	AGL	58	60	17.1502					0:00	8:05	0:15	66	0.264	Sahiwal Coal	28	10.3555	1243	0.50	5.18		System Constraints
36	28-Jul-2021	Nisbat Power	55	0	21.7160					9:10	20:48	11:38	77	0.89	Bhikki	37	12.5961	1080	0.13	0.59		System Constraints
37	28-Jul-2021	Sapphire	40	120	15.3160					9:04	16:46	7:42	83	0.44	Sahiwal Coal	28	10.3555	1243	0.13	1.95	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (640 A each)	System Constraints
38	28-Jul-2021	Malmore	41	55	15.3261					9:04	16:46	7:42	40	0.31	Bhikki	37	12.5961	1080	0.45	4.06		System Constraints
39	28-Jul-2021	Nisbat Power	68	0	21.7160					11:30	20:35	09:05	67	0.61	Sahiwal Coal	28	10.3555	1243	0.45	4.61		System Constraints
40	29-Jul-2021	AES PAKGEN	72	0	20.7873					16:50	23:59	7:09	166	1.2	Atlas	56	16.7853	213	0.21	3.58	Low Voltages in LESCO region To avoid overloading of 02 No. 500/220 kV, 450 MVA Auto Transformers at Multan (976 A each)	System Constraints
41	29-Jul-2021	AES PAKGEN	72	0	20.7873					9:07	23:59	14:52	212	3.15	Liberty Power Tech	50	16.2229	195	0.30	4.87		System Constraints
42	29-Jul-2021	KEL	66	0	18.8045					8:52	23:59	15:27	71	1.00	Bhikki	34	12.2653	1172	0.40	3.41		System Constraints
43	29-Jul-2021	Nisbat Chuglan	52	6A	16.5558					10:00	23:59	13:59	59	0.85	Bhikki	34	12.2653	1172	0.40	6.99	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (650 A each)	System Constraints
44	29-Jul-2021	FKPCL	64	0	17.9956 17.9956 17.9956 17.9956					0:00	23:59	23:50	115	2.75	Bhikki	34	12.2653	1172	1.80	15.84		System Constraints
45	30-Jul-2021	ATLAS	56	75	16.7860					5:55	23:59	18:04	09	1.76	Liberty Power Tech	50	16.2229	195	0.40	6.99		System Constraints
46	31-Jul-2021	AES PAKGEN	72	0	20.7873					0:00	1:26	01:26	133	0.10	Bhikki	34	12.2653	1172	0.27	1.77	To avoid overloading of 02 No. 500/220 kV, 450 MVA Auto Transformers at Multan (858 A each) Recommended max. loading <= 1100 A To avoid overloading of 02 No. 500/220 kV, 600 MVA Auto Transformers at Mustafaghari (T-1: 1080 A, T-2: 1210 A)	System Constraints
47	31-Jul-2021	KEL	66	0	18.8045					8:15	23:59	15:44	81	1.28	Port Qasim	11	7.5831	1243	0.27	4.07		System Constraints
48	31-Jul-2021	ATLAS	56	0	16.7860					8:45	23:59	15:14	79	1.2	HBS	33	12.1759	1180	0.27	5.15		System Constraints
49	31-Jul-2021	Nisbat Chuglan	52	0	16.5558					0:00	23:59	23:59	66	1.591	Port Qasim	11	7.5831	1243	0.27	5.15	Recommended max. loading <= 640 A To avoid overloading of 220 kV LSKP-Ravi crt (500 A)	System Constraints
50	31-Jul-2021	Liberty Power Tech	50	60	16.2229					15:00	23:59	08:59	105	0.941	HBS	33	12.1759	1180	0.40	4.91		System Constraints
51	31-Jul-2021	Orient	39	120	15.0911					12:00	20:00	08:00	83	0.66	HBS	33	12.1759	1180	0.60	4.87		System Constraints
															Port Qasim	11	7.5831	1243	0.53	4.76	To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (685 A each)	System Constraints
															Bhikki	34	12.2653	1172	0.53	6.50		System Constraints
															HBS	33	12.1759	1180	0.51	6.45		System Constraints
															Port Qasim	11	7.5831	1243	0.51	2.70	To avoid overloading of 04 No. 500/220 kV, 450 MVA Auto Transformers at Gatti (1076 A each)	System Constraints
															Bhikki	34	12.2653	1172	0.31	3.41		System Constraints
															HBS	33	12.1759	1180	0.31	3.81		System Constraints
															Port Qasim	11	7.5831	1243	0.22	1.65	Recommended max. loading <= 1100 A To avoid overloading of 04 No. 220/132 kV, 160 MVA Auto Transformers at Sarfraznagar (900 A each)	System Constraints
															Bhikki	34	12.2653	1172	0.22	3.70		System Constraints
															HBS	33	12.1759	1180	0.22	2.66		System Constraints

Daily Report Sheet of Power Plants Operated out of Merit																						
Sr.No.	Date	Deviation Event	Merit Order #	Economic Dispatch Level	Generation Curtailed/Taken Off Bar				Generation Increased/Taken On Bar				Approx. Energy (GWh) (Power x Duration)	Plants Available as per Merit Order						Justification Details As per Grid Code SDC 1.4.3.3	Deviation Category	
				MW	Rate as per Merit Order Rs./kWh	HH:MM	HH:MM	HH:MM	MW	HH:MM	HH:MM	HH:MM		MW	Name	Merit Order #	Rate as per Merit Order Rs./kWh	Capacity (MW)	Energy Compensated (GWh)			Rs. MN
52	31-Jul-2021	Self	42	120	15.5339					9:00	19:00	10:00	78	0.78	Port Qasim	11	7.5831	1243	0.26	- 2.02	To avoid overloading of O3 No. 500/220 kV, 600 MVA Auto Transformers at Yousafwala (1210 A each)	System Constraints
															Falekhi	34	12.2653	1172	0.26	- 3.19		System Constraints
															HDS	33	12.1759	1180	0.26	- 3.17		System Constraints
53	31-Jul-2021	Sapphire	40	120	15.3160					9:00	17:00	8:00	35	0.65	Port Qasim	11	7.5831	1243	0.23	- 1.75	To avoid overloading of O4 No. 500/220 kV, 600 MVA Auto Transformers at Sheikhpura (1400 A each)	System Constraints
															Falekhi	34	12.2653	1172	0.23	- 2.77		System Constraints
															HDS	33	12.1759	1180	0.23	- 2.75		System Constraints
54	31-Jul-2021	Halmora	41	55	15.3161					14:00	17:00	3:00	51	0.154	Port Qasim	11	7.5831	1243	0.05	- 0.40	To avoid overloading of O4 No. 500/220 kV, 600 MVA Auto Transformers at Sheikhpura (1325 A each)	System Constraints
															Falekhi	34	12.2653	1172	0.05	- 0.63		System Constraints
															HDS	33	12.1759	1180	0.05	- 0.62		System Constraints
Total =																			47.555	938.21		
* Loading maintained to ensure N-1 contingency																						

\* Loading maintained to ensure N-1 contingency

Daily Report Sheet of Power Plants Operated out of Merit																			
Sr.No.	Date	Deviation Event	Merit Order #	Economic Dispatch Level	Generation Curtained/Taken Off Bar				Generation Increased/Taken On Bar				Approx Energy (GWH) (Power x Duration)	Plants Available as per Merit Order					Deviation Category
				MW	Rate as per Merit Order Rs./kWh	Start Time HH-MM	End Time HH-MM	Duration HH-MM	Avg. Power MW	Start Time HH-MM	End Time HH-MM	Duration HH-MM	Avg. Power MW	Name	Merit Order #	Rate as per Merit Order Rs./kWh	Capacity (MW)	Energy Compensated (GWH)	Rs. MLN

May-2021

Sr No	Power House connected to NTDC	NTDC Energy kWh			Net Energy to DISCOs	Total Plant Energy	CPPAG Energy Purchase Data Energy kWh			Difference	
		Received	Delivered	Net Energy to NTDC			Qualifying NEO (NTDC+DISCOs)	Sold to IPP	Net Energy	Difference	Remarks
1	Atlas Power TPS	138,239,024	76,812,720	61,426,304	0	61,426,304	61,554,300	128,812	61,425,488	816	As per Invoice of Power Plant
2	CCPP Balloki	404,502,200	61,300	404,440,900	0	404,440,900	404,501,900	61,300	404,440,600	300	As per Invoice of Power Plant
3	CCPP Bhikki	711,505,000	8,800	711,496,200	0	711,496,200	711,505,000	8,800	711,496,200	0	
4	CCPP Haveli Bahadur Shah	791,949,900	0	791,949,900	0	791,949,900	791,949,900	0	791,949,900	0	
5	Chashnup Mianwali TPS C1	112,500	4,525,000	-4,412,500	0	-4,412,500	112,500	4,525,000	-4,412,500	0	
6	Chashnup Mianwali TPS C2	160,465,000	3,113,000	157,352,000	0	157,352,000	160,465,000	3,113,000	157,352,000	0	
7	Chashnup Mianwali TPS C3	232,242,000	0	232,242,000	0	232,242,000	232,242,000	0	232,242,000	0	
8	Chashnup Mianwali TPS C4	232,749,000	0	232,749,000	0	232,749,000	232,749,000	0	232,749,000	0	
9	China HUB Power Gen	888,658,100	43,800	888,614,300	0	888,614,300	888,658,100	43,800	888,614,300	0	
10	Engro PowerGen Qadirpur TPS	73,642,092	9,680	73,632,412	0	73,632,412	73,485,391	9,680	73,475,711	156,701	As per Invoice of Power Plant
11	Engro PowerGen Thar TPS	441,718,000	112,900	441,605,100	0	441,605,100	441,718,000	112,900	441,605,100	0	
12	Foundation Power co TPS	112,624,379	904,417	111,719,962	0	111,719,962	110,839,688		110,839,688	860,274	As per Invoice of Power Plant
13	Ghazi Barotha HPS	741,731,000	47,829,000	693,902,000	278,640	694,180,640	694,180,640	0	694,180,640	0	
14	Guddu TPS (to NTDC 500 & 220kV)	229,699,000	64,037,000	165,662,000	29,889,900	195,551,900	195,551,900	0	195,551,900	0	
15	Guddu TPS (747 MW)	238,731,000	4,717,000	234,014,000	0	234,014,000	234,014,000	0	234,014,000	0	
16	HUBCO Karachi	440,187,000	431,394,000	8,793,000	0	8,793,000	9,431,800		9,431,800	-638,800	As per Invoice of Power Plant
17	Jamshoro TPS (to NTDC 500 & 220kV) + Kotri HESCO	22,758,000	1,216,000	21,542,000	-800,000	20,742,000	20,944,000	1,539,000	19,405,000	1,337,000	As per Invoice of Power Plant
18	K2 Nuclear	645,778,000	2,185,000	643,593,000	0	643,593,000	645,778,000	2,185,000	643,593,000	0	
19	K3 Nuclear	0	3,455,000	-3,455,000	0	-3,455,000	0	3,455,000	-3,455,000	0	
20	KAPCO TPS (to NTDC 500 & 220kV)	239,472,400	29,095,000	210,377,400	239,831,100	450,208,500	450,226,398	17,900	450,208,498	2	
21	Khawar HPS Projects (to NTDC 500 & 220kV)	196,547,000	0	196,547,000	5,614,700	202,161,700	203,108,775		203,108,775	-947,075	As per Jointly Signed Metering Data from CDPs
22	Lalpur Power TPS	98,120,000	443,100	97,676,900	0	97,676,900	98,120,000	443,100	97,676,900	0	
23	Mangla HPS (to NTDC 500 & 220kV)	278,831,000	42,578,000	236,253,000	244,196,000	480,449,000	480,449,000		480,449,000	0	
24	Muzaffar Garh TPS (GENCO III) (to NTDC 500 & 220kV)	666,004,166	639,211,000	26,793,166	19,643,000	46,436,166	46,436,166		46,436,166	0	
25	Neelum Jhelum HPP	707,032,800	0	707,032,800	0	707,032,800	707,032,800	0	707,032,800	0	
26	Pak Gen TPS	79,446,400	3,311,700	76,134,700	0	76,134,700	76,210,400	75,700	76,134,700	0	
27	Port Qasim Coal Power House	559,560,800	25,700	559,535,100	0	559,535,100	559,560,800	25,700	559,535,100	0	As per Invoice of Port Qasim
28	Roush TPS	194,926,000	98,144,000	96,782,000	0	96,782,000	97,024,813	320,902	96,703,911	78,089	Difference between Primary/Backup Data Logger & Primary CDP Meter
29	Sahiwal Coal (1320 MW)	757,444,500	28,409,400	729,035,100	0	729,035,100	729,035,100		729,035,100	0	
30	Tarbela HPS (to NTDC 500 & 220kV)	964,769,000	164,231,000	800,538,000	992,600	801,530,600	801,530,600	0	801,530,600	0	
31	Uch TPS 1	373,116,260	0	373,116,260	0	373,116,260	373,116,260	0	373,116,260	0	As per Invoice of Power Plant
32	Uch TPS 2	258,009,648	0	258,009,648	0	258,009,648	257,916,869	0	257,916,869	92,779	As per Invoice of Power Plant
TOTAL		11,880,571,169	1,645,873,517	10,234,697,652	539,645,940	10,774,343,592	10,789,469,100	16,065,594	10,773,403,506	940,086	

NTDC Import/Export kWh checked and found to be correct as per Metering Data.

Zaka Ullah  
Dy: Manager (IT) NTDC

Salah-ud-din  
IT Officer CPPA

Jun-2021

Sr No	Power House connected to NTDC	NTDC Energy kWh			Net Energy to DISCOs	Total Plant Energy	CPPAG Energy Purchase Data Energy kWh			Difference	
		Received	Delivered	Net Energy to NTDC			Qualifying NEO (NTDC+DISCOs)	Sold to IPP	Net Energy	Difference	Remarks
1	Atlas Power TPS	179,035,590	87,279,925	91,755,665	0	91,755,665	91,822,733	67,068	91,755,665	0	
2	CCPP Balloki	383,935,500	3,300	383,932,200	0	383,932,200	383,934,718	3,300	383,931,418	782	As per Invoice of Power Plant
3	CCPP Bhikki	676,589,800	8,700	676,581,100	0	676,581,100	676,589,800	8,700	676,581,100	0	
4	CCPP Haveli Bahadur Shah	729,145,200	0	729,145,200	0	729,145,200	729,145,200	0	729,145,200	0	
5	Chashnup Mianwali TPS C1	208,387,500	0	208,387,500	0	208,387,500	208,387,500	0	208,387,500	0	
6	Chashnup Mianwali TPS C2	221,259,000	0	221,259,000	0	221,259,000	221,259,000	0	221,259,000	0	
7	Chashnup Mianwali TPS C3	222,632,000	0	222,632,000	0	222,632,000	222,632,000	0	222,632,000	0	
8	Chashnup Mianwali TPS C4	224,364,000	0	224,364,000	0	224,364,000	224,364,000	0	224,364,000	0	
9	China HUB Power Gen	811,005,200	561,200	810,444,000	0	810,444,000	811,005,200	561,200	810,444,000	0	
10	Engro PowerGen Qadirpur TPS	77,609,254	0	77,609,254	0	77,609,254	77,436,054	0	77,436,054	173,200	As per Invoice of Power Plant
11	Engro PowerGen Thar TPS	352,949,200	1,982,200	350,967,000	0	350,967,000	352,949,200	1,982,200	350,967,000	0	
12	Foundation Power co TPS	111,470,935	206,390	111,264,545	0	111,264,545	110,811,132	0	110,811,132	453,413	As per Invoice of Power Plant
13	Ghazi Barotha HPS	1,068,671,000	359,077,000	709,594,000	412,724	710,006,724	710,006,724		710,006,724	0	
14	Guddu TPS (to NTDC 500 & 220kV)	159,047,000	54,942,000	104,105,000	30,915,000	135,020,000	135,020,000		135,020,000	0	
15	Guddu TPS (747 MW)	169,144,000	3,683,000	165,461,000	0	165,461,000	165,461,000		165,461,000	0	
16	HUBCO Kuachi	439,043,000	366,268,000	72,775,000	0	72,775,000	66,074,000		66,074,000	6,701,000	As per Invoice of Power Plant
17	Jamshoro TPS (to NTDC 500 & 220kV) + Kotri HESCO	41,484,000	830,000	40,654,000	-1,524,000	39,130,000	39,337,000	202,000	39,135,000	-5,000	
18	K2 Nuclear	741,414,000	0	741,414,000	0	741,414,000	741,414,000	0	741,414,000	0	
19	K3 Nuclear	0	3,677,000	-3,677,000	0	-3,677,000	0	3,859,000	-3,859,000	182,000	Import Energy is as per backfeed billing of CPPA
20	KAPCO TPS (to NTDC 500 & 220kV)	366,504,200	12,589,900	353,914,300	267,584,400	621,498,700	621,521,899	23,200	621,498,699	1	
21	Khawar HPS Projects (to NTDC 500 & 220kV)	164,460,000	0	164,460,000	6,310,100	170,770,100	170,750,660		170,750,660	19,440	As per Jointly Signed Metering Data from CDPs
22	Lalpir Power TPS	102,215,400	417,100	101,798,300	0	101,798,300	102,215,400	417,100	101,798,300	0	
23	Mangla HPS (to NTDC 500 & 220kV)	311,414,000	155,347,000	156,067,000	276,052,000	432,119,000	432,119,000		432,119,000	0	
24	Muzaffar Garh TPS (GENCO III) (to NTDC 500 & 220kV) + GTPS FSD	633,545,199	616,695,000	16,850,199	33,894,000	50,744,199	50,722,199		50,722,199	22,000	As per Invoice of GENCO-III
25	Neelum Jhelum HPP	695,911,500	0	695,911,500	0	695,911,500	695,911,500		695,911,500	0	
26	Pak Gen TPS	106,871,700	6,896,300	99,975,400	0	99,975,400	100,258,000	282,600	99,975,400	0	
27	Port Qasim Coal Power House	818,675,200	481,200	818,194,000	0	818,194,000	818,673,300	481,200	818,192,100	1,900	As per Invoice of Power Plant
28	Roush TPS	177,476,000	96,840,000	80,636,000	0	80,636,000	80,970,147	377,300	80,592,847	43,153	Difference between Primary/Backup Data Logger & Primary CDP Meter
29	Sahiwal Coal (1320 MW)	657,989,300	50,827,900	607,161,400	0	607,161,400	607,161,400	0	607,161,400	0	
30	Tarbela HPS (to NTDC 500 & 220kV)	1,731,416,000	84,552,000	1,646,864,000	1,133,500	1,647,997,500	1,647,997,500		1,647,997,500	0	
31	Uch TPS 1	351,325,000	0	351,325,000	0	351,325,000	351,325,000	0	351,325,000	0	
32	Uch TPS 2	241,238,844	0	241,238,844	0	241,238,844	241,092,282	0	241,092,282	146,562	As per Invoice of Power Plant
TOTAL		13,176,228,522	1,903,165,115	11,273,063,407	614,777,724	11,887,841,131	11,888,367,548	8,264,868	11,880,102,680	7,738,451	

NTDC Import/Export kWh checked and found to be correct as per Metering Data.

Zaka Ullah  
Dy: Manager (IT) NTDC

Salah-ud-din  
IT Officer CPPA



Payables to Power Producers/NTDC by DISCOs through CPPA-Circular Debt as on 30.06.2021					
(Prov		(Rs. in million)			
Sr. #	Type	Opening Balance on 01.06.2021	IPPs & etc.- Billing during 06/2021	Payments during 06/2021	Balance on 30.06.2021
1	GENCOs (OIL/GAS/RLNG/O&M)	1	2	3	4 = (1+2-3)
	G-I Jamshoro	3,059	783	2,350	1,492
	G-II Guddu	61,060	4,205	4,820	60,475
	G-III Muzaffargarh	1,598	3,549	5,124	22
	G-IV Lakhra	-	-	-	-
	Total: (GENCOs)	65,746	8,537	12,294	61,989
2	(IPPs)				
	HUBCO (RFO)	69,876	2,654	23,594	48,748
	KAPCO (GAS/RLNG & RFO)	108,566	4,290	42,628	70,228
	PAK GEN POWER (RFO)	16,694	1,271	8,355	9,610
	LALPIR POWER (RFO)	14,562	-	8,063	6,498
	KEL (RFO)	4,923	299	3,040	2,183
	SABA (RFO)	2,477	593	1,484	1,587
	TNB LIBERTY (GAS)	14,470	1,516	1,515	14,471
	UCH (GAS)	52,697	5,247	3,563	54,380
	ROUSCH (GAS/RLNG)	17,743	2,670	6,594	13,818
	FAUJI (GAS/RLNG)	5,411	1,415	2,204	4,623
	HABIBULLAH (GAS)	5,321	-	85	5,236
	ALTERN (GAS/RLNG)	321	-	35	286
	DAVIS ENERGEN (GAS/RLNG)	61	-	-	61
	S/Total:	312,923	19,965	101,160	231,729
	(IPPs)				
	AGL POWER (RFO)	11,058	211	1,785	9,484
	THE HUBCO NAROWAL (RFO)	19,099	611	1,985	17,724
	ATLAS POWER (RFO)	16,850	563	2,025	15,388
	NISHAT POWER (RFO)	16,117	511	2,040	14,588
	NISHAT CHUNIAN (RFO)	16,963	522	2,045	15,440
	LIBERTY TECH. (RFO)	20,891	710	2,140	19,461
	ORIENT POWER (GAS/RLNG/HSD)	9,027	1,592	2,005	6,614
	SAIF POWER (GAS/RLNG/HSD)	10,002	1,723	1,955	9,770
	SAPPHIRE ELECTRIC (GAS/RLNG/HSD)	9,176	1,578	2,005	8,749
	HALMORE POWER (GAS/RLNG/HSD)	10,491	1,159	1,420	10,230
	ENGRO POWER (GAS)	9,585	732	980	9,337
	FOUNDATION POWER (GAS)	13,585	1,206	1,215	13,566
	UCH-II (GAS)	38,556	3,129	1,605	40,380
	PEDO/SHYDO POWER (HYDEL)	1,038	137	110	1,065
	LARAIB ENERGY (HYDEL)	5,633	520	1,700	4,453
	FFC ENERGY (WIND)	3,427	289	1,542	2,174
	ZORLU ENERJI (WIND)	2,176	211	745	1,642
	JDW SUGAR MILLS-Unit-II (BAGASSE)	1,434	137	589	1,041
	JDW SUGAR MILLS-Unit-III (BAGASSE)	1,306	154	477	983
	THREE GORGES FIRST (WIND)	3,426	466	760	3,135
	FOUNDATION ENERGY-I (WIND)	3,627	319	785	3,161
	FOUNDATION ENERGY-II (WIND)	3,606	320	780	3,146
	RYK MILLS (BAGASSE)	1,064	133	244	963
	QUAID-E-AZAM (SOLAR)	3,718	385	735	3,368
	SAPPHIRE POWER (WIND)	1,557	194	190	1,562
	CHINIOT POWER (BAGASSE)	1,569	338	200	1,707
	APOLLO (SOLAR)	2,502	446	70	2,879
	BEST GREEN ENERGY (SOLAR)	2,176	456	1,185	1,447
	CREST ENERGY (SOLAR)	3,030	468	1,115	2,384
	YUNUS ENERGY (WIND)	3,434	215	910	2,738
	METRO POWER (WIND)	2,578	293	825	2,347
	TENAGA ENERGY (WIND)	2,399	186	520	2,065
	MASTER ENERGY (WIND)	2,139	203	155	2,188
	ACT (WIND)	1,672	153	622	1,203
	GUL AHMED (WIND)	3,128	225	535	2,818
	HAMZA SUGAR MILLS (BAGASSE)	546	14	92	468
	HYDRO CHINA (WIND)	2,356	197	75	2,479
	SACHAL ENERGY (WIND)	2,617	414	105	2,926
	QUAID-E-AZAM THERMAL POWER (RLNG)	30,620	15,232	11,425	34,430
	UEP POWER (WIND)	3,468	415	645	3,238
	HUANENG SHANDONG RUYI (COAL)	66,010	13,049	12,250	60,809
	NPPMCL HAVELI BAHADUR SHAH (RLNG)	34,726	10,433	8,425	36,734
	RESHMA POWER GENERATION (RFO)	6	-	5	0
	NPPMCL BALLOKI POWER (RLNG)	29,419	5,465	3,500	31,384
	HARAPPA (SOLAR)	177	71	88	159
	STAR HYDRO POWER (HYDEL)	5,250	431	2,690	2,992
	THAL INDUSTRIES CORPORATION (BAGASSE)	519	-	75	444
	AJ POWER (SOLAR)	66	37	60	43
	PORT QASIM ELECTRIC POWER (COAL)	55,187	8,908	11,900	53,095
	ARTISTIC ENERGY (WIND)	2,544	235	1,198	1,580
	HAWA ENERGY (WIND)	2,044	236	235	2,045
	JHIMPIR POWER (WIND)	2,109	206	280	2,035
	THREE GORGES SECOND (WIND)	1,502	241	230	1,512
	THREE GORGES THIRD (WIND)	1,597	251	255	1,593
	TRICON BOSTON CONSULTING (WIND) (A)	1,614	363	490	1,486
	TRICON BOSTON CONSULTING (WIND) (B)	1,169	335	490	1,034
	TRICON BOSTON CONSULTING (WIND) (C)	1,401	327	490	1,239
	ALMOIZ INDUSTRIES LIMITED (BAGASSE)	210	119	83	246
	CHANAR ENERGY LIMITED (BAGASSE)	215	-	33	191
	ZEPHYR POWER (WIND)	1,552	183	150	1,585
	ENGRO POWERGEN THAR (COAL)	30,070	6,635	7,725	28,980
	CHINA POWER HUB GENERATION (COAL)	35,775	11,578	9,825	37,530
	AZAD JAMMU & KASHMIR (JAGRAN) (HYDEL)	-	27	27	0
	PEHUR HPS-PEDO (HYDEL)	-	-	-	-
	NEELUM JHELMUM HYDROPOWER COMPANY	56,356	542	3,100	53,799
	MIRA POWER (HYDROPOWER)	1,420	3,508	2,077	2,851
	S/Total:	623,485	99,944	115,324	608,104
	Total: (IPPs)	623,485	119,909	216,484	839,833
	CHASHMA (Nuclear) Plant-1	14,065	863	1,519	13,409
	CHASHMA (Nuclear) Plant-2	23,432	1,939	1,190	24,180
	CHASHMA (Nuclear) Plant-3	30,496	2,775	1,520	31,752
	CHASHMA (Nuclear) Plant-4	25,703	2,829	1,835	30,697
	S/Total: (Nuclear)	97,697	8,406	6,064	100,039
	Total: (IPPs & Nuclear)	1,934,105	128,315	222,548	939,872
3	Others/WAPDA Hydel				
	NTDC *	3,317	3,000	4,000	8,317
	TAVANIR IRAN/QESCO (GST) B.R.A	8,960	622	1,355	8,228
	WAPDA Hydel	233,553	-	7,153	226,400
	ALLIED OFFICE (CPPA/PEPCO)	55	116	141	30
	Sukuk Escrow Account	-	3,374	3,374	-
	PHPL (Debt Service) (Markup)	5,633	-	5,633	-
	S/Total: (Others/WAPDA)	257,518	7,113	21,657	242,974
	Total:	1,357,369	143,965	256,499	1,244,835
	Payable to Fuel Suppliers by GENCOs (Annex-B)	100,685	4,630	-	105,314
	G/Total:-	1,458,054	148,594	256,499	1,350,149



# CPPA – Receivable Movement Report FY 2020-21 (Prov)

Sr.No	Customer Name	Opening Balance	Advices	Receipts	Dr / Cr Notes	Closing Balance
1	FAISALABAD ELECTRIC SUPPLY COMPANY	142,791,076,870	26,251,023,689	20,002,809,509	(18,368,559,572)	130,670,731,478
2	GUJRANWALA ELECTRIC POWER COMPANY	53,621,078,202	18,922,997,405	15,065,945,534	(11,953,615,643)	45,524,514,436
3	HYDERABAD ELECTRIC SUPPLY COMPANY	373,927,976,830	11,117,847,523	3,260,503,120	(4,852,378,058)	376,932,943,175
4	ISLAMABAD ELECTRIC SUPPLY COMPANY	153,764,038,306	20,655,981,682	19,292,423,451	(22,667,226,052)	132,460,370,485
5	KARACHI ELECTRIC SUPPLY COMPANY	283,804,604,022	13,664,215,820	3,193,476,756	(2,160,621,731)	292,114,721,355
6	LAHORE ELECTRIC SUPPLY COMPANY	283,319,595,719	42,527,755,598	32,267,597,070	(13,268,247,813)	280,311,506,434
7	MULTAN ELECTRIC POWER COMPANY	222,303,862,235	33,681,181,778	27,067,736,504	(19,707,358,939)	209,209,948,570
8	PESHAWAR ELECTRIC SUPPLY COMPANY	525,103,080,518	26,309,009,875	14,163,254,267	(16,916,976,689)	520,331,859,437
9	QUETTA ELECTRIC SUPPLY COMPANY	511,333,720,196	11,744,258,072	4,967,916,914	(1,855,679,039)	516,254,382,315
10	SUKKUR ELECTRIC POWER COMPANY	328,544,592,062	8,095,095,312	1,703,491,224	(2,375,242,545)	332,560,953,605
11	TRIBAL AREAS ELECTRIC SUPPLY COMPANY	31,781,420,743	2,474,201,647	165,770,069	(554,889,157)	33,534,963,164
Grand Total:		2,910,295,045,703	215,443,568,401	141,150,924,418	(114,680,795,238)	2,869,906,894,448
Equity Adjustment		241,106,495,000				241,106,495,000
Net Receivables		2,669,188,550,703				2,628,800,399,448

## Terms and Conditions of MO Authorization –

### CPPA-G Compliance

V. General Obligations	
<p>5.1 During the term of this registration, the CPPA-G shall:</p> <p>(i) Perform the market operator functions reliably, transparently, objectively and independently and in a non-discriminatory and unbiased manner;</p>	<p>MO authorization warrants CPPA to carry out market operator functions reliably, transparently, objectively and in a non-discriminatory manner. In this regard, it is pertinent to highlight that under the current regime of single-buyer market, CPPA is efficiently performing its functions both as an agency as well as the operator of the single-buyer market as mandated by the regulator in the MO authorization.</p>
<p>(ii) Carry out all works related to the market operator functions, including but not limited to:</p>	
<p>(a) Preparation of a model for competitive market operations that encompasses both sale of power at wholesale and sale of power at retail and submit the same for the approval of the Authority;</p>	<p>Followed by the approval of the Hi-Level Conceptual Design of CTBCM by NEPRA in December 2019, CPPA prepared the Detailed Design and Implementation Roadmap of CTBCM as per the given mandate. The Detailed Design also includes the aspect of Market Evolution which entails the gradual transition to retail market. The Detailed Design and Plan of CTBCM has been approved by NEPRA in November 2020 and the implementation of the same is in progress to achieve the targeted Commercial Operation Date of April 2022.</p>
<p>(b) Developing, administering and enforcing the Commercial Code;</p>	<p>The CTBCM regime will have two Commercial Codes. One for the Market Operator and other for the Special Purpose Trader. The drafting of the new Commercial Codes is in progress as per the timelines and the new Codes will be submitted for regulatory approval along with the Licensing and Registration Applications for MO and SPT.</p>
<p>(c) In the case of bilateral contracts between multiple buyers and sellers, settlement of imbalances;</p>	<p>The approved CTBCM model is essentially a bilateral market with balancing mechanisms, therefore all the principles based on which the market operations including settlement of imbalances will be carried out are fully consistent with this obligation.</p>
<p>(d) Development of commercial</p>	<p>In the wake of separation of the MO and agency function as directed by the Authority,</p>

standard operating procedures;	a thorough organizational restructuring of the organization is in progress. This also includes business process reengineering with respect to the MO functions. Under this activity, comprehensive process manuals entailing the standard operating procedures of the business functions are being developed. This activity will be followed by the automation of the same processes and functions.
(e) Procurement of power on behalf of DISCOs during the Single Buyer Phase and Single Buyer Plus Phase; and	Given the fact that DISCOs will directly enter into bilateral contracts with the generators for procurement of power, the agency function is proposed to cease once the CTBCM starts. Though, special attention has been given to the implementation process to ensure that not only there will not be interference with the pre-CTBCM business, and the transition take place smoothly.
(f) Cash flow management, treasury management and other relevant functions for the purposes of collection and disbursement as per the Commercial Code;	CPPA-G currently in its role of Agent is performing these functions in light of the prevailing Commercial Code.
(iii) Not discriminate between market participants, whether prospective or incumbent and whether sponsored privately or by the Federation or Provincial Governments of Pakistan;	Governance, SOPs, systems, reporting, etc are aimed to guarantee that the new power market in Pakistan is fully compliant with this obligation.
(iv) Employ a sufficient number of qualified personnel to ensure that its activities are conducted effectively, efficiently, reliably and prudently;	For the last 5 years, CPPA G has been actively working in developing its human capital, consistently with the objectives for the pre-CTBCM and post-CTBCM regimes. HR development is one of the important aspect of the overall restructuring plan. Capacity building is another pillar for the new market development. This is the reason, the CPPA-G for the last few years is not investing heavily on its own organizational capacity building but also focusing on the training, strengthening and capacity building of the implementing power sector entities.
(v) Ensure that it possesses the technical and financial capability, material and human resources, and organizational structure, to perform its activities effectively, efficiently, reliably and prudently;	Same comments as the previous one.
(vi) Pay applicable fees;	Noted.

(vii) Not engage in any activity that may disrupt or interfere with the promotion of competition in the market;	The governance structure proposed for the CPPA G successor entities once the CTBCM starts, guarantee the full compliance of this obligation.
(viii) While performing its activities relating to competitive market operations, not engage in any activity that can impair its functioning as an independent and impartial market operator;	The market operator function will be a fully regulated one and will be governed through codes and regulations issued by NEPRA. Besides the governance structure of MO guarantees that due to confrontation of conflictive interests a natural balance should lead all the process related to transparency, independency, impartiality, etc.
(ix) Furnish to the Authority such information, documentation or data, and in such manner and time, as the Authority may require from time to time;	Is and will be complied with as and when require.
(x) Submit progress reports to the Authority on the status of activities being undertaken and, where required by the Authority and applicable law, publish the required reports in the appropriate manner;	As mandated by the Authority in its CTBCM approval determination, CPPA-G has been submitting the Progress Reports on CTBCM on quarterly basis. The last report for the period ending June 2021 was submitted in July 2021. The next report for the period ending September 2021 will be due submission in October 2021 and will be submitted accordingly.
(xi) Comply at all times with the directions and determinations made by the Authority;	Is and will be complied with as and when require.
(xii) Comply with the Act, rules and regulations made in pursuance of the Act, applicable documents, the Commercial Code and the terms and conditions of this registration; and	Is and will be complied with as and when require.
(xiii) Submit compliance reports in accordance with Article 12.2;	This document is a form of Compliance Report in line with Article 12.2.
<b>VI. Technical Obligations</b>	
6.1 During the term of this registration, the CPPA-G shall:	
(i) Facilitate the National Grid Company/System Operator in performance of its functions in accordance with law;	For the last few years, there has been an intense cooperation ambience between NTDC/NPCC and the CPPA G. This is indispensable for a sound performance of the market. This cooperation has taken place in several disciplines, including of personnel secondment, capacity building, provision of tools, systems deployment, software development etc.

(ii) Ensure that it organizes and develops the model for competitive market operations in consultation with the relevant stakeholders;	The CTBCM Detailed Design and Plan prepared by CPPA-G in light of Authority's direction was prepared after extensive consultation with the relevant stakeholders. Details of the stakeholder consultation sessions along with the discussion/notes of the same are annexed with the Detailed Design and Implementation Roadmap reports submitted to the Authority in Feb 2020 for approval.
(iii) Establish an efficient system of collecting, organizing and processing data sent by the National Grid Company/System Operator;	The CPPA G has implemented a web-based IT system titled Central Data Exchange Portal (CDXP). One of its modules entails precisely the automated exchange and processing of information with the NPCC, through web based data portal. The system is live and well-functioning.
(i) Implement the Market Rules; and	The CTBCM model and implementation plan approved by the Authority are fully compliant with the Market Rules.
(ii) Keep records of contracts and contractual obligations with the Market Rules, the Commercial Code, the terms and conditions of this registration and the directions of the Authority issued from time to time;	This is part of the SOP that will be part of the functioning of the MO, in a transparent manner and clear accountability. The MO also will perform the role of Contract Registrar, what will be a essential part of the CTBCM to ensure the formalities necessary for running the commercial aspects of the market.
<b>VII. Commercial Obligations</b>	
7.1 During the term of this registration, the CPPA-G shall:	
(i) Establish processes ensuring adherence of market participants to the Market Rules and to the Commercial Code;	The participation in the CTBCM for both, market participants and service providers, will require registrations with the Market Operator. The Service Providers will sign a Service Provider Participation Agreement (SPA) and the Market Participants will sign a Market Participation Agreement (MPA) with the MO. The SOPs for the same are being developed during the market implementation phase. This will be followed by automation of the same for carrying our market operations in adherence to the governance and regulatory structure.
(ii) Manage the processes of financial settlement of energy sale transactions in accordance with the Commercial Code;	The Commercial Code is being adjusted to respond to the new trading mechanisms under implementation, for both bilateral contracts and balancing mechanisms (not only for sale but also for buying energy).
(iii) Keep or cause to be kept separate accounts for the distinct market operator functions;	This will be done after the separation of MO and SPT functions before the launch of CTBCM.

(iv) Provide data to the Authority, as and when directed, relating to the generated and/or sold quantities of electricity as well as the amounts paid under power purchase contracts;	To be complied with when directed by the Authority.
(v) Provide information to the Authority, as and when directed, relating to executed power purchase contracts; and	To be complied with when directed by the Authority.
(vi) Submit to the Authority, as and when directed, correct and reliable information regarding prices, number of market participants, percentages of market share, forecasted prices and statistics;	A comprehensive report on Integrated Electricity Market Simulation Model (IEMSM) has been submitted to the Authority in Feb 2020 along with the submission of CTBCM Detailed Design and Roadmap. This report presents a detailed overview of the market projections and statistics including pricing.
<b>VIII. Procurement of Power on Behalf of Distribution Companies</b>	
8.1 Within a time period not exceeding one (01) month from the Date of Registration, the CPPA-G shall submit a comprehensive plan to the Authority for novation of power purchase contracts executed between the NTDC and an IPP or assigned/novated under the transmission licence of NTDC dated 2002;	Legal department under took the novation plan intendem with GoP initiated through which contractual arrangement modified.
8.2 Before the commencement of competitive market operations as prescribed in the Market Rules, the CPPA-G shall execute power purchase contracts in an objective, non-discriminatory and unbiased manner and at the price and rates, and on the terms and conditions, determined by the Authority;	Execution of PPAs/EPAs by CPPA-G in its Agency function is in accordance with the policy, legal and regulatory framework.
8.3 The CPPA-G shall undertake procurement of power on behalf of DISCOs in accordance with this registration, the Act, the rules and regulations made there under, and the determinations, directions and orders of the Authority;	Procurement of power done by CPPA-G in its Agency function is in accordance with the policy, legal and regulatory framework.
8.4 The terms and conditions of any power purchase contract to be executed by the	Execution of PPAs/EPAs by CPPA-G in its Agency function is in accordance with the policy, legal and regulatory framework.

CPPA-G shall be in conformity with the Commercial Code;	
8.5 The foregoing terms and conditions shall be applicable to all power purchase contracts to be executed after the Date of Registration;	Noted.
<p><b>IX. Procurement of Power by Distribution Companies</b></p> <p>9.1 Within a time period not exceeding three (03) months from the Date of Registration, the CPPA-G shall submit a comprehensive plan to the Authority, for its approval, for the implementation of the Single Buyer Plus Phase, along with to the Commercial Code to cater for the Single Buyer Plus Phase including but not limited to provisions relating to the following:</p> <p>(i) Settlement of imbalances in the case of bilateral contracts;</p> <p>(ii) Development of commercial standard operating procedures;</p> <p>(iii) Establishment of escrow accounts by DISCOs; and</p> <p>(iv) Reporting standards and requirements;</p>	<p>The plan on the implementation of Single Buyer Phase has been submitted to NEPRA along with the Commercial Code in May 2019 in compliance to this direction.</p>
<p><b>X. Development of Competitive Energy Market Frameworks</b></p> <p>10.1 Before the commencement of competitive market operation as prescribed in the Market Rules, the CPPA-G shall remove any conflicts of interest that may impact its functioning as an independent and impartial Market Operator, including but not limited to segregation, bifurcation or removal of its power procurement and agency functions from other market operator functions;</p>	<p>In light of this direction from the Authority, the approved CTBCM Design envisages bifurcation of CPPA in to separate and independent MO and agency functions to remove the conflict of interest. The approved CTBCM Plan also enlist a dedicated action for the CPPA-G under which the company is undergoing an organizational restructuring which will conclude with the functional and legal separation of the MO and SPT before the commencement of CTBCM.</p>

<p>10.2 Before the commencement of competitive market operation as prescribed in the Market Rules, the CPPA-G shall cease participation in any activity or function that may, directly or indirectly, compromise its objectivity, effectiveness, independence or impartiality as the Market Operator;</p>	<p>The restructuring measures, the governance scheme and the regulated activities will ensure that this obligation is met. These are also fully embedded in the design of the CTBCM.</p>
<p>10.3 Within a time period not exceeding three (03) months from the Date of Registration, the CPPA-G shall submit a comprehensive plan to the Authority, for its approval, for the implementation of competitive market operations which shall include the following:</p>	<p>The CTBCM Hi-Level Design submitted to NEPRA in March 2018 comprised all the requirements listed under point i – ii with exception of the plan for retail market.</p>
<p>(i) A proposal for rationalization of power purchase contract tenures and a cut-off date after which the CPPA-G shall cease execution of long-term power purchase contracts, other than those executed for maintenance of required load/demand; and</p>	<p>Therefore, in compliance to this direction of the Authority to submit a plan regarding sale of power at retail level, CPPA-G submitted to NEPRA the concept paper on the retail market in April 2019.</p>
<p>(ii) Preparation of the model for competitive market operations by the CPPA-G to encompass the following:</p> <p>(a) Sale of power at wholesale and sale of power at retail, including but not limited to the development of a trading platform;</p>	
<p>(b) Product development and evolution of market, including but not limited to development of frameworks for execution and trading of day-ahead spot contracts, base load contracts, peak load contracts, intraday spot contracts, physical forward contracts, futures and options;</p>	
<p>(c) Restructuring of the CPPA-G to ensure objective, effective, independent and impartial execution of its market operator functions; and</p>	
<p>(d) Conformity with the scheme,</p>	



	framework, terminology, nomenclature and principles prescribed by the Act, as amended from time to time;	
10.4	Within a time period not exceeding three (03) months from the approval of the plan to be submitted under Article-10.3, the CPPA-G shall submit to the Authority for its approval adequate amendments to the Commercial Code for administering competitive market operations and shall include provisions catering for the features of the competitive market operations model outlined in Article-10.3(ii) above;	The CTBCM regime will have two Commercial Codes. One for the Market Operator and other for the Special Purpose Trader. The drafting of the new Commercial Codes is in progress as per the timelines and the new Codes will be submitted for regulatory approval along with the Licensing and Registration Applications for MO and SPT.
10.5	The CPPA-G shall ensure that the Commercial Code, or any amendment thereto, does not conflict or is inconsistent with the provisions of the Act, the rules and regulations made there under, or the Market Rules (as may be amended from time to time);	The new Commercial Codes currently under development ensures conformity to this obligation.
10.6	The CPPA-G shall ensure that it maintains adequate facilities and sufficient financial capacity, and complies with the capital adequacy requirements, as may be directed by the Authority from time to time to ensure efficient performance of the market operator functions and provision of services under the competitive market operations model as approved, and amended, by the Authority from time to time;	During the CTBCM implementation phase, CPPA-G is working on its readiness to act in the capacity of independent Market Operator of the competitive wholesale market of future. During this period, CPPA-G is investing heavily on its adequacy requirement in terms of human resources, technical and IT infrastructure so as to enable it offer seamless services as an MO to the market participants.
10.7	Within a time period not exceeding three (03) months from the Date of Registration, the CPPA-G shall comply with applicable corporate governance laws;	CPPA-G is fully compliant with the corporate governance laws.
<b>XI. Codes and Standards</b>		
11.1	In performing the market operator functions, the CPPA-G shall comply with all applicable codes, guidelines, directions and standards	Is and will be complied with as and when require.

issued by the Authority from time to time;	
<b>XII. Compliance</b>	
12.1 This registration is granted subject to compliance and fulfillment of the terms and conditions contained herein;	Noted.
12.2 The CPPA-G shall provide to the Authority, for its review, yearly reports relating to compliance with the terms and conditions of this registration;	Noted.
<b>XIII. Fines and Penalties</b>	
<p>13.1 Without prejudice and in addition to the powers of the Authority under the Act, and rules and regulations made there under, where the Authority determines that the CPPA-G is in violation of any applicable law or the terms and conditions of this registration, the Authority may:</p> <ul style="list-style-type: none"> <li>(i) Investigate the violation as per Section-27A of the Act;</li> <li>(ii) Order the CPPA-G to: <ul style="list-style-type: none"> <li>(a) Cease a specific activity; or</li> <li>(b) Direct its external auditor to report directly to the Authority;</li> </ul> </li> <li>(iii) Appoint and engage an external auditor to review the operations and compliance of CPPA-G with applicable law and this registration;</li> <li>(iv) Appoint an administrator to take over the operation of the market operator for such time or until such event as the Authority may approve; or</li> <li>(v) Increase the reporting requirements of CPPA-G on any matter related to its technical and financial performance or related to service quality;</li> </ul>	Noted.
13.2 Any contravention or non-compliance on part	

<p>of the CPPA-G or any of its officers with respect to this registration, or the conditions and time limits prescribed herein, shall constitute grounds for penal action by the Authority;</p> <p>13.3 Any instrument, document, contract or agreement, or any part thereof, may be declared void if executed in contravention or non compliance of this registration, the provisions of the Act, the rules and regulations made there under, or the Commercial Code (as amended and approved by the Authority from time to time);</p>	
<p><b>XIV. Settlement of Disputes</b></p> <p>14.1 Any dispute arising out of or in relation to this registration or the activities performed by the CPPA-G in pursuance of this registration or the Market Rules shall be referred to the Authority for decision;</p> <p>14.2 In case of a dispute relating to Article 8.2 of this registration, including but not limited to a dispute relating to contractual terms, rates and prices, non-price terms or undue delay or refusal on part of the CPPA-G in execution of contract, the matter shall be referred to the Authority for decision and shall mutatis mutandis be dealt with in accordance with the National Electric Power Regulatory Authority Complaint Handling and Dispute Resolution (Procedure) Rules, 2015;</p>	<p>Noted.</p>



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Annex - H

## LIST OF COURT CASES

S. #	Case No. & Title	Forum/Court	Brief of Court Cases	Progress/Date of hearing	Lawyer Engaged
1.	CPLA No. 1938/16 Title: Nishat Chunian vs FOP	Supreme Court of Pakistan	NEPRA ordered IPP to pay PKR. 2,34,702 million/- The IPP has challenged the decision before the Supreme Court.	Last date:26-08-2021 Date in office Pending for arguments.	Mr.Sheikh Muhammad Ali
2.	CPLA No. 1939/16 Title: Nishat Power vs FOP				
3.	CPLA No. 1940/2016 Title: Liberty Power vs FOP		NEPRA ordered the IPP to pay PKR 1,57,454/- million. The IPP has challenged the decision before the Supreme Court		
4.	Suit. 2127/2018 Title: Transatlantic vs Province of Sindh	Sindh High Court	The primary respondent is the Province of Sindh.  The Petitioners allege that due to a claimed delay on the part of CPPA to issue a certificate of power purchase, the site lease issued by the GoS was cancelled. The Petitioners have sought a stay order preventing the cancellation of the site lease and a court order directing CPPA and AEDB to issue the said certificate.	Noncritical. CPPA contends that no vastitude of right has been created.  Last Date:17.08.2021 28.10.2021	Barrister Anas Makhdoom
Cases related to WWF					
5.	Const. P.(D) 3871/2018 Title: Foundation Power Co.	Sindh High Court	Principal dispute pertains to Workers Welfare Fund (WWF). Constitutional petitions touching upon the uncertainty after the 18 <sup>th</sup> amendment and the clarity sought after Supreme Court decision in the matter of WWF.	Last date:12-08-2021	Barrister Anas Makhdoom



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	Daharki Ltd. vs. FOP & Others				
6.	W.P. 3983/2017 Title: FPCDL vs FOP and others	Islamabad High Court	Principal dispute pertains to release of Workers Welfare Fund (WWF) as per 18 <sup>th</sup> amendment. Constitutional petitions touching upon the uncertainty after the 18 <sup>th</sup> amendment is pending before the Supreme Court, therefore the case is sine die adjourned.	Sine die due to matter pending at SC.	Barrister Ejaz Ishaq
<b>Bagasse/Biomass</b>					
7.	W.P. 704/2018 Title: Sadiqabad Power Pvt. Ltd. & Others vs FOP & Others	Islamabad High Court	The petition is filed on behalf of 23 petitioners 12 bagasse/biomass projects along with their directors as co-petitioners. The petitioners are aggrieved with the inaction of CPPA with respect to NEPRA Upfront Tariff Decision for Petitioner Projects, the letter dated 25 May 2017 sent by CPPA based on the CCE decision which result in rendering the Petitioner's Projects, as it is contended, financially unviable. The above referenced CCE decision states that the only projects with which the IA or PPA have been signed already and that all future projects will come through the process of competitive bidding. The petitioner asserts that an exception has been created for Trimmu RLNG and Zorlu Solar and thus the decision and actions of the Respondents are discriminatory and unlawful.	Last date:14-04-2021. Date in office	Barrister Munawar Salam
8.	W.P. 2994-2018 Title :Shahtaj Sugar Mills Ltd. vs FOP etc.	Islamabad High Court	Petitioner Seeks: Directions to execute the EPA, IA & Sovereign Guarantee. Declaration that policy Decisions made by the Federal Government from time to time, including the decision dated 27.02.2019 as ratified by the Federal Government are unconstitutional.	Last date:15-07-2021 Next date: 20-09-2021	Barrister Ahmed Pervaiz
9.	W.P. 2862/2018				



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	Title :Kashmir Power PVT. Ltd vs FOP etc.				
10.	W.P. 2868/2018 Title: Ittefaq Power Ltd vs FOP etc.				
11.	W.P. 3603/2018 Indus Energy Ltd. vs FOP etc.				
12.	W.P. 558/2018 Title: Bahawalpur Energy Ltd Vs. FOP. Etc.		Petitioner seeking direction for implementation of letter of intent regarding the 2006 Policy for Development of Renewable Energy Generation.		
13.	W.P. 267/2018 Title: Hunza Power Ltd Vs. FOP etc		Petitioner Seeks direction for direction for Implementation of electricity Purchase agreement.		
NEPRA Cases					

Barrister  
Munawar  
Salam



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14.	W.P. 1571/2018 Title : CPPA Vs. NEPRA & Others	Islamabad High Court	Principal dispute of extending defunct upfront tariff of 2013. CPPA has Challenged NEPRA for allowing 12 bagasse projects to avail and opt for superseded tariff by the 2017 Upfront Tariff. The applicable levelized tariff under 2013 tariff is Rs.10.4078/kWh, whereas the levelized tariff applicable under 2017 Tariff Rs. 7.9741/kWh. As a consequence, Rs.2.4337/kWh shall be paid by the Petitioner to the Respondents, in excess of the rate notified by the Federal Government vide the Upfront tariff of 2017 dated 22.01.2018 and would result in total loss of a minimum of Rs.190 billion over the term.'	Last Date:14.04.2021 Date in office	Barrister Munawar Salam
15.	W.P. 3681/2018 Title: CPPA vs NEPRA & others	Islamabad High Court	NEPRA has issued a SCN to CPPA dated August 17, 2018 alleging non-fulfillment of obligations as Market Operator in which different observations were raised against CPPA which included inter-alia denial by CPPA to procure power by qualified power producers without legal justification. Several IPPs in Khyber-Pakhtoonkhwa have been issued tariff which is notified in Gazette by the Federal Government yet CPPA did not execute PPA with them. CPPA submits that negotiations are taking place between the PEDO Projects, and that there is no policy in field on the basis of which an EPA can be executed with the future renewable projects.	Last date:20.12.2018. Date in office	Barrister Munawar Salam
16.	W.P. 2809/2018 Title : CPPA vs NEPRA etc.	Islamabad High Court	CPPA impugns the SCN dated 11.01.2018 issued by NEPRA calling the Market Operator as to why its registration should not be cancelled and why a fine of PKR 100 million should not be imposed on CPPA. The CPPA submits that the impugned SCN was issued in transgression of procedure prescribed in Rule 4 of NEPRA (Fines) Rules, 2002 as the petitioner was not given the opportunity to admit or deny the occurrence of violation of provisions of the Rule 4(2).		
17.	W.P. 3046/2018 HNDS Energy	Islamabad High Court	Petitioners seek direction to set aside the CCE decision dated 12.12.2017 (wherein the CCE decided <i>inter alia</i> that: 'Only those projects shall be implemented out of the current list where either IA or EPA has been signed already'; 'All projects based on wind,	Last date:30.04.2019. Date in office.	Barrister Munawar Salam



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	Pvt.Ltd etc. vs FOP etc.		solar, small hydel and bagasse energy will be awarded through competitive bidding.'; 'All contracts arising out of competitive bidding should be for a term of 15 years) and Cabinet committee memorandum dated 03.01.2018]		
18.	W.P. 2450/2018 Title: CPPA vs NEPRA (4 bagasse)	Islamabad High Court	<p>The CPPA is aggrieved by the NEPRA's decision dated 06.06.2018 bearing no. NEPRA/SAT-I/TRF-UTB-2013/8918 (the "Impugned Order") is in violation of express, binding and mandatory provision of MO Rules, NEPRA Act, and settled principles of law, as enunciated by the Superior Courts of Pakistan. The aforementioned decision of NEPRA would have a substantial impact on the rights and liabilities of the Petitioner, and particularly, a loss of Rs. 3.3 Billion approximately to the national power sector and ultimately the end consumer. The Petitioner, despite the lapse of 4 months, was not provided any notice of hearing nor provided any opportunity to make oral submissions before NEPRA in this respect.</p> <p>[Petitioner Challenged the order dated 06.06.2018 passed by NEPRA whereby petitioner's electricity procurement reference is decided against the Petitioner.]</p>	Last date: 14.04.2021 Date in office	Barrister Munawar Salam
19.	W.P. 655/2018 Title: CPPA Vs. NEPRA (small hydel)	Islamabad High Court	The CPPA is aggrieved by the NEPRA's decision to issue the Extended Upfront Tariff and to reject the Rehearing Request in terms of the Rehearing Rejection, without giving the CPPA an opportunity to be heard as required by NEPRA under Regulation 3(2) of 2011 Regulations as well as Regulation 3 of 2009 Regulations. It is contended that NEPRA unilaterally Extended Upfront Tariff and re-determined the Reviewed Tariff Expiry Date, without seeking input of CPPA and without holding a public hearing.	Last date:20-04-2021 Date in office	Barrister Munawar Salam
20.	W.P. 2929/2018 Title: CPPA vs	Islamabad High Court	CPPA has Challenged the NEPRA determination dated 12.07.2018 in the Islamabad High Court.	Last date:06.12.2018. Date in office	Barrister Munawar Salam





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	NEPRA & another				
21.	W.P. 1365/2017 Title: CPPA vs NEPRA etc.	Islamabad High Court	NEPRA has ordered to reimburse the LDs imposed on FFC amounting US\$0.447 million, therefore the petition is filed to set aside the said order.	Last date 23.05.2019. Date in office	Sheikh Muhammad Ali
22.	W.P. 1804/2016 Title: CTGI-WK Cholistan Solar Power Project vs NEPRA etc.	Islamabad High Court	<p>Principal dispute arising out of non-issuance of Power Acquisition Request (PAR) or non-execution of the PPA/EPA by CPPA owing to the CCE decision which mandates application of reverse bidding. CPPA is of the considered opinion that mere LOI or LOS, in the absence of a validly executed contract, does not accrue any vested rights in favor of the IPPs. Unjustified enrichment contrary to the public interest and processing in contravention to CCE decision lacking codal formalities such as absence of notified tariff provide for impasse in processing. It must be noted that, <i>vide</i> its letter no.IPPs-6(10)/2017-C dated 05.01.2018 the Ministry of Energy intimated the decision of the Cabinet Committee on Energy ("CCE") in case no.CCE-41/10/2017 dated 12.12.2017 ("CCE Decision") wherein the CCE decided <i>inter alia</i> that: 'Only those projects shall be implemented out of the current list where either IA or EPA has been signed already'; 'All projects based on wind, solar, small hydel and bagasse energy will be awarded through competitive bidding.'; 'All contracts arising out of competitive bidding should be for a term of 15 years'.</p> <p>[Petitioner challenged the letters of NEPRA]</p>	Last date: 07.02.2019 Date in office	Barrister Munawar Salam
23.	ICA 352/2017 Title: CPPA vs Access Pvt. Ltd. etc.	Islamabad High Court	Intra Court Appels were filed by CPPA against order passed in writ petition filed by Access Electric, wherein IHC remanded the matter to NEPRA for re-determination on tariff.	Last date: 29.01.2019 Date in office	Barrister Munawar Salam



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24.	ICA 353/2017 Title: CPPA vs Access Solar Pvt. Ltd etc				
25.	I.C.A 521/2018 Title: Trident GB vs M/o Energy	Islamabad High Court	Intra Court Appeal in Writ Petition 21 of 2018 seeking directions for LOS from PPDB & PPIB.	Last date: 12.03.2019 Date in office	Barrister Munawar us Salam
26.	W.P. 1298/2019 Title : JDW Sugar Mills Ltd. vs FOP etc	Islamabad High Court	The Company has challenged/impugned the notices of CPPA regarding deductions made pursuant to the Tariff Determination of NEPRA.	Last date: 14.04.2021 Date in office	Barrister Munawar us Salam
27.	W.P No. 2008/2019 titled: Norinco International Thatta Power Limited vs.FOP etc.	Islamabad High Court	The Company/Norinco has challenged the impugned decision dated 27.2.19 and 12.12.17 regarding extension in validity period of letter of intent by submitting extended bank guarantee.	Last date: 18.03.2020 Date in office	Barrister Munawar us Salam
<b>Wheeling Cases</b>					
28.	W.P. 1592/2020 IESCO vs. NEPRA	Islamabad High Court	Petitioners seek direction to set aside the impugned determination of NEPRA regarding respective LPM relating to wheeling of energy.	Decided on : 08-07- 2021	Representation made by DAG office.
29.	W.P 1605/2020 HESCO vs. NEPRA				



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30.	W.P 25814/2020 Title: NTDC vs. NEPRA	Lahore High Court			Last date: 14.06.2020 Date in office	
31.	W.P No. 25925/2020 Title: LESCO Vs. NEPRA					
32.	W.P.No.26544/ 2020 FESCO vs. NEPRA					
33.	W.P No.28404/2020 GEPCO vs. NEPRA					
34.	W.P No.568/2021 IESCO vs. NEPRA	Islamabad High Court	Petitioners impugned determination of NEPRA regarding cost of Wheeling and Challenge vires of NEPRA (wheeling of electric power) regulations 2016.		Pending for order. Last date : 15.07.21 Date in office.	Barrister Sohaib Sheikh
35.	W.P No.569/2021 SEPCO vs. NEPRA					
36.	W.P No.570/2021 MEPCO vs. NEPRA					
37.	W.P No.571/2021 HESCO vs. NEPRA					
38.	W.P No.572/2021					



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	GEPCO vs. NEPRA				
39.	W.P No.623/2021 FESCO vs. NEPRA				Barrister Rehan Seerat
40.	W.P No.624/2021 LESCO vs. NEPRA				
41.	W.P No.625/2021 PESCO vs. NEPRA				
42.	W.P No.626/2021 QESCO vs. NEPRA				
Tax Cases					
43.	W.P. 257691/2018 Title: CPPA vs. FBR	Lahore High Court	The tax authorities have issued a notice amounting Rs. 5,566,561,102 on account of Turnover Tax and Super Tax for 2016-17 under section 113 of the Income Tax Ordinance, 2001 against which a writ petition has been filed in Lahore High Court and the same notice has been suspended till the next date; 14.02.2019. The CPPA has already discharged tax liability for the year 2017 through filing income tax return 2017.	Critical Last Date: 26-05-2021 Date in office	Barrister Munawar us Salam
44.	W.P Tax ref No.249724-2018 Title: CPPA vs. Appellate	Lahore High Court	The ACIR has created an impugned demand of Rs.867.512 Million in respect of Penalty and Default Surcharge on 8 January 2018 on account of late payment of Sales tax for the period from December 2015 to June 2016 under section 33 & 34 of the Sales Tax Act, 1990. The decision was challenged before ATIR and CIRA(A), Lahore.	Noncritical. Last date:23.01.2019 Date in office	Barrister Munawar us Salam



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	Tribunal Inland Revenue				
45.	W.P. 39189-2016 Title:CPPA vs FBR etc.	Lahore High Court	The tax authorities have created a demand of Rs 1.915 billion as Advance Tax under section 147 for 1 & 2 Qytr (2016-17) read with section 13 of Income Tax Ordinance, 2001 against which a writ petition has been filed in the Lahore High Court. However, the Company has already discharged tax liability for the year 2017 in compliance with original assessment amended by the CIR under section 122(5A) of the Income Tax Ordinance, 2001	Noncritical. Last date:27.03.17. Date in office,	Barrister Munawar Salam
46.	CPPA VS Commissioner (Appeals)/FBR	Appellate Tribunal Inland Revenue	RTO, Lahore issued notice alleging CPPA-G making supplies to unregistered person i.e M/S Laraib Energy, TPS Quetta, Bulk supplies (Back feed energy invoice; declared as bulk supplies in Return), hence 2% further tax shall be paid by CPPA under section 3 of the Sales Tax Act, 1990. Thereafter, an assessment order was issued, and it has been challenged before Commissioner ATIR after the unfavorable decision made by the Commissioner (Appeals).	Last date: 12.03.2021 Bench cancelled no hearing was conducted. Pending for arguments.	Shahbaz Butt
47.	CPPA VS Commissioner (Appeals)/FBR		An Assessment Order was issued for alleging inadmissible input credits against the purchases of Computers, Office equipment, Vehicle parts, Hotel charges, Furniture bedding fittings which were not used for furtherance of taxable supplies and adjusted against output tax paid on Market Operation fee. It was challenged before the ATIR after unfavorable decision made the Commissioner Appeals. It is still pending before ATIR for final decision.		Shahbaz Butt
48.	W.P. No.48755/2019 Title CPPA vs. FBR	Lahore High Court	Tax authorities have issued a notice on 08 May 2019 disallowing the input tax of Rupees 3,291 million claimed on invoices of GENCO-III IN October 2017, which has been challenged before the Honorable Lahore High Court, being illegal, unlawful and without jurisdiction.	Non-critical Last date: 21.01.2021 Date in office	Barrister Munawar us Salam



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49.	W.P No.3681/2016 Title: CPPA vs. FBR	Islamabad High Court	Tax authorities have issued notices amounting to Rupees 46,790 million on 23 August 2016 and 07 February 2017 respectively for the year 2015-16 in respect of suppression of sales/inadmissible input, against which writ petitions are filed in Islamabad and Lahore High Courts which are pending.	Non-critical Last date:21.01.2021 Date in office.	Barrister Munawar us Salam
50.	W.P No. 2530764.7457/ 17 Title: CPPA vs. FBR	Lahore High Court	Tax authorities have issued notices on 07 February 2017 respectively for the year 2015-16 in respect of suppression of sales/inadmissible input, against which writ petitions is filed in Lahore High Courts	Non-critical Last date:21.01.2021 Date in office.	Barrister Munawar us Salam
51.	W.P.No.8146 dated 2019	Lahore High Court	Tax authorities have issued a notice dated 10 <sup>th</sup> December 2018 stating that input credit amounting to Rupees 466.266 million claimed prior to registration is not allowable in term of section 59 of the ITO, 2001. The Company has filed writ petition to challenge the impugned notice in Lahore High Court and the operation of the impugned notice is suspended till next date of hearing.	Non-critical Last date:24.04.2019 Date in office.	Barrister Munawar us Salam
52.	W.P No.770/21 Ntdc vs. FBR	Islamabad High Court	National Transmission and dispatch company challenged the deduction of with-holding tax from its due payments as the same is in violation of a SRO of 1991.	Last date :21.04.21 Date in office	Muhammad Shafiq
Cases related to 9IPPs Award					
53.	C.A No.722/2012 Title: Taisei Corporation vs. A.M. Construction	Supreme Court of Pakistan	Relates to the issue of "Whether Arbitration Act, 1940 is applicable to the 9 IPPs Award".	Last Date: 04.09.2018 Date in office Pending for arguments	Shiekh Muhammad Ali
54.	Civil Original Suit No. 42813-	Lahore High Court	An award has been passed in LCIA Arbitration No. 142730 against CPPA to pay the specified amounts to the 9 IPPs. Atlas	Last Date: 28.01.2021	Sheikh Muhammad



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	2017 Title : Atlas Power Ltd vs NTDC		Power has filed the enforcement Petitions of the said award while objections are filed by CPPA.	Date in office	Ali
55.	Civil Original Suit No. 42812/2017 Title: Atlas Power Ltd vs NTDC				
56.	Civil Original Suit No. 19263/2017 Title: NTDC vs. Islamic Republic of Pakistan				
57.	Civil Original Suit 169041/2018 Title :Atlas Power vs NTDC				
58.	NTDC vs. Liberty Power Tech.	Civil Court Lahore	These cases are filed by CPPA to set aside the Interim Award issued in LCIA Arbitrations No. 173405 & 173706.	Pending for arguments on application for temporary injunction. Last Date:28.06.2021 Next date: 13.09.21	Sheikh Muhammad Ali
59.	NTDC vs. Nishat Chunian Limited.				
60.	CPLA No.1820/2017 Title: Atlas Power vs Islamic	Supreme Court of Pakistan	Relates to the Enforcement Petitions for LCIA award in arbitration No. 142730 filed against CPPA mentioned at Serial No.41- 43	Last date: 29.03.2018 Date in office	Sheikh Muhammad Ali



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	Republic of Pakistan etc.,				
61.	Crl. No. 57594-17 Title: Islamic Republic of Pakistan vs Liberty Power	Lahore High Court		Last date: 25.01.2018 Date in office	
62.	I.C.A 31697/17 Title: Orient Power Company Pvt. Ltd. etc. vs Islamic Republic of Pakistan etc.			Last date: 19.05.2021 Date in office	Mr. Sheikh Muhammad Ali
63.	Crl. Org. No. 29093/2017 Title: Islamic Republic of Pakistan vs Atlas Power Ltd. etc		Clubbed with I.C.A. No. 31697/2017	Last date: 19.05.2021 Date in office	Sheikh Muhammad Ali
64.	Civil Revision No 10249/2017 Title: Atlas Power vs NTDC	District Court Lahore	Relates to the Enforcement Petitions for LCIA award in arbitration No. 142730 filed against CPPA, mentioned at Serial No. 41-43	Sine die adjourned due to Anti-Suit Injunction by English Court	Sheikh Muhammad Ali
65.	Islamic Republic of Pakistan vs. Atlas Power Ltd.	Civil Court Lahore			
66.	Civil Revision No.	Lahore High Court		Last date: 25.01.2018 Date in office	





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	57600/2017 Title: Islamic Republic of Pakistan vs Liberty Power Tech				
67.	W.P. 66100-2017 Title : Atlas Power Ltd etc vs Islamic Republic of Pakistan				
68.	W.P. 66145-2017 Atlas Power Ltd etc vs NTDC				
69.	NTDC vs Prof Douglas Jones	Civil Court, Lahore	Application under section 30 of the Arbitration Act has been filed against the Arbitrator for proceeding in 9 IPPs case/Arbitration despite the injunction from Pakistani Court.  Relates to enforcement Petitions in 9IPPs award.	Last date: 28.07.2021 Next Date: 16.09.2021 For Summons/ appearances	Sheikh Muhammad Ali
<b>L/C related cases</b>					
70.	W.P. 6793/2015 Title: Orient Power Company Ltd. vs. NTDC etc.	Lahore High Court	CPPA has encashed the Letter of Credit of IPP to the tune of US \$ 2,658,750/- as LDs, and has also deducted PKR. 283.5 million as Interest on LDs. The encashment of LCs and the deduction of interest thereupon is subject to the outcome of the case.	Last date :25.05.2021 Date in office	Sheikh Muhammad Ali
<b>Environment related case</b>					



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71.	W.P. 8960/2019 Title: Maria Khan etc. Vs. FOP etc.	Lahore High Court.	Writ Petition filed by Ms Maria Khan etc. for the promotion of renewable energy in power sector.	Last date:21.01.2021 Date in office	Sheikh Muhammad Ali
<b>Enforcement related to LCIA Arbitration</b>					
72.	NTDC vs Edwin Glasgow (Liberty Power Tech Ltd)	Civil Court, Lahore	The case is filed by CPPA to set aside the Final Partial Award issued in LCIA Arbitration No. 173705 & 173706 respectively.	Pending for summoning of defendants & arguments on stay application Last date: 28.06.2021 Next Date: 13.09.2021	Sardar Kalim Ilyas
73.	NTDC vs Edwin Glasgow (Nishat Chunian Power Ltd.)				
74.	NTDC vs. Nishat Power	Civil Court Lahore	Suit is filed to challenge the Final Award issued on 06.07.2020 in the LCIA arbitration No.173712 titled Nishat Power Ltd vs. NTDC.	Pending for service of summons and appearance of parties. Next date: 13.09.2021	Sardar Kalim Ilyas
75.	C.O.S No.227789/201 8 tiled: Nishat Power Ltd. vs. NTDC & another	Lahore High Court	It is an application u/s 6 of the Recognition & Enforcement (Arbitration Agreements and Foreign Arbitral Award) Act, 2011 regarding the Partial Final Award dated 13-07-2018 as passed in LCIA Arbitration No.173712.	Pending for submission of reply/objections. Last date: 18.09.18 Date in office	Sardar Kalim Ilyas
76.	C.O.S No. 1440/2021 title: Nishat Power Ltd. vs. NTDC etc.	Lahore High Court	It is an application u/s 6 of the Recognition & Enforcement (Arbitration Agreements and Foreign Arbitral Award) Act, 2011 regarding the final award dated 06-07-2020 as passed in LCIA Arbitration No.173712.	Pending for filing of objection. Next date: 05.10.21	Sardar Kalim Ilyas



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77.	NTDC vs Orient Power Company Limited	Civil Court Lahore	Objections under section 15 & 16 of Arbitration Act are filed to Arbitration Award dated 02.05.2017 in LCIA arbitration award 153156.	Pending for final arguments. Last Date: 25.02.2021	Asim Nazir
78.	Exe.Petition No.2/2020 Title: Nishat Chunian Power Ltd.Vs. NTDC & another	Islamabad High Court	Application Under 6 of the recognition & enforcement (Arbitration Agreements & Foreign Arbitral Awards) Act, 2011 read with other applicable provisions of the Law. For the enforcement of final Award 28.10.2019	Last Date: 25.03.2021 Date in office	Sheikh Muhammad Ali
79.	Exe.Petition No.3/2020 Title:Liberty Power Ltd.Vs. NTDC & another				
Cases related to Recovery/Liquidation					
80.	NTDC vs JPGL	Civil Court, Lahore	Suit for Recovery pursuant to winding up of Japan Power by Lahore High Court, Lahore in C.O. No. 88286 of 2017.	Next Date:08.09.2021 Pending for argument on application U/O 1 rule 10 of CPC.	Barrister Munawar-us Salam
81.	Execution Petition No. 725/1-2015, Title: NTDC vs SEPCOL	Civil Court, Lahore	Execution Petition for the enforcement of arbitration award dated 09.07.2013.	Next Date: 15.09.21 For filling of written statement of SEPCOL.	
K-Electric & related Cases					



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82.	CP No. D-4485/2012 Title: M/s SITE Association of Indusrty vs FOP & others	Sindh High Court	Restrained from interfering with the functioning of the PPA & supply of electricity.	Clubbed cases. Noncritical Last date: 19.08.2021 Date in office The case shall become infructuous on execution of PPA for which negotiations are ongoing. It has been considered that the vacation of stay and termination of arrangement shall be contrary to the fundamental rights of provision of electricity.	Standing Counsel for FOP & NTDC
83.	W.P. 205/2014 Title: K-electric Limited & other vs. FOP & others				
84.	Suit no. 1728-2012 Title: Abdul Karim Khan vs Federation of Pakistan & Others				
85.	Const.P. 6254/2018 Title: K-Electric Ltd.vs NEPRA & another	Sindh High Court	NEPRA vide its decision ref. no. NEPRA/SAT-I/LAD-01/1206 imposed a fine of PKR 10 million on CPPA. CPPA submits that the impugned decision illegal, arbitrary, mala fide and without justification. K-Electric receives 650 MW electricity on a PPA signed in 2010 for five years, and the petitioner requested K-electric to extend the PPA but formal extension has not been made till date.	Non-critical. The claim has been secured from latches. Last date:18.05.2021. Next date:20.09.2021.	Barrister Anas Makhdoom
86.	NTDC vs. K-electric	Civil Court Islamabad	Principal dispute pertains to recovery of amounts due and payable by K-Electric for electricity supplied by Power Purchaser. Suit for Recovery before Civil Court Islamabad of Rs. 83,990 Million along with interest from the date of default, pendent lite and till realization of the Decretal Amount and Expenses.	Non-critical. Liability of fine has been jointly challenged upon execution of the PPA, the request of withdrawal of fine shall be made by	Barrister Munawar Salam



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				CPPA before NEPRA which shall be considered to be successful owing to be procedural in nature. Last date:09.06.2021 Next date:07.09.2021	
<b>Cases related to Lalpir &amp; Pakgen</b>					
87.	I.C.A. no. 575/2016 Title: GM WAPDA vs Lalpir Power Ltd	Lahore High Court	The W.P was agitated for unlawful set-off of LDs which was decided in favor of IPP(Lalpir/Pakgen). The same was assailed in I.C.A & till date the order of single bench stands suspended.	Last Date:06.12.2018 Date in office	Engagement made by NTDC
88.	I.C.A. no. 577/2016 Title: GM WAPDA vs Pakgen Power Ltd.				
89.	I.C.A. 113/2020 Title: PSO vs Lalpir Power Ltd.	Islamabad High Court	The Appellant being aggrieved of Disposal of W.P No.3320/2018, 3740/2018,3319/2019 & 424/2019 filed these I.C.A.s	Last date:17.02.2021 Date in office	Barrister Ejaz Ishaq
90.	I.C.A. 114/2020 Title: PSO vs Saba Power Ltd.				



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91.	I.C.A. 115/2020 Title: PSO vs Pakgen Power Ltd.				
92.	I.C.A. 116/2020 Title: PSO Vs. Kohinoor				
93.	W.P No 1367/2020 Title: PSO Ltd. Vs. FOP etc	Islamabad High Court	Petitioner questions validity of order dated 10-10-2019 passed by NEPRA tribunal.	Last date: 17.02.2021 Date in office	Barrister Sardar Ejaz Ishaq Khan
94.	C.P No. 3720/20 Savy Link vs. Phydo,etc	Supreme Court of Pakistan	Savy Link has assailed the decision of Peshawar High Court whereby the W.P filed by Savy Link is dismissed being meritless.	Non-Critical. Last date: 14.01.2021 Date in office	Sheikh Muhammad Ali
95.	C.O. No. 1448/21 Lalpir Power vs. WAPDA	Lahore High Court	An Award has been passed in ICC case No.23792/HTG against CPPA to pay specified amounts to both companies i.e.Lalpir Power Ltd. & Pakgen Power Ltd, whereby CPPA has filed objections	Last date : 13.01.2021 Date in office	Shiekh Muhammad Ali
96.	C.O. No.1453/21 Title Pakgen Power Vs, WAPDA				

LDS DATA for the Fiscal Year 2020-21													
IPP Name	LD	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
NPL	FO/PFO consumed (kWh)	29,416,933	15,046,139	5,300,860	481,255	26,357	78,029	895,363	-	293,096	30,452	1,607,214	3,580,323
	Capacity Deduction (kWh) - if any	179,834	251,729	216,010	56,670	17,536	76,022		11,749	36,261	3,923	95,631	508,820
NCPL	FO/PFO consumed (kWh)	1,203,266	22,740,026	1,149,710	207,811	288,738	-	16,528	-	109,290	-	119,859	9,923,822
	Capacity Deduction (kWh) - if any	13,645,535	65,493	612,775	21,448	12,708	-	147,529	8,653	79,513	27,925	104,769	239,493
AGL	FO/PFO consumed (kWh)	816,283	842,910	586,237	1,868,964	276,444	698,613	572,042	6,746,065	1,107,206	-	2,918,858	5,586,926
	Capacity Deduction (kWh) - if any	45,490	34,547	131,846	85,676	54,275	71,684	125,992	173,388	64,612	5,550	221,326	963,750
NEL	FO/PFO consumed (kWh)	35,945,621	10,908,352	2,081,176	290,390	-	345,325	382,228	148,036	955,514	31,314	3,583,441	4,289,918
	Capacity Deduction (kWh) - if any	-	-	-	-	-	-	-	-	-	-	-	-
Atlas	FO/PFO consumed (kWh)	23,251,416	7,627,064	3,785,110	108,916	-	2,267,077	131,682	142,222	539,520	6,200,035	6,083,047	4,369,094
	Capacity Deduction (kWh) - if any	9,929	29,259	1,889,378	192,028	-	37,057	129,539	24,768	987,499	44,162	917,192	255,944
LPTL	FO/PFO consumed (kWh)	13,242,284	12,840,680	1,129,357	260	-	1,651,386	960,067	155,538	1,467,544	600,731	1,304,442	5,147,364
	Capacity Deduction (kWh) - if any	410,179	322,725	395,394	15,574	-	179,151	197,202	60,597	198,350	139,997	278,703	556,340
Foundation Power Daharki	FO/PFO consumed (kWh)	3,235,165	7,459,423	1,972,478	688,529	2,006,905	2,357,786	3,719,122	4,273,409	964,173	644,164	228,627	219,583
	Capacity Deduction (kWh) - if any	-	-	-	-	-	-	-	-	-	-	-	-
Engro Power Qadirpur	FO/PFO consumed (Hours)	19,208,063	26,968,763	817,070	-	-	-	7,698,880	770,577	249,642	697,522	1,085,507	3,012,105
	Capacity Deduction (kWh) - if any	-	-	-	-	-	-	-	-	-	-	-	-
Halmore Power Generation	FO/PFO consumed (kWh)	1,842,693	1,594,573	1,623,770	317,134	15,897,715	1,631,006	3,840,731	7,017,384	5,348,613	2,402,406	41,367,194	-
	Capacity Deduction (kWh) - if any	-	-	-	-	-	-	-	-	-	-	-	-
Orient Power Company	FO/PFO consumed (kWh)	2,208,679	2,050,767	1,051,510	1,111,003	-	873,288	3,518,348	2,249,782	2,459,728	559,671	1,406,896	874,989
	Capacity Deduction (kWh) - if any	974,055	549,077	562,939	354,309	-	552,755	992,213	1,730,368	661,156	334,515	1,045,580	420,086
Saif Power Limited	FO/PFO consumed (kWh)	46,115	863,353	5,782,789	707,194	-	-	3,941,695	746,207	163,644	54,685	2,533,501	588,414
	Capacity Deduction (kWh) - if any	-	-	-	-	-	-	-	-	-	-	-	-
Sapphire Electric Company	FO/PFO consumed (kWh)	7,532,691	3,057,719	321,370	5,754,664	1,871,962	365,029	1,891,132	18,613,834	1,370,091	445,381	1,249,921	4,787,672
	Capacity Deduction (kWh) - if any	-	-	-	-	-	-	-	-	-	-	-	-
Uch-II	FO/PFO consumed (kWh)	386,032	2,495,982	21,514,126	29,776,653	746,924	661,845	1,373,318	-	99,268	110,304	70,199	254,804
	Capacity Deduction (kWh) - if any	-	-	-	-	-	-	-	-	-	-	-	-

## HIRING PLAN FY 2021-22 (CPPA)

S.No	Cadre	Posts	Status
<b>Technical Department</b>			
1	G-10	Chief Technical Officer	Vacant
2	G-10	DGM Technical	Vacant
3	G-9	Manager Technical	Vacant
4	G-9	Manager Technical	Vacant
5	G-8	Dy. Manager Technical	Vacant
6	G-8	Dy. Manager Technical	Vacant
7	G-8	Dy. Manager Technical	Vacant
8	G-8	Dy. Manager Technical	Vacant
9	G-6	Assistant Manager Technical	Recruitment in Process
10	G-6	Assistant Manager Technical	Recruitment in Process
11	G-6	Junior Executive/APS	Vacant
<b>CEO &amp; P&amp;P Department</b>			
12	G-11	Chief Executive Officer	Recruitment in Process
13	G-8	Dy. Manager Policy & Planning	Vacant
14	G-8	Dy. Manager Policy & Planning	Vacant
15	G-6	Assistant Manager Policy & Planning	Recruitment in Process
16	G-6	Assistant Manager Policy & Planning	Recruitment in Process
17	G-6	Assistant Manager Policy & Planning	Recruitment in Process
18	G-6	Assistant Manager Policy & Planning	Recruitment in Process
19	G-6	Assistant Manager Policy & Planning	Recruitment in Process
20	G-6	Assistant Manager Policy & Planning	Recruitment in Process
21	G-05	Sr. Assistant	Vacant
<b>Legal Department</b>			
22	G-10	DGM Legal	Vacant
23	G-6	Assistant Manager Legal	Recruitment in Process
<b>Internal Audit Department</b>			
24	G-9	Manager Internal Audit	Vacant
25	G-6	Assistant Manager	Vacant
26	G-5	Audit Associate	Vacant
27	G-5	Audit Associate	Vacant
<b>I.T Department</b>			
28	G-6	Senior Graphic Designer AM	Recruitment in Process
29	G-6	Assistant Manager Information System Analytics	Recruitment in Process
30	G-6	Assistant Manager Information System Analytics	Recruitment in Process
31	G-6	Software Engineer (Oracle Developer)	Recruitment in Process
32	G-6	Software Engineer (Java Developer)	Recruitment in Process



S.No	Cadre	Posts	Status
33	G-6	Software Engineer (Dot Net Developer)	Recruitment in Process
34	G-6	Software Engineer (Oracle Developer)	Recruitment in Process
<b>H.R Department</b>			
35	G-9	Manager HR	Vacant
36	G-6	Asstt. Manager (HR)	Vacant
37	G-6	Asstt. Manager (HR)	Vacant
38	G-6	Asstt. Manager (Admin)	Vacant
39	G-6	Junior Executive	Vacant
40	G-05	Sr. Assistant	Vacant
41	G-05	Sr. Assistant	Vacant
42	G-01	Sweeper	Vacant
43	G-02	Driver (Admin)	Vacant
44	G-02	Driver (Admin)	Vacant
45	G-02	Driver (Admin)	Vacant
46	G-02	Driver (Admin)	Vacant
47	G-02	Driver (Admin)	Vacant
48	G-02	Driver (Admin)	Vacant
49	G-02	Driver (Admin)	Vacant
50	G-02	Driver (Admin)	Vacant
<b>Finance Department</b>			
51	G-9	Manager Finance/CA	Vacant
52	G-9	Manager Taxation	Vacant
53	G-8	Dy. Manger Finance	Vacant
54	G-6	Assistant Manager Finance CA/BA&O	Recruitment in Process
55	G-6	Assistant Manager Finance CA/BA&O	Recruitment in Process
56	G-6	Assistant Manager Finance CA/BA&O	Recruitment in Process
57	G-6	Assistant Manager Finance CA/BA&O	Recruitment in Process
58	G-6	Assistant Manager Finance CA/BA&O	Recruitment in Process
59	G-6	Assistant Manager Finance	Recruitment in Process
60	G-6	Assistant Manager Finance	Recruitment in Process
61	G-5	Account Assistant	Vacant
62	G-5	Account Assistant	Vacant
63	G-8	Dy. Manger Finance	Vacant
64	G-8	Dy. Manger Finance (CP&RA)	Vacant
65	G-6	Assistant Manager Finance(CPRA)	Recruitment in Process
66	G-6	Assistant Manager Finance(CPRA)	Recruitment in Process
<b>Company Secretary Office</b>			
67	G-6	Assistant Manager Corporate Communication	Recruitment in Process
68	G-05	Office Assistant	Vacant
69	G-8	Deputy Manager	Vacant

## HIRING PLAN FY 2021-22 (MO)

Deptt.	Head of Deptt. (G-10&11)	Managers (G-9)	Dy Manager (G-8)	Asst. Managers (G-6)	Support staff Below G6	Total
Market Functions	1	4	12	20		37
Finance	-		2	2		4
Legal	-	1	2			3
HR & Admin	-	0	1	1	1	3
IT	-	3	6	16		25
CEO Directorate	1	1			2	4
Company Secy	1			1	1	3
<b>Total Head Count</b>	<b>3</b>	<b>9</b>	<b>23</b>	<b>40</b>	<b>4</b>	<b>79</b>