



Central Power Generation Co. Ltd.
GENCO-II, TPS GUDDU.

Office of the
Chief Executive Officer
CPGCL, GENCO-II, Guddu.

Phone 0722-579088

Fax: 0722-578328

No. CPGCL/CEO/MIS/17/ 4745

Dated: 02/08/2017

Registrar
National Electric power regulatory Authority
NEPRA Tower, Ataturk Avenue (East)
Sector G-5/1, Islamabad.

Subject: LICENSE PROPOSED MODIFICATION APPLICATION ON BEHALF OF CHIEF EXECUTIVE OFFICER, CPGCL/GENCO-II, GUDDU.

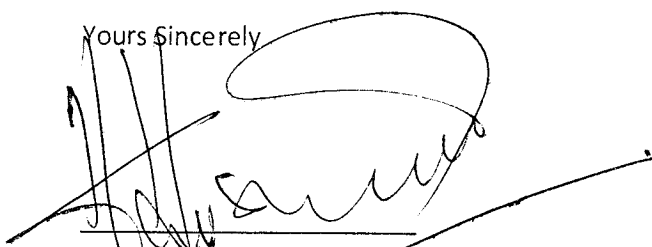
Dear Sir,

I, Muhammad Ayub Ansari Chief Executive Officer, of the Company is the duly authorized representative on behalf of the Company by virtue of a Board Resolution, appended herewith, hereby apply to the National Electric Power Regulatory Authority ("NEPRA or Authority") for the modification/renewal of our Generation License for the Company bearing # GL/02/2002 Dated July 01, 2002 in respect of the company's 110 MW Unit 1&2 each, 210 MW (gross) mix fired (Gas + RFO) energy power Unit-3 & Unit-4 each, 100 MW CCP Unit 5&6 each, 100 MW GT Unit 7 to 10 each, 136.07 MW GT Unit 11 & 12 each, 143 MW CCP Unit 13, 747 MW Unit 14,15,16, and new license for 28 MW Unit-6 at Quetta, Baluchistan (the "Project") pursuant to Regulation 10(2) of the National Electric Power Regulatory Authority Licensing (Application and Modification Procedure) Regulations, 1999 (the "Regulations" or "AMPR")

I certify that the documents in support attached with this application are prepared and submitted in conformity with the Provisions of the Regulations; I further undertake and confirm that the information provided in the attached documents in support is true and correct to the best of my knowledge and belief.

A bank draft in the sum of Pakistan Rs 750,960 (seven Lac Fifty Thousand Nine Hundred and Sixty Rupees only) being the license application fee calculated in accordance with Schedule II to the Regulations for the modification of the license, is already submitted. The Company has requested NEPRA to also consider the Company's request for the waiver of the aforesaid application through reimbursement of already deposited fee, as prayed in the Petition.

Yours Sincerely


Muhammad Ayub Ansari
Chief Executive Officer
CPGCL/GENCO-II
GUDDU



Central Power Generation Co. Ltd.

GENCO-II, TPS GUDDU.

No. CPGCL/CEO/MIS/17/ 4746

Office of the
Chief Executive Officer
CPGCL, GENCO-II, Guddu.

Phone 0722-579088

Fax: 0722-578328

Dated: 02/ 08 /2017

The Registrar

National Electric power Regulatory Authority (NEPRA)

NEPRA, Tower, Ataturk Avenue (East)

Sector G-5/1,

Islamabad.

**Subject: National Electric Power Regulatory Authority Company Application for Modification Of
THE GENERATION LICENSE**

Dear Sir,

The CPGCL/GENCO-II (the company) was granted the Generation license no. GL/02/2002 ON 01 July 2002 the Generation license, by NEPRA under section 15 of the regulation of Generation, Transmission and Distribution of Electric power Act,1997 (NEPRA ACT) .

In order to discharge its contractual obligations under the PPA the company is required to obtain and maintain a generation license from NEPRA , which remains valid for the life of the PPA, it is needless to mention that the grant for generation license is a critical regulatory consent without which the company cannot perform its contractual obligations under the PPA and generate and sell electric power and failure to maintain a valid generation license will trigger default in provisions of the power purchase Agreements (PPA).

The term of company's generation license # GL /02/2002 is expiring on 30 June 2017. For the modification/renewal of our Generation License for the Company bearing # GL/02/2002 Dated July 01 ,2002 in respect of the company's 110 MW Unit 1&2 each, 210 MW (gross) mix fired (Gas + RFO) energy power Unit-3 & Unit-4 each, 100 MW CCP Unit 5&6 each, 100 MW GT Unit 7 to 10, 136.07 MW GT Unit 11 & 12 each, 143 MW CCP Unit 13, 747 MW Unit 14,15&16, and new license for 28 MW Unit-6 at Quetta, Baluchistan , the Company is filling the LPM application to seek the renewal and addition/modification for next 25 years as per the term of the PPA.

The requested modification would benefit consumers, as it would ensure the generation capacity continues to be available and maintained. Moreover, there will be adverse impact on the quality of service provided by the Licensee if this Application is not accepted. Further, there will be no adverse impact on the performance of the License.

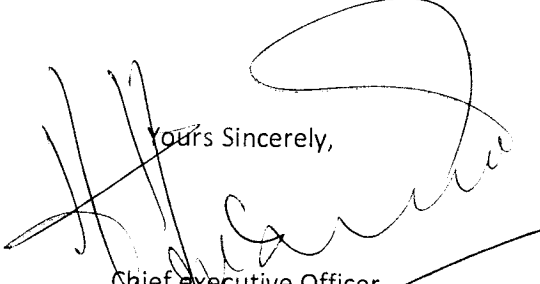
Other than the extension in the term of the PPA, The Company is not seeking any material change in the earlier granted generation license for the all Units including Unit-4 and 28 MW Unit-6 of TPS Quetta, whose details are attached, so consequently the details and schedules attached with the earlier generation license may be read with this Application. However, some modifications in Schedule-II of LPM-I are required regarding Generation Capacity of Units as annexed on separate tabulated sheet.

As NEPRA would appreciate, the proposed modifications do not impact the tariff in any manner. The proposed modification would facilitate the company in fulfilling its obligations under the License and the PPA.

Please find enclosed a bank draft in the sum of Rs. 750,960/- (Seven lacs Fifty thousand Nine hundred and Sixty Rupees only) as fee in consideration of the Company's application for LPM.

In light of this application and its enclosures, you are kindly requested to proceed in accepting the company's application for modification of the Generation License.

Yours Sincerely,


Chief executive Officer
CPGCL/GENCO-II



Central Power Generation Co. Ltd.

GENCO-II, TPS GUDDU.

No. CPGCL/CEO/MIS/17/ 4747

Office of the
Chief Executive Officer
CPGCL, GENCO-II, Guddu.

Phone 0722-579088
Fax: 0722-578328

Dated: 02/08 / 2017

PETITION FOR LICENSE PROPOSED MODIFICATION OF LICENSCE NO GL/02/2002

1. LEGAL Basis:

National Electric power Regulatory Authority company in pursuance of inter alia , Regulation 10(2) of the National Electric Power Regulatory Authority Licensing (Application and Modification procedure) Regulations ,1999 (The Regulations" or AMPR") and other applicable provisions of the Regulation of Generation Transmission and distribution of Electric Power Act,1997 (the Act) rules , Regulations and applicable documents submits this licensee proposed Modification Application(the LPM Application) in respect of its Generation license # No. GL/02/2002.

Under section 15 of the Act, NEPRA awarded a Generation License to CPGCL/GENCO-II (company) for its Generation Facility/Natural Gas, RFO & HSD –Fired power project located at Guddu, Sindh.

2. CPGCL/GENCO-II request for the renewal/modification in the licenses by making the petition for the renewal of the company's 110 MW ST Unit 1&2 each, 210 MW (gross) mix fired (Gas + RFO) energy power Unit-3 & Unit-4 each, 100 MW CCP Unit 5&6 each, 100 MW GT Unit 7 to 10 each, 136.07 MW GT Unit 11 & 12 each, 143 MW CCP Unit 13, 747 MW Unit 14, 15, 16, and initiation of the new license for 28 MW TPS at Quetta, Baluchistan.
3. The Generation License No .GL/02/2002 was obtained for 15(Fifteen) years for CPGCL in 2002 vide NEPRA's Letter No LAG-01/3587-88 Dated July 01,2002, which is valid up to June 30,2017. Therefore, The CPGCL is applying for the renewal of the Generation License of the all Units including Unit-4 and the addition of the 28 MW Unit-6 at Quetta, Baluchistan.
4. At present the Major Overhauling of unit No.03, 09, 11, and 12 has been carried out, presently, the CPGCL is sharing more than **1300 MW** to the National Grid by using the available Gas Quota. Moreover, Unit No.01, 02, 04 & 13 is under shutdown for want of major repair. The requisite maintenance work for restoration of these units is under consideration. Estimated time period for maintenance for Unit No. 01 & 02 is 06 months and for Unit No.04 & 13 is 30 months.

Furthermore, it is also submitted that due to gas constraints approximately 450 to 500 MW is still in standby position. Hence for enhancement of Gas Pressure, the installation of Gas Pressure Boosting Compressors is in progress. Afterward the Power Complex will share approximately 1500MW to the National Grid.

5. To improve the efficiency and reliability of the unit No-3, as mentioned above, the Major Overhauling has been carried out including Turbine, Generator, Boiler, Furnace, Burners, H.P Heaters, Boiler Feed Pumps and Combustion Air & Flue Gas Ducts along with other essential auxiliaries. Now, the unit is in standby position.

Furthermore, after Major Overhauling the load on the unit has been improved from 130 MW to 150 MW (Gross) and efficiency improved from 26 % to 28%.

6. As a ground reality, the unit No.01, 02, 03 & 04 supports the system through 132KV & 220 KV Grid in limiting the power shortages in case of non – availability of the efficient units because the gas of units No.01-04 was already shifted to 747 MW combined cycle power plant.

Therefore, in the light of above, it is requested to allow for keeping these units in Generation License as an emergency/ standby option for the system operator.

7. In order to discharge its contractual obligations under the PPA the company is required to obtain and maintain a generation license from NEPRA, which remains valid for the life of the PPA. It is needless to mention that the grant of generation license is a critical regulatory consent without which the Company cannot perform its contractual obligation under the PPA and generate and sell electric power and failure to maintain a valid generation license will trigger default in provisions of the PPA.
8. Given the fact that the term of PPA (Power Purchase Agreement) is twenty five years (from its commencement i.e. 20 Sep 2015), whereas, the term of Company's generation license # no. GL/02/2002 is only valid for fifteen (15) years, ending on June 30, 2017; the Company requires further extension in the generation license in order to make it consistent with the term of the PPA.

The Company is not seeking any material change in the earlier granted generation license for all its Units including for Unit-4 and inclusion of 28 MW TPS Quetta, and consequently the details and schedules attached with the earlier generation license for all other Units may be read with this Application. However, some modifications in Schedule-II of LPM-I are required regarding Generation Capacity of Units as annexed on separate tabulated sheet.

A handwritten signature in black ink, consisting of a large, stylized initial 'Q' followed by a series of loops and a long horizontal stroke extending to the right.

9. **28 MW TPS-QUETTA, BALUCHISTAN;**

- Central Power Generation Company Limited (GENCO-II) commenced its commercial operation on March 1, 1999. The CPGCL complex was initially comprised of three (3) Thermal Power Stations located at Guddu, Quetta and Sukkur. The commercial operation of the TPS Quetta and Sukkur was discontinued in April, 2000 as per Authority decision. So, the Thermal Power Station Guddu had Generation License (GL) for the Guddu complex only having total installed capacity of 1655 MW NEPRA granted license for a period of fifteen (15) years w.e.f 1st July 2002. The same was got modified for addition of the new 747 MW CCPP Guddu on 26th April 2013 which has added 03 unit and attained Commercial Operation since Dec 17, 2014.
- On 14th May 2004, the MOW&P standing committee decided to make the small Thermal units like Quetta, operational.
- On 20th May 2004, ECC approved 10MMCFD gas during summer months i.e., April to September from 2004 to 2010 and 05 MMCFD in winter i.e., October to March 2006 to 2010 subject to the commissioning of Zurgoon gas field and its integration with Quetta Transmission System.
- Since then TPS Quetta is operational seasonally, on the requirement of system operator (NTDC), for only 6 months in a year on availability of fuel gas w.e.f April to September and delivering energy to NTDC on basis of transfer pricing.
- In this context, the system operator (NTDC) has approached CPGCL, in the light of NEPRA directives in their monthly meetings for obtaining the Generation License for TPS, Quetta to legalize its generation.
- At present, there is only one Gas Turbine unit operational at TPS Quetta.
- Its capacity and efficiency data is as under:-
 - Installed Capacity 28 MW, Site Rated
 - Designed efficiency is 28%
 - De-rated Capacity is 22 MW
 - Present efficiency 19.92%
 - Type of Technology is Open Cycle Gas Turbine.
 - Unit Make & Model Mitsubishi MW-25
 - Commissioning & Commercial Operation Date is December 1984
 - Primary Fuel Gas / HSD (HSD not in use)
 - Fuel Supplier is Sui Southern Gas Company
 - No. of Storage Tank is 01 (For HSD not in use)
 - Cooling Water Source / Close Cycle Demineralized Water
 - Generation Voltage is 11 kV , frequency 50 Hz
 - Exhaust Temperature, Alarm & Trip at 649 0C to 670 0C at 22 MW load.
 - Power Factor = 0.8



The complete technical details of the TPS-Quetta are;

DETAILS OF TPS QUETTA

	2015-16	2014-15	2013-14	2012-13	2011-12
Installed Capacity (MW)	28	28	28	28	28
De-rated Approved Capacity (MW)	22	25	25	25	25
Maximum Load (MW)	22	25	25	25	25
Minimum Load (MW)	6	5	10	10	10
Generation by Fuel, Gwh	111.29	99.65	89.64	99.01	108.14
Availability Factor	98.59	97.60	79.79	53.39	56.77
Load Factor %	50.68	45.50	40.93	45.18	49.24
Utilization Factor	50.68	45.50	40.93	40.33	43.96
Designed Heat Rate Gross (Btu/Kwh)	12114	12114	12114	12114	12114
Designed Efficiency %	28.17	28.17	28.17	28.17	28.17
Actual Achieved Heat Rate Gross (Btu/Kwh)	16571	16454	16821	17176	16160.64
Actual Achieved Efficiency %	20.60	20.74	20.29	19.87	21.12
Estimated Useful Life from Date of Commission in years (A)	25 Years				
Estimated Useful Life from Date of Commissioning in Hours	25 years = 219000 Hrs				
Actual Running Hours Since Commissioning	156281 Hrs (Since Commissioning till to date)				
Actual Running Years Since Commissioning (B)	17 years – 10 Months				
Remaining Useful Life in Years (A-B)	7 years – 02 Months				
Standby Hours Commissioning	85613				
Standby Years Since Commissioning	9 years – 9 Months				

10. Impact of the proposed Modification:

11.1 Impact on Tariff

Tariff petition for TPS Quetta will be submitted after obtaining the Generation License. Furthermore, CPGCL also planned for applying modification in existing Tariff for Unit Nos. 01 to 13 for adjustment of Heat Rate in accordance with manufacturer's calculation correction Curve as allowed for 747 MW CCPP Units.

11.2 Impact on Quality of Service

The company certifies that the quality of service and the performance by the Company under the Generation License shall not be affected on acceptance by NEPRA of this LPM Application, it may be pertinent to add that, the license is required for the provision of services for the period consistent with the PPA.

11.3 Impact on the obligations of the Company under the license.

The proposed modification would facilitate the Company in fulfilling its obligations under the license and the PPA.

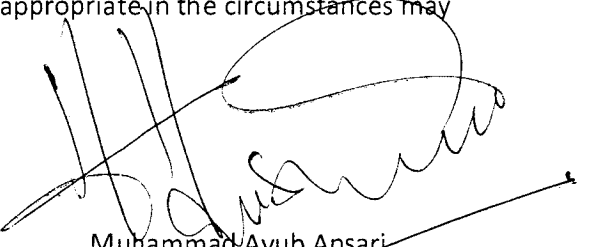
12. Further Pleadings

The company may be allowed to submit further and additional pleadings and documents which may be deemed necessary or important, from time to time.

PRAYER

It is most humbly prayed to the esteemed Authority as follows:

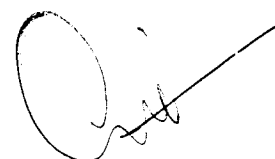
- A. That the Authority shall approve the modifications proposed in its Generation License extend the term of the license corresponding with the term of the PPA for 25 years.
- B. That the Authority may be pleased to treat the Company's request for the grant of this LPM on a non-discriminatory basis.
- C. That the Authority may please add the 28 MW TPS at Quetta, Baluchistan in the generation license NO GL/02/2002.
- D. That accepts the modification of Schedule-II for LPM-I of existing Generation License regarding Generation Capacity of Units.
- E. Any further and better relief that the Authority may deem appropriate in the circumstances may kindly be granted to the Company.



Muhammad Ayub Ansari
Chief Executive Officer
GENCO-2/CPGCL

SCHEDULE-II

Unit No.	Date of Comm.	Installed Capacity (MW)	De-rated Capacity (MW)	Net Capacity after Auxiliary Consumption (MW)
1	30.03.1974	110	50	45.25
2	06.10.1974	110	60	54.30
3	07.11.1980	210	150	135.75
4	29.12.1985	210	140	128.80
5	18.12.1987	100	80	76.80
6	22.03.1988	100	80	76.80
7	20.12.1985	100	95	93.57
8	01.04.1986	100	95	93.57
9	06.03.1986	100	95	93.57
10	12.04.1986	100	95	93.57
11	27.09.1992	136	120	118.20
12	07.12.1992	136	120	118.20
13	17.03.1994	143	130	125.45
14	17.12.2014	255.60	243	241.72
15	17.12.2014	255.60	243	241.72
16	17.12.2014	265.50	261	237.35
Grand Total		2431.7	2057	1974.62





Central Power Generation Co. Ltd.

GENCO-II, TPS GUDDU.

No. CE/CPGCL/PA/45

Office of the
Chief Executive Officer
CPGCL, GENCO-II, Guddu.

Phone 0722-579088

Fax: 0722-578328

Dated: 27/07/2017

**EXTRACT OF THE CIRCULAR RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF CENTRAL POWER
GENERATION COMPANY LIMITED**

(THE "Company")

(Resolutions in writing under Article 64 of the Articles of Association of the Company)

Resolved that a license proposed Modification Application (the "LPM" Application) may be instituted in respect of the Generation License issued by NEPRA No, GL/02/2002 Dated 01 July 2002 on behalf of CPGCL/GENCO-II (the company) with the National Electric Power Regulatory Authority (NEPRA) in respect of the company's 110 MW Unit 1&2 each, 210 MW (gross) mix fired (Gas + RFO) Steam Turbine Unit-3 & 4 each, 100 MW CCP Unit 5&6 each, 100 MW GT Unit 7 to 10 each, 136.07 MW GT Unit 11 & 12 each, 143 MW CCP Unit 13, 747 MW Unit 14,15,16, and new license for 28 MW Unit-6 at Quetta, Baluchistan.

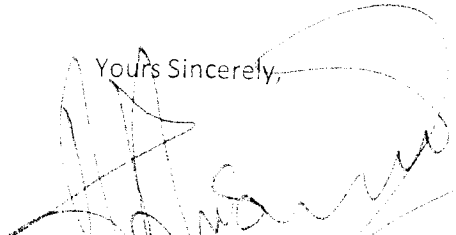
Resolved further that Mr. Muhammad Ayub Ansari the Chief Executive Officer of the company bearing CNIC No. 41304-0264340-5 and Mr. Mohsin Kamal of MK & Associates are hereby authorized to sign the LPM Application, and any documentation ancillary thereto, pay all filling fees, and provide any information required by NEPRA in respect of the project, and do all acts and things necessary for the processing, completion and finalization of the LPM Application.

Certification

CERTIFIED, that, the above resolution by circulation was duly passed by the Board of Directors of CPGCL/GENCO-II (company) on 23rd July, 2017.

FURTHER CERTIFIED, THAT the said resolution has not been rescinded and is in operation and that this is a true copy thereof.

Yours Sincerely,


Chief Executive Officer
CPGCL – TPS, Guddu