

**KARACHI ELECTRIC SUPPLY COMPANY LTD.**

2nd Floor, KESC House, Phase-II, Sunset Boulevard, Defence Housing Authority,
Karachi, Pakistan

Phone: (92 21)38709132(7245) – Facsimile: (92 21) 9920 5192

Ref # GM(RA)/NEPRA/2013/1228

October 29, 2013

Mr. Syed Safeer Hussain,
Registrar,
NEPRA,
Islamabad

For information & m/a H.
- D/Rg/AR-II
G/H to: SA (CT)
- Dir (LIC)
- LA (LIC)
- m/P
07.11.13
cc: VC (M/T)
m (MSE)
m (CA)

Subject: Modification of Generation Licence [GL/04/2002]

Further to the Modification-IV in Generation License no GL/04/2002 issued vide NEPRA letter no. NEPRA/R/LAG-05/10077-79 dated: August 22, 2013, KESC has now decided to decommission the following units:

S.NO	Reference no as per MGL -IV	Plant Name & Unit No.	Installed Capacity (MW)
1.	Schedule -II (Plant -II)	Korangi Thermal Power Station (Unit # 3)	125
2.	Schedule -II (Plant -VI)	SITE Gas Turbine Power Station (Unit # 2)	25
3.	Schedule -II (Plant -IV)	Korangi Gas Turbine Power Station (Unit # 3)	25
Total Capacity to be decommissioned			175

In the light of above, we submit this formal application under Sub-Rule (2) of Rule 10 of NEPRA Licensing (Application & Modification Procedure) Regulations, 1999 for Modification of Generation License GL/04/2002 along with the enclosed following documents in support of Application for each of plant as per above mentioned table.

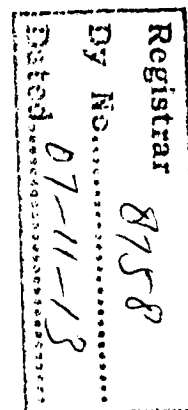
- Text of Proposed Modification:
- Statements of Reasons and specifications in support of Modification:
- Statement showing the impact on tariff, quality of service and the performances by KESC of its obligation under the License:

A cross cheque of Rs. 642,800/- having # DAN 0916630 dated: 29-11-2013 of Habib Bank Ltd. being the license modification fee calculated in accordance with the Schedule II to the NEPRA Licensing (Application & Modification Procedure) Regulations, 1999 is also attached.

At the end, it is submitted that modification in the Generation License of KESC for exclusion of above mentioned units be allowed and approved as per the Regulation 10 (11) of the NEPRA Licensing (Application & Modification Procedure) Regulations, 1999

Sincerely,


Nayyer Hussain,
Chief Executive Officer



Enclosure: Eleven (11) pages along with Cross Cheque # DAN 0916630

Received alongwith Bank draft Rs: 642,800/-



HBL Plaza Branch, Habib Bank Plaza, I.I. Chundrigar Road, Karachi. (0786)

PAYEE'S A/C ONLY

Current A/c No. 07867000959117

Cheque No. **DAN- 09168**

Date **29.10.2013**



RUPEES SIX HUNDRED FORTY TWO THOUSAND EIGHT HUNDRED AND ZERO **Rs. 642,800.00**

PAISAS ONLY



Karachi Electric Supply Company Limited
(Formerly The Karachi Electric Supply Corporation Limited)
KESC House 39/B, Sunset Boulevard, Phase - II, D.H.A. Karachi.

Muhammad Sajid Nadeem
(For and Behalf of KESC Limited)

⑈0916630⑈0540786⑈7000959117⑈000⑈



Karachi Electric Supply Company Limited
(Formerly The Karachi Electric Supply Corporation Limited)
KESC House 39/B, Sunset Boulevard, Phase - II, D.H.A. Karachi.

Cheque No. **DAN- 09168**

Date **29.10.2013**

DETAILS OF PAYMENT

Bill No	Bill Date	Gross Amount	D/T	Deduction	Net Amount Before Tax	Income Tax	Net Amount
1 SGPS-2 KTPS-3 KG	28.10.2013	642,800.00		0.00	642,800.00	0.00	642,800.0
Total		642,800.00		0.00	642,800.00	0.00	642,800.0

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1. MODIFICATION OF UNIT # 3 OF KORANGI THERMAL POWER STATION

(A) TEXT OF PROPOSED MODIFICATION:

The management of KESC has decided to decommission the Unit # 3 of Korangi Thermal Power Station (KTPS). KTPS, having installed capacity of 125MW, which was commissioned in the year 1970 and has already outlived its designed life; is now more than 42 years old. The key performance details at the time of commissioning and comparison with the Parameters in the year 2007-08 to 2011-12 (last operation year) are given in table 1 under section (B) below:

KESC submits that Plant – II (KTPS) in the schedule II of its Generation License no GL/04/2002; should be deleted and the modification be issued accordingly.

(B) STATEMENTS OF REASONS AND SPECIFICATIONS IN SUPPORT OF MODIFICATION:

The unit has outlived its design life (now more than 42 years since commissioning). Ageing of the unit has resulted in irreversible degradation in performance and condition of major components and system as listed below:

Boiler

- i. Super heater and Water wall tubes have weakened beyond repair resulting in frequent forced outages
- ii. Re-heater tubes also have the same problem of degradation and leakage due to extended operation.
- iii. Feed heater No. 3 was out of service, where as HP heater No. 5 and 6 had frequent tube leakage problems and hence remained out of service for most of the operating period time.
- iv. The geometric configuration of the Super heater and Re-heater were disturbed due to thermal stresses.
- v. The structure of the boiler became unsafe due to abnormal shocks
- vi. The outer cladding was leaking from several points, which was unsafe for human being and environment.
- vii. A/H 3B was running with abnormal sound.
- viii. Burner management system was obsolete and was a safety concern.
- ix. Auto controls were out of order and manual control of feed water was difficult at startup and low load.
- x. Repeated gas leakages at different point of boiler.

With all major parts of boiler having deteriorated beyond repair, it is not economical to keep the plant operational on a sustained basis.

Turbine

The inspection of turbine steam path indicates the damage and deterioration of the following:

- i. LP rotor and diaphragms.
- ii. HIP rotor and diaphragm
- iii. Sticky behavior of turbine control valves.
- iv. Turbine bearings No.1 and No.3 high vibration crossing the alarm limit during normal running with slight variation in load and frequency.
- v. Turbine oil leakage from bearing No.1.
- vi. Generator H2 coolers have frequent leakages.

The result is curtailment of Power output to 60 MW from the installed 125MW.

Condenser

Due to aging, condenser tubes have weakened beyond repair resulting in frequent tube leakages, causing chloride ingress disturbing boiler chemistry, and have become a reason for higher blow down.

Frequent chloride ingress into the condensate, Feed water & Steam Cycle warranting forced outages for long periods and corrosion of boiler tubes.

Balance of Plant (BOP):-

Major problem with BOP equipment include unavailability of spares of auxiliary drives & pumps, Low motor insulation, High Pressure valves seat passing and higher auxiliary consumption.

Unavailability of spares resulting in extended forced outages.

Instrumentation & Control (I & C):-

Boiler control systems are not operable on auto mode. Burner Management system technology is obsolete and consequently spares is not available. The replacement of faulty components is becoming difficult due to non availability of spares.

The result was unreliable operation & delayed start-ups.

Electrical

Protection relays on 3.3kV switchgear and other machinery have aged and technology is now also obsolete.

Obsolete technology and aging factor has made operation unsafe and unreliable.

Plant Output & Auxiliary Consumption

Due to the reasons cited above plant output has suffered substantially and has rendered operation **unsafe & unreliable**. To keep the plant within the safe operating parameters the maximum power output was restricted to 60 MW with a very high 12.5 % auxiliary consumption. With the degradation of the unit, obsolete components & control; the net output becomes unacceptably low for economical operation.

With the auxiliary consumption as high as 12.5% the net output becomes unacceptably low for economical operation.

Operational Safety & Reliability

Equipment ageing, deterioration of boiler & turbine pressure parts & faults in critical control systems have rendered operation unsafe & unreliable.

Efficiency

In 2009, unit was tested for efficiency and was reported to be 28.9%. The overall plant efficiency in 2011-12, the last year of operation of the unit, was only 26.1 percent. This efficiency is unacceptably low and as a result, 20 mmcf/d gas was consumed for generating 60MW and we use the same 20 mmcf/d gas at Combined Cycle Plant at Korangi KCCPP to generate 120 MW.

In comparison to other plants having much higher efficiency, the operation of KTPS UNIT 3 became highly uneconomical.

Availability

Based on the statistics for the last five operational years, the operational time remained 36.2%,92.1%,24.2%,53.5% and 30.6%, respectively for various reasons as discussed above.

The Operational availability during year (2012) is significantly low primarily owing to problems associated with turbine & boiler problems.

Proposal for Retrofitting & Rehabilitation

In order to recover the plant to enhance its operational capability, to improve reliability and safe operation it would require huge investment in foreign exchange. Proposal was received from Babcock Hitachi in 2006 for rehabilitation of the Unit. This proposal did not cover cost of replacement of Turbine. Turbine problem had developed after this feasibility study. The study also excluded the cost of replacement of obsolete control system, high pressure piping & valve systems, etc.

The plant is uneconomical and unreliable for operation and hence is not financial viable.

TABLE: 1

KTPS-UNIT 3 DE-Commissioning						
Performance Parameter	2007-08	2008-09	2009-10	2010-11	2011-12	TREND
Units Generated-MWh	245,620	651,390	151,940	270,510	163,163	
Installed Capacity-MW	125	125	125	125	125	
Dependable Capacity-MW	90	92	90	70	70	
Maximum Loads Achieved -MW	90	92	88	70	65	
Operating Hours	3179	8071	2123	4688	2687	
Average Load-MW	77	81	72	58	61	
Forced Outage Numbers	11	32	14	12	11	
Planned Outage Number	10	1	4	3	6	
Forced Outage Hours	2395	650	3505	1000	272	
Planned Outage Hours	3209	39	2296	1910	4464	
Maint + Forced Outage	5604	689	5801	2910	4735	
No Fuel Stand-by hrs	0	0	837	1161	1362	
Load Factor %	85.8	87.7	81.3	82.4	93.4	
Availability Factor %	36.2%	92.1%	33.8%	66.8%	46.1%	
Aux. & Bus bar Losses (MWh)	25,295	56,150	16,610	34,102	20,386	
% Losses (Aux. & Bus-Bar)	10.3%	08.6%	1093%	12.6%	12.5%	
Units Sent Out @ Network	220325	595240	135330	236408	142777	
Gas Consumption (MMCFD)	8	21.9	5.1	9.7	6.0	
HFO Consumption (M.tons)	4363	2275	0	0	0	
Gen Gas (MWh)	231877	643880	151940	270510	163163	
Gen HFO (MWh)	13743	7510	0	0	0	
Heat Rate (Btu/kWh)	12851	12016	11915	12657	13065	
Efficiency %	26.6	28.4	28.9	27.0	26.1	
Outage Factor %	63.8%	7.9%	66.2%	33.2%	53.9%	
Operating Time %	36.2%	92.1%	24.2%	53.5%	30.6%	

(C) STATEMENTS SHOWING IMPACT ON TARIFF, QUALITY OF SERVICE AND THE PERFORMANCES BY KESC OF ITS OBLIGATIONS UNDER THE LICENSE:

1. Impact on the tariff

The decommissioning of Unit # 3 of Korangi Thermal Power Station will have no impact on the tariff.

2. Impact on the quality of service and the performances by KESC of its obligations under the license.

Due to the reasons cited above plant output has suffered substantially and has rendered operation **unsafe & unreliable**. With the degradation of the unit, obsolete components & control; the net output becomes unacceptably low for economical operation.

It affected the overall generation performances by KESC as in 2009, the unit was tested for efficiency and was reported to be 28.9%. The overall plant efficiency in 2011-12 was only 26.1 percent. This efficiency is unacceptably low as for generating 60MW about 20 MMCFD gas will be needed. The combined Cycle Plant at Korangi KCCPP delivers 120 MW with this gas supply.

Moreover, the Operational availability during year (2012) was significantly low primarily owing to problems associated with turbine & boiler problems, which is high risk for Transmission and Distribution system.

2. MODIFICATION OF UNIT # 2 OF SITE GAS TURBINE POWER STATION

(A) TEXT OF PROPOSED MODIFICATION:

The management of KESC has decided to decommission the Unit # 2 of Site Gas Turbines Power Station (SGTPS). Initially five gas turbines were installed at SITE. Out of which 4 of a total of 5 gas turbines were decommissioned when the new GE JENBACHER (GE JB) came into operation. However, Gas Turbine # 2 of SGTPS was kept as standby as the infrastructure allowed it to be accommodated. Gas Turbine # 2 of S.I.T.E. Gas Turbine Power Station was commissioned in the year 1979 and has already outlived its designed life.

KESC submits that Plant – VI (SGTPS) of Schedule – II of Generation License no GL/04/2002 should be deleted and the modification be issued accordingly.

(B) STATEMENTS OF REASONS AND SPECIFICATION IN SUPPORT OF CONDITIONAL MODIFICATION:

"Site Gas Turbine Power Station (SGTPS)" consisting of 05 Hitachi - GE Frame 5B Gas Turbines of 25MW (ISO) (20MW Site) capacity each was commissioned in the period 1978-79 in KESC Fleet.

In Sep 2008, the Gas Turbine at this station were about 30 year old had poor reliability and a very high maintenance and operating cost due to the following:

GT2

- Slightly disfigured Load Coupling.
- Prominent cracks have been observed on Turbine casing near 1st stage shrouds assembly.
- Wheel space first stage forward outer temp high.

These Gas Turbine Units were operating at a very low efficiency of about 21 %

Due to the above reasons KESC replaced the old gas turbines with GEJB Gas Engines having a very high efficiency of up to 37% with reasonable operation and maintenance cost.

During the year 2009 and 2010, 04 out of the five GE Frame 5 B Gas Turbines were replaced with 32 high Efficiency GE Jenbacher gas engines of 2.739MW each (Total 88 MW). Four gas turbines were decommissioned from the fleet with due intimation to NEPRA. The 5th Gas Turbine (GT-2) was kept available as standby till September, 2013. However, due to technical constraints as mentioned above it is decided to decommission.

Further, KESC has now signed an EPC contract with M/S Descon to covert the GE JB Engine based open cycle plant to a Combined Cycle Plant by enhancing the capacity up to 10MW in total by adding a Steam Turbine and Heat Recovery Boilers. Owing to the critical space constraint, we are advised by the EPC Contractor to remove the old gas turbines to release a suitable place to construct the HRSGs and ST along with necessary additional Balance Plant.

KESC has therefore now decided to "Decommission the old GE Frame 5B gas turbine" 25MW (ISO) (20MW Site) capacity.

(C) STATEMENTS SHOWING IMPACT ON TARIFF, QUALITY OF SERVICE AND THE PERFORMANCES BY KESC OF ITS OBLIGATIONS UNDER THE LICENSE:

1. Impact On Tariff

The decommissioning of GT # 2 of SGTPS will not have any impact on the existing tariff.

2. Impact on the quality of service and the performances by KESC of its obligations under the license

The amount of gas utilized by these gas turbines will be utilized for the new gas engines which have a higher efficiency than these gas turbines. This changeover will result in better quality and better output for the same gas quota.

3. MODIFICATION OF UNIT # 3 OF KORANGI GAS TURBINES POWER STATION

(A) TEXT OF PROPOSED MODIFICATION:

The management of KESC has decided to decommission the Unit # 3 of the Korangi Gas Turbine Power Station (KGTPS). Initially four gas turbines were installed at Korangi. Out of which 3 of a total of 4 gas turbines were decommissioned when the new GE JENBACHER (GE JB) came into operation. However, only GT-3 of KGTPS was kept as standby as the infrastructure allowed it to be accommodated. Gas Turbine # 3 of Korangi Gas Turbine Power Station was commissioned in the year 1978 and has already outlived its designed life.

KESC submits following modifications in the Schedule 11(Part – IV) of its Generation License no GL/04/2002; should be deleted and the modification be issued accordingly.

(B) STATEMENTS OF REASONS AND SPECIFICATION IN SUPPORT OF CONDITIONAL MODIFICATION:

"Korangi Town Gas Turbine Power Station (KTGTPS)" consisting of 04 Hitachi - GE Frame 5B Gas Turbines of 25MW (ISO) (20MW Site) capacity each was commissioned in 1978 in KESC Fleet.

In Sep 2008, the Gas Turbines at this station were more than 30 year old and had poor reliability and a very high maintenance and operating cost due to the following reasons:

GT3

- Hot gas path leakages through wheel space seals resulting in high temperature.
- Prominent cracks on casing observed.

These Gas Turbine Units were operating at a very low efficiency of about 21 % as such, KESC decided to replace the old gas turbines with GEJB Gas Engines having a very high efficiency of up to 37% with reasonable operation and maintenance cost.

As a result, during the year 2009 and 2010, three out of the four GE Frame 5 B Gas Turbines were replaced with 32 high Efficiency GE Jenbacher gas engines of 2.739MW each (Total 88 MW). These 03 gas turbines were de-commissioned from the fleet with due intimation to NEPRA. The 4th Gas Turbine (GT-3) was kept available however till September 2013 for the exclusive purpose of the Black Start of KTGTPS new Plant (GEJB Engines).

KESC has now signed an EPC contract with M/S Descon to convert the GE JB Engine based open cycle plant to a Combined Cycle Plant by enhancing the capacity up to 10MW in total by adding a Steam Turbine and Heat Recovery Boilers. Owing to the critical space constraint, we are advised by the EPC Contractor to remove the old gas turbines to release a suitable place to construct the HRSGs and ST along with necessary additional Balance Plant.

KESC has therefore now decided to "Decommission the old GE Frame 5B gas turbine" 25MW (ISO) (20MW Site) capacity currently dedicated for black start.

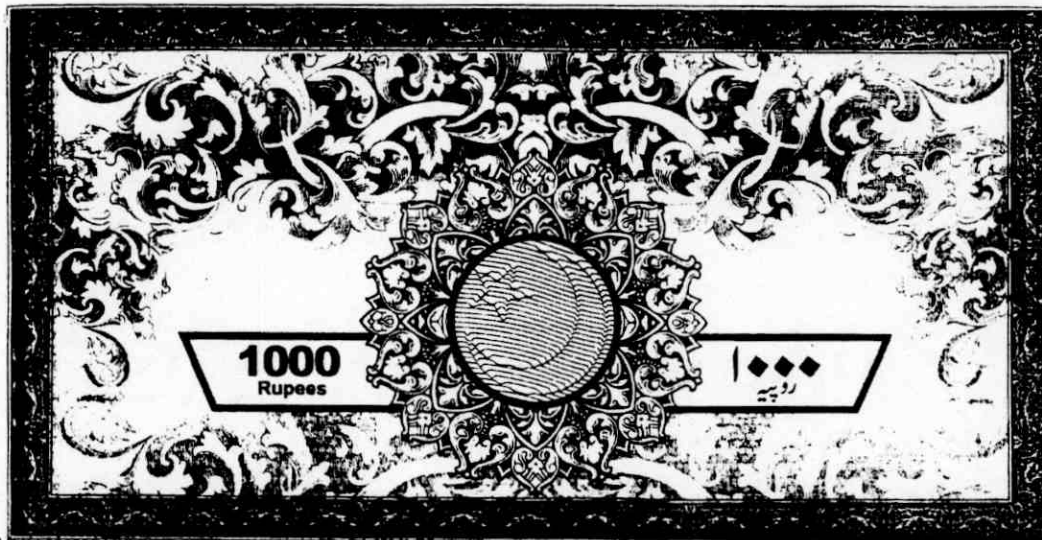
(C) STATEMENTS SHOWING IMPACT ON TARIFF, QUALITY OF SERVICE AND THE PERFORMANCES BY KESC OF ITS OBLIGATIONS UNDER THE LICENSE:

1. Impact On Tariff

The decommissioning of GT # 3 KGTPS will not have any impact on the existing tariff.

2. Impact on the quality of service and the performances by KESC of its obligations under the license

The amount of gas utilized by these gas turbines will be utilized for the new gas engines which have a higher efficiency than these gas turbines. This changeover will result in better quality and better output for the same gas quota.



MUHAMMAD ASHRAF Sugar Cane Vendor
 License No. 67, House No. 1086, Street No. 1
 Ujaquil Ashraf Colony No. 2, Mahmoodabad 6, Karachi
 Sr. No. 33534 Date 12-2-13
 Issued To with Address 10-15C
 Through with Address 10-15C
 Purpose 10-15C
 Value Rs 1000
 Stamp Vendor Signature [Signature]

12 FEB 2013

GENERAL POWER OF ATTORNEY

TO ALL TO WHOM these presents shall come, KARACHI ELECTRIC SUPPLY COMPANY LIMITED, having its registered office at KESC House, 39-B, Sunset Boulevard, Phase-II, DHA, Karachi (hereinafter called the "Company") send greetings.

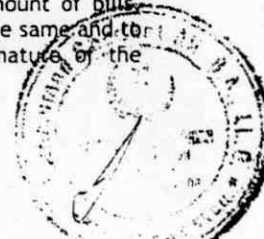
WHEREAS the Company was incorporated under the Companies Act 1882 as a company limited by shares and continues to operate as such under the Companies Ordinance 1984;

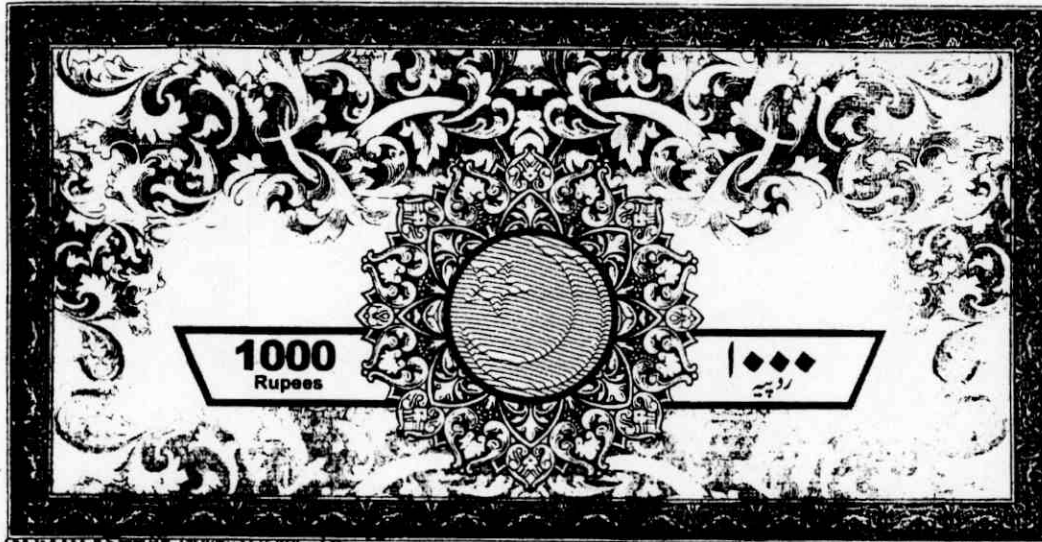
AND WHEREAS by virtue of the powers conferred upon them by Article 77 of the Company's Articles of Association, the Board of Directors of the Company have passed the resolution dated 11 February 2013 and entrusted to and conferred upon Mr. Nayyer Hussain, the Chief Executive Officer of the Company, the following powers which shall be exercisable by him from the date that a Power of Attorney enumerating the same is executed in his favor by any two (2) directors of the Company.

NOW THESE PRESENTS WITNESS THAT Mr. Nayyer Hussain son of Syed Shahid Hussain, CNIC # 42301-3968741-3 the Chief Executive Officer of the Company, is hereby appointed Attorney of the Company to act in the name and on behalf of the Company to do and perform the following acts and things only:

- 1) To purchase, sell, endorse, transfer, negotiate, encash, receive interest or otherwise deal in securities of all kinds including Government of Pakistan securities and securities of the Provincial Governments of Pakistan;
- 2) To sign all registers, reports and returns and others documents as may be required by law to be signed or filed with any Federal, Provincial or Local Governmental authority including but not limited to the Securities and Exchange Commission of Pakistan, Stock Exchanges, Registrar Joint Stock Companies, State Bank of Pakistan and Income Tax, Customs and other authorities;
- 3) To sign all acceptances and endorsements on bills of exchanges, hundies, securities and cheques drawn on behalf of the Company and to receive the amount of bills, hundies, securities and cheques and to give receipts and discharge for the same and to sign all documents drawn on or by the Company to which the signature of the Company as agents is required;

[Signature]
4

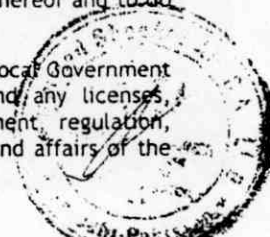


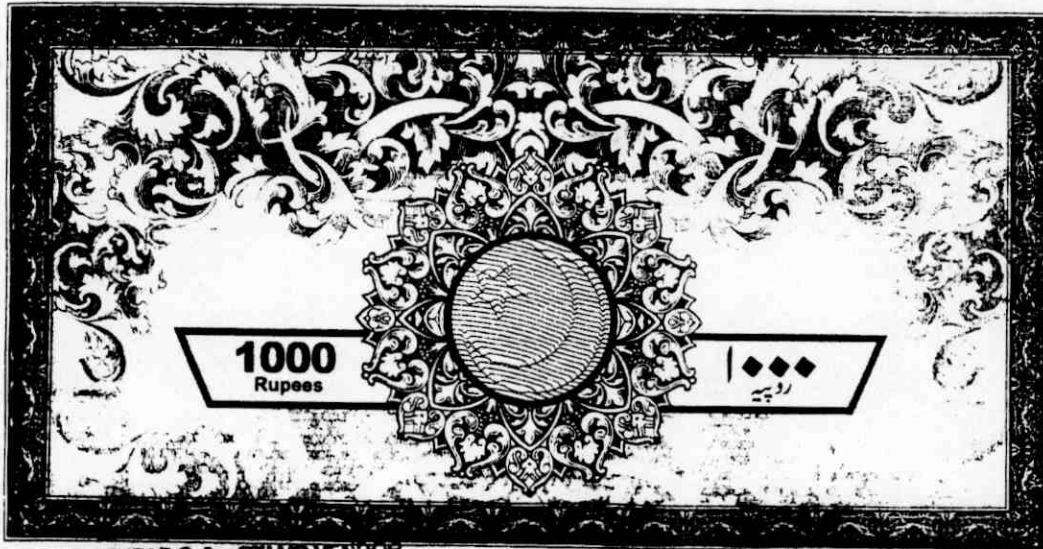


MUHAMMAD ASHRAF Qureshi
 Licence No. 87, House No. 1086, Street No. 1
 Ujaque Ashraf Colony No. 2, Mehmoodezbad 6, Karachi
 Sr. No. 308 Date 12 FEB 2013
 Issued To with Address 1086
 Through with Address 1086
 Purpose 1086
 Value Rs. 1000
 Stamp Vendor Signature A

12 FEB 2013

- 4) To sign for and on behalf of the Company all documents, assurances, deeds, and matters or things in or about the business of the Company as fully and effectively as the Company could do if personally present, to present such documents and deeds to the registering authority and admit execution thereof;
- 5) To process certificates of shares of the Company and to sign all papers relating to the transfer of shares including temporary receipts thereof;
- 6) To process Dividend Warrants and their revalidation;
- 7) To authenticate and or cancel the registration of Debentures;
- 8) To sign all correspondence that may be necessary in the ordinary course of the business of the Company;
- 9) To sign all deeds of sale, purchase, lease, mortgage, redemption, re-conveyance and present them before the registering authority and admit execution thereof;
- 10) To execute all bonds, deeds and documents and give such security as may be required now or at any future time by the Government of Pakistan or by any person, corporate body, company or firm to enable the Company to carry on its business;
- 11) To appoint and authorize any officer of the Company as his agent or agents to admit execution of deeds and documents of whatsoever nature before the registering authority and to revoke such appointment or appointments;
- 12) To sign, execute, determine or terminate and negotiate terms and conditions thereto agreements/appointment for employment and training with employees and trainees, in line with requirements of the Companies Ordinance and Code of Corporate Governance as applicable;
- 13) To sign for and on behalf of the Company all documents, agreements, contracts, assurances, deeds, matters or things in or about the business of the Company as fully and effectively as the Company could do personally and to present such documents, agreements, contracts, assurances, deeds, matters or things to the registering authorities and appear before such authorities and admit execution thereof and to do all such other things and acts that may be necessary for registration;
- 14) To make and sign applications to appropriate Federal, Provincial or Local Government departments, authorities or other competent authority for all and any licenses, permissions and consents required by any order, statutory instrument, regulation, byelaw or otherwise in connection with the business, management and affairs of the Company;

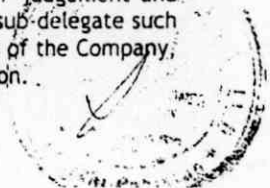


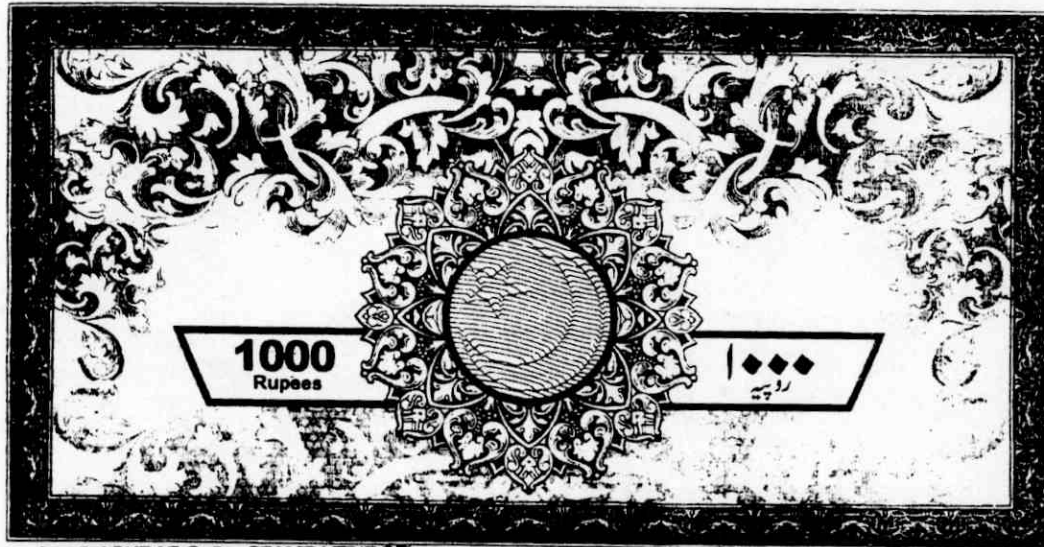


MUHAMMAD ASHRAF GUJAR STAMP VENDOR
 Licence No. 67, House No. 1086, Street No. 1
 Unnabi Ashraf Colony No. 2, Mehmoodabad 6, Karachi
 Sr. No. 3331 Date 12 FEB
 Issued To with Address 12 FEB
 Through with Address 12 FEB
 Purpose 12 FEB
 Value Rs 1000
 Stamp Vendor Signature [Signature]

12 FEB 2013

- 15) To obtain securities from any person, corporate body, company or firm for the due performance of any contract in respect of rendering any service or supplying any material to the Company and to accept the same on such terms as may be deemed proper or expedient by the Attorney;
- 16) To realize debts due to the Company and to receive any money due to the Company from any person, corporate body, company or firm and to grant receipts and discharges for the same;
- 17) To make payments to any person, corporate body, company or firm for any service rendered to the Company and for such other purposes of the Company and for carrying on of the Company's business and to sign and deliver all receipts, charges and drafts on the bank and other accounts of the Company or on the customers of the Company and to endorse all bills and bills of exchange received by the Company which may be necessary or expedient to be signed, endorsed or given for the purpose of carrying on of the Company's business;
- 18) To represent the Company before any Court of law, Federal, Provincial or Local Government authority or any other authority in all matters concerning the business or property of the Company;
- 19) To commence, institute, prosecute, and to defend, compound and abandon all proceedings, actions, suits, petitions, appeals, claims and demands by or against the Company or its officers in relation to the business or property of the Company or otherwise and for such purpose to sign, verify and present any document, pleading, complaint, writ, affidavit application or other instrument in writing and to appear and make statements on oath or otherwise in relation to the affairs of the Company and to appoint and remunerate any barrister, solicitor, advocate, pleader, vakil, mukhtar, or any legal practitioner or any revenue agent, accountants, valuers or surveyors for the said purpose and to obtain legal advice on behalf of the Company on any matter, contentious or otherwise, affecting the Company;
- 20) To write off amounts as approved by the Board of Directors arising as a result of correction / cancellation / adjustment of electricity bills in the normal course of business of the Company. To approve formula for write offs, adjustment and settlement of electricity bills based on prudent business practices / judgement and within the policy framework approved by the Board of Directors. To sub-delegate such of the powers as he deems fit to the concerned executives / officers of the Company, to fix authority limits, thereof, and to revoke the same at his discretion.

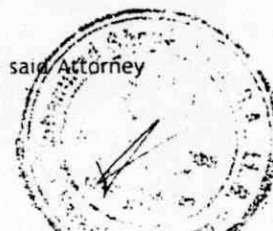


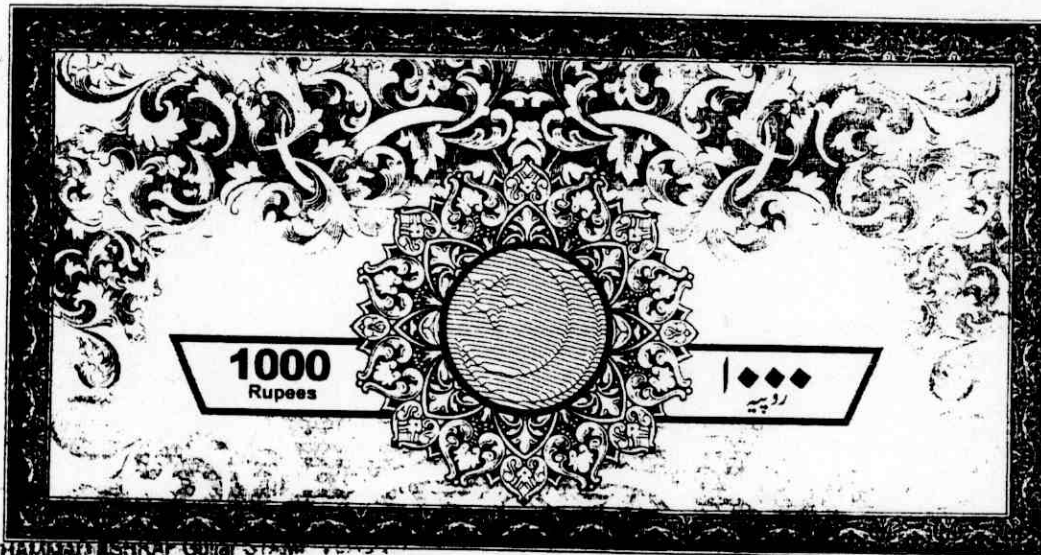
**MUHAMMAD ASHRAF Guler STAMP VENDOR**

Licence No. 87, House No. 1085, Street No. 1
 Ujaqui Ashraf Colony No. 2, Mahmoodabad 8, Karachi
 Sr. No. 2537 Date _____
 Issued To with Address _____
 Through with Address _____
 Purpose _____
 Value Rs _____
 Stamp Vendor Signature _____

12 FEB 2013

- 21) To obtain refund of stamp duty or repayment of court fees;
- 22) To appear and act in the offices of the District Registrar and Sub- Registrar of Deeds and Assurances for registration of documents and in any other office of the Federal, Provincial and local Government, including without prejudice to the generality of the foregoing, City District Government Karachi, any Union Council, District Council, Cantonment Board, Municipal Corporation, any Co-operative Society, State Bank of Pakistan, Collector of Customs, Excise & Taxation Offices and the Chief Controller of Imports and Exports in all matters concerning the business or property of the Company;
- 23) To file and receive back documents, to deposit and withdraw money and to grant receipts therefore;
- 24) To negotiate and to enter into and complete contracts with any person, corporate body, company or firm for the lease or purchase of any lands and buildings and to alter, repair, add to, and improve any building or structure and to let or sub-let any immovable property held by the Company and to submit plans of buildings relating to the Company's properties or lands on the Company's behalf before any competent authority and to obtain receipts therefor;
- 25) To use, sign and attest the name and style of the Company in any transaction, deed, document or muniment of title on all such occasions as may be necessary or expedient for conducting the business of the Company or for the due and proper management of the lands and buildings leased or purchased or to be leased or purchased by the Company and to execute and sign all such deeds and documents as may be required or proper for or in relation to all or any of the matters or purposes aforesaid;
- 26) To delegate to any person such of the powers as he deems fit and revoke the same at his discretion.
- 27) Generally to do all other acts and things incidental to the exercise of the aforesaid powers; and
- 28) The Company hereby agrees to ratify and confirm all and whatever the said Attorney shall lawfully do or cause to be done by virtue of this Power of Attorney.






MUHAMMAD ASHRAF Guljar Street
 Licence No. 69, House No. 1025, Street 143
 Usqueet Ahsan Colony No. 2, Mehmoodabad 6, Karachi
 Gr. No. 3028
 Issued To with Address RESC
 Through with Address _____
 Purpose 11/12
 Value Rs 1000
 Stamp Vendor Signature _____


12 FEB 2013

The Power of Attorney executed in favor of Mr. Tabish Gauhar pursuant to the Resolution of the Board of Directors passed on 28 October 2009 is hereby revoked. This Power of Attorney will be valid till the time Mr. Nayyer Hussain holds the position of Chief Executive Officer of KESC Limited.


IN WITNESS WHEREOF the Common Seal of the Company has been affixed hereto at Karachi on this 12th day of February 2013 by the undersigned directors of the Company pursuant to the resolution dated 11 February 2013 passed by the Board of Directors of the Company.


 Signature of Mr. Nayyer Hussain
 Attorney

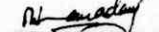
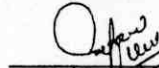
THE COMMON SEAL of
 the Company is hereunto
 affixed in the presence of)
)
)


 Muhammad Tayyab Tareen
 Director




 Syed Arshad Masood Zahidi
 Director

WITNESSES:

1. 
MUHAMMAD ARIF
42401-1568597-5
2. 
Tufan Uddin
42401-3577139-7

ATTESTED

Munammad Sharif Ali
 14TH COMMISSIONER KARACHI



13 FEB 2013