



Whistleblower Pakistan

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Dated: 15th February, 2017

The Secretary,
Ministry of Water and Power,
Block-A, Pakistan Secretariat,
Islamabad.

TRUSTEES

Ms. Yasmeen Lari

Justice (R) Nasira Iqbal

Ms. Shahana Kaukab

Mr. Sohail Muzaffar

Justice (R) Zia Perwaiz
(Secretary General)

Justice (R) Dr. Ghous
Muhammad
(Vice Chairman)

Syed Adil Gilani
(Chairman)

Subject: Dilemma of Over-burdening of KE Consumers

Dear Sir,

Whistleblower Pakistan (WBP) has gone through the news items published on 27.01.2017, in leading newspapers of Pakistan with regard to over burdening of KE consumers. The news items were published in Daily newspapers under different headings such as:

- "NEPRA assailed over 'windfall profits' of KE" - Daily Dawn,
- "NEPRA accused of over-burdening KE consumers" - Daily Business Recorder.

2. In the news items it was mentioned that excessive payment has been recovered on just two accounts i.e.:

- (i) non adjustment of consumer-end Tariff as per the T&D losses set in NEPRA's approved Multiyear Tariff (MYT) Determination, and
- (ii) not accounting for the actual efficiency of K-Electric (KE) Power Plants.

It is mentioned in the news items that the consumers of KE have so far paid an additional amount of Rs.62 billion, just on these two accounts, during the last few years.

3. WBP thanks the Ministry of Water and Power for taking up the issues with NEPRA but at the same time would like to

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submit that in the opinion of WBP, the MYT of 2002 was quite balanced if it could have been interpreted and implemented/adopted in its true letter and spirit. The MYT of 2002 came into effect from 2005 when K-Electric was privatized and it was supposed to be effective till 2012 without any change. However, this 1st MYT was opened up by NEPRA in 2009, prior to maturity of its term, to favor KE at the cost of the State, Power Sector, Pakistan's Economy and the electricity consumers.

4. From the information available to WBP, the issue of the over-burdening of KE consumers by a privatized company starts to crop up after the changing of shareholding from Al-Jummayah to Abraaj and becomes worse after the illegal opening up of MYT by NEPRA in 2009. WBP has observed that NEPRA has favored KE through its in-action, delayed action and/or inappropriate action and this favor of NEPRA is at the cost of electricity consumers, the National Exchequer, Pakistan's economy etc.. In WBP's opinion, non-prudent interpretation of the provisions of the MYT Determination by NEPRA, which was most often in favor of K-Electric, has so far caused huge financial losses to the consumers of KE, the National Exchequer, the State and the Economy of Pakistan. No decision and/or action on the issues of TOU meters, 650 MW Power withdrawal from the NTDC System, non-observance of Economic Merit Order, illegal load-shedding, under-utilization of available Generation Capacity, Induction of low efficiency Power Plants, in-efficient burning of Gas in Power Plants, operation of Power Plants on open-cycle mode etc. are a few heads on which KE has not only overburdened the electricity consumers but the National Exchequer as well. WBP is unaware whether this is



would be able to get justice in the matter in this world or the Almighty will do justice in the matter on the final day of Judgment!

6. WBP has also observed that for the last two years or so, the environment of public hearings in Karachi is not as conducive as earlier in the last 12 years; a lot of people come in or are brought into the hearings to speak in favor of KE in generalized terms and to bulldoze the Stakeholders who really want to highlight the real issues. WBP has never witnessed such a situation in the past. Nor has WBP witnessed a similar situation anywhere else in the public hearings, for example at OGRA's hearings.

7. WBP is of the firm opinion that the aim of highlighting the issues is only to inform the Utility for its intentional or unintentional wrong doings so that it may rectify the same and to inform the Regulator to take immediate and appropriate action against the wrong doings of its Licensee. WBP is also of the firm opinion that NEPRA should itself have a strong monitoring and enforcement mechanism to protect the interest of consumers. Since NEPRA has not been able to protect the interest of consumers, rather it looks inclined towards the Investors' side, the Stakeholders, to the best of their knowledge and information, come to highlight the wrong doings of the Utility.

8. Reading the news items gave WBP hope to submit a copy of the issues already submitted to NEPRA to the Ministry of Water and Power for immediate action in order to save the biggest economic City, biggest Industrial city and the biggest residents' city from the wrong doings of KE.



because of in-capacity, in-capability, in-competency of NEPRA or there is something more to it.

5. Although it is a fact that electric Power Sector issues are complex in nature and due to time, capacity and availability of information constraints it is difficult for the general public and other institutions to point out the issues which are adversely affecting the Power Sector and electricity consumers; but in the eyes of WBP it is the sole duty of NEPRA to protect the interest of electricity consumers as the consumers are paying for it. WBP would like to submit that the consumers of KE, to their best capacity and available resources, are vigilant and from the very first day of privatization are observing the working of the privatized KE and the electric Power Regulator i.e. NEPRA. There are several Stakeholders, namely the Karachi Chamber of Commerce and Industry (KCCI), Mr. Arif Bilwani, Mr. Mazhar Chaudary, Mr. Abu Bakar Usman, Mr. Aneel Mumtaz, Karachi Business Intelligence Wing, WBP, Jamaat-e- Islami and many more, who are regularly participating in the hearings, in the public interest, convened in the matter of KE and are submitting the issues before NEPRA. Unfortunately 'might' and 'money' prevail over the submissions of the vigilant but poor stakeholders. WBP is sure that thousands of applications, complaints, observations, comments etc., in hundreds of files must be available in NEPRA's record against the wrong doings of KE, but why NEPRA is reluctant to take action against KE, WBP does not know. It is not only that Stakeholders submit their observations before the sole electric Power Regulator, but after losing hope from the Regulator many of the Stakeholders used to submit their observations before various other forums, including the Supreme Court of Pakistan. They are all still waiting for justice. Allah knows better whether the citizens



9. In this letter WBP is only submitting its comments on these two issues while for the other issues WBP is enclosing a copy of its earlier prepared and already submitted comprehensive Reports on the wrong doings of KE. After the passage of considerable time, it is quite possible that some of the issues may have lost their efficacy but WBP still wants that these issues be examined thoroughly for identification of the mistakes, calculation of the losses and fixing of responsibilities so that no more mistakes are committed in the future.

Issue of Non-adjustment of end-consumer Tariff as per allowed T&D losses:

10. It is unfortunate that electricity consumers of K-Electric trusted the NEPRA blindly and were confident that NEPRA is adjusting the consumer-end Tariff yearly on the basis of allowed T&D losses, but it was beyond the contemplation of KE consumers that instead of protecting the electricity consumers, NEPRA will unduly favor the private Investor (KE). It goes without saying that the purpose of setting up the reduced T&D loss target (reduced by 2% each year) was not theoretical reduction of T&D losses but through the reduced T&D losses, the privatized entity was mandated to reduce the T&D loss in actual fact and NEPRA was responsible to revise the Schedule of Tariff as per the allowed T&D losses. In WBP's opinion, there was a requirement to revise the Schedule of Tariff (SoT) every year as per the revised allowed T&D figures and any gain or loss due to T&D losses below or above the NEPRA allowed numbers had to go to the Utility. If no adjustment of Schedule of Tariff was designed on the basis of the given reduced targeted T&D losses, there was no purpose of including the condition that the Utility will reduce the T&D losses by 2% every year. Although it is a big financial loss to the electricity consumers of Karachi,



but WBP is not surprised by it because NEPRA did exactly the same as it is doing in respect of all other issues i.e. either it is not taking action at all or it is taking in-appropriate action.

Issue of Heat Rate / Efficiency of KE Power Plants:

11. Before coming to the issue of Plant Heat Rate, efficiency of Power Plants and operation of Power Plants on Open Cycle Mode, WBP would like to present the Authority's stance toward Plant Heat Rate, efficiency, operation of Gas Power Plant on Open Cycle Mode and in-efficient burning of Gas in Power Plants.

12. The importance of Plant Heat Rate, Efficiency of Power Plant and operation of gas Based Power Plant on Open Cycle, in the eyes of NEPRA, can be read from the decisions of the Authority announced in the matter of approval of Power Acquisition Request (PAR) of New Captive Power Plants, namely Dadu Energy (Pvt) Limited, Shikarpur Power (Pvt.) Limited, Naudero Energy (Pvt.) Limited, Galaxy Textile Mills Limited etc. The Authority, in its decision in each case, directed the Licensees to set up combined Cycle Power Plant as early as possible, but not later than 12 months in order to ensure efficient utilization of scarce Gas. In these cases the Authority fixed the efficiency in Open Cycle Mode as 37.5% while on Combined Cycle as 43%. After detailed deliberations, in these cases the Authority decided that after the given date the Tariff of these Power Plants will be adjusted as per the efficiency of Power Plant in Combined Cycle Mode irrespective of the fact whether Power Plants have converted to Combined Cycle Mode or not.



13. Besides other issues, Heat Rates or efficiency of KE own's Power Plants remains an issue which was agitated by various Stakeholders before NEPRA. NEPRA itself was cognizant of this issue and took a very clear position in the Determination of 2009 (illegal Determination in the eyes of WBP) that KESCL shall conduct heat Rate Tests of all of its newly inducted Power Plants in its system and KE shall not be allowed any adjustment in Tariff on account of Fuel Price Variation till approval of Heat Rate.

14. The direction to perform the Heat Rate Tests and linking the adjustment in Tariff on account of Fuel Price Adjustment with the approval of Heat Rate Test means that gain from the improvement in efficiency of the Power Plants should have been passed-on to the electricity consumers.

15. With regard to induction of Power Plants in KE system, KE committed the following wrongs' and NEPRA has regularized the same. It is submitted that:

(i) KE inducted very small size, in-efficient, non-utility Gas Engines, at Site and Korangi sites; the cumulative installed Capacity of these two Power Stations is around 190-200 MW. Against the non prudent Utility practice, KE commissioned these Power Plants on Open Cycle and these Power Plants remained in operation for more than about 5 years on Open Cycle Mode.

(ii) KE inducted comparatively higher efficiency Gas Turbines, but not as efficient as were available in the market at the time, at its Korangi Site; the cumulative installed capacity of this Power Plant is around 220 MW. Against the non prudent Utility practice, KE commissioned these Power Plants partially on Combined Cycle Mode (one steam Turbine with 2 Gas



Turbines) and partially on Open Cycle Mode (two Turbines without any Steam Turbine). The two Gas Turbines (around 100 MW) remained in operation on Open Cycle Mode for more than five years

(iii) KE commissioned its 560 MW Plant in Combined Cycle Mode i.e. Steam Turbine installed within 6 to 8 months of the operation of Gas Turbines.

(iv) NEPRA allowed induction of Gas Based Power Plants (primary fuel) without confirming that any firm Gas Supply Agreement had been executed by KE with a Gas Supply Company.

16. In the eyes of WBP, operation of Utility owned Gas Turbines or Engines in Open Cycle Mode is a financial crime. In its above referred decisions NEPRA has already admitted the fact that Gas based Engines/Turbines cannot be allowed to run on Open Cycle Mode for an indefinite period.

17. In view of the importance of efficiency in Power Generation Business, the Stakeholders kept on raising their voice on induction of in-efficient Power Plants, operation of these Power Plants on Open Cycle Mode and non passing-on the efficiency gains to the consumers (i.e. gains on account of conversion of these Power Plants from Open Cycle to Combined Cycle Mode). The concerns of Stakeholders on these issues are recorded in various decisions of NEPRA which it has given in the matter of Monthly and Quarterly Fuel Charges Adjustments. While not commenting on the other issues, NEPRA has only given its stance in favor of KE. The issue raised by the Stakeholders and ruling of NEPRA as recorded under para 7 of the decision of the Authority in the matter of Tariff Adjustment



for the Quarter April to June 2015 dated 17.01.2016 is given below in verbatim:

“Mr. Arif Bilwani submitted that K-Electric is being allowed variations/adjustment in the fuel costs of each of its own generation plants. These fuel costs are worked out on the basis of heat rates set by the Authority vide its determination dated December 23, 2009. Subsequently, K-Electric has taken certain measures which warrant the revision in these heat rates. For instance, the heat rate of Bin Qasim Power Plant-I (BQPS-I) was set at 10,650 BTUs/kWh, however, the company has carried out the overhauling & refurbishment of this power station owing to which heat rates has improved. Similarly, heat rate of Korangi Combined Cycle Power Plant (“KCCP”) was set at 9110BTU/kWh when it was partially on combined Cycle power which now is being operated fully on Combined Cycle for the last two years. Furthermore, the two gas based Power Plants, i.e. Korangi Gas-II (“KGGT-II”) and Site Gas-II (“STGT-II”), efficiency of which were determined at 9,500 BTU/kWh when these were operated on single cycle which have been converted to combined cycle by the licensee and heat rates have substantially come down. In view thereof, Mr. Bilwani requested the Authority to immediately issue orders for carrying out heat tests of all generating stations anew before allowing licensee any adjustment in its tariff so as to pass on the benefit of increased efficiency to consumers. K-Electric in response submitted that it is operating on Multi Year Tariff (MYT) which is performance based tariff, whereby the company is allowed to retain efficiency gains obtained through investments as no fixed return on investment is allowed.



Thus investment made for conversion to Combined Cycle Mode of existing Power Plants do not affect the tariff mechanism and needs no revision in the determined heat rates. It has been noted that the efficiency of Bin Qasim-I was approved by the Authority vide its determination dated September 12, 2002. As per the generation statistics submitted by K-Electric along with each monthly FCA requests, it has been found that the actual efficiency of this power station is still lower than what has been allowed by the Authority. Regarding the rest of the generation fleet of K-Electric, it has been noted that the heat rates of KCCP, KTGT-II, and STGT-II were initially approved on provisional basis by the Authority. However, as per the heat rate test results, the actual efficiencies appeared lower than those approved by the Authority. Hence, the Authority decided to consider the provisionally allowed figures as final. Nevertheless, the Authority is fully cognizant of the fact that previous heat rate tests were conducted when these power stations were on single cycle or partial combined cycle mode, which are now operating on combined cycle. The Authority also consider and agrees with K-Electric's response that company's MYT is an efficiency based tariff in which no fixed return was allowed to K-Electric except for the gain that the utility realizes by bringing the efficiency in its operation. In view of all the stated above, the Authority feels that the current MYT of K-Electric is set to expire in June, 2016 and the matter under discussion shall be considered at the time of the determination of new MYT for K-Electric."

18. WBP would like to know the following from NEPRA:



- taking into consideration one commissioned and operational Steam Unit?
- g) Whether NEPRA has calculated the loss due to burning of Gas by K-Electric in its Power Plants while these were operated on Open Cycle Mode?
 - h) Whether NEPRA has given some time-line to KE for conversion of its Open Cycle Power Plant to Combined Cycle Power Plant in terms similar to what it has approved for New Captive Power Plants?
 - i) Whether any Distribution Margin (DM) is allowed to K-Electric on per Unit sale of electricity to KE consumers?

19. WBP questions why NEPRA has, in the two cases (560 MW BQPS-II and 220 MW KCCP-partially) allowed to pass on the benefit of Combined Cycle (i.e. Steam Turbine) to the consumers and why in 3 cases (Site, Korangi and partially in case of KCCP) NEPRA is refusing to pass-on the benefit of Combined Cycle to the consumers?

20. From the recent stance of the Authority for not passing-on the benefit of Combine Cycle Operation Mode to the consumers, it appears that the present Authority, contrary to the decision of the earlier Authority, has decided to favor the KE at the cost of electricity consumers. KE is obviously and blatantly being favored by NEPRA. WBP is enclosing a comprehensive Report on the issues of KE. This Report shows the state of affairs as to how imprudently KE is operating the Utility and how NEPRA is protecting the wrong doings' of K-Electric.

21. In addition to this Report, WBP has compiled the Generation Data of the last six years of K-Electric's own Generation Plants, purchases from IPPs & Small Power Generators as well as from the NTDC and is enclosing the same



to help understand the issues submitted in the comprehensive Report.

22. WBP submits one more issue in this letter as this issue is raised by one of the Stakeholders and is not included in the Report. In the complaint lodged before various fora, it was stated that KESC was resold in 2009 to Abraaj Capital Group; Amended Implementation Agreement (AIA) was signed to this effect in 2009. Besides others, one concession given through this AIA was to take out approximately Rupees 70 billion "contingent liability" in KESC financial accounts due to its long running dispute with NTDC on "Marginal versus DISCO" Tariff rate. Referring to the ECC Decision dated 14 October 2008 and Federal Cabinet Decision dated 8 April 2009, the AIA mentions setting-aside/ writing-off Rupees 31 billion of this huge liability in favor of KESC -while the remainder amount of approximately Rs.39 billion was passed on to the KESC Company (Rupees 21.2 billion*), KESC consumers (Rupees 4.7 billion), and Ex-WAPDA DISCOs' consumers (Rupees 13.6 billion) for eventual payment to NTDC as per an agreed payment Plan.

(*Rupees 21.2 billion = Rupees 4 billion Upfront + Rupees 17.2 billion @ Rupees 400 million per month for 43 month)

23. To help KESC pay for its allocated NTDC liability amount as per agreed payment Plan, NEPRA included an extra paisas 41.33 per kWh in KE's Tariff in the 30 June 2009 Determination..

24. Logically speaking, the charging of Ps. 41.33/kWh should have been stopped once KESC had recovered the said amount and thereafter charging of this amount should have been discontinued, but NEPRA did not revise the SoTs and thus KE is over charging around Rs.4 to 5 billion on this account for the



last many years. An Inquiry Report to this complaint is still pending.

25. Furthermore, an inquiry also needs to be conducted as on the one hand KE is not ready to run its Power Plants which can produce electricity at Rs 6-8/kWh (BQPS-I Power Plant on Oil Fuel), but on the other hand it is ready to purchase Power from Solar Power Plant (Our Sun) that would cost it Rs.20/kWh and KE will pass this cost to its consumers.

26. WBP considers it to be socially, morally, and ethically its responsibility to highlight these issues: a probe into the submitted observations is the responsibility of the concerned departments.

List of communications sent to NEPRA by WBP in the matter of K-Electric:

Letters written in the matter of Fuel Charges Adjustments:

- Whistleblower Pakistan letter dated 04.09.2014
- Whistleblower Pakistan letter dated 10.11.2014
- Whistleblower Pakistan letter dated 01.12.2014
- Whistleblower Pakistan letter dated 01.12.2014
- Whistleblower Pakistan letter dated 03.03.2015
- Whistleblower Pakistan letter dated 03.03.2015
- Whistleblower Pakistan letter dated 04.03.2015
- Whistleblower Pakistan letter dated 09.06.2015
- Whistleblower Pakistan letter dated 02.07.2015
- Whistleblower Pakistan letter dated 15.03.2016; two reports were sent alongwith this letter Report-I (56 pages) and Report-II (75 pages).
- Whistleblower Pakistan letter dated 20.05.2016
- Whistleblower Pakistan letter dated 15.08.2016

Letters written with regard to leasing of K-Electric Power Plant:

- Whistleblower Pakistan letter dated 05.09.2014
- Whistleblower Pakistan letter dated 10.11.2014
- Whistleblower Pakistan letter dated 15.12.2014
- Whistleblower Pakistan letter dated 15.12.2014



- Whistleblower Pakistan letter dated 14.01.2015 (through Counsel)

Letter written with regard to induction of high cost Solar Power Plant:

- Whistleblower Pakistan letter which it sent in the matter of Grant of Generation License to OURSUN Pakistan Limited on 11 July 2016 may also be considered in the case.

Letter written with regard to determination of MYT:

- Whistleblower Pakistan Intervention Request dated 13.07.2016 along with letter dated 12.07.2016 attaching therewith Report-I & Report-II (191 pages).
- Whistleblower Pakistan letter dated 09.12.2016 (comments on the issues framed - 44 pages).

Letters written with regard to change in shareholding:

- Whistleblower Pakistan letter dated 10.01.2017

Yours
faithful,

(Syed Adil Gilani)
Chairman

Copy forwarded for information and necessary action to:

1. Eng. Hafiz Naemur Rehman, President Jamaat e Islami, 503- Quaiden Colony, Near Islamia College, Karachi. (Ph. No. 021-34918310, Fax.021-34911218)
2. Mr. Tanveer Ahmed Barry, Chairman, Sub-Committee KCCI, Aiwan-e-Tijarat Road, Off: Shahrah-e-Liquat, Karachi-74000 (Ph. No.021- 99218001-9 Fax No. 021-99218010)
3. Mr. Muhammad Arif Bilwani, 2-A, South Park Avenue, Phase-2, Defense Housing Authority, Karachi. (Ph. No. 0300-8229570)
4. Mr. Nazim Haji, A-21/2A, KDA Scheme No. 1-A Extension, Stadium Road, Karachi.
5. Chief Executive Officer, CPPA G, 6th Floor, Shaheed-e-Millat Secretariat, Jinnah Avenue, Blue Area, Islamabad.
6. Mr. Abu Baker Usman, Pasban Pakistan, 34-Micassa Centre, Sir Shah Suleman Road, Hassan Square, Gulshan-e-Iqbal, Karachi. (Ph. No.0333-2149079)



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7. Mr. Roland deSouza, Shehri-Citizen, 88-R, Block 2, PECHS, Karachi 75400. (Ph. No.021-34530646) Construction, Sheet No.....
8. Choudary Mazhar Ali, Arjan Building, Mohan Road, Urdu Bazar Chowk, Karachi. (Ph. No. 021-32771400)
9. Mr. Anwar Kamal, Senior Advocate Supreme Court, 1-Turner Road, Lahore.



At the very outset it is clarified that assistance from the citizens of Pakistan, electricity consumers and other stakeholders to NEPRA on electric power related issues is a voluntary act and they are not in any manner liable to do so. Further, the stakeholders provide assistance to the Authority in good faith, public interest and to the best of their understanding, knowledge and information available with them. The purpose of assistance to the Authority is to sensitize the Authority on the issues which require thorough analysis by the Sector specialist, having full knowledge and information on the issues raised at Authority level to bring efficiency in the system. It is a known fact that Investors protect their interest by appointing highly qualified Consultants the cost of which service they recover from the electricity consumer. NEPRA allows such recovery while approving their Tariff. It is also a known fact that Investors always want to maximize their profits on their investment and in doing so burden the consumers/subscribers of their product. Therefore, in order to ensure that the investor does not over-charge for its product and that the consumer should pay the prudent and justified cost along with reasonable return on the investment of the investor, the concept of an independent Regulatory Authority was conceived and implemented. Based on this very concept, the National Electric Power Regulatory Authority (NEPRA) has been established in Pakistan to ensure that the investor shall not make gains beyond justified return on cost. The consumers, who generally have no organized voice would be protected by the Regulator through its strong economic decision making and monitoring mechanism. For performing this Regulatory

duty for them, the consumers pay a fee to NEPRA through their electricity Tariff. Although the fee is ostensibly paid by the investor but not from its own pocket. In actual fact, the investor includes the expense of fee paid to NEPRA and to the Consultant in its Tariff and the Tariff is to be paid by the electricity consumers. Therefore, NEPRA is legally, ethically and morally bound to protect the interest of consumers in an honest, fair, just and transparent manner. The duty of NEPRA, a quai-judicial Authority, is to provide justice and not to manage the Power Sector. The Sector will automatically be managed if justice is ensured. The details of the fee which has been paid by the consumers to NEPRA during the last 8 years is compiled from the figures given in NEPRA's Annual Reports:

Sr. No.	Year	Amount in Million Rupees
1	2006-07	359.454
2	2007-08	422.997
3	2008-09	493.213
4	2009-10	319.057
5	2010-11	358.281
6	2011-12	414.564
7	2012-13	459.604
8	2013-14	555.256
9	2014-15	Not available

2. It is an acknowledged fact that private citizens have time, knowledge, resource, information and other constraints in assisting the Authority in a more comprehensive manner. It was decided that whatever be the issues observed, they should be presented before

the more resourceful, exclusive Regulator of Electric Power in Pakistan to carry out analysis on each issue pointed out and to publish an independent Report for the clarity of mind of the stakeholders and to bring efficiency in the Power Sector. A brief introduction of the Karachi Electric Supply Corporation (KESC) and issues in its' Privatization and post-Privatization is presented before the Authority for review and immediate remedial measures.

3. K-Electric Limited (KEL), formerly Karachi Electric Supply Corporation (KESC), was incorporated in 1913. KEL is a Vertically Integrated Utility that generates, transmits, distributes and sells electricity in Karachi and its adjoining areas.
4. In view of severe constraints in the availability of capital, which led to inadequate investment in generation capacity and transmission infrastructure, massive deterioration in governance and heavy losses in Power Sector in Pakistan including KESC, it was decided by the Government of Pakistan (GoP) to restructure the Power Sector of Pakistan. The Strategic Plan for the Privatization of Pakistan Power Sector was prepared in 1992. The Regulator i.e. National Electric Power Regulatory Authority was established in 1997 to oversee the privatization process and to regulate the Power Sector of Pakistan.
5. Although the Strategic Plan does not examine the KESC but it was advised by the Team which prepared it that the ultimate Power Sector structure delineated for WAPDA should be considered carefully as a model for the privatization of KESC. It was stated in

the Strategic Plan that the Team does not believe that privatizing KESC as a vertically integrated electric utility will induce competition or be compatible with the future structure of the industry proposed in the Strategic Plan.

6. Despite the above advice given in the Strategic Plan, the privatization of KESC was initiated as a vertically integrated utility while at the same time the vertically integrated WAPDA was disintegrated into three separate functions i.e. Generation, Transmission and Distribution. As learnt from the news items, Articles, the Privatization process of KESC since its beginning was under criticism, in the media, as the first successful Saudi-based bidder Company, Kanuz Al Watan, refused to buy KESC without giving any reason and suffered a loss of Rs. 10 billion paid as Guarantee money. Later on, the second highest bidder, namely Hassan Associates was offered purchase of this Utility. Ultimately, without any re-bidding, the Utility was sold to a consortium formed by the said Hassan Associates with Saudi based Al-Jummaiah Group at a throw-away price of Rs. 15.86 billion. The then Union leader was of the opinion that the assets of KESC were of the value of more than Rs.300 billion at that time. It was also reported that at the time of Privatization GoP was already in commitment to pay around Rs. 14.5 billion under Financial Improvement Plan (FIP) of which Rs. 4 billion was already there in KESC's account. Furthermore, at the time of privatization the GoP took all the liabilities of KESC then outstanding and the utility was privatized as a liability-free organization. The ultimate aim of the full of

concessions privatization was to bring technical and economic efficiency in K-Electric System for affordable electricity, to get rid of subsidies and continuous injecting of amount in the Utility by GoP. Unfortunately, the objective of privatization was not achieved as the Utility has not achieved the desired efficiency and the GoP is still injecting huge amounts in the KEL system as a Subsidy.

7. The Al-Jummaiah Group failed to manage the Utility in an efficient manner and in March 2008 handed over the Utility to a Dubai-based new management Abraaj Company registered in Cayman, Latin America. The Government of Pakistan facilitated the Company by signing an Amended Agreement and the Share Purchase Agreement (SPA). It is unfortunate that both documents (Amendment Agreement and SPA) were not made public despite the requests of stakeholders. Transparency International (TI) through its letter of 10th July 2009 (available on web) while highlighting the serious issues with regard to KESC privatization and taking over of this Utility by Abraaj also highlighted the non-furnishing of the Contract Agreements (Amended Agreement and the SPA) but none of the organizations responded to it. Making such public documents 'confidential' has made the whole process non-transparent. It is on record that one of the Citizens' forums in the name of Shehri knocked at the doors of the relevant agencies i.e. NEPRA, Ministry of Water and Power, Privatization Commission to provide copies of these documents but it could not succeed in getting these documents from any of the Agencies. In its effort it finally approached the Federal Ombudsman to direct the concerned

Agency to provide these documents. The Wafaqi Mohtasib, vide cases Nos. K/377/13, K/748/13 & K/745/13 very kindly ordered to provide the document but, despite clear orders of the Federal Ombudsman in favor of Shehri to provide these documents, none of the Agencies was ready to provide these documents even in compliance of the Ombudsman's Order.

8. Through its letters of 8th, 10th, and 11th July 2009 (all available on the web) TI has highlighted the serious issues with regard to KESC privatization and its post privatization affairs. However, for reasons best known to the concerned quarters, observations could not be addressed. Anyone can easily note that after the taking over of the Utility by Abraaj, blessings poured into the Company's business from all sides. The Company succeeded in getting favors of the dealing organizations and NEPRA, the Regulator. With all favors and blessings the Company started its journey from loss to to huge profits but all this is at the cost (i) of non-optimal use of the country's resources, (ii) the national economy, (iii) the consumers of other DISCOs and (iv) the interest of K-Electric's consumers. The reasons behind the success story of K-Electric Company (at the cost of National and consumers' interest) were being brought into the knowledge of NEPRA by the stakeholders from time to time during hearings held in relation to Fuel Charges Adjustments: the Audio recordings and their transcripts as well as written submissions of the stakeholders must be available in NEPRA's record. Here we would like to sum-up some of those issues, which

comes in our knowledge, on which concessions/favors were given to the K-Electric, these are as follows:

A) Waiver of 4% Price Cap on Fuel Price Variation as provided in the Determination on which Privatization was carried out:

NEPRA has determined a Seven-year Multiyear Consumer-end Tariff for KESC on 10 December 2002 (available on NEPRA's website). The Privatization bids were submitted by the bidders after taking into consideration the Authority's Determination dated 10.12.2002 which was Capped for seven years. The Determination of the Authority also consists of the Adjustment of Fuel Price Mechanism. It was stated in the Determination that if the allowed increase/decrease in the average Sale Rate due to Fuel Price variation in a certain Quarter is greater than 2.5% of the prevailing average Sale Rate, the Adjustment will be restricted to 2.5% and the remaining burden/relief shall be carried forward to the next Quarterly Adjustment.

The request of KESC to remove this Cap was declined by NEPRA when it was requested prior to Privatization but NEPRA approved waiver of this Cap vide its Determination NEPRA/R/TRF-51/KESC-2006/6671-74 dated September 14, 2006 despite the opposition of almost all stakeholders including the Ministry of Finance and the Ministry of Water and Power.

Further, the Ministry of Water and Power also filed a Reconsideration request against this decision of the Authority but NEPRA declined the same vide its Decision NEPRA/R/TRF-

51/KESC-2006/7435-38 dated November 14, 2006 (all Decisions of NEPRA are available on its website).

This post-Privatization favor of NEPRA is neither fair nor understandable. Had this action been taken by NEPRA prior to Privatization, it would definitely have positively impacted the bid price/share value.

B) Increase of Ps. 15/kWh in base Tariff (that too subject to indexation) after opening of Past and Closed Transaction and that too post-Privatization i.e. Opening of Seven years Capped Multiyear Tariff prior to maturity of its control Period to increase Ps. 15/kWh: The bids to buy the shares of KESC and taking control of it were submitted by the bidders after taking into consideration the Authority's Determination dated 10.12.2002 which was Capped for seven years. NEPRA, vide para 99 of the Determination, categorically put a future price Cap for seven years subject to indexation factors.

While approving the waiver of Adjustment of Fuel-price mechanism given in the Determination of 2002 through its' Determination dated 14 September 2006, it was stated in para 39 of the Determination "that removal of 4% price cap on quarterly adjustment mechanism for fuel price and power purchases cost shall not affect or alter the base tariff. The base Tariff which has been fixed for 7 years shall continue for the tariff control period ---"

Further, KESC in its reply to various explanation /show cause cases (Meter rent, Bank Charges etc.) and during Public Hearings

used to take the stand that its Multiyear Tariff is a 'closed and past' transaction which is Capped for a certain control period.

However, NEPRA vide its Determination NEPRA/TRF-133/KESC-2009/1330-1333 dated December 23, 2009 NEPRA not only altered the base Tariff and increased Ps. 15/unit but also revised the control period to seven years from the date of this Determination, despite the fact that almost all stakeholders and 2 out of 5 of the then Members of the Authority (namely Mr. Maqbool Ahmed Khawaja and Mr. Shoukat Ali Kundi) were against the opening of the Capped Multiyear Tariff prior to completion of its' control period. The Dissenting Notes of both the Members are attached with the Authority's Determination.

The Stakeholders kept agitating this issue in almost all Public Hearings and Mr. Arif Bilwani lodged a formal complaint in 2012 which was decided by NEPRA in favor of K-Electric in 2015 after an inordinate delay of more than two years. During the Hearing Mr. Bilwani agitated this issue again and filed a Review request before NEPRA which is still pending before NEPRA for decision. It is estimated that this Ps. 15/kWh must have increased to Ps. 20/kWh due to indexation and the per month revenue which K-Electric is gaining due to this Decision of NEPRA must be in billions of rupees on monthly basis. NEPRA's taking of inordinately longer time to decide the issue goes in favor of K-Electric.

This post-Privatization favor by NEPRA is neither fair nor understandable. Had this action also been taken by NEPRA prior to

Privatization, it would have attracted other bidders and would definitely have impacted the bid price positively.

C) Non revision of allowed 6.1% Average Auxiliary Consumption despite change in Generation pattern from RFO to Gas:

Historically the electricity generation of KESC's own system was dominated by the steam generated in the boilers. Therefore considering the factor that more Auxiliary consumption is used when electricity is generated by using steam generated in boilers, that too on RFO fuel, the Authority allowed 6.1% average Auxiliary consumption. Subsequently KESC replaced/inducted around 1000 MW Gas turbines/engines based Power Plants, which generate electricity with no use of steam Generator i.e. boiler and require less Auxiliary to generate electricity. Further, KESC has decommissioned its' old Steam Turbine Power Plants which were consuming higher auxiliary power to generate electricity. However the Authority, while approving the modification in the License of KESC to the extent of replacement/induction/decommissioning of these Power Plants, did not review the average Auxiliary consumption threshold. Despite the fact that the Authority has to look into the details of the impact on Tariff of the proposed Modification, as provided under the Application Modification Procedure Regulations prior to the approval of the Modification, the Authority has totally ignored this aspect and approved the Modification with the same level of Auxiliary consumption. It is also important to mention that this issue has been raised several times

before the Authority by stakeholders but the Authority has not bothered to consider this issue and to give its ruling on this issue.

- D) Correction of the approved Adjustment mechanism given in the 2002 Determination in the 2009 Tariff Determination:** Vide Para 16.6 and 16.9 of the Authority's Determination of 2009, this issue has been discussed and the Authority has held on this issue that the Heat Rates approved by the Authority in its previous Determination were based on gross Generation whereas these have been applied on Units sent-out basis in all previous Quarterly adjustments in Tariff due to Fuel price variations approved for KESCL. It was further held by the Authority that this issue was never brought before it in the past. On this issue the Authority revised the Heat Rate which had resulted in and provided financial comfort to K-Electric. The question arises as to why the Authority had failed to note this issue in the previous 6 to 7 years?
- E) Revision of Tariff from Marginal-Cost basis to At-Par-with Discos' Tariff for electricity purchases by KEL from NTDC - KEL is gaining billions of rupees per month at the cost of other Electricity consumers of the Country:** The Economic Coordination Committee of the Cabinet (ECC) after induction of Abraaj in KESC in 2008 decided that KESC may be treated at par with Discos for Tariff purposes instead of on Marginal-Cost basis and accordingly decided that Rs 31.0 billion appearing in the books of KESC as payable to NTDC, being the difference between Marginal-Cost basis and the Discos' rate for the period June 2006 to July 2008 will be settled by the GoP with PEPCO/NTDC.

Details of this issue can be read from the Tariff Petition filed by KESC vide No. DD R&ASP/071/453 dated June 02, 2008 and Determination of the Authority issued vide No. NEPRA/R/TRF-101/KESC-NTDC-2008/276-79 dated September 29, 2008 (Determination available on NEPRA website and the Tariff Petition has probably been removed from the website).

It is important to note that the difference of Marginal-Cost and Discos' rate Tariff is quite huge and the main beneficiary of this difference is the Company at the cost of the consumers of XWDISCOs.

It is more important that this incentive was neither available nor known to the bidders who participated in the bidding process of KESC conducted in 2005. If this incentive would have been known to the bidders, it would certainly have increased the bidding amount.

This is probably the biggest favor conferred on KESCL and one which is recurring in nature. This favor has been given to K-Electric without considering the loss to the National economy and the consumers of XWDISCOs. The amount of loss on this account is in billions of rupees and is a recurring loss.

It is a fact that K-Electric, neither in the past nor now, is contributing to the National Power Projects like Neelum Jhelum Surcharge nor any other Surcharges which consumers of other DISCOs are paying in their electricity bills. Notwithstanding all that is stated, if this favor was necessary, for any reason whatsoever,

then the concept of two separate 'Baskets' should have been reviewed to avoid economic losses due to operation of Power Plants without observing the merit order.

F) KEL is drawing Power from NTDC against the spirit of the provision/decision and against economic operation of the Power Plants/prudent Utility Practices: It is important to mention that there are two separate electricity 'Generation Baskets' in Pakistan; one is the NTDC and the other is the KESC Generation Basket: Economic Merit Order is maintained in the two Baskets separately. The Economic Merit Order of the Power Plants operating in the two Baskets separately will be different if these Power Plants are placed under one Generation Basket. Further, if we compare the weighted average RFO, HSD and Gas based Generation in the KESC and NTDC Baskets then respective cost of Generation on each Fuel in the KESC system is lower than in the NTDC system.

In the light of the above facts we understand that ECC was not apprised about the complete facts while it was making the above decision and it appears that the above referred ECC decision was made without consideration of the complete facts. Further, NEPRA which is actually sitting on top of the Power Sector of Pakistan and is the exclusive Regulator of the Power Sector in Pakistan, knowing the fact that the ECC decision is not economically and technically prudent, neither refused to accept and implement the decision nor referred the issue to the concerned forum along with full facts for its review and reconsideration. It may be noted that the decision of ECC is not binding on the Regulator. Furthermore, in the decision

ECC used the word 'may': this means the ECC give a direction and NEPRA had to look into the details of the issue and give its final decision which should have been economically and technically prudent. Unfortunately NEPRA did not perform its job in the matter.

G) Purchase of Power by K-Electric from NTDC despite the fact that the Plants available in K-Electric System are not utilized to their Full Capacity - Power Sector is facing financial loss of around Rs. 1.5 to 2 billion per month on account of this un-economic and non-prudent operation of Power Plants: After going through the Petition of KESC dated June 02, 2008 one can easily judge that the Power Purchase by K-Electric from NTDC was foreseen and requested to meet the load demand of KESC system once all its electricity Generation resources are exhausted. However, after the above referred decision of ECC, KESC used to draw power from NTDC to the tune of 650 MW without exhausting the electricity Generation capacity available in its Basket. It is relevant to mention that NTDC operates its costliest Plants to Generate power which it supplies to K-Electric despite the fact that the cost of electricity Generation in the KESC system is lower than the costliest Generation in the NTDC system, which NTDC generates to supply to KESC. Sometimes this cost difference reaches to more than Rs. 6/kWh. And in this condition when comparatively cheaper cost electricity in the K-Electric system is available and the same is not being used. Instead, NTDC operates the costliest Power Plants and supplies the costlier Generated

electricity to K-Electric at an average Basket rate. This does nothing but burdens the consumers of XW DISCOs and the Exchequer in billions of rupees on monthly basis.

KESC and NTDC executed the Power Purchase Agreement on 26.01.2010. Besides other details, there are certain terms and conditions given in the PPA which clearly spell the condition under which KESC can purchase the electric power from NTDC. In this regard Article 2.1 and 6.1 of the PPA are relevant and are reproduced hereunder:

Article 2.1 of the PPA executed between NTDC and KESC on 26.01.2010:

(a) Subject to and in accordance with the terms of this Agreement from and after the Effective Date, KESC, after meeting its demand through the available energy, may request NTDC to provide electric power in a quantity which is reasonably required by it to meet with its requirements but limited to the Capacity.

(b) Subject to and in accordance with the terms of this Agreement from and after the Effective Date, NTDC shall sell to KESC electric power in a quantity which is reasonably required to meet with the requirement of KESC limited to the Capacity at the Delivery Points.

(c) In case KESC draws more power than the capacity agreed for 60 minutes then the NPCC shall notify KESC Control Centre to immediately reduce its load to the extent of the excess and if KESC

Control Centre fails to do so then NTDC may temporary disconnect any one of the circuit of Interconnection Facility till the load be reduced to Capacity.

Article 6.1 of the PPA executed between NTDC and KESC on 26.01.2010:

(a) Request for Despatch: KESC shall inform NPCC by means of a written Despatch Instruction from KESC (which Despatch Instruction shall be given one Day ahead by 1200 hrs) about its estimated quantity of electric power which is reasonably required to meet its requirements but limited to the Capacity for the following Day on hourly basis.

(b) Energy Availability Confirmation: Upon receipt of Despatch Instruction from KESC (which Despatch Instruction shall show separately a request for reasonably required electric power from NTDC but limited to the Capacity). NPCC (which shall be deemed to always be acting on behalf of NTDC) shall confirm the availability thereof by 1400 hours with NTDC on the following day.

From the above it is clear that KESC can only purchase power from NTDC once all its available capacity is exhausted. The spirit of this provision was only to meet the electricity demand of K-Electric and not to provide costlier Generated electricity to K-Electric at a cheaper rate while burdening the consumers of XWDISCOs.

NEPRA was supposed to approve the Power Purchase Agreement executed between NTDC and KESC after its clause-by-clause due

diligence and after consultation with the Stakeholders under the provisions of the Interim Power Procurement Regulations, 2005 but the PPA was neither approved as provided in IPPR nor notified. It is surprising that while approving the Tariff and PPA of very small Generation companies (Plants commissioned as NCPPs), NEPRA conducted more than one hearing and modified even the mutually signed agreement between DISCOs and the NCPPs and after its approval the same was notified in the official Gazette: why this exercise was not adopted in the case of K-Electric is not understandable. Further, NEPRA was required to monitor the economic impact of this decision from the very first month of its execution but unfortunately NEPRA did not make efforts in the beginning and resultantly billions of rupees of Pakistan and of Pakistani electricity consumers have been lost and drained (still draining) after benefitting K-Electric alone at the cost of other Stakeholders.

H) Underutilization of Generation Power Plants in K-Electric

System: K-Electric maintains an independent Generation Basket which comprises the KESC's own dual fuel (RFO and Gas) Power Plants, Gas Fuel Power Plants, RFO based IPPs exclusive for KESC, small Generation Power Plants like KANUPP, Steel Mills, IIL etc. A month-wise Generation data sheet has been compiled and from the compiled data it emerges that the Generation Power Plants available in the KESC system, own as well as IPPs, were not utilized to their full capacity despite the fact that demand was available in the System. The compiled data-sheet is attached for review and

correction by K-Electric and NEPRA; we will appreciate if the sheets, after their correction wherever needed, are returned to us for our record.

It is more surprising that while not utilizing the Power Generation capacities to their full capacity, KESC was continuously drawing power to the extent of 650 MW from the NTDC system. Although the existing arrangement of Power supply from NTDC system to K-Electric is not at all prudent, but if at all it is necessary for NTDC to supply electricity to KESC then for Economic Despatch of Power Plants operating in Pakistan it is necessary to have only one Generation Basket in the country and the operation of the Power Plants of K-Electric should also be placed in the Basket of NTDC in order to operate these Plants as per their Economic Merit Order.

It is important to mention that in 2009 KESC was fined for Rs. 300,000 (maximum fine of that time) by NEPRA vide its order No. NEPRA/R/LAG-05/10046 dated 13.10.2009 on the charge of under-utilization of its own as well as IPP Power Plants available in its system. The details can be read in para 11.2.1 to 11.2.11 of the referred order.

While imposing the fine on under-utilization of the Power Generation Capacity, it was further directed by NEPRA that "If KESCL continues with the practice of reducing or underutilizing its generation capacity from IPPs strict punitive action will be taken against it in future." However, from the compiled data-sheet it is clear that KESC did not bother to follow NEPRA's instructions and

continues to underutilize not only its own Power Plants but it also did not utilize the IPPs Power Plants to their full capacity. On the other hand, for reasons best known to it, NEPRA remained silent and did not bother to monitor its own direction of 2009, the violation of which is causing loss of billions of rupees to the economy and electricity consumers.

It is also a known fact that not only the Stakeholders but two of the then members of the Authority, namely Mr. Maqbool Ahmed Khawaja and Mr. Shaukat Ali Kundi, through their Dissenting Notes given in the decision of Monthly and Quarterly Adjustments, kept agitating the underutilizing of the Power Plants by KESC. However, three out of the five Members, by over-ruling the comments of the Stakeholders and the two Members of the NEPRA Authority and ignoring the violation of their own directions by KESC, kept allowing the Adjustments to KESC. Dissenting Notes of the two Authority Members during the period 2010 to 2013, are given in the Decisions of the Authority listed below and available on NEPRA's website:

NEPRA/TRF-133/KESCL-2009/4428 dated June 4, 2010;

NEPRA/TRF-133/KESCL-2009/5017-5020 dated June 30, 2010;

NEPRA/TRF-133/KESCL-2009/3314-3317 dated October 28, 2010;

NEPRA/TRF-133/KESCL-2009/3911-3914 dated November 15, 2010;

NEPRA/TRF-133/KESCL-2009/4240-4243 dated December 3, 2010;

NEPRA/TRF-133/KESCL-2009/4525-4528 dated December 15, 2010;

NEPRA/TRF-133/KESCL-2009/4771-4774 dated December 27, 2010;

NEPRA/TRF-133/KESCL-2009/161-164 dated January 13, 2011;

NEPRA/TRF-133/KESCL-2009/935-938 dated February 15, 2011;
NEPRA/TRF-133/KESCL-2009/2889-2992 dated April 19, 2011;
NEPRA/TRF-133/KESCL-2009/3180-3183 dated May 3, 2011;
NEPRA/TRF-133/KESCL-2009/4836-39 dated June 30, 2011;
NEPRA/TRF-133/KESCL-2009/4829-4832 dated June 30, 2011;
NEPRA/TRF-133/KESCL-2009/7909-7912 dated September 8, 2011;
NEPRA/TRF-133/KESCL-2009/9787-9790 dated October 17, 2011;
NEPRA/TRF-133/KESCL-2009/4134-4137 dated May 02, 2012;
NEPRA/TRF-133/KESCL-2009/4759-4762 dated May 26, 2012;
NEPRA/TRF-133/KESCL-2009/6988-6991 dated August 8, 2012;
NEPRA/TRF-133/KESCL-2009/5143-5147 dated May 29, 2013.

From the above it is clear that in this matter also NEPRA allowed K-Electric to get away with non-prudent utility practices and did not take any action for a long time. And after a long time, when it did take some action to save its skin, NEPRA did not observe the due legal process. Resultantly, it gave an opportunity to KESC to challenge the Decisions of NEPRA before the Honorable Courts and to get interim Orders against legally flawed Decisions of NEPRA. It is also unfortunate that in such complex matters no one is assisting the Courts in a proper manner to get the cases decided and K-Electric is reaping the benefit of the situation at the cost of its' consumers. It is important that in 2009 KESC paid the fine imposed by NEPRA on underutilization.

It has been learnt that in the case of underutilization NEPRA took note of the underutilization in later years i.e. in the year 2013. It

monitored its direction for the first time after 4 years. However, as stated above, Decisions of the NEPRA are challenged and K-Electric succeeds in obtaining Injunctive orders against the Decisions of the Authority due to legally flawed Decisions of the Authority. As no stakes of NEPRA are involved, NEPRA is not making due efforts to get the final order from the Honorable Court. Since this situation is in favor of K-Electric, it is enjoying the fruit of the situation due to non-performance of NEPRA and at the cost of consumers and the National economy.

I) Operation of Power Plants on Open Cycle Mode: K-Electric replaced its Korangi and Site Gas Turbines with small Gas Engines and also replaced its KTPS Power Plant with 220 Korangi Combined Cycle Power Plant. These Gas-based Power Plants, with a cumulative capacity of around 300MW, were kept running on Open Cycle Mode for a period of around six years. Operation of Gas-based Power Plants using pipeline quality Gas as Fuel on Open Cycle Mode is nothing but a National crime, specially in a country where electricity is short of the demand and is more expensive than in the Region. Operation of Power Plants on Open Cycle Mode for around six years means that K-Electric kept wasting 45 MW, Fuel free electric Power, due to its ill-planning or K-Electric did not give importance to the larger and greater National and consumers' interest against its smaller private interest.

It is surprising to note that while approving the Tariff and PPA of very small Generation companies (Plants commissioned as NCPPs), taking note of the operation of the small capacity Power Plants

(NCPs), NEPRA gave a clear time-line of a maximum of 9 months to convert their Open Cycle Power Plants to Combined Cycle. In its Decision, NEPRA clearly mentioned that the Tariff for these Open Cycle small Power Plants, after the given time span, will automatically convert into the Tariff of Power Plants operating in Combined Cycle Mode irrespective of whether the Power Plants converted into a Combined Cycle mode or not. However, why NEPRA was not vigilant on this issue in the case of K-Electric defies understanding.

J) Non-Installation of Time of Use (TOU) Meters and Billing as per TOU Meters by K-Electric in violation of the Authority's

Decision: It is mentioned in Para 23.5 of the Authority's Determination NEPRA/TRF-133/KESC-2009/1330-1333 dated December 23, 2009 that the provision of TOU Tariff for consumers having load in excess of 5 KW as provided in the case of other DISCOs, is not available under the existing schedule of Tariff and terms and conditions of supply of KESCL to its residential, commercial, small industrial, bulk-supply and Agricultural consumers. And vide Para 23.7 the Authority gave its decision that "In view of the above, the Authority has decided to modify the existing terms and condition of supply as per petitioner's request as well as revised schedule of tariff attached herewith Annexure-E and Annexure-F respectively."

Under Annexure E attached to the Authority's Determination of December 23, 2009 it is stated under almost each category of consumers (A-1, A-2, B-1, B-2, B-3, B-4, C-1, C-2, C-3, D-1) that "

All existing consumers having sanctioned load of 5 KW and above shall be provided ToU metering arrangement and converted to A-1(b) Tariff by the Company no later than June 30, 2011. Till such time they will be billed under tariff A-1(a). " " All new consumers having sanctioned load of 5 KW and above shall be provided ToU metering arrangement with effect from 1st January 2010 and shall be billed on the basis of tariff A-1(b) as set out in the Schedule of Tariff'.

KESC filed Motion for Leave for Review against the Decision of the Authority vide its letter No. DDRA&SP/ET040/ dated January 5, 2010 and on ToU metering it stated that "At present KESC has no ToU metering arrangement for any of its consumers, whereas per new tariff structure, almost all existing consumers, having sanctioned load of 5 KW and above, shall be provided ToU metering by June 30, 2011. Whereas all new consumers having sanctioned load of 5 KW and above shall be provided ToU metering with effect from 1st Jan, 2010.

Ground of review

KESC has over 2 million consumers, with about 40% having load of 5 KW and above. Conversion of these consumers on ToU metering involve lengthy procedures, requires meters, material and manpower. KESC in its submission of Terms and conditions of the Authority, in December, 16 2008, had proposed the completion of said process by June 30, 2013. It is therefore requested that the time for conversion for all consumers, having load of 5 KW and

above, on ToU metering, may be enhanced to June 30, 2014. Accordingly the date for providing ToU metering to new consumers may be enhanced from January 2010 to July 2010."

In its decision issued vide No. NEPRA/R/TRF-133/ KESC-2009/3097-3100 dated October 15, 2010 against the above stated Motion for Leave for Review submitted by KESC, under para 31, the Authority decided that "The Authority has, therefore decided to accept KESCL request for extension in time limit for provision of ToU meters and other suggested amendments, wherever required, in the existing terms and conditions of KESCL as approved and attached herewith as Annexure-I".

It is unfortunate that even after the lapse of almost five years, KESC has not been able to provide ToU metering to its consumers. This simply means consumers of K-Electric are being discriminated against and KESC is getting advantages and benefit out of it. But the Regulator is silent on this violation, for reasons best known to it.

K) In-efficient burning of Gas in Power Plants: One of the prime objectives of the privatization of KESC was to bring economic and technical efficiency. However, it is observed that in most of the cases while making its decisions NEPRA did not consider the economic aspects. Most of the cases decided by NEPRA are based on financial analysis which is obviously not in the larger interest of the country's economy. The Modifications approved by NEPRA in the Generation License of KESC were not technically, economically

and contractually justified and thus not only are these causing huge loss now but in the next 20-25 years these Modifications will give enormous loss to the economy.

Notwithstanding the comments which have already been submitted before NEPRA on the issue of induction of in-efficient Power Plants not only by us but by other stakeholders as well, it is noted that K-Electric is burning Gas in inefficient Power Plants in its existing Generation fleet leaving the efficient Power Plants to operate to their partial capacity. All Stakeholders know that K-Electric must be having its reasons in doing so but NEPRA is supposed to monitor whether the factors due to which K-Electric is burning the scarce Pipeline quality Gas in-efficiently are beyond control and have no engineering and technical solution or the problem can be fixed by some engineering solution. The burning of Gas in BQPS-I Power Plants really defies understanding.

It is important to note that K-Electric is using Pipe line quality Gas in BQPS-I Power Plant which only has an efficiency of around 31% while not using its more efficient (36 - 51%) Gas Power Plants. Why NEPRA has not taken any action on the in-efficient burning of Pipeline quality Gas in K-Electric Power Plants must be known to it but this silence of NEPRA is causing huge financial loss to Pakistan and the electricity consumers of K-Electric.

L) Accounting of Gas and Oil Generated units in dual fuel Power Plant which are burning both fuels simultaneously: It is relevant to mention that electricity is generated through BQPS-I

Power Plants by using RFO and Gas fuel simultaneously. It is difficult to segregate the Units generated by using Gas fuel from those generated by RFO fuel. In the past NEPRA itself conducted a study with regard to the swindling of oil of billions of rupees in the Power Plants of GENCOs which were Generating electricity by simultaneously using RFO and Gas fuel in Boilers. Accounting of Units generated on Gas and Oil in dual fuel fired Boilers carries a huge financial impact. This issue gains more importance in the case of a Vertically Integrated Utility, like K-Electric, where all functions are in the hands of one Company. Furthermore, the Company is buying oil from Byco, which also has a common business relationship and interest. Unfortunately NEPRA never made any effort to check this aspect despite the requests of the Stakeholders for technical and engineering audits.

- M) **Non-approval of Heat Rates on newly inducted Power Plants in the K-Electric System:** It needs to be noted that NEPRA has not approved and notified the Heat Rates of K-Electric's new Power Plants despite the fact that NEPRA, vide the order of its Tariff Determination given in December 2009, clearly mentioned that KESCL shall not be allowed any Adjustment in Tariff on account of Fuel price variation till the approval of Heat Rates of such Power Plants. It is also a known fact that the issue of the operation of K-Electric's Power Plants without observing the Economic Merit Order was not only being highlighted by the Stakeholders but also by the Members of the Authority but even after the lapse of many years the matter is still unresolved. NEPRA has neither approved the

Heat Rate nor could establish that K-Electric is operating its Power Plants as per Economic Merit Order. However, as an adhoc arrangement, the Authority kept on granting its Provisional approval in Adjustment cases of K-Electric.

N) Non Approval of the Authority for Power Acquisition for Purchases from External Sources: Vide its Tariff Determination given in December 2009 NEPRA directed KESCL to obtain approval of the Authority for Power Acquisition along with the agreed rate and other terms and conditions for purchases from external sources. It is important to note that the Tariff of all Generation Companies, after approval by NEPRA, is notified in the Gazette of Pakistan either in the form of Tariff Determination or Power Acquisition Request but in cases of K-Electric system the approval and notification of Tariff for purchases from external sources like KANUPP, Pakistan Steel, IIL, Anoud etc. are not available on NEPRA's website. Why NEPRA is choosing to ignore it must be known to NEPRA. It is a legal provision of NEPRA Tariff (Standards & Procedure) Rules that a Licensee can charge only such Tariff which is published in the official Gazette.

O) Non Payment of profit on Security Deposit: Prior to its privatization and even post-Privatization till 2012, KESCL kept on paying interest at the rate of 5% on Security Deposit amounts but since 2012 it discontinued this practice. NEPRA was informed about this fact but helpless consumers could not get justice from it.

P) Collective Punishment to Electricity Consumers in the name of Load Shedding: KEL classified its distribution area on the basis of technical and administrative losses; the areas are classified on the basis of incurring of losses i.e. Low Loss, Medium Loss, High Loss and Very High Loss. KEL has adopted a self-made policy for load shedding which is based upon the rate of loss incurred. It is a known fact that in the areas where KEL is facing losses, all the consumers are not involved in electricity theft. In even High Loss areas more than 50% consumers of electricity used to get the electricity honestly and were paying their electricity bills regularly. In case some electricity consumers are involved in electricity theft it is the duty of KEL and the Government to deal with those thieves as per law: but punishing the law-abiding citizens, who are in a majority due to some people who are in a minority, is illegal and a violation of the Constitution of Pakistan. It is the worst form of 'Ghunda Gardi' by the Utility. KEL has sufficient installed Capacity and ideally their electricity consumers should not be subjected to load shedding. In case, at some point of time, KEL has to shed the load then it should observe the load-shedding as per the criteria given in NEPRA's Rules. This issue was raised before NEPRA several times but NEPRA did not bother to take action against this illegality. Reasons for not taking any action against this illegality must be best known to NEPRA.

Q) Collection of Rs. 8 per month per consumer by K-Electric in the name of Bank Collection Charges: KEL was given Multiyear Tariff in 2002. Prior to this Multiyear Tariff KEL was collecting

Bank Charges @ Rs.2/- from its consumers. While determining MYT, NEPRA therefore merged these Bank Charges in the base Tariff, which is subject to indexation. Thereafter KEL was not charging any amount in the name of Bank Charges.

In July 2010 NEPRA allowed KEL to collect Bank Collection Charges @ Rs. 8/- per month per consumer, for reasons best known to NEPRA.

The Stakeholders kept agitating before NEPRA against the illegal collection of these Bank Charges by K-Electric. NEPRA again initiated formal proceedings on this issue of Bank Charges in 2013 and after taking two years NEPRA gave its decision in March 2015. In the meantime K-Electric kept on collecting these illegal Bank Charges from their consumers. In the 2015 decision, NEPRA mentioned that the approval of NEPRA for allowing Bank Collection Charges was made incorrectly for the reason that KEL concealed the facts at that point of time. In its decision of 13.03.2015 NEPRA mentioned that the permitted amount of Rs. 2/- in 2002-03 under the head of O&M Cost as Bank Collection Charge expense reached to Rs.6.23/- in 2013-14 due to indexation mechanism. In its decision NEPRA not only stopped KEL to charge Rs. 8/- as Bank Collection Charges from its consumers but also directed for intimation of the amount which KEL had collected (in duplicate) from its consumers on account of Bank Collection Charges @ Rs. 8/- since 2006, for its adjustment and refund.

K-Electric filed Motion for Leave for Review against the Decision of the Authority in April 2015 which was decided by the Authority on October 27, 2015 i.e. after taking more than 6 months. NEPRA dismissed the Review Petition. The Decision of NEPRA is available on its website. But again the consumers have not been able to get relief on this account.

It is a serious finding of NEPRA that K-Electric has concealed material facts. This attitude of the Utility, which is providing an essential service to the millions of consumers, the cost of which is in billions of rupees is very serious and requires strong monitoring from the Regulator.

In the past K-Electric was also found involved in such cases; in 2011, K-Electric by misinterpreting the Fuel Charge Adjustment Notification had over-recovered from its consumers on account of monthly Fuel Charges Adjustments for the months the July 2009 to March 2010 and had reimbursed the over-recovered amount upon the Authority's Directive issued vide letter TCD 09/627-28 dated 01.02.2011.

R) Charging of Meter Rent by K-Electric: During Hearings the Stakeholders kept on agitating the issue of charging of Meter Rent by K-Electric. However, NEPRA has initiated its proceeding in this matter in June 2013 and announced its Decision in January 2015. The Decision is available on NEPRA's website. It is matter of concern that NEPRA took 18 months to decide this issue. Through its decision NEPRA declared charging of Meter Rent unjustified and

ordered K-Electric not to charge it and to refund the amount which has been collected from the consumers on this account. Further, a fine of Rs. 10 million was also imposed on K-Electric. However, consumers of K-Electric have not been able to get the benefit of this order and as usual K-Electric did not accept this Decision of the Regulator like its other Decisions. This clearly shows that NEPRA does not have the capacity and capability to Regulate one K-Electric.

While making the argument in support of its judgment NEPRA argued that:

"KE was given multi-year tariff by the Authority in year 2002. As per spirit of multi-year tariff, the tariff was locked for certain period of time and during the locked period, KE cannot claim any other expense or charges, any other cost in any head to the consumer and it can only claim certain determined adjustments and variations as expressly provided in the multiyear tariff determination and its adjustment mechanisms. Further, KE, being a distribution licensee can charge only such rates, tariff and other charges as determined/approved by the Authority and notified in the official gazette."

"The investor at the time of privatization of KE, while carrying out the due diligence, was fully aware of the fact that the meter rent is the integral part of the revenue as such denial of this is against the rules of privatization."

Despite acknowledging these facts NEPRA not only opened the seven years' locked tariff midway but also extended the seven year period to 11 years. Further, NEPRA kept allowing KE various charges, rates etc. which were not there at the time of privatization.

Further, while giving the argument in support of its claim, KE also argued that "The meter rent is recovered from the consumers as cost for replacement of meter which is charged after a certain period of time as per utility practice. The cost of replacement is borne by KE, in compliance with Consumer Service manual, and not charged to the consumers. Currently, the TOU meters are also being replaced by KE, without recovering cost from the consumers."

Despite the above statement KE failed to provide TOU metering facilities to their consumers while consumers all over country are enjoying TOU meter rates.

S) Supply of Electricity to Consumers through hook connection instead of providing regular electric connection: The issue of provision of electric supply through hook, un-metered connection instead of providing regular metered connection was agitated before NEPRA by various stakeholders during hearings since 2012-13. Again after long processing of the case NEPRA gave its direction in 2014. Again in this case, K-Electric did not accept this direction of the Regulator NEPRA, and got an injunctive order from the Sind High Court. The injunctive/Stay orders from the Sindh High Court against the decisions of a quasi-judicial Authority clearly shows poor processing of the case while making decision in NEPRA and

non-follow-up of the cases before Courts. This attitude of NEPRA may be due to the fact that in these cases NEPRA does not have a stake, rather the consumers of K-Electric are facing the adverse effects of NEPRA's legally flawed Decisions. This clearly shows that NEPRA does not have the capacity and capability to Regulate just one K-Electric.

T) Audit of Rs. 10.10 billion given by the Government of Pakistan to K-Electric under Financial Improvement Plan and US\$ 361 million which K-Electric had to invest as per the Agreement:

The Stakeholders kept agitating before NEPRA during Public Hearings about the approval of NEPRA on Investment Plan and the implementation of the Approved Plan by K-Electric. This was also an issue on which KESC was fined in 2009 and it K-Electric was directed to place its detailed Investment Plan and implementation status on its' website. But consumers of K-Electric have not been able to see the NEPRA approved Investment Plan on either the NEPRA or the K-Electric website. Investment of K-Electric and utilization of FIP amount by K-Electric on the Projects which did not have prior approval of NEPRA is not legally justified as such spending may not be prudent.

U) Addition of 1000 MW Generation Capacity by K-Electric as per Agreement: K-Electric was required to add 1000 MW Generation capacity in its system as per the Implementation Agreement. The total installed capacity of K-Electric at the time of Privatization was 1801 MW and as of now i.e. in January 2016 it is 1874.79 MW. This means the net addition in K-Electric generation system is of

73.79 MW instead of the required addition of 1000 MW. Although K-Electric has commissioned new Power Plants of 1034 MW but after decommissioning, leasing out and replacement the net addition in generation capacity of K-Electric's own Generation facility is only 73.79 MW. Further, it is noted that K-Electric added all its new Power Plants with Gas as their primary Fuel despite the fact that it does not have any firm Gas Supply Agreement. In this way this addition may be considered as an imprudent addition.

V) Induction of comparative in-efficient Gas Power Plant by K-Electric in its generation System: K-Electric replaced its old Gas Turbines installed at Korangi and Site Power Stations with smaller Gas engines of 3.2 MW capacity each. These engines are using Pipeline quality Gas as their fuel. The efficiency of these Plants is in the range of 36%. The induction of 36% efficiency Power Plants operating on Gas having calorific value in the range of above 900, in the year 2010, is criminal. These smaller engines are not even suitable for a big Utility like K-Electric. It is surprising how NEPRA has allowed K-Electric to install these Plants in its Generation system. It needs to be noted that in 2010, the Gas-based Power Plants having efficiency in the range of 58-60% were available in the electric Power Market and even the Gas-based Power Plants which NEPRA allowed in 2005-06 had an efficiency in the range of 51.2%.

K-Electric also added a 220MW Gas-based Power Plant at Korangi which has efficiency in the range of 41%. The induction of 41% efficiency Power Plant operating on Gas having calorific value in the

range of above 900, in the year 2010, is criminal. It is again surprising how NEPRA has allowed K-Electric to install these Plants in its Generation system. It needs to be noted that in 2010, the Gas-based Power Plants having efficiency in the range of 58-60% were available in the electric power market and even the Gas-based Power Plants which NEPRA allowed in 2005-06 had an efficiency in the range of 51.2%.

The efficiency of the latest 560 MW Power Plant which was inducted in the K-Electric Generation fleet during 2013-14 is also low as compared to the Gas based Power Plants which were available in the electric Power Market at that point in time.

Due to un-economic selection and induction of these in-efficient machines, for the next 25-30 years Pakistan will remain deprived of extra MWs which could have been available in the country, without using any extra fuel, if more efficient machines had been inducted in the system. Why inefficient machines were selected is another question which NEPRA as well as K-Electric need to answer.

W) Non acceptance of Claw-back mechanism given in the

Determination: The Determination of K-Electric provides a mechanism for the sharing of profit, which K-Electric earned, with its consumers. With all the above favors K-Electric started earning profits in 2011-12 but did not want to share the profit with its consumers as per the given Claw-back mechanism given in the Determination. K-Electric in this case also filed a Petition in the Sindh High Court and the case is pending before the Court. In fact,

due to the 650 MW being taken from NTDC, which in actual fact is from the consumers of XWDISCOs, NTDC ought to be claiming a share in the profits of K-Electric on the same basis as the consumers of K-Electric and passing it on to the consumers of XWDISCOs.

X) Overbilling Issue in K-Electric: Upon a leaked E-mail a news item was published in newspapers of September 2012 regarding over-billing of 50 units to all category of consumers in the K-Electric system. Further, the Supreme Court of Pakistan also referred the case of over-billing to NEPRA. Vide its decision dated 12.06.2014 issued in the matter of six complaints referred by to it by the Human Rights Cell, Supreme Court of Pakistan against KESC regarding Bogus/Assessed/Average/Theft billing by KESC, NEPRA held that the Management of KESC was involved in a plan of over-billing. It was also noted by the Authority that K-Electric was issuing the detection bills without observing the codal formalities. A detailed thirteen page Decision is available on NEPRA's website. K-Electric, as usual, again approached the Sindh High Court in this matter. K-Electric consumers are still looking for the final decision.

Y) Over-Charging from three consumer categories by K-Electric due to the fault of NEPRA: The Mechanism for Quarterly Adjustment was approved in the Tariff Determination of NEPRA dated 23 December 2009. As per the Mechanism, Quarterly Adjustments for the period from July 2009 to March 30, 2010 were made by NEPRA vide its Decision dated June 30, 2010. Through this decision K-Electric was allowed Rs. 2.79/kWh uniform

increase for all categories of consumers except life line consumers. However, it was noted by NEPRA in 2012 that three categories of consumers were erroneously adjusted on the higher side while one category was adjusted on lower side. The detail of this is given below:

Tariff Categories	Adjustment that should have been made	Erroneous Adjustment made	Consumers over/under charged by K-Electric
A1-Residential 1-100 units	2.79	3.33	Over charged by 54 paisas
A1-Residential 101-300 units	2.79	2.99	Over charged by 20 paisas
A1-Residential 301-700 units	2.79	3.19	Over charged by 40 paisas
D1-Agriculture	2.79	2.67	Under charged by 12 paisas

The above over/under charging was continued without any notice from July 2009 to January-March 2012. A corrigendum was issued by NEPRA on 20.11.2012 to rectify this error which was in favor of K-Electric but K-Electric, as usual, approached the Sindh High Court against the legally flawed Decision of the quasi-judicial Authority and is still getting the benefit of NEPRA's error.

Z) Disconnection of electricity connection of Industrial Consumers by K-Electric on account of under-utilization of sanctioned load: It is surprising that K-Electric on one hand is under-utilizing its Power Plants despite the load demand in its system, but to the contrary it was disconnecting the electricity of those industrial consumers which were under-utilizing the electricity vis-à-vis their sanctioned load. Industrial consumers submitted their complaint before NEPRA during the Hearing in March 2012. Vide its order dated March 12, 2012 the Authority restrained K-Electric from disconnecting electricity connections on account of the above reason. K-Electric, as usual, again went to the Sindh High Court against this decision of NEPRA.

It is important to state that we have requested NEPRA more than once to provide the list of Writ Petitions which K-Electric has filed against the Decisions of the Authority but it is not clear why NEPRA is reluctant to provide even this information. In fact NEPRA should place a list of all litigation against it in a separate section on its otherwise well-maintained website.

AA) Failure of K-Electric to maintain the laid down standards of SAIFI, SAIDI and Overall Standard: NEPRA has passed an order against K-Electric vide its letter NEPRA/R/SA(Tech)/ LAD-01/14609 dated October 5, 2015 and imposed a fine of Rs. five million for non maintaining the SAIFI, SAIDI and overall Standard but consumers of K-Electric did not know about the deposit of the fine amount by K-Electric.

AB) Replacement of Copper Conductor by Aluminum Conductor:

The issue of replacement of Copper with Aluminum Conductor is being agitated by various Stakeholders for the last many months during the Hearings. It is a known fact that the Conductor used in K-Electric Distribution system was made of copper. The reason for using copper Conductor was that it is the best Conductor after Silver: with the same weight and size the current-carrying capacity of the copper Conductor is more and on top of it all, its life in coastal areas is more than the Aluminum Conductor. In a city like Karachi, where load is concentrated, the use of the copper Conductor is recommended. Furthermore, it is also a known fact that market price of even the old copper Conductor is more than three times that of the new aluminum Conductor. The reason for removing the copper Conductor and using aluminum Conductor in its place in the Distribution system is perfectly understandable to all save NEPRA.

AC) Death of more than 1200 people in the Karachi heat-wave coupled with load-shedding:

In the hot summer days of 2015 more than 1200 people lost their life within 2 to 3 days due to the heat-wave coupled with the heavy load-shedding in the city of Karachi. NEPRA initiated the enquiry in this matter and notified a Fact Finding Committee. Unfortunately, after the lapse of 6 to 7 months of the incident, the Report of NEPRA on this issue has not yet come in the public. It was predicted in one news article that the summer of 2016 will be warmer than 2015; therefore, it is

necessary to make the Fact Finding Report of NEPRA public so that the required steps are taken before time to avoid loss of human life.

AD) Permission to K-Electric to lease its two Units of Bin Qasim Power Plants, accumulated capacity of 421 MW to K-Energy for their conversion from RFO to coal fuel: NEPRA has approved the K-Electric-proposed Modification to lease out its almost 16/17 years old, in-efficient Power Plants to K-Energy for their conversion to Coal Fuel despite opposition of almost all Stakeholders. While making this decision, NEPRA was aware of the fact that the price of oil is at a much lower level, and as per Oil Market prediction, the prices will be in the lower range till at least 2020. NEPRA was also aware of the fact that several new efficient Coal-based Power Plants (3000-4000MW) are coming in the coastal area of Karachi. In this situation, the permission of NEPRA to K-Electric for this modification is quite strange. The economics of the NEPRA-decision needs to be made public as it has not been available in the public domain.

It is further surprising that NEPRA excluded the 420 MW Generation capacity from the Generation License of K-Electric with effect from the date of Modification. This favor of NEPRA provided K-Electric an opportunity to claim/adjust its' installed capacity to a lower level. In this way, K-Electric will get itself absolved of the charges of under-utilization. It is worth noting that NEPRA, while approving the Coal Conversion cases of AES Lalpir, AES PakGen and Saba Power has clearly mentioned in its Decision that their Power Plant will remain available for dispatch during construction

period except for the last six months when the Complex will be completely shutdown.

AE) Induction of Rental Power Plants in K-Electric System:

Aggreko Rental Power Plant kept on supplying around 50 MW Power to K-Electric system during January 2009 to March 2011 without obtaining the Generation Licence and Tariff from NEPRA. NEPRA has not disclosed this fact before the Supreme Court of Pakistan when the Honorable Court was adjudicating the cases of Rental Power Plants in Pakistan. The cost of Electricity purchased from this RPP was higher than other comparable Gas Based Power Plants. Why NEPRA has not taken any action against K-Electric for this illegal activity is still a question to be replied by NEPRA. With regard to this issue NEPRA was quite aware but did not discharge its duties under the provisions of its Act, Rules and Regulations. A News item published in 'The Nation ' dated November 16, 2011 with regard to Aggreko is reproduced here which clearly shows the actions and inactions of each stakeholder including NEPRA:

“...NEPRA warns KESC of heavy fine - ISLAMABAD - Finding an alleged attempt of forgery, the National Electric Power Regulatory Authority (NEPRA) has believed to warn the Karachi Electric Supply Company (KESC) of serious consequence if the same is repeated in future, The Nation learnt reliably. NEPRA further directed to hush up the matter and warned not to indulge in similar nature of matter in future, sources said on Tuesday.

'NEPRA has taken serious notice over hefty forgery attempt of KESC under the head Rental Service Charges (RSC), sources said adding that though agreement of Karachi City first rental Power Plant with Aggreko Rental Power Plant was expired in March but the KESC in its desperate bid had tried to get approve worth of Rs 5 crore and forty lakh from the authority. They were of the opinion that NEPRA has secured the hard-pressed power consumers by not approving hefty charges of Aggreko Rental Power Plant in a Karachi Electric Supply Company's desperate bid where it has ultimately faced the music by the authority.

The NEPRA while reprimanding the KESC has further denied giving go ahead to the above said extra burden (RSC) of millions of rupees for the month of April to over-burdened power consumers, sources added.

It was also learnt that NEPRA has warned the KESC of heavy fines and punishment if the same nature of forgery is done in future. Electricity had been purchased on Rs15 and 40 Paisa per unit from the Aggreko Rental Power Plant though tariff for other rental Power Plants run on gas was decided at Rs5 to 6. Sources have further informed that no international competitive bidding was done in 2008 viewing the acute shortage of electricity in the metropolitan city of Karachi.

Available documents with The Nation have further confirmed the info and also disclosed that the KESC had attempted to approve Rs5 crore and forty lakh from the authority under the head RSC for the month of April to add salt to the hard pressed power consumers though no electricity was produced in that month to meet the growing power needs after the expiry of agreement with Aggreko Rental Power Plant. NEPRA has taken severe notice of this hefty forgery and warned of heavy punishment/fines if same is repeated in future.

It is relevant to note that 50MW Aggreko Rental Power Plant was installed by the Karachi Electric Supply Company in Haroonabad site in 2009 and Sindh Chief Minister Qaim Ali Shah inaugurated it.

This rental plant has provided some 679MW electricity till March 2011.

In 2008-09 only 163MW and in 2009-10, some 358MW and in 2010-11, only 158MW electricity could be produced."

AF) Receiving heavy amount of Subsidy from Government of Pakistan:

Although no record is available in the public domain as to how much subsidy has been given by the Government of Pakistan to K-Electric since 2005, after its Privatization, however it is learnt that

the amount of subsidy given to K-Electric by GoP is the highest amongst all the DISCOs. It is also learnt that the amount of subsidy given by GOP to K-Electric is almost equal to the total cumulative amount of subsidies claimed by all the DISCOs together. Has NEPRA carried out any audit of the subsidy amount? The year-wise subsidy given to K-Electric prior and post-Privatization should be available in the public domain.

AG) Uniform Electricity Tariff for end-consumers across the Country:

The Government of Pakistan adopted a policy of uniform Electricity Tariff for end-consumers across the country. K-Electric is also getting a huge subsidy amount from GOP under the garb of this uniform Tariff. In actual fact, there are some fundamental differences in K-Electric and XWDISCOs system (independent Generation Basket, different Fuel Price Adjustment mechanism and non-application of TOU Tariff by K-Electric) due to which the Electricity Bill which consumers of K-Electric and XWDISCOs are paying are not uniform.

K-Electric maintains its own Generation Basket which comprises Electricity from its own Generation Facilities and also from the Power Purchases. This means that in Pakistan there are two Generation Baskets working independently of each other and that too without considering the economics of Electricity Generation in each other's systems. The Electricity Generation in K-Electric's own Generation system is dominated by Gas Fuel after its comparative

in-efficient burning. Thus, based on the stated reasons and a different Fuel Price Adjustment Mechanism in XWDISCOs and K-Electric systems, the per Unit Adjustment in consumers' bills of K-Electric and XWDISCOs on account of Monthly Fuel Charges Adjustment is different. This means that effectively the per Unit cost of electricity being paid by K-Electric and XWDISCOs' consumers is different even if their notified Tariff be the same. The monthly Fuel Charges Adjustment (Rs./kWh) for 7 to 8 months for K-Electric and XWDISCOs consumers as determined by NEPRA is compiled below for understanding the issue:

	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov.
FCA for K-Electric Consumers (Rs./kWh)	0.250	(0.240)	0.03	(0.7796)	(0.9154)	(0.1167)	(0.56)	
FCA for XWDISCOs Consumers (Rs./kWh)	(1.8613)	(2.6872)	(2.1974)	(2.1374)	(2.6016)	(2.8800)	(1.8147)	(2.0657)

Due to non-installation and non application of TOU rates, the Electricity Bills of K- Electric and XWDISCOs being paid by their consumers are not effectively uniform even if their notified Tariff be the same.

It is important to mention that K-Electric is the only Vertically Integrated Utility in Pakistan and even more so is a Privatized

entity. One of the main purposes of Privatization was to get rid of subsidies and to bring efficiencies in the Utility to reduce the Electricity cost for end-consumers. In the case of K-Electric, after Privatization, the amount of subsidy from GoP to K-Electric increased manifold. In these circumstances what was the reason to privatize this Utility?

AH) Heavy Payable of K-Electric:

Various Stakeholders which are supplying Electricity or Fuel to K-Electric complained that K-Electric is not paying them in time goods/commodities for the supplied. The dispute on payment and timely payment between K-Electric and SSGC has been published in Newspapers several times. The delay in payment to IPPs was also the substance of a Show Cause Notice issued to K-Electric in 2009 by NEPRA. It is learnt that K-Electric's payables to SSGC are still in the range of Rs.58 billion. The story available on the website under the below stated caption also requires NEPRA to get details from its Licensee about its total payables:

"Rangers' report on SSGC-KESC affairs questioned by Govt dated October 01, 2015".

AI) The K-Electric story from loss to profit:

For an Electricity supplying Utility/Company, Transmission and Distribution Losses (T&D Losses) and recovery of its dues from Electricity consumers are two important factors which are responsible for the Company's profit and loss. In case of K-Electric

T&D losses of the Company are more than the target allowed to it and similarly the recovery is below 100%. Under these circumstances how has the company turned itself from losses to profit? All other Utilities in Pakistan and the Electricity consumers would like to know this secret as by implementing the same the other loss-making Companies can also pull their business from loss to profit.

AJ) Snap shot of meter reading on Consumers' Electricity Bills:

To avoid excessive billing and ensure accurate meter-reading, K-Electric and other DISCOs were directed to print on the bill snapshots of meter-reading, both previous and current. It was mentioned that the implementation of this direction of the Authority should not be later than 30th June 2015. Till date, like other Directions, this Direction of NEPRA has also not been complied with by K-Electric and its' consumers are still getting their Electricity bills without snapshots of the meter-reading. The above summary shows that NEPRA has again failed, for reasons best known to NEPRA alone, to get compliance of its' Direction from K-Electric.

AK) Purchase of Oil by K-Electric from Byco:

The Power Company's (K-Electric) Share Holders Association (SHA) has many times pointed out about the shady business deals between K-Electric and Byco—a sister company owned by the Power Utility's Abraaj-led Management. On several occasions during Hearings, SHA raised the following issues:

- K-Electric is purchasing oil from Byco which is a sister concern of K-Electric.
- The way of delivering oil on trucks by Byco to K-Electric is suspicious, as it is very easy to steal the oil and factiously increase the supplied quantity by anyone involved in the management of trucks.
- The K-Electric Management has caused an intentional loss of more than three billion rupees to the Company by purchasing 50MW Power from Aggreko, a Dubai-based company having a previous relationship with the Abraaj Group.
- The Tariff Adjustment on the basis of Fuel consumption is still unclear as there is no third party or NEPRA's representative to monitor or inspect how much Furnace oil is consumed at K-Electric's Power Plants. The Fuel adjustment is still being made on the basis of the data provided by K-Electric.

As usual NEPRA has not taken any serious action to investigate these allegations and has rejected the same. However, these charges need to be investigated in the light of the fact that K-Electric is producing Electricity from its Power Plants by using Gas and RFO Fuel in its Boilers simultaneously. It is a serious matter and needs to be confirmed how Gas and RFO based Generation is being segregated, specially when NEPRA itself carried out a study of

‘Swindling of Oil’ of more than Rs.30 billion in GENCOs on the same basis.

The earning of profit by the Company from loss, despite the higher T&D Losses and without 100% revenue recovery also demands that NEPRA look into the charges of SHA more seriously.

AL) Extending the date of Multi Year Tariff is favor to K-Electric:

Extending the date of MYT, and that too with several concessions and favors and without revising the T&D Losses and other Benchmarks to a further improved level, is a very serious matter. The story/news item on its legality, published in the ‘Express Tribune’ dated June 25, 2013, is interesting and is available on the website under the caption “[Government continues to level allegations against KESC: THE EXPRESS TRIBUNE](#) > [PUPAKISTAN](#) > [SINDH](#)”: By [Our Correspondent](#):

Published: June 25, 2013
[\(http://tribune.com.pk/story/568278/government-continues-to-level-allegations-against-kesc/\)](http://tribune.com.pk/story/568278/government-continues-to-level-allegations-against-kesc/)”

In addition to the above, the following are some News Articles and letters written by some responsible person(s)/organizations with a view to improve the situation but the Authorities sitting at the helm of affairs are not serious in taking the issues into consideration and want the situation to continue: this may either be due to their capacity or capability issues or for other reasons which they may know better.

9. NEPRA is requested to constitute an independent Commission comprising consultants and professionals of national and international repute to analyze the above highlighted and any other issues to prepare a first credible 'Lesson Learnt Report' on the Privatization of K-Electric. The Commission may also be empowered to order Forensic Audit wherever felt necessary. The issue of electricity is the backbone of the country's economy and for economic survival of Pakistan the proposed Commission and Report are essential. The Pakistani economy and citizens have already suffered a lot due to electric power issues in the country, hence, immediate orders of NEPRA are required in the matter.

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52. Daily Express Newspaper (26th June 2013) ([News](#))

51. Daily Express Newspaper (26th June 2013) ([News](#))

50. Daily Express Newspaper (26th June 2013) ([News](#))

49. Daily Express Newspaper (25th June 2013) ([News](#))

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47. Daily Jang Newspaper (21st June 2013) ([News](#))

46. Daily Jang Newspaper (19th June 2013) ([News](#))

45. Daily Dunya Newspaper News (14th June 2013) ([News](#))

44. TIP letter to Honorable Chief Justice of Pakistan Attn: Human Rights Cell: Sub: Prayer for taking SUO MOTO action against alleged collusion between NEPRA and IPPs on the fictitious loading of production cost by overcharging Rs 1,000 billion from consumers in last 10 years, and also causing artificial electricity shortage in Pakistan . (**27th April 2013**) ([Download](#))

43. TIP letter to Mr. Nayyer Hussain, CEO, KESC : Grievance against the karachi Electric Supply Corporation. (**10th April 2013**) ([Download](#))

42. Original Jurisdiction Human Rights case no 32686-S/2012 : The complaint of Illegal Amendment Agreement dated April 2009 with, KESC and Providing KESC illegal benefits over and above terms of Implementation Agreement dated 14th November 2005, and granting concessions of billions of rupees per annum to KESC at the cost of the exchequer. Bribing offer to Senator. (**25th March 2013**) ([Download](#))

41. TIP Letter to Chief Justice, Supreme Court of Pakistan: (Attn: Human Rights Cell) Prayer for taking SUO MOTO action against KESC on the allegation of Corruption committed by ministry of finance by doling out illegal benefits of above Rs 198 billion (Rs 66 billion annually) to M/S abraj of KESC. HR Case No. 36434-S/2012 - Default of Rs 271 Billions. (**19th March 2013**) ([Download](#))

40. Express Newspaper News :(26th February 2013) ([Download](#))

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35. TIP Letter to NEPRA Allegations of Corruption by NEPRA, AEDB & ZORLU Energy Pakistan Ltd by illegal increase in Tariff benefiting ZEPL guaranteed Rs. 7.5 Billion.(18th January 2013) ([Download](#))

34. TIP Letter to Chief Justice of Pakistan Supreme Court of Pakistan : Prayer for taking SUO MOTO action against KESC declared by PPP in Senate as Economic Terrorist', on the allegation of Corruption committed by Ministry of Finance by doing out illegal benefits of above Rs. 198 billion (Rs. 66 billion annually) to M/s Abraj of KESC. (11th October 2012) ([Download](#))

33. TIP Letter to Honourable Chief Justice Iftikhar Muhammad Chaudhry : Prayer for taking SUO MOTO action against KESC declared by PPP in Senate as Economic Terrorist', on the allegation of Corruption committed by Ministry of Finance by doing out illegal benefits of above Rs. 198 billion (Rs. 66 billion annually) to M/s Abraj of KESC - TIP Letter dated 17th September 2012. (24th September 2012) ([Download](#))

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- 25. Minutes of KESC. (11th November, 2011).** ([Download](#))
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- 19. KESC Shares Purchase Agreement & Amended Agreement.** ([Download](#))
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- 12. TIP Letter to SECP** : SECP to Investigate KESC Affairs. **(1st August, 2010)** ([Download](#))
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- 10. Securities and Exchange Commission of Pakistan** : Karachi Electric Supply Company Limited. **(4th September, 2009)** ([Download](#))
- 9. NEPRA Letter to TIP** : SECP to investigate KESC affairs . **(26th November, 2009)** ([Download](#))
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Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Habibullah											Dep. Cap. (MW)	129
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	99	94	80	51	34	18	19	20	22	17	32	
		Av. Unutilized Cap in MW throughout the Month	128	122	103	66	43	24	25	26	29	22	41	
	EPP - Gas	FCC (Rs/KWH)	5.70	5.70	5.70	5.81	5.81	5.81	5.75	5.81	5.81	5.81	4.99	
		VO&M (Rs/KWH)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.45	0.45	0.45	0.50	
		EPP (Rs/KWH)	6.21	6.21	6.21	6.31	6.31	6.31	6.26	6.26	6.26	6.26	5.50	
	2015	under utilization	Under utilization in %	69	52	58	28	20	19	25	23	27	36	37
Av. Unutilized Cap in MW throughout the Month			89	67	75	37	26	24	32	29	35	46	48	115
EPP - Gas		FCC (Rs/KWH)	3.98	3.98	3.98	3.98	3.98	3.98	4.79	4.79	5.76	4.80	5.70	5.70
		VO&M (Rs/KWH)	0.49	0.49	0.49	0.49	0.43	0.43	0.43	0.43	0.43	0.41	0.48	0.49
		EPP (Rs/KWH)	4.47	4.46	4.47	4.47	4.41	4.41	5.22	5.22	6.19	5.20	6.19	6.19
2014		under utilization	Under utilization in %	100	95	55	48	24	15	22	21	17	40	16
	Av. Unutilized Cap in MW throughout the Month		129	122	72	62	31	20	28	27	21	51	21	98
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	4.79	4.79	4.79	4.79	4.79	4.79	4.79	4.79	3.98	3.98	3.98
		VO&M (Rs/KWH)	#DIV/0!	0.48	0.49	0.49	0.44	0.44	0.43	0.43	0.42	0.42	0.42	0.42
		EPP (Rs/KWH)	#DIV/0!	5.27	5.29	5.29	5.23	5.23	5.22	5.22	5.22	4.40	4.40	4.40
	2013	under utilization	Under utilization in %	100	97	38	49	39	18	19	24	21	35	14
Av. Unutilized Cap in MW throughout the Month			129	125	49	63	51	23	24	31	27	46	19	55
EPP - Gas		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.79	4.79	5.25	4.79	4.79
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.41	0.00	0.38	0.46
		EPP (Rs/KWH)	5.24	5.24	5.24	5.24	5.24	5.19	5.20	5.20	5.20	5.25	5.17	5.25

		Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)												
		Fauji Kabirwala											Dep. Cap. (MW)	151
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	13	13	28	9								
		Av. Unutilized Cap in MW throughout the Month	19	19	43	14								
	EPP - Gas	FCC (Rs/KWH)	5.26	5.26	5.26	5.26								
		VO&M (Rs/KWH)	0.74	0.74	0.74	0.74								
		EPP (Rs/KWH)	6.00	6.00	6.00	6.00								
2015	under utilization	Under utilization in %	46	22	21	12	15	19	17	17	14	12	42	9
		Av. Unutilized Cap in MW throughout the Month	70	33	31	18	23	28	26	26	21	18	64	13
	EPP - Gas	FCC (Rs/KWH)	3.50	4.28	4.28	4.28	4.28	4.28	3.50	3.50	4.28	5.26	5.26	5.26
		VO&M (Rs/KWH)	0.72	0.72	0.72	0.72	0.72	0.72	0.72	1.44	0.72	0.72	0.72	0.72
		EPP (Rs/KWH)	4.23	5.00	5.00	5.00	5.00	5.00	4.22	4.94	5.00	5.97	5.97	5.97
2014	under utilization	Under utilization in %	1	19	5	11	12	12	12	13	16	21	53	53
		Av. Unutilized Cap in MW throughout the Month	2	29	7	17	18	18	17	19	24	32	80	80
	EPP - Gas	FCC (Rs/KWH)	3.53	3.53	3.53	3.67	3.67	3.90	3.90	4.54	3.90	3.50	3.50	3.50
		VO&M (Rs/KWH)	0.73	0.73	0.73	0.73	0.73	0.73	0.71	0.71	0.71	0.71	0.71	0.71
		EPP (Rs/KWH)	4.26	4.26	4.26	4.40	4.40	4.63	4.61	5.25	4.61	4.21	4.21	4.21
2013	under utilization	Under utilization in %	1	2	3	4	6	7	8	9	7	3	31	5
		Av. Unutilized Cap in MW throughout the Month	1	3	5	6	9	10	12	13	11	5	46	8
	EPP - Gas	FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	3.77	3.47	3.47	3.47
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.39	0.68	0.68	0.68
		EPP (Rs/KWH)	4.24	4.53	3.94	4.07	4.20	4.46	4.16	4.28	4.16	4.16	4.16	4.16

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Rousch											Dep. Cap. (MW)	395
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	16	62	31	0.12								
		Av. Unutilized Cap in MW throughout the Month	63	244	123	0.46								
	EPP - Gas	FCC (Rs/KWH)	7.85	6.99	4.98	5.05								
		VO&M (Rs/KWH)	0.28	0.37	0.28	0.28								
		EPP (Rs/KWH)	8.13	7.36	5.26	5.33								
	2015	under utilization	Under utilization in %	100	41	49	26	2	3	4	2	6	3	10
Av. Unutilized Cap in MW throughout the Month			395	161	193	102	8	13	16	8	24	12	39	102
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	4.09	4.09	4.09	4.93	4.93	4.93	4.93	8.24	7.61	7.06	7.37
		VO&M (Rs/KWH)	#DIV/0!	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
		EPP (Rs/KWH)	#DIV/0!	4.36	4.36	4.36	5.20	5.20	5.20	5.20	8.50	7.88	7.33	7.63
2014		under utilization	Under utilization in %	100	57	-8	0	3	6	2	5	3	2	11
	Av. Unutilized Cap in MW throughout the Month		395	227	-30	1	11	24	9	18	12	9	44	395
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	4.93	4.93	4.93	4.93	4.93	4.93	4.09	4.93	4.09	4.09	#DIV/0!
		VO&M (Rs/KWH)	#DIV/0!	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	#DIV/0!
		EPP (Rs/KWH)	#DIV/0!	5.20	5.20	5.20	5.20	5.20	5.19	4.35	5.19	4.35	4.35	#DIV/0!
	2013	under utilization	Under utilization in %	67	61	68	45	17	3	6	2	4	22	13
Av. Unutilized Cap in MW throughout the Month			264	241	269	177	66	12	24	8	17	86	51	155
EPP - Gas		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.03	4.09	3.87	4.09	4.09
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25
		EPP (Rs/KWH)	4.30	4.34	4.14	3.66	4.34	4.29	4.34	4.28	4.34	4.13	4.34	4.34

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		UCH-I											Dep. Cap. (MW)	551
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	14	17	9	2								
		Av. Unutilized Cap in MW throughout the Month	79	95	49	12								
	EPP - Gas	FCC (Rs/KWH)	2.71	2.76	2.69	2.67								
		VO&M (Rs/KWH)	0.24	0.24	0.24	0.24								
		EPP (Rs/KWH)	2.95	2.99	2.92	2.91								
2015	under utilization	Under utilization in %	8	19	6	11	9	8	10	9	7	54	13	0
		Av. Unutilized Cap in MW throughout the Month	45	106	35	61	51	46	56	52	36	296	71	2
	EPP - Gas	FCC (Rs/KWH)	2.58	2.67	2.57	2.60	2.58	2.59	2.62	2.61	2.61	2.12	2.64	2.58
		VO&M (Rs/KWH)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	1.02	0.23	0.23
		EPP (Rs/KWH)	2.81	2.90	2.80	2.83	2.81	2.82	2.84	2.84	2.84	3.15	2.87	2.81
2014	under utilization	Under utilization in %	-4	2	22	10	7	10	11	15	7	59	15	4
		Av. Unutilized Cap in MW throughout the Month	-25	11	119	53	39	56	61	80	41	326	83	22
	EPP - Gas	FCC (Rs/KWH)	2.64	2.70	2.75	2.70	2.68	2.70	2.54	2.56	2.54	2.33	2.57	2.52
		VO&M (Rs/KWH)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.87	0.23	0.23
		EPP (Rs/KWH)	2.87	2.93	2.98	2.93	2.91	2.93	2.77	2.78	2.77	3.21	2.80	2.74
2013	under utilization	Under utilization in %	5	4	4	7	15	6	7	8	6	28	27	4
		Av. Unutilized Cap in MW throughout the Month	29	23	23	37	85	35	41	45	34	156	150	23
	EPP - Gas	FCC (Rs/KWH)	2.70	0.00	0.00	0.00	0.00	0.00	0.00	2.72	2.54	2.84	2.75	2.52
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22
		EPP (Rs/KWH)	2.70	2.79	2.76	2.82	2.87	2.82	2.74	2.94	2.76	3.05	2.97	2.74

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Liberty													Dep. Cap. (MW)	212
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	24	60	55	15								
		Av. Unutilized Cap in MW throughout the Month	51	127	117	117								
	EPP - Gas	FCC (Rs/KWH)	6.76	7.21	7.38	5.50								
		VO&M (Rs/KWH)	0.33	0.65	0.33	0.56								
		EPP (Rs/KWH)	7.09	7.86	7.71	6.06								
	2015	under utilization	Under utilization in %	30	66	97	45	10	9	16	15	22	1	8
Av. Unutilized Cap in MW throughout the Month			64	139	206	95	22	20	35	32	46	2	17	-2
EPP - Gas		FCC (Rs/KWH)	11.05	14.05	143.23	11.39	10.62	10.52	6.39	6.38	6.38	6.23	7.02	6.99
		VO&M (Rs/KWH)	0.32	0.32	1.00	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
		EPP (Rs/KWH)	11.37	14.37	144.23	11.71	10.94	10.84	6.71	6.69	6.70	6.55	7.34	7.31
2014		under utilization	Under utilization in %	100	100	94	41	24	12	8	10	55	51	14
	Av. Unutilized Cap in MW throughout the Month		212	212	199	87	50	26	16	21	116	108	29	44
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	81.54	13.06	12.64	12.25	11.48	11.53	12.89	12.88	11.47	11.75
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	81.86	13.38	12.96	12.57	11.80	11.84	13.20	13.19	11.79	12.06
	2013	under utilization	Under utilization in %	19	71	100	98	100	100	20	21	8	21	51
Av. Unutilized Cap in MW throughout the Month			40	151	212	208	212	212	43	44	17	45	108	212
EPP - Gas		FCC (Rs/KWH)	0.00	0.00	#DIV/0!	0.00	#DIV/0!	0.00	0.00	13.73	11.38	11.78	12.71	#DIV/0!
		VO&M (Rs/KWH)	0.00	0.00	#DIV/0!	0.00	#DIV/0!	0.00	0.00	0.30	0.30	0.30	0.30	#DIV/0!
		EPP (Rs/KWH)	6.21	0.75	#DIV/0!	2.25	#DIV/0!	10432.86	12.08	14.03	11.68	12.08	13.01	#DIV/0!

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Foundation Power												Dep. Cap. (MW)	171
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	44	63	22	39									
		Av. Unutilized Cap in MW throughout the Month	76	111	38	68									
	EPP - Gas	FCC (Rs/KWH)	5.92	6.06	6.00	5.84									
		VO&M (Rs/KWH)	0.37	0.37	0.37	0.37									
		EPP (Rs/KWH)	6.29	6.43	6.38	6.21									
2015	under utilization	Under utilization in %	25	13	16	5	13	7	6	12	2	5	-2	30	
		Av. Unutilized Cap in MW throughout the Month	43	22	27	9	22	11	10	20	3	8	-3	51	
	EPP - Gas	FCC (Rs/KWH)	4.22	4.06	3.96	3.91	4.76	4.73	4.74	4.73	5.61	5.61	5.64	5.81	
		VO&M (Rs/KWH)	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	
		EPP (Rs/KWH)	4.58	4.42	4.31	4.27	5.12	5.09	5.10	5.09	5.97	5.98	6.01	6.18	
2014	under utilization	Under utilization in %	1	18	-1	1	4	6	10	13	2	2	7	31	
		Av. Unutilized Cap in MW throughout the Month	1	32	-3	2	6	10	18	22	3	4	11	53	
	EPP - Gas	FCC (Rs/KWH)	4.69	4.68	4.67	4.67	4.68	4.70	4.70	4.71	4.70	3.92	3.90	3.98	
		VO&M (Rs/KWH)	0.36	0.36	0.36	0.34	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36	
		EPP (Rs/KWH)	5.05	5.04	5.03	5.01	5.03	5.04	5.05	5.06	5.05	4.29	4.27	4.35	
2013	under utilization	Under utilization in %	0	11	2	1	19	12	5	8	14	8	54	-1	
		Av. Unutilized Cap in MW throughout the Month	1	19	3	2	32	21	8	14	24	15	92	-2	
	EPP - Gas	FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.65	4.66	4.66	3.88	3.87	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.36	0.36	0.36	
		EPP (Rs/KWH)	4.95	4.98	4.95	4.96	5.00	4.95	4.96	4.99	5.00	5.03	4.24	4.24	

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		ENGRO Energy											214	Dep. Cap. (MW)	212.98
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	48	100	90	95									
		Av. Unutilized Cap in MW throughout the Month	101	213	192	201									
	EPP - Gas	FCC (Rs/KWH)	6.12	#DIV/0!	30.68	32.46									
		VO&M (Rs/KWH)	0.33	#DIV/0!	0.33	0.33									
		EPP (Rs/KWH)	6.45	#DIV/0!	31.00	32.79									
	2015	under utilization	Under utilization in %	18	34	11	100	38	5	18	13	4	19	6	20
Av. Unutilized Cap in MW throughout the Month			38	73	24	213	81	10	39	28	8	40	12	42	
EPP - Gas		FCC (Rs/KWH)	4.19	4.26	4.21	#DIV/0!	5.05	5.06	5.06	5.06	6.02	6.02	6.03	6.09	
		VO&M (Rs/KWH)	0.31	0.31	0.31	#DIV/0!	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	
		EPP (Rs/KWH)	4.51	4.58	4.52	#DIV/0!	5.37	5.37	5.38	5.37	6.34	6.34	6.36	6.42	
2014		under utilization	Under utilization in %	2	11	0	-1	3	1	3	40	4	23	-1	8
	Av. Unutilized Cap in MW throughout the Month		5	23	0	-1	6	3	6	85	9	50	-2	17	
	EPP - Gas	FCC (Rs/KWH)	5.04	5.02	5.04	5.05	5.05	5.04	5.04	4.19	5.03	4.19	4.19	4.20	
		VO&M (Rs/KWH)	0.32	0.32	0.32	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	
		EPP (Rs/KWH)	5.36	5.34	5.36	5.35	5.35	5.35	5.35	4.50	5.34	4.51	4.51	4.52	
	2013	under utilization	Under utilization in %	1	4	-2	19	56	4	2	1	1	69	100	85
Av. Unutilized Cap in MW throughout the Month			3	9	-4	41	119	9	3	2	2	147	213	181	
EPP - Gas		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.17	4.17	4.12	#DIV/0!	4.18	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.30	0.32	#DIV/0!	0.32	
		EPP (Rs/KWH)	5.31	4.46	4.50	4.47	4.75	3.42	4.47	4.47	4.47	4.44	#DIV/0!	4.50	

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		UCH-II											Dep. Cap. (MW)	381
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	24	49	87	49								
		Av. Unutilized Cap in MW throughout the Month	93	188	330	185								
	EPP - Gas	FCC (Rs/KWH)	4.96	5.05	10.04	4.92								
		VO&M (Rs/KWH)	0.22	0.22	0.22	0.21								
		EPP (Rs/KWH)	5.18	5.26	10.25	5.13								
	2015	under utilization	Under utilization in %	50	89	65	21	21	12	20	13	29	17	19
Av. Unutilized Cap in MW throughout the Month			190	341	248	79	80	46	75	48	109	64	71	64
EPP - Gas		FCC (Rs/KWH)	4.03	19.24	4.01	4.00	4.00	3.97	4.03	4.00	4.81	4.81	4.93	4.90
		VO&M (Rs/KWH)	0.14	0.14	0.14	0.14	0.14	0.21	0.21	0.21	0.21	0.21	0.21	0.21
		EPP (Rs/KWH)	4.17	19.38	4.15	4.14	4.14	4.18	4.24	4.21	5.02	5.02	5.15	5.12
2014		under utilization	Under utilization in %		85	45	23	39	37	9	16	9	21	9
	Av. Unutilized Cap in MW throughout the Month			325	170	86	150	140	35	59	36	81	34	46
	EPP - Gas	FCC (Rs/KWH)		0.00	0.00	2.74	3.03	3.10	3.78	3.80	3.78	3.85	3.91	3.92
		VO&M (Rs/KWH)		0.00	0.00	0.12	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
		EPP (Rs/KWH)		0.00	0.00	2.87	3.17	3.24	3.92	3.94	3.92	3.99	4.05	4.06

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Altern												Dep. Cap. (MW)	27
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	100	74	-5	0.29									
		Av. Unutilized Cap in MW throughout the Month	27	20	-1	0.08									
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	6.55	6.52	6.47									
		VO&M (Rs/KWH)	#DIV/0!	0.24	0.68	0.68									
		EPP (Rs/KWH)	#DIV/0!	6.79	7.20	7.15									
	2015	under utilization	Under utilization in %	22	17	-1	-5	67	-1	-4	-2	-4	-6	61	100
Av. Unutilized Cap in MW throughout the Month			6	4	0	-1	18	0	-1	-1	-1	-2	17	27	
EPP - Gas		FCC (Rs/KWH)	4.55	4.56	4.55	4.55	4.53	4.54	5.47	5.48	5.46	6.53	6.53	#DIV/0!	
		VO&M (Rs/KWH)	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.65	#DIV/0!	
		EPP (Rs/KWH)	5.20	5.22	5.21	5.21	5.19	5.20	6.13	6.13	6.12	7.18	7.18	#DIV/0!	
2014		under utilization	Under utilization in %	81	89	29	-7	-4	0	4	-3	37	43	95	51
	Av. Unutilized Cap in MW throughout the Month		22	24	8	-2	-1	0	1	-1	10	12	26	14	
	EPP - Gas	FCC (Rs/KWH)	4.92	4.41	4.40	4.54	4.54	5.47	5.43	5.48	4.54	4.57	4.82	4.59	
		VO&M (Rs/KWH)	0.62	0.68	0.68	0.68	0.68	0.67	0.67	0.65	0.65	0.65	0.83	0.65	
		EPP (Rs/KWH)	5.54	5.09	5.08	5.22	5.22	6.14	6.10	6.12	5.19	5.22	5.65	5.24	
	2013	under utilization	Under utilization in %	100	82	6	-6	2	7	0	-2	0	-4	-7	-7
Av. Unutilized Cap in MW throughout the Month			27	22	2	-2	1	2	0	-1	0	-1	-2	-2	
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	4.54	4.56	4.53	4.53	4.53	
		VO&M (Rs/KWH)	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.62	0.62	0.62	0.62	
		EPP (Rs/KWH)	#DIV/0!	5.73	5.02	5.13	5.13	5.12	5.13	5.14	5.18	5.16	5.16	5.15	

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Davis Energy													Dep. Cap. (MW)	10
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	85	95	0.35	-0.06								
		Av. Unutilized Cap in MW throughout the Month	8	9	0.03	-0.01								
	EPP - Gas	FCC (Rs/KWH)	6.58	6.58	6.58	6.58								
		VO&M (Rs/KWH)	0.49	0.49	0.49	0.49								
		EPP (Rs/KWH)	7.07	7.07	7.07	7.07								
2015	under utilization	Under utilization in %	32	100	18	-4	2	-6	-7	-1	0	-1	-3	24
		Av. Unutilized Cap in MW throughout the Month	3	10	2	0	0	-1	-1	0	0	0	0	2
	EPP - Gas	FCC (Rs/KWH)	4.58	#DIV/0!	4.58	5.52	4.58	4.58	5.52	5.52	5.52	6.58	6.58	6.58
		VO&M (Rs/KWH)	0.49	#DIV/0!	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		EPP (Rs/KWH)	5.07	#DIV/0!	5.07	6.01	5.07	5.08	6.01	6.01	6.01	7.07	7.07	7.07
2014	under utilization	Under utilization in %	100	83	-5	-2	-3	9	0	7	64	-5	22	15
		Av. Unutilized Cap in MW throughout the Month	10	8	0	0	0	1	0	1	6	-1	2	1
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	4.58	4.57	4.58	4.58	6.49	4.58	5.52	5.52	5.52	4.58	4.58
		VO&M (Rs/KWH)	#DIV/0!	0.00	0.50	0.00	0.00	0.56	0.00	0.49	0.49	0.49	0.49	0.49
		EPP (Rs/KWH)	#DIV/0!	4.58	5.07	4.58	4.58	7.04	4.58	6.01	6.01	6.01	5.07	5.07
2013	under utilization	Under utilization in %					55	88	33	-2	48	100	43	56
		Av. Unutilized Cap in MW throughout the Month					5	9	3	0	5	10	4	6
	EPP - Gas	FCC (Rs/KWH)					0.00	0.00	0.00	0.00	4.58	0.00	4.72	4.72
		VO&M (Rs/KWH)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)					0.00	0.00	0.00	0.00	4.58	0.00	4.72	4.72

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Orient Power Plant													Dep. Cap. (MW)	213
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	45	66	23	23								
		Av. Unutilized Cap in MW throughout the Month	96	141	48	49								
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	7.14	7.05	6.95								
		VO&M (Rs/KWH)	#DIV/0!	0.21	0.21	0.21								
		EPP (Rs/KWH)	#DIV/0!	7.35	7.26	7.16								
	EPP - HSD	FCC (Rs/KWH)	12.10	10.98	10.98	10.98								
		VO&M (Rs/KWH)	0.35	0.35	0.35	0.35								
		EPP (Rs/KWH)	12.45	11.32	11.33	11.33								
	2015	under utilization	Under utilization in %	22	79	54	16	11	27	24	28	90	13	68
Av. Unutilized Cap in MW throughout the Month			48	167	114	34	24	58	50	60	191	27	145	100
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	4.10	8.53	8.50	8.55	8.59	3.75	#DIV/0!	6.87	8.29	7.12
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.20	0.20	0.20	0.20	0.21	0.21	#DIV/0!	0.21	0.21	0.21
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	4.30	8.73	8.71	8.75	8.80	3.96	#DIV/0!	7.09	8.51	7.33
EPP - HSD		FCC (Rs/KWH)	15.86	14.73	13.06	13.86	13.14	15.70	15.89	14.32	13.29	13.29	11.90	13.58
		VO&M (Rs/KWH)	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35
		EPP (Rs/KWH)	16.19	15.06	13.40	14.19	13.47	16.03	16.23	14.66	13.63	13.64	12.25	13.93
2014		under utilization	Under utilization in %	81	100	94	83	77	34	32	23	31	54	100
	Av. Unutilized Cap in MW throughout the Month		171	213	200	176	165	72	68	49	66	115	213	182
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.67	4.57	4.59	3.77	4.65	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.20	0.20	0.20	0.20	0.20	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.87	4.76	4.79	3.97	4.85	#DIV/0!	#DIV/0!	#DIV/0!
	EPP - HSD	Per unit FCC	24.38	#DIV/0!	24.36	23.23	21.64	20.78	21.41	20.80	19.89	20.14	#DIV/0!	18.86
		Per unit VO&M	0.34	#DIV/0!	0.24	0.24	0.32	0.00	0.33	0.33	0.33	0.34	#DIV/0!	0.34
		Per Unit EPP	24.72	#DIV/0!	24.60	23.47	21.96	20.78	21.74	21.13	20.22	20.48	#DIV/0!	19.20
	2013	under utilization	Under utilization in %	86	94	93	85	47	24	24	41	82	59	93
Av. Unutilized Cap in MW throughout the Month			182	201	199	182	99	51	50	87	175	125	198	187
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	0.00	4.68	#DIV/0!	4.64	3.88	3.93
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.20	#DIV/0!	0.21	0.21	0.21
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	4.75	4.83	4.79	4.74	4.78	4.87	#DIV/0!	4.85	4.09	4.14
EPP - HSD		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.95	22.81	22.56	22.70	24.13
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.34	0.34	0.34
		EPP (Rs/KWH)	23.89	21.80	43.26	22.98	21.21	21.23	20.16	21.27	23.13	22.91	23.04	24.48

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Orient Power Plant

Dep. Cap.
(MW)

213

Power Plant

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Saif Power Plant													Dep Cap (MW)	205	
Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2016	under utilization	Under utilization in %	50	63	65	20									
		Av. Unutilized Cap in MW throughout the Month	104	129	133	41									
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	7.24	6.95	6.92									
		VO&M (Rs/KWH)	#DIV/0!	7.32	0.36	0.36									
		EPP (Rs/KWH)	#DIV/0!	14.56	7.31	7.28									
	EPP - HSD	FCC (Rs/KWH)	12.63	#DIV/0!	#DIV/0!	12.63									
		VO&M (Rs/KWH)	0.52	#DIV/0!	#DIV/0!	0.52									
		EPP (Rs/KWH)	13.15	#DIV/0!	#DIV/0!	13.15									
	2015	under utilization	Under utilization in %	29	85	44	42	73	70	26	47	43	15	73	49
			Av. Unutilized Cap in MW throughout the Month	60	175	91	86	150	144	53	97	88	32	151	101
		EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	3.75	#DIV/0!	#DIV/0!	#DIV/0!	8.65	3.73	3.73	6.89	7.07	6.88
			VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.34	#DIV/0!	#DIV/0!	#DIV/0!	0.35	0.35	0.35	0.36	0.36	0.36
EPP (Rs/KWH)			#DIV/0!	#DIV/0!	4.10	#DIV/0!	#DIV/0!	#DIV/0!	9.00	4.08	4.08	7.25	7.43	7.24	
EPP - HSD		FCC (Rs/KWH)	16.08	15.39	13.93	13.50	13.94	15.86	16.17	9.71	13.35	12.29	12.59	13.11	
		VO&M (Rs/KWH)	0.50	0.50	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.52	0.52	0.52	
		EPP (Rs/KWH)	16.57	15.89	14.43	14.00	14.43	16.36	16.67	10.21	13.86	12.81	13.11	13.63	
2014		under utilization	Under utilization in %	51	100	72	80	38	19	18	36	27	67	100	100
			Av. Unutilized Cap in MW throughout the Month	104	205	147	164	79	40	37	74	56	137	205	205
		EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.59	4.54	4.51	4.54	4.59	#DIV/0!	#DIV/0!	#DIV/0!
			VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.33	0.33	0.34	0.34	0.34	#DIV/0!	#DIV/0!	#DIV/0!
	EPP (Rs/KWH)		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.93	4.87	4.85	4.88	4.93	#DIV/0!	#DIV/0!	#DIV/0!	
	EPP - HSD	FCC (Rs/KWH)	22.67	#DIV/0!	22.21	21.74	20.53	21.12	21.21	21.08	20.38	20.53	#DIV/0!	#DIV/0!	
		VO&M (Rs/KWH)	0.51	#DIV/0!	0.51	0.48	0.48	0.48	0.49	0.49	0.49	0.51	#DIV/0!	#DIV/0!	
		EPP (Rs/KWH)	23.18	#DIV/0!	22.73	22.22	21.02	21.60	21.70	21.57	20.87	21.04	#DIV/0!	#DIV/0!	
	2013	under utilization	Under utilization in %	100	91	88	58	25	24	16	44	88	39	83	92
			Av. Unutilized Cap in MW throughout the Month	205	187	181	119	50	50	33	91	181	80	170	189
		EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	0.00	4.60	#DIV/0!	4.49	4.65	#DIV/0!
			VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.33	#DIV/0!	0.36	0.36	#DIV/0!
EPP (Rs/KWH)			#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	4.84	4.93	#DIV/0!	4.84	5.01	#DIV/0!	
EPP - HSD		FCC (Rs/KWH)	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	21.02	22.22	22.88	24.07	24.07	
		VO&M (Rs/KWH)	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.52	0.52	0.52	
		EPP (Rs/KWH)	#DIV/0!	0.00	0.00	0.00	0.00	0.00	20.47	21.50	22.70	23.40	24.59	24.59	

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Sapphire Electric Power Plant												Dep. Cap. (MW)	208	203
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	47	71	40	56								
		Av. Unutilized Cap in MW throughout the Month	95	144	82	114								
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	7.23	7.30	7.00								
		VO&M (Rs/KWH)	#DIV/0!	0.36	0.36	0.36								
		EPP (Rs/KWH)	#DIV/0!	7.59	7.66	7.35								
	EPP - HSD	FCC (Rs/KWH)	12.19	#DIV/0!	12.19	12.19								
		VO&M (Rs/KWH)	0.51	#DIV/0!	0.51	0.51								
		EPP (Rs/KWH)	12.70	#DIV/0!	12.70	12.70								
	2015	under utilization	Under utilization in %	18	79	57	34	23	38	48	35	39	22	95
Av. Unutilized Cap in MW throughout the Month			36	161	115	69	46	76	97	70	80	44	194	107
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	3.82	#DIV/0!	8.52	10.56	5.85	3.73	3.73	6.96	#DIV/0!	7.03
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.34	#DIV/0!	0.34	0.39	0.35	0.34	0.35	0.36	#DIV/0!	0.36
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	4.16	#DIV/0!	8.87	10.94	6.20	4.07	4.08	7.31	#DIV/0!	7.38
EPP - HSD		FCC (Rs/KWH)	16.36	16.36	14.07	14.20	13.60	#DIV/0!	#DIV/0!	14.61	12.04	11.81	13.50	13.50
		VO&M (Rs/KWH)	0.49	0.49	0.49	0.49	0.49	#DIV/0!	#DIV/0!	0.50	0.50	0.51	0.51	0.51
		EPP (Rs/KWH)	16.85	16.85	14.56	14.69	14.10	#DIV/0!	#DIV/0!	15.11	12.54	12.33	14.02	14.01
2014		under utilization	Under utilization in %	69	100	73	72	49	22	20	24	32	58	100
	Av. Unutilized Cap in MW throughout the Month		144	208	153	149	102	47	42	49	65	117	203	178
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.66	4.50	4.51	4.50	4.52	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.33	0.33	0.33	0.33	0.34	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.99	4.83	4.84	4.83	4.86	#DIV/0!	#DIV/0!	#DIV/0!
	EPP - HSD	FCC (Rs/KWH)	22.59	#DIV/0!	23.07	21.52	20.13	21.37	20.82	21.00	20.26	20.42	#DIV/0!	18.37
		VO&M (Rs/KWH)	0.51	#DIV/0!	0.53	0.48	0.48	0.48	0.49	0.49	0.49	0.51	#DIV/0!	0.63
		EPP (Rs/KWH)	23.10	#DIV/0!	23.60	22.00	20.60	21.85	21.31	21.48	20.75	20.93	#DIV/0!	19.00
	2013	under utilization	Under utilization in %	68	90	87	56	16	20	14	41	76	25	78
Av. Unutilized Cap in MW throughout the Month			141	187	180	116	34	42	29	83	154	50	159	165
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	0.00	4.57	#DIV/0!	4.54	4.63	4.71
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.33	#DIV/0!	0.35	0.35	0.35
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.00	4.81	4.90	#DIV/0!	4.90	4.98	5.06
EPP - HSD		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.55	23.93	21.04	22.44	22.59
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.51	0.51	0.51
		EPP (Rs/KWH)	2.20	0.00	0.00	0.00	0.00	0.00	20.19	22.02	24.41	21.55	22.95	23.10

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Halmore Power Plant													Dep. Cap (MW)	199
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	49	66	26	59								
		Av. Unutilized Cap in MW throughout the Month	97	132	53	118								
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	7.04	6.98	6.98								
		VO&M (Rs/KWH)	#DIV/0!	0.36	0.36	0.36								
		EPP (Rs/KWH)	#DIV/0!	7.40	7.34	7.34								
	EPP - HSD	FCC (Rs/KWH)	12.35	13.74	11.64	11.64								
		VO&M (Rs/KWH)	0.52	0.52	0.52	0.52								
		EPP (Rs/KWH)	12.87	14.26	12.16	12.16								
	2015	under utilization	Under utilization in %	25	86	43	66	78	70	73	46	63	52	60
Av. Unutilized Cap in MW throughout the Month			50	172	86	131	155	139	146	91	125	104	120	105
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	7.30	6.90
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.36	0.36
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	7.66	7.26
EPP - HSD		FCC (Rs/KWH)	15.86	15.72	13.50	13.62	13.94	15.55	15.65	14.62	13.39	12.34	12.80	13.32
		VO&M (Rs/KWH)	0.50	0.51	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.52	0.52	0.52
		EPP (Rs/KWH)	16.36	16.24	14.00	14.13	14.44	16.06	16.16	15.13	13.90	12.86	13.33	13.84
2014		under utilization	Under utilization in %	75	100	91	76	36	72	10	44	38	61	100
	Av. Unutilized Cap in MW throughout the Month		149	199	182	151	71	144	19	87	76	121	199	184
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.49	4.72	4.51	4.54	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.36	0.33	0.34	0.34	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.85	5.06	4.85	4.88	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	EPP - HSD	FCC (Rs/KWH)	23.77	#DIV/0!	23.14	21.64	20.65	20.93	20.17	21.20	20.35	20.19	#DIV/0!	20.69
		VO&M (Rs/KWH)	0.52	#DIV/0!	0.52	0.48	0.00	0.48	0.49	0.49	0.49	0.51	#DIV/0!	0.51
		EPP (Rs/KWH)	24.28	#DIV/0!	23.66	22.12	20.65	21.41	20.66	21.70	20.84	20.70	#DIV/0!	21.20
	2013	under utilization	Under utilization in %	96	100	97	100	59	50	15	57	81	73	92
Av. Unutilized Cap in MW throughout the Month			191	199	193	199	119	99	29	114	161	145	183	181
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	#DIV/0!	0.00	0.00	0.00	4.64	#DIV/0!	4.66	3.88	3.85
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	#DIV/0!	0.00	0.00	0.00	0.34	#DIV/0!	0.36	0.36	0.36
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	0.00	#DIV/0!	0.00	0.00	4.84	4.98	#DIV/0!	5.02	4.24	4.21
EPP - HSD		FCC (Rs/KWH)	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	0.00	21.04	22.95	23.04	23.43	24.05
		VO&M (Rs/KWH)	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.48	0.48	0.52	0.52	0.52
		EPP (Rs/KWH)	21.20	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	20.41	21.52	23.43	23.56	23.95	24.57

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Kot Addu Power Plant - Block-I											Dep. Cap. (MW)	325
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	-2	6	17	7								
		Av. Unutilized Cap in MW throughout the Month	-6	20	56	21								
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	6.75	4.82	4.79								
		VO&M (Rs/KWH)	#DIV/0!	0.26	0.26	0.26								
		EPP (Rs/KWH)	#DIV/0!	7.01	5.08	5.05								
	EPP - RFO	FCC (Rs/KWH)	5.40	4.49	4.14	4.36								
		VO&M (Rs/KWH)	0.46	0.46	0.46	0.46								
		EPP (Rs/KWH)	5.85	4.95	4.60	4.82								
	EPP - HSD	FCC (Rs/KWH)	11.70	#DIV/0!	#DIV/0!	#DIV/0!								
		VO&M (Rs/KWH)	0.26	#DIV/0!	#DIV/0!	#DIV/0!								
		EPP (Rs/KWH)	11.96	#DIV/0!	#DIV/0!	#DIV/0!								
	2015	under utilization	Under utilization in %	-6	97	14	2	3	7	3	6	6	23	91
Av. Unutilized Cap in MW throughout the Month			-19	316	44	6	9	23	9	20	19	74	294	33
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	4.40	9.38	9.41	9.65	9.64	4.13	4.13	7.22	#DIV/0!	7.01
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.53	0.52	0.49	0.25	0.25	0.25	0.25	0.25	#DIV/0!	0.25
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	4.93	9.90	9.90	9.91	9.90	4.38	4.38	7.47	#DIV/0!	7.27
EPP - RFO		FCC (Rs/KWH)	10.45	6.75	8.02	8.42	8.27	9.35	9.13	7.84	6.60	6.29	65.75	6.41
		VO&M (Rs/KWH)	0.48	0.44	0.53	0.52	0.49	0.44	0.44	0.44	4.39	0.44	4.39	0.44
		EPP (Rs/KWH)	10.93	7.19	8.54	8.94	8.76	9.79	9.57	8.28	10.99	6.73	70.14	6.85
EPP - HSD		FCC (Rs/KWH)	10.45	14.83	14.56	12.08	12.56	13.29	13.13	14.22	14.17	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	0.48	0.26	0.53	0.52	0.49	0.26	0.25	0.25	0.25	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	10.93	15.08	15.08	12.60	13.05	13.54	13.38	14.48	14.42	#DIV/0!	#DIV/0!	#DIV/0!

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Kot Addu Power Plant - Block-I													Dep. Cap. (MW)	325
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2014	under utilization	Under utilization in %	18	-1	22	5	6	9	26	7	6	3	25	-5
		Av. Unutilized Cap in MW throughout the Month	59	-3	71	15	19	28	84	24	18	10	82	-16
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.67	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.26	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.93	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	EPP - RFO	FCC (Rs/KWH)	14.18	13.85	13.53	12.80	12.11	13.21	13.40	13.24	13.72	13.59	12.07	10.30
		VO&M (Rs/KWH)	0.45	0.45	0.45	0.45	0.45	0.45	0.43	0.43	0.43	0.43	0.43	0.43
		EPP (Rs/KWH)	14.63	14.31	13.98	13.25	12.56	13.66	13.83	13.68	14.15	14.03	12.51	10.74
	EPP - HSD	FCC (Rs/KWH)	20.39	#DIV/0!	#DIV/0!	#DIV/0!	20.70	19.59	#DIV/0!	19.59	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	0.26	#DIV/0!	#DIV/0!	#DIV/0!	0.26	0.26	#DIV/0!	0.25	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	20.65	#DIV/0!	#DIV/0!	#DIV/0!	20.96	19.85	#DIV/0!	19.84	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	2013	under utilization	Under utilization in %	0	3	25	13	22	29	17	12	9	22	100
Av. Unutilized Cap in MW throughout the Month			0	11	80	42	70	96	54	39	31	73	325	233
EPP - Gas		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
EPP - RFO		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.44	14.00	16.71	#DIV/0!	14.45
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.42	0.42	#DIV/0!	0.42
		EPP (Rs/KWH)	16.26	16.11	16.01	14.10	15.93	17.19	14.61	13.98	14.41	17.13	#DIV/0!	14.86
EPP - HSD		FCC (Rs/KWH)	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	0.00	18.77	19.13	21.72	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	0.00	0.53	0.24	0.24	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	20.15	#DIV/0!	#DIV/0!	#DIV/0!	22.19	23.30	20.57	19.30	19.37	21.96	#DIV/0!	#DIV/0!

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Kot Addu Power Plant - Block-III													Dep. Cap (MW)	249
Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2016 under utilization	Under utilization in %	76	100	100	100									
	Av. Unutilized Cap in MW throughout the Month	189	249	249	249									
EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
EPP - HSD	FCC (Rs/KWH)	13.30	#DIV/0!	#DIV/0!	#DIV/0!									
	VO&M (Rs/KWH)	0.90	#DIV/0!	#DIV/0!	#DIV/0!									
	EPP (Rs/KWH)	14.19	#DIV/0!	#DIV/0!	#DIV/0!									
2015 under utilization	Under utilization in %	100	100	73	37	75	72	84	63	46	52	100	100	
	Av. Unutilized Cap in MW throughout the Month	249	249	182	93	186	180	210	157	114	130	249	249	
EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	5.35	11.00	11.03	10.95	10.94	4.97	4.97	8.19	#DIV/0!	#DIV/0!	
	VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.53	0.52	0.49	0.57	0.57	0.57	0.57	0.57	#DIV/0!	#DIV/0!	
	EPP (Rs/KWH)	#DIV/0!	#DIV/0!	5.87	11.52	11.52	11.52	11.51	5.54	5.54	8.76	#DIV/0!	#DIV/0!	
EPP - HSD	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	17.17	14.37	15.13	15.08	14.92	16.13	16.09	16.08	#DIV/0!	#DIV/0!	
	VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	0.53	0.52	0.49	0.87	0.86	0.86	0.86	0.86	#DIV/0!	#DIV/0!	
	EPP (Rs/KWH)	#DIV/0!	#DIV/0!	17.70	14.88	15.62	15.95	15.78	16.99	16.95	16.95	#DIV/0!	#DIV/0!	

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Kot Addu Power Plant - Block-III													Dep. Cap (MW)	249	
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2014	under utilization	Under utilization in %	100	100	100	100	74	54	48	82	100	100	100	100	
		Av. Unutilized Cap in MW throughout the Month	249	249	249	249	183	135	119	203	249	249	249	249	
	EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	5.30	5.30	5.30	5.30	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.59	0.59	0.56	0.56	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	5.89	5.89	5.87	5.87	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	EPP - HSD	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	22.24	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.86	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	23.09	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	2013	under utilization	Under utilization in %	100	100	100	100	100	100	92	92	92	93	100	93
			Av. Unutilized Cap in MW throughout the Month	249	249	249	249	249	249	230	229	230	230	249	233
		EPP - Gas	FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.40	#DIV/0!	15.88	4.40
			VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.54	#DIV/0!	0.59	0.54
EPP (Rs/KWH)			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	4.94	#DIV/0!	16.47	4.94	
EPP - HSD		FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.00	21.92	21.71	24.50	#DIV/0!	#DIV/0!	
		VO&M (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.53	0.82	0.82	#DIV/0!	#DIV/0!	
		EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	23.82	22.45	22.54	25.32	#DIV/0!	#DIV/0!	

Details of Plant Utilization Factor, EPP, CPP and LDs

Kot Addu Power Plant - Block-I													Dependable Cap (MW)	325
Electricity Generated on		Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
under utilization	Gas	0	0	1413700	8854100	36395700	17655200	36347500	69300	9850400	149900	0	40479100	
	RFO	146294196	1899400	205067900	219246500	198435725	198637000	195469800	223895900	210239050	186332800	22023300	177060800	
	HSD	109947480	4264000	2360300	1319400	319500	1078700	2992000	2801900	28400	0	0	0	
	Total	256241676	6163400	208841900	229420000	235150925	217370900	234809300	226767100	220117850	186482700	22023300	217539900	
	Under utilization in %	-5.97	97.18	13.63	1.96	2.75	7.11	2.89	6.22	5.93	22.88	90.59	10.03	
Av. Unutilized Capacity in MW throughout the Month		-19.41	315.83	44.30	6.36	8.94	23.10	9.40	20.21	19.28	74.35	294.41	32.61	
EPP - Gas	FCC (Million Rs.)	0	0	6221729	83068996	342552382	170436261	350473353	286278	40692002	1081899	0	283875070	
	Variable O&M (Million Rs.)	0	0	743674	495361	17801717	4490543	9197510	17547	2492578	37926	0	10243002	
	Total EPP (Million Rs.)	0	0	6965403	87664357	360354099	174926804	359670863	303825	43184580	1119825	0	294118072	
	Per unit FCC (Rs/KWH)	#DIV/0!	#DIV/0!	4.40	9.38	9.41	9.65	9.64	4.13	4.13	7.22	#DIV/0!	7.01	
	Per unit VO&M Cost (Rs/KWH)	#DIV/0!	#DIV/0!	0.53	0.52	0.49	0.25	0.25	0.25	0.25	0.25	#DIV/0!	0.25	
Per Unit EPP (Rs/KWH)	#DIV/0!	#DIV/0!	4.93	9.90	9.90	9.91	9.90	4.38	4.38	7.47	#DIV/0!	7.27		
EPP - RFO	FCC (Million Rs.)	1528130645	12826591	1643998607	1847021511	1641741281	1856655949	1784179023	1756073419	1388404819	1172301262	1448139009	1134710667	
	Variable O&M (Million Rs.)	70890712	837995	107875586	113790995	97058077	87637670	85806896	98275837	922813434	81788064	96681351	77718242	
	Total EPP (Million Rs.)	1599021357	13664586	1751874193	1960812506	1738799358	1944293619	1869985919	1854349756	7311218253	1254089326	1544820360	1212428909	
	Per unit FCC (Rs/KWH)	10.45	6.75	8.02	8.42	8.27	9.35	9.13	7.84	6.60	6.29	65.75	6.41	
	Per unit VO&M Cost (Rs/KWH)	0.48	0.44	0.53	0.52	0.49	0.44	0.44	0.44	4.39	0.44	4.39	0.44	
Per Unit EPP (Rs/KWH)	10.93	7.19	8.54	8.94	8.76	9.79	9.57	8.28	10.99	6.73	70.14	6.85		
EPP - HSD	FCC (Million Rs.)	1148467391	63224754	34359745	15944315	4011747	14334755	39277153	39854168	402387	0	0	0	
	Variable O&M (Million Rs.)	53277952	1090569	1241631	684781	156273	275883	761598	712940	7224	0	0	0	
	Total EPP (Million Rs.)	1201745343	64335323	35601376	16629096	4168020	14610638	40038751	40567108	409611	0	0	0	
	Per unit FCC (Rs/KWH)	10.45	14.83	14.56	12.08	12.56	13.29	13.13	14.22	14.17	#DIV/0!	#DIV/0!	#DIV/0!	
	Per unit VO&M Cost (Rs/KWH)	0.48	0.26	0.53	0.52	0.49	0.26	0.25	0.25	0.25	#DIV/0!	#DIV/0!	#DIV/0!	
Per Unit EPP (Rs/KWH)	10.93	15.08	15.08	12.60	13.05	13.54	13.38	14.48	14.42	#DIV/0!	#DIV/0!	#DIV/0!		
CPP Gas	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
CPP RFO	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
CPP HSD	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
PPP Gas	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
PPP RFO	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
PPP HSD	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
LDs	LDs Invoiced (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	LDs Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	

2015

Details of Plant Utilization Factor, EPP, CPP and LDs

Kot Addu Power Plant - Block-I													Dependable Cap. (MW)	325
Electricity Generated on		Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
under utilization	Gas	0	0	0	0	0	0	0	0	0	0	0	0	
	RFO	182212425	211170200	182309200	204106560	186303400	164959100	196716800	207711500	210404950	187103600	0	68526400	
	HSD	59762825	0	0	0	3158900	220200	4878200	5227500	1413800	737800	0	0	
	Total	241975250	211170200	182309200	204106560	189462300	165179300	201595000	212939000	211818750	187841400	0	68526400	
	Under utilization in %	-0.07	3.31	24.60	12.77	21.65	29.41	16.63	11.94	9.48	22.32	100.00	71.66	
	Av. Unutilized Capacity in MW throughout the Month	-0.24	10.76	79.96	41.52	70.35	95.58	54.04	38.79	30.81	72.53	325.00	232.89	
EPP - Gas	FCC (Million Rs.)	0	0	0	0	0	0	0	0	0	0	0	0	
	Variable O&M (Million Rs.)	0	0	0	0	0	0	0	0	0	0	0	0	
	Total EPP (Million Rs.)	0	0	0	0	0	0	0	0	0	0	0	0	
	Per unit FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Per unit VO&M Cost (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Per Unit EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
EPP - RFO	FCC (Million Rs.)	0	0	0	0	0	0	2791981638	2945000808	3126420803	0	989932962		
	Variable O&M (Million Rs.)	0	0	0	0	0	0	110844734	87879832	78147561	0	28621406		
	Total EPP (Million Rs.)	2963473944	3401645094	2919014567	2877077421	2967809952	2836248748	2874667126	2902826372	3032880640	3204568364	0	1018554368	
	Per unit FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	13.44	14.00	16.71	#DIV/0!	14.45		
Per unit VO&M Cost (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.42	0.42	#DIV/0!	0.42			
Per Unit EPP (Rs/KWH)	16.26	16.11	16.01	14.10	15.93	17.19	14.61	13.98	14.41	17.13	#DIV/0!	14.86		
EPP - HSD	FCC (Million Rs.)	0	0	0	0	0	0	98103660	27046849	16023260	0	0		
	Variable O&M (Million Rs.)	0	0	0	0	0	0	2789643	142304	128645	0	0		
	Total EPP (Million Rs.)	1204300460	0	0	0	70095250	5130456	100322769	100893303	27389153	16201905	0	0	
	Per unit FCC (Rs/KWH)	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	18.77	19.13	21.72	#DIV/0!	#DIV/0!		
Per unit VO&M Cost (Rs/KWH)	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.00	0.53	0.24	0.24	#DIV/0!	#DIV/0!			
Per Unit EPP (Rs/KWH)	20.15	#DIV/0!	#DIV/0!	#DIV/0!	22.19	23.30	20.57	19.30	19.37	21.96	#DIV/0!	#DIV/0!		
CPP Gas	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
CPP RFO	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
CPP HSD	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
PPP Gas	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
PPP RFO	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
PPP HSD	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
LDs	LDs Invoiced (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	LDs Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	

2013

Details of Plant Utilization Factor, EPP, CPP and LDs

	Kot Addu Power Plant - Block-II											Dependable Cap (MW)	762	
	Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
under utilization	Gas	0	7086200	118841600	43815200	0	973900	62567400	1923700	33284000	27930900	12381000	4706300	
	RFO	498579600	133593300	25746500	136905400	342874300	462254900	353623100	337366200	321714700	403655200	38043225	219601400	
	HSD	0	0	0	0	0	0	0	0	0	0	0	3585800	
	Total	498579600	140679500	144588100	180720600	342874300	463228800	416190500	339289900	354998700	431586100	50424225	227893500	
	Under utilization in %	12.06	73.47	74.50	67.06	39.52	15.57	26.59	40.15	35.29	23.87	90.81	59.80	
	Av. Unutilized Capacity in MW throughout the Month	91.87	559.87	567.66	511.00	301.15	118.63	202.60	305.97	268.95	181.91	691.97	455.69	
EPP - Gas	FCC (Million Rs.)	0	52479887	620527429	230117295	0	6165726	394278690	13277140	210235158	173534761	89226679	34495334	
	Variable O&M (Million Rs.)	0	2175730	36488649	13452849	0	299011	19285231	592958	10259184	8609177	3816228	1450641	
	Total EPP (Million Rs.)	0	54655617	657016078	243570144	0	6464737	413563921	13870098	220494342	182143938	93042907	35945975	
	Per unit FCC (Rs/KWH)	#DIV/0!	7.41	5.22	5.25	#DIV/0!	6.33	6.30	6.90	6.32	6.21	7.21	7.33	
	Per unit VO&M Cost (Rs/KWH)	#DIV/0!	0.31	0.31	0.31	#DIV/0!	0.31	0.31	0.31	0.31	0.31	0.31	0.31	
	Per Unit EPP (Rs/KWH)	#DIV/0!	7.71	5.53	5.56	#DIV/0!	6.64	6.61	7.21	6.62	6.52	7.51	7.64	
EPP - RFO	FCC (Million Rs.)	2952132457	658890398	117234624	560649509	1811432407	2905656932	2477703074	2464853328	2261231940	2966500622	287968954	1793347020	
	Variable O&M (Million Rs.)	319327768	85853647	16501470	8745710	219755706	296269346	227508976	217067235	206996791	259718722	24477674	141295359	
	Total EPP (Million Rs.)	3271460225	74474045	133736094	748395219	2031188113	3201926278	2705212050	2681920563	2468228731	3226219344	312446628	1934642379	
	Per unit FCC (Rs/KWH)	5.92	4.93	4.55	4.83	5.28	6.29	7.01	7.31	7.03	7.35	7.57	8.17	
	Per unit VO&M Cost (Rs/KWH)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	
	Per Unit EPP (Rs/KWH)	6.56	5.57	5.19	5.47	5.92	6.93	7.65	7.95	7.67	7.99	8.21	8.81	
EPP - HSD	FCC (Million Rs.)	0	0	0	0	0	0	0	0	0	0	0	45389744	
	Variable O&M (Million Rs.)	0	0	0	0	0	0	0	0	0	0	0	3225841	
	Total EPP (Million Rs.)	0	0	0	0	0	0	0	0	0	0	0	48615585	
	Per unit FCC (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	12.66
	Per unit VO&M Cost (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.90
	Per Unit EPP (Rs/KWH)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	13.56
CPP Gas	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Per unit CPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
CPP RFO	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Per unit CPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
CPP HSD	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	Per unit CPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
PPP Gas	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
PPP RFO	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
PPP HSD	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	
LDs	LDs Invoiced (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	
	LDs Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	

2016

Details of Plant Utilization Factor, EPP, CPP and LDs

Kot Addu Power Plant - Block-II												Dependable Cap. (MW)	
Electricity Generated on												762	
	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
under utilization	Gas	0	0	31948600	114267200	118620925	123504670	131636200	46438500	103828350	21219000	0	41000
	RFO	238656894	246129100	198277200	313862100	257058725	270547270	212704000	404403655	177773850	242334600	197060700	235517200
	HSD	7162430	3276500	0	0	0	0	0	0	0	0	0	0
	Total	245819324	249405600	230225800	428129300	375679650	394051940	344340200	450842155	281602200	263553600	197060700	235558200
	Under utilization in %	56.64	51.29	59.39	21.97	33.73	28.18	39.26	20.48	48.67	53.51	64.08	58.45
	Av. Unutilized Capacity in MW throughout the Month	431.60	390.86	452.56	167.38	257.05	214.71	299.18	156.03	370.89	407.76	488.30	445.39
EPP - Gas	FCC (Million Rs.)	0	0	156460111	1183724088	1232370579	1307714009	1392182669	211295175	472418993	167999173	0	315370
	Variable O&M (Million Rs.)	0	0	16806501	59305751	58019386	36744006	38962638	13745200	30731866	6280557	0	12135
	Total EPP (Million Rs.)	0	0	173266612	1243029839	1290389965	1344458015	1431145307	225040375	503150859	174279730	0	327505
	Per unit FCC (Rs/KWH)	#DIV/0!	#DIV/0!	4.90	10.36	10.39	10.59	10.58	4.55	4.55	7.92	#DIV/0!	7.69
	Per unit VO&M Cost (Rs/KWH)	#DIV/0!	#DIV/0!	0.53	0.52	0.49	0.30	0.30	0.30	0.30	0.30	#DIV/0!	0.30
Per Unit EPP (Rs/KWH)	#DIV/0!	#DIV/0!	5.42	10.88	10.88	10.89	10.87	4.85	4.85	8.21	#DIV/0!	7.99	
EPP - RFO	FCC (Million Rs.)	2492914438	1858439943	1783865682	2954367644	2398172518	2802482447	2147940021	3457799253	1284315510	1675342993	1411445996	1659723790
	Variable O&M (Million Rs.)	115647494	152855776	10430351	162897380	125731521	168020431	131443613	249863994	109839009	149728354	121755514	145516157
	Total EPP (Million Rs.)	2608561932	2011295719	1888169033	3117265024	2523904039	2970502878	2279383634	3707663247	1394154519	1825071347	1533201510	1805239947
	Per unit FCC (Rs/KWH)	10.45	7.55	9.00	9.41	9.33	10.36	10.10	8.55	7.22	6.91	7.16	7.05
	Per unit VO&M Cost (Rs/KWH)	0.48	0.62	0.53	0.52	0.49	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Per Unit EPP (Rs/KWH)	10.93	8.17	9.52	9.93	9.82	10.98	10.72	9.17	7.84	7.53	7.78	7.67	
EPP - HSD	FCC (Million Rs.)	74815878	53318785	0	0	0	0	0	0	0	0	0	0
	Variable O&M (Million Rs.)	3470742	1126644	0	0	0	0	0	0	0	0	0	0
	Total EPP (Million Rs.)	78286622	54485229	0	0	0	0	0	0	0	0	0	0
	Per unit FCC (Rs/KWH)	10.45	16.27	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Per unit VO&M Cost (Rs/KWH)	0.48	0.34	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Per Unit EPP (Rs/KWH)	10.93	16.62	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
CPP Gas	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Per unit CPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CPP RFO	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Per unit CPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CPP HSD	Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Per unit CPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
PPP Gas	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
PPP RFO	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
PPP HSD	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
LDs	LDs Invoiced (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	LDs Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required

2015

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Attock Gen											Dep. Cap. (MW)	156
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	17	29	16	11								
		Av. Unutilized Cap in MW throughout the Month	27	46	25	17								
	EPP - RFO	FCC (Rs/KWH)	3.71	3.57	3.80	4.33								
		VO&M (Rs/KWH)	0.92	0.92	0.92	0.92								
		EPP (Rs/KWH)	4.64	4.49	4.72	5.25								
2015	under utilization	Under utilization in %	18	15	7	6	21	18	18	12	15	8	14	6
		Av. Unutilized Cap in MW throughout the Month	28	23	11	10	32	27	29	19	24	13	22	9
	EPP - RFO	FCC (Rs/KWH)	7.15	6.96	8.14	7.61	8.86	8.81	7.87	6.76	5.76	5.74	5.76	4.88
		VO&M (Rs/KWH)	0.89	0.89	0.89	0.88	0.88	0.88	0.90	0.90	0.90	0.92	0.92	0.92
		EPP (Rs/KWH)	8.04	7.85	9.02	8.49	9.74	9.69	8.77	7.66	6.65	6.66	6.68	5.80
2014	under utilization	Under utilization in %	12	17	4	4	7	8	5	3	11	6	26	6
		Av. Unutilized Cap in MW throughout the Month	18	27	6	7	11	13	7	4	17	10	40	10
	EPP - RFO	FCC (Rs/KWH)	14.56	14.59	14.24	13.23	13.34	13.79	13.95	13.40	13.66	13.08	11.67	9.95
		VO&M (Rs/KWH)	0.90	0.90	0.90	0.85	0.85	0.85	0.87	0.87	0.87	0.90	0.90	0.90
		EPP (Rs/KWH)	15.46	15.48	15.14	14.09	14.19	14.64	14.82	14.27	14.53	13.98	12.58	10.86
2013	under utilization	Under utilization in %	6	20	3	12	6	14	6	6	15	10	20	2
		Av. Unutilized Cap in MW throughout the Month	9	32	5	18	10	21	9	9	24	16	31	4
	EPP - RFO	FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.85	14.32	14.65	14.79	14.77
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.90	0.90	0.90
		EPP (Rs/KWH)	14.51	15.09	15.20	14.84	14.37	14.48	14.55	14.70	15.16	15.54	15.69	15.67

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Atlas Power												Dep. Cap. (MW)	214
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	19	44	45	42									
		Av. Unutilized Cap in MW throughout the Month	41	95	97	90									
	EPP - RFO	FCC (Rs/KWH)	5.58	4.58	4.61	4.87									
		VO&M (Rs/KWH)	0.91	0.91	0.91	0.91									
		EPP (Rs/KWH)	6.49	5.49	5.52	5.77									
	2015	under utilization	Under utilization in %	10	24	19	20	28	35	43	23	28	20	28	21
Av. Unutilized Cap in MW throughout the Month			21	50	40	42	60	74	92	50	60	43	61	45	
EPP - RFO		FCC (Rs/KWH)	9.96	7.55	8.34	8.56	8.52	9.68	9.66	8.59	7.30	6.83	6.80	6.98	
		VO&M (Rs/KWH)	0.87	0.87	0.87	0.87	0.87	0.87	0.88	0.88	0.88	0.91	0.91	0.91	
		EPP (Rs/KWH)	10.83	8.42	9.21	9.43	9.39	10.55	10.54	9.48	8.18	7.74	7.70	7.88	
2014		under utilization	Under utilization in %	15	16	10	13	19	21	15	16	21	23	40	16
	Av. Unutilized Cap in MW throughout the Month		31	34	21	28	40	46	32	34	45	48	85	35	
	EPP - RFO	FCC (Rs/KWH)	14.82	14.65	14.64	13.85	13.36	13.61	14.04	13.79	13.67	13.88	13.21	11.63	
		VO&M (Rs/KWH)	0.88	0.88	0.88	0.84	0.84	0.84	0.86	0.86	0.86	0.89	0.89	0.89	
		EPP (Rs/KWH)	15.70	15.53	15.52	14.69	14.19	14.45	14.90	14.64	14.52	14.76	14.10	12.52	
	2013	under utilization	Under utilization in %	28	32	24	21	22	19	17	14	26	32	31	16
Av. Unutilized Cap in MW throughout the Month			60	67	50	45	46	41	35	29	55	68	65	34	
EPP - RFO		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.96	14.51	15.13	14.99	14.98	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.88	0.88	0.88	
		EPP (Rs/KWH)	14.72	15.18	15.34	15.10	14.83	14.62	14.89	14.79	15.34	16.02	15.87	15.87	

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Nishat Power														Dep. Cap. (MW)	195		
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
2016	under utilization	Under utilization in %	15	44	47	44											
		Av. Unutilized Cap in MW throughout the Month	30	86	91	87											
	EPP - RFO	FCC (Rs/KWH)	6.57	5.38	4.80	4.83											
		VO&M (Rs/KWH)	0.91	0.91	0.91	0.91											
		EPP (Rs/KWH)	7.48	6.29	5.71	5.73											
2015	under utilization	Under utilization in %	16	20	15	14	27	40	23	19	27	18	20	5			
		Av. Unutilized Cap in MW throughout the Month	31	40	30	27	53	78	44	38	52	34	40	9			
	EPP - RFO	FCC (Rs/KWH)	11.06	8.58	7.76	9.11	9.15	8.60	9.97	9.66	8.47	6.98	6.74	6.85			
		VO&M (Rs/KWH)	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.88	0.88	0.91	0.91	0.91			
		EPP (Rs/KWH)	11.93	9.45	8.63	9.98	10.02	9.47	10.84	10.54	9.35	7.88	7.65	7.76			
2014	under utilization	Under utilization in %	21	20	5	10	12	13	7	6	15	9	35	8			
		Av. Unutilized Cap in MW throughout the Month	40	39	10	20	24	24	13	11	30	18	68	16			
	EPP - RFO	FCC (Rs/KWH)	16.10	15.30	14.78	14.37	13.45	13.43	13.75	13.94	13.77	14.19	13.86	12.52			
		VO&M (Rs/KWH)	0.88	0.88	0.88	0.84	0.84	0.84	0.86	0.86	0.86	0.89	0.89	0.89			
		EPP (Rs/KWH)	16.98	16.18	15.66	15.21	14.29	14.27	14.61	14.80	14.63	15.08	14.74	13.41			
2013	under utilization	Under utilization in %	15	38	36	31	15	22	13	20	23	12	19	5			
		Av. Unutilized Cap in MW throughout the Month	29	75	71	61	30	43	26	40	46	23	36	11			
	EPP - RFO	FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.79	15.13	15.19	15.06	15.00			
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.88	0.88	0.88			
		EPP (Rs/KWH)	15.84	12.27	16.41	19.45	16.07	15.62	15.57	15.62	15.96	16.07	15.94	15.88			

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Nishat Chunian													Dep. Cap. (MW)	196
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	21	54	50	41								
		Av. Unutilized Cap in MW throughout the Month	42	105	98	80								
	EPP - RFO	FCC (Rs/KWH)	6.35	5.15	4.69	4.79								
		VO&M (Rs/KWH)	0.91	0.91	0.91	0.90								
		EPP (Rs/KWH)	7.26	6.06	5.60	5.69								
2015	under utilization	Under utilization in %	20	16	18	23	20	31	30	25	28	25	29	12
		Av. Unutilized Cap in MW throughout the Month	39	31	35	45	39	61	60	49	56	49	57	24
	EPP - RFO	FCC (Rs/KWH)	10.45	8.19	8.56	9.67	9.35	8.78	10.15	10.04	9.17	7.64	6.87	6.97
		VO&M (Rs/KWH)	0.87	0.87	0.87	0.87	0.87	0.87	0.88	0.88	0.88	0.90	0.90	0.90
		EPP (Rs/KWH)	11.32	9.06	9.43	10.54	10.22	9.64	11.03	10.92	10.05	8.55	7.77	7.87
2014	under utilization	Under utilization in %	15	5	19	9	8	11	7	13	17	10	28	7
		Av. Unutilized Cap in MW throughout the Month	29	9	37	17	16	22	14	25	34	19	55	15
	EPP - RFO	FCC (Rs/KWH)	14.92	14.71	14.79	14.55	13.26	13.62	13.91	13.94	13.69	14.03	14.15	12.13
		VO&M (Rs/KWH)	0.88	0.88	0.88	0.84	0.84	0.84	0.86	0.86	0.86	0.89	0.89	0.89
		EPP (Rs/KWH)	15.80	15.59	15.67	15.39	14.10	14.45	14.76	14.79	14.54	14.91	15.04	13.02
2013	under utilization	Under utilization in %	17	32	22	16	26	24	15	24	21	22	12	9
		Av. Unutilized Cap in MW throughout the Month	32	63	43	31	52	47	29	47	42	42	24	17
	EPP - RFO	FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.26	14.71	15.74	14.71	14.86
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.32	0.88	0.88	0.88
EPP (Rs/KWH)	15.84	13.33	16.67	18.42	15.83	15.50	15.59	15.59	16.03	16.62	15.59	15.74		

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Hubco Narowal											Dep. Cap. (MW)	214
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	23	50	35	53								
		Av. Unutilized Cap in MW throughout the Month	50	107	75	113								
	EPP - RFO	FCC (Rs/KWH)	6.18	4.93	4.72	4.98								
		VO&M (Rs/KWH)	0.86	0.86	0.86	0.86								
		EPP (Rs/KWH)	7.05	5.79	5.58	5.84								
	2015	under utilization	Under utilization in %	18	35	20	27	32	33	40	32	42	30	43
Av. Unutilized Cap in MW throughout the Month			39	76	43	58	69	70	86	68	89	63	93	110
EPP - RFO		FCC (Rs/KWH)	10.93	10.91	8.49	9.40	8.64	9.78	10.19	8.81	8.03	7.45	6.84	7.03
		VO&M (Rs/KWH)	0.83	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84	0.86	0.86	0.86
		EPP (Rs/KWH)	11.76	11.74	9.32	10.22	9.47	10.60	11.03	9.65	8.87	8.30	7.70	7.89
2014		under utilization	Under utilization in %	24	19	13	10	15	20	6	15	16	12	50
	Av. Unutilized Cap in MW throughout the Month		51	40	28	21	33	43	13	33	34	27	106	60
	EPP - RFO	FCC (Rs/KWH)	15.26	14.73	14.80	14.31	12.52	13.75	14.08	14.04	13.94	14.05	13.91	13.21
		VO&M (Rs/KWH)	0.83	0.83	0.83	0.80	0.80	0.80	0.82	0.82	0.82	0.84	0.84	0.84
		EPP (Rs/KWH)	16.09	15.56	15.63	15.11	13.32	14.54	14.90	14.86	14.76	14.89	14.76	14.05
	2013	under utilization	Under utilization in %	65	79	88	100	84	100	32	11	14	17	18
Av. Unutilized Cap in MW throughout the Month			140	169	188	214	180	214	68	24	30	37	38	13
EPP - RFO		FCC (Rs/KWH)	0.00	0.00	0.00	#DIV/0!	0.00	#DIV/0!	0.00	13.96	13.97	14.68	14.60	15.14
		VO&M (Rs/KWH)	0.00	0.00	0.00	#DIV/0!	0.00	#DIV/0!	0.00	0.78	0.78	0.82	0.82	0.82
		EPP (Rs/KWH)	14.74	13.36	9.75	#DIV/0!	15.40	#DIV/0!	14.85	14.74	14.74	15.50	15.42	15.96

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Liberty Power												Dep. Cap. (MW)	196
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	15	54	53	46									
		Av. Unutilized Cap in MW throughout the Month	30	107	104	90									
	EPP - RFO	FCC (Rs/KWH)	6.08	5.16	4.63	4.58									
		VO&M (Rs/KWH)	1.01	1.01	1.01	1.01									
		EPP (Rs/KWH)	7.09	6.17	5.65	5.59									
	2015	under utilization	Under utilization in %	10	17	7	8	15	18	19	14	25	19	23	11
Av. Unutilized Cap in MW throughout the Month			20	33	14	17	30	34	37	28	49	37	46	21	
EPP - RFO		FCC (Rs/KWH)	11.31	9.31	7.65	8.49	8.49	8.74	9.92	9.40	8.43	7.20	6.71	6.85	
		VO&M (Rs/KWH)	0.97	0.97	0.97	0.97	0.97	0.97	0.99	0.99	0.99	1.01	1.01	1.01	
		EPP (Rs/KWH)	12.28	10.28	8.62	9.46	9.46	9.71	10.91	10.38	9.41	8.21	7.71	7.86	
2014		under utilization	Under utilization in %	9	16	12	12	16	11	10	6	13	7	25	7
	Av. Unutilized Cap in MW throughout the Month		17	31	23	24	32	21	19	12	25	14	49	13	
	EPP - RFO	FCC (Rs/KWH)	15.16	15.00	14.58	14.54	14.85	13.57	13.85	14.06	13.71	14.13	15.01	13.26	
		VO&M (Rs/KWH)	0.98	0.98	0.98	0.94	0.94	0.94	0.96	0.96	0.96	0.99	0.99	0.99	
		EPP (Rs/KWH)	16.15	15.98	15.56	15.48	15.78	14.51	14.81	15.02	14.67	15.12	16.00	14.25	
	2013	under utilization	Under utilization in %	6	20	10	9	11	13	4	5	12	9	22	11
Av. Unutilized Cap in MW throughout the Month			12	40	20	18	21	26	9	10	23	18	44	21	
EPP - RFO		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.81	14.20	14.34	14.93	14.89	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.98	0.98	0.98	
		EPP (Rs/KWH)	14.60	13.53	15.54	15.45	15.17	14.82	14.73	14.74	15.12	15.32	15.91	15.86	

Details of Plant Utilization Factor, EPP, CPP and LDs

	Electricity Generated on	TGF										Dependable Cap. (MW)	49.50	
		Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
2014	under utilization	Electricity Generated											615600	8680200
		Utilization in %											1.73	23.57
		Av. Unutilized Capacity in MW throughout the Month											48.65	37.83
	EPP	FCC (Million Rs.)											0	0
		Variable O&M (Million Rs.)											0	0
		Total EPP (Million Rs.)											0	0
		Per unit FCC (Rs/KWH)											0.00	0.00
		Per unit VO&M Cost (Rs/KWH)											0.00	0.00
		Per Unit EPP (Rs/KWH)											0.00	0.00
	CPP	Capacity Cost Due (Million Rs.)											Required	Required
		Capacity Cost Paid (Million Rs.)											Required	Required
		Per unit CPP (Rs/KWH)											#VALUE!	#VALUE!
	PPP	Total PPP-EPP+CPP (Million Rs.)											#VALUE!	#VALUE!
		Per unit PPP (Rs/KWH)											#VALUE!	#VALUE!
	LDs	LDs Invoiced (Million Rs.)											Required	Required
		LDs Paid (Million Rs.)											Required	Required

Details of Plant Utilization Factor, EPP, CPP and LDs

	Sapphire											Dependable Cap (MW)	49.50	
	Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
2015	under utilization	Electricity Generated									1426070	6377280	8025430	
		Utilization in %									3.87	17.89	21.79	
		Av. Unutilized Capacity in MW throughout the Month										47.58	40.64	38.71
	EPP	FCC (Million Rs.)										0	0	0
		Variable O&M (Million Rs.)										0	0	0
		Total EPP (Million Rs.)										0	0	0
		Per unit FCC (Rs/KWH)										0.00	0.00	0.00
	CPP	Per unit VO&M Cost (Rs/KWH)										0.00	0.00	0.00
		Per Unit EPP (Rs/KWH)										0.00	0.00	0.00
		Capacity Cost Due (Million Rs.)										Required	Required	Required
	PPP	Capacity Cost Paid (Million Rs.)										Required	Required	Required
		Per unit CPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!
Total PPP-EPP+CPP (Million Rs.)											#VALUE!	#VALUE!	#VALUE!	
LDs	Per unit PPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	
	LDs Invoiced (Million Rs.)										Required	Required	Required	
	LDs Paid (Million Rs.)										Required	Required	Required	

Details of Plant Utilization Factor, EPP, CPP and LDs

2016		METRO Wind Power										Dependable Cap. (MW)	49.50	
		Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
under utilization	Electricity Generated										14570980	5095130	4936010	6590930
	Utilization in %										40.88	13.83	13.85	17.90
	Av. Unutilized Capacity in MW throughout the Month										29.26	42.65	42.64	40.64
EPP	FCC (Million Rs.)										0	0	0	0
	Variable O&M (Million Rs.)										0	0	0	29000
	Total EPP (Million Rs.)										0	0	0	29000
	Per unit FCC (Rs/KWH)										0.00	0.00	0.00	0.00
	Per unit VO&M Cost (Rs/KWH)										0.00	0.00	0.00	0.004
	Per Unit EPP (Rs/KWH)									0.00	0.00	0.00	0.004	
CPP	Capacity Cost Due (Million Rs.)										Required	Required	Required	Required
	Capacity Cost Paid (Million Rs.)										Required	Required	Required	Required
	Per unit CPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
PPP	Total PPP-EPP+CPP (Million Rs.)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
	Per unit PPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
LDs	LDs Invoiced (Million Rs.)										Required	Required	Required	Required
	LDs Paid (Million Rs.)										Required	Required	Required	Required

Details of Plant Utilization Factor, EPP, CPP and LDs

		Gul Ahmed Wind Power											Dependable Cap. (MW)	49.50	
		Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
2016	under utilization	Electricity Generated									491500	4847490	4478810	6035910	
		Utilization in %									1.38	13.16	12.57	16.39	
		Av. Unutilized Capacity in MW throughout the Month										48.82	42.98	43.28	41.39
	EPP	FCC (Million Rs.)										0	0	0	0
		Variable O&M (Million Rs.)										0	0	0	35297
		Total EPP (Million Rs.)										0	0	0	35297
		Per unit FCC (Rs/KWH)										0.00	0.00	0.00	0.00
		Per unit VO&M Cost (Rs/KWH)										0.00	0.00	0.00	0.01
	CPP	Per Unit EPP (Rs/KWH)										0.00	0.00	0.00	0.01
		Capacity Cost Due (Million Rs.)										Required	Required	Required	Required
		Capacity Cost Paid (Million Rs.)										Required	Required	Required	Required
	PPP	Per unit CPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
		Total PPP-EPP+CPP (Million Rs.)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
	LDs	Per unit PPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
		LDs Invoiced (Million Rs.)										Required	Required	Required	Required
		LDs Paid (Million Rs.)										Required	Required	Required	Required

Details of Plant Utilization Factor, EPP, CPP and LDs

		Master Wind Power											Dependable Cap. (MW)	49.50	
		Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
2016	under utilization	Electricity Generated									7004420	5840800	4250960	6023230	
		Utilization in %									19.65	15.86	11.93	16.36	
		Av. Unutilized Capacity in MW throughout the Month										39.77	41.65	43.60	41.40
	EPP	FCC (Million Rs.)										0	0	0	0
		Variable O&M (Million Rs.)										0	0	0	35356
		Total EPP (Million Rs.)										0	0	0	35356
		Per unit FCC (Rs/KWH)										0.00	0.00	0.00	0.00
		Per unit VO&M Cost (Rs/KWH)										0.00	0.00	0.00	0.01
	CPP	Per Unit EPP (Rs/KWH)										0.00	0.00	0.00	0.01
		Capacity Cost Due (Million Rs.)										Required	Required	Required	Required
		Capacity Cost Paid (Million Rs.)										Required	Required	Required	Required
	PPP	Per unit CPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
		Total PPP-EPP+CPP (Million Rs.)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
	LDs	Per unit PPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
		LDs Invoiced (Million Rs.)										Required	Required	Required	Required
		LDs Paid (Million Rs.)										Required	Required	Required	Required

Details of Plant Utilization Factor, EPP, CPP and LDs

		Tenaga Generasi Limited										Dependable Cap. (MW)	49.50		
		Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
2016	under utilization	Electricity Generated									3438790	6874670	3247870	3184280	
		Utilization in %									9.65	18.67	9.11	8.65	
		Av. Unutilized Capacity in MW throughout the Month										44.72	40.26	44.99	45.22
	EPP	FCC (Million Rs.)										0	0	0	0
		Variable O&M (Million Rs.)										0	0	0	0
		Total EPP (Million Rs.)										0	0	0	0
		Per unit FCC (Rs/KWH)										0.00	0.00	0.00	0.00
		Per unit VO&M Cost (Rs/KWH)										0.00	0.00	0.00	0.00
	CPP	Per Unit EPP (Rs/KWH)										0.00	0.00	0.00	0.00
		Capacity Cost Due (Million Rs.)										Required	Required	Required	Required
		Capacity Cost Paid (Million Rs.)										Required	Required	Required	Required
	PPP	Per unit CPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
		Total PPP-EPP+CPP (Million Rs.)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
	LDs	Per unit PPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!	#VALUE!
		LDs Invoiced (Million Rs.)										Required	Required	Required	Required
		LDs Paid (Million Rs.)										Required	Required	Required	Required

Details of Plant Utilization Factor, EPP, CPP and LDs

		JDW-III										Dependable Cap (MW)	26.35	
		Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2014	under utilization	Electricity Generated										14381940	10018390	13965900
		Utilization in %										73.36	52.81	71.24
		Av. Unutilized Capacity in MW throughout the Month										7.02	12.44	7.58
	EPP	FCC (Million Rs.)										82986670	57808114	80586036
		Variable O&M (Million Rs.)										6179920	4304902	6001147
		Total EPP (Million Rs.)										89166590	62113016	86587183
		Per unit FCC (Rs/KWH)										5.77	5.77	5.77
		Per unit VO&M Cost (Rs/KWH)										0.43	0.43	0.43
		Per Unit EPP (Rs/KWH)										6.20	6.20	6.20
	CPP	Capacity Cost Due (Million Rs.)										Required	Required	Required
		Capacity Cost Paid (Million Rs.)										Required	Required	Required
		Per unit CPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!
	PPP	Total PPP-EPP+CPP (Million Rs.)										#VALUE!	#VALUE!	#VALUE!
		Per unit PPP (Rs/KWH)										#VALUE!	#VALUE!	#VALUE!
	LDs	LDs Invoiced (Million Rs.)										Required	Required	Required
		LDs Paid (Million Rs.)										Required	Required	Required

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Tavanir (Import from Iran)													Dep. Cap. (MW)	96.00
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Plant Utilization in %	47	49	46	57								
		Av. Unutilized Cap in MW throughout the Month	51	49	52	42								
	EPP	FCC (Rs/KWH)	10.60	10.60	10.60	10.60								
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00								
		EPP (Rs/KWH)	10.60	10.60	10.60	10.60								
	2015	under utilization	Plant Utilization in %	42	44	46	56	60	50	61	62	57	57	50
Av. Unutilized Cap in MW throughout the Month			56	54	52	43	39	48	38	37	41	42	48	49
EPP		FCC (Rs/KWH)	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.50	10.50	10.50	10.50	10.50
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.50	10.50	10.50	10.50	10.50
2014		under utilization	Plant Utilization in %	43	44	44	54	48	61	64	61	58	57	50
	Av. Unutilized Cap in MW throughout the Month		54	54	54	44	49	37	35	38	40	41	48	54
	EPP	FCC (Rs/KWH)	10.55	10.55	9.79	9.79	9.79	9.79	9.80	9.80	9.80	9.90	9.90	10.20
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)	10.55	10.55	9.79	9.79	9.79	9.79	9.80	9.80	9.80	9.90	9.90	10.20
	2013	under utilization	Plant Utilization in %					52	55	59	54	56	52	41
Av. Unutilized Cap in MW throughout the Month							46	43	39	45	42	46	57	57
EPP		FCC (Rs/KWH)					10.00	9.88	9.98	10.17	10.55	1.06	10.55	10.55
		VO&M (Rs/KWH)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)					10.00	9.88	9.98	10.17	10.55	1.06	10.55	10.55

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		TGF											Dep. Cap. (MW)	49.50	
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Plant Utilization in %	14.61	20.90	24.59	33.43									
		Av. Unutilized Cap in MW throughout the Month	42.27	39.16	37.33	32.95									
	EPP	FCC (Rs/KWH)	0.00	0.00	0.00	0.00									
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00									
		EPP (Rs/KWH)	0.00	0.00	0.00	0.00									
	2015	under utilization	Plant Utilization in %	26.11	29.65	22.18	34.37	47.13	34.84	49.11	51.84	31.47	23.58	26.40	17.41
Av. Unutilized Cap in MW throughout the Month			36.58	34.82	38.52	32.49	26.17	32.26	25.19	23.84	33.92	37.83	36.43	40.88	
EPP		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		EPP (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2014		under utilization	Plant Utilization in %											1.73	23.57
	Av. Unutilized Cap in MW throughout the Month													48.65	37.83
	EPP	FCC (Rs/KWH)												0.00	0.00
		VO&M (Rs/KWH)												0.00	0.00
		EPP (Rs/KWH)												0.00	0.00

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Sapphire											Dep. Cap. (MW)	49.50
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Plant Utilization in %	17.94	23.79	27.51	34.11								
		Av. Unutilized Cap in MW throughout the Month	40.62	37.72	35.88	32.61								
	EPP	FCC (Rs/KWH)	0.00	0.00	0.00	0.00								
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00								
		EPP (Rs/KWH)	0.00	0.00	0.00	0.00								
	2015	under utilization	Plant Utilization in %										3.87	17.89
Av. Unutilized Cap in MW throughout the Month												47.58	40.64	38.71
EPP		FCC (Rs/KWH)										0.00	0.00	0.00
		VO&M (Rs/KWH)										0.00	0.00	0.00
		EPP (Rs/KWH)										0.00	0.00	0.00

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Quaid-e-Azam Solar											Dep. Cap. (MW)	100.0
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Plant Utilization in %	12.10	19.88	19.80	21.05								
		Av. Unutilized Cap in MW throughout the Month	87.90	80.12	80.20	78.95								
	EPP	FCC (Rs/KWH)	0.00	0.00	0.00	0.00								
		VO&M (Rs/KWH)	2.47	2.47	2.47	2.47								
		EPP (Rs/KWH)	2.47	2.47	2.47	2.47								
	2015	under utilization	Plant Utilization in %					16.10	19.38	17.03	19.81	20.85	18.88	14.52
Av. Unutilized Cap in MW throughout the Month							83.90	80.62	82.97	80.19	79.15	81.12	85.48	85.39
EPP		FCC (Rs/KWH)					34.01	18.75	19.40	0.00	0.00	0.00	0.00	0.00
		VO&M (Rs/KWH)					0.00	0.00	0.00	2.47	2.47	2.47	2.47	2.47
		EPP (Rs/KWH)					34.01	18.75	19.40	2.47	2.47	2.47	2.47	2.47

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		TPS- Quetta (Gas)											Dep. Cap. (MW)	25.00
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Plant Utilization in %	-0.20	-0.20	41.10	22.62								
		Av. Unutilized Cap in MW throughout the Month	25.05	25.05	14.73	5.65								
	EPP	FCC (Rs/KWH)	8.60	8.60	8.60	8.60								
		VO&M (Rs/KWH)	0.07	0.07	0.07	0.07								
		EPP (Rs/KWH)	8.67	8.67	8.67	8.67								
	2015	under utilization	Plant Utilization in %	-0.21	-0.20	-0.21	43.75	82.47	68.69	83.03	84.79	84.64	79.47	0.00
Av. Unutilized Cap in MW throughout the Month			25.05	25.05	25.05	14.06	4.38	7.83	4.24	3.80	3.84	5.13	25.00	25.05
EPP		FCC (Rs/KWH)	8.60	8.60	8.60	8.60	8.60	8.60	8.60	8.60	8.60	8.60	#DIV/0!	8.60
		VO&M (Rs/KWH)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	#DIV/0!	0.07
		EPP (Rs/KWH)	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	#DIV/0!	8.67
2014		under utilization	Plant Utilization in %	-0.37	-0.15	-0.13	35.18	77.51	81.37	77.31	83.18	89.40	87.61	2.55
	Av. Unutilized Cap in MW throughout the Month		25.09	25.04	25.03	16.20	5.62	4.66	5.67	4.20	2.65	3.10	24.36	25.05
	EPP	FCC (Rs/KWH)	10.28	10.28	10.28	10.28	10.28	10.28	8.60	8.60	8.60	8.60	8.60	8.60
		VO&M (Rs/KWH)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
		EPP (Rs/KWH)	10.35	10.35	10.35	10.35	10.35	10.35	8.67	8.67	8.67	8.67	8.67	8.67
	2013	under utilization	Plant Utilization in %	-0.34	-0.31	29.78	37.58	32.60	69.03	74.61	79.04	67.51	60.53	-0.17
Av. Unutilized Cap in MW throughout the Month			25.09	25.08	17.56	15.60	16.85	7.74	6.35	5.24	8.12	9.87	25.04	25.07
EPP		FCC (Rs/KWH)	11.08	4.94	-0.04	9.62	24.43	12.11	0.00	10.28	10.28	10.28	10.28	10.28
		VO&M (Rs/KWH)	0.07	0.03	0.00	0.06	0.16	0.08	0.00	0.07	0.07	0.07	0.07	0.07
		EPP (Rs/KWH)	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	10.35	10.35	10.35	10.35

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		SPPs											Dep. Cap. (MW)	257
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Plant Utilization in %	17	17	10	5								
		Av. Unutilized Cap in MW throughout the Month	213	213	230	244								
	EPP	FCC (Rs/KWH)	7	7	7	8								
		VO&M (Rs/KWH)	0	0	0	0								
		EPP (Rs/KWH)	7.18	7.18	7.03	7.74								
	2015	under utilization	Plant Utilization in %	54	55	50	39	32	21	19	18	8	6	7
Av. Unutilized Cap in MW throughout the Month			117	117	128	157	176	203	207	212	236	242	240	214
EPP		FCC (Rs/KWH)	8.84	8.97	8.79	6.80	6.74	6.73	6.65	6.73	7.23	7.51	7.49	7.20
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)	8.84	8.97	8.79	6.80	6.74	6.73	6.65	6.73	7.23	7.51	7.49	7.20
2014		under utilization	Plant Utilization in %	58	54	55	46	46	46	47	47	48	49	46
	Av. Unutilized Cap in MW throughout the Month		109	119	116	139	139	138	136	137	132	131	138	121
	EPP	FCC (Rs/KWH)	8.82	9.86	9.83	10.18	10.21	10.18	9.53	9.58	9.69	9.97	10.44	9.47
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)	8.82	9.86	9.83	10.18	10.21	10.18	9.53	9.58	9.69	9.97	10.44	9.47
	2013	under utilization	Plant Utilization in %	64	64	61	53	49	45	48	48	46	44	47
Av. Unutilized Cap in MW throughout the Month			92	94	101	122	130	140	134	135	138	143	137	117
EPP		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	7.96	8.12	8.45	8.94	9.76	9.79
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)	10.53	10.64	10.50	8.52	8.29	7.78	7.96	8.12	8.45	8.94	9.76	9.79

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		JDW-I											Dep. Cap. (MW)	26.35
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Plant Utilization in %	69	73	74	92								
		Av. Unutilized Cap in MW throughout the Month	8	7	7	2								
	EPP	FCC (Rs/KWH)	5.77	5.77	6.31	5.77								
		VO&M (Rs/KWH)	0.43	0.43	0.47	0.43								
		EPP (Rs/KWH)	6.20	6.20	6.78	6.20								
	2015	under utilization	Plant Utilization in %	63	65	70	91	57	93	92	91	61	0	30
Av. Unutilized Cap in MW throughout the Month			10	9	8	2	11	2	2	2	10	26	18	7
EPP		FCC (Rs/KWH)	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	#DIV/0!	5.77	5.77
		VO&M (Rs/KWH)	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	#DIV/0!	0.43	0.43
		EPP (Rs/KWH)	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	#DIV/0!	6.20	6.20
2014		under utilization	Plant Utilization in %						49	81	87	84	50	32
	Av. Unutilized Cap in MW throughout the Month							13	5	4	4	13	18	6
	EPP	FCC (Rs/KWH)						5.77	5.77	5.77	5.77	14.26	5.77	5.77
		VO&M (Rs/KWH)						0.43	0.43	0.43	0.43	1.06	0.43	0.43
		EPP (Rs/KWH)						6.20	6.20	6.20	6.20	15.32	6.20	6.20

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		JDW-III											Dep. Cap. (MW)	26.35	
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Plant Utilization in %	70.91	74.24	84.21	89.90									
		Av. Unutilized Cap in MW throughout the Month	7.67	6.79	4.16	2.66									
	EPP	FCC (Rs/KWH)	5.77	5.77	6.10	5.87									
		VO&M (Rs/KWH)	0.43	0.43	0.45	0.44									
		EPP (Rs/KWH)	6.20	6.20	6.56	6.31									
	2015	under utilization	Plant Utilization in %	70.98	67.31	78.34	90.51	52.77	88.20	89.43	81.97	41.96	0.00	25.03	77.53
Av. Unutilized Cap in MW throughout the Month			7.65	8.61	5.71	2.50	12.44	3.11	2.79	4.75	15.29	26.35	19.75	5.92	
EPP		FCC (Rs/KWH)	5.77	5.77	5.77	5.76	5.77	5.77	5.77	5.77	5.77	#DIV/0!	5.77	5.77	
		VO&M (Rs/KWH)	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	#DIV/0!	0.43	0.43	
		EPP (Rs/KWH)	6.20	6.20	6.20	6.19	6.20	6.20	6.20	6.20	6.20	#DIV/0!	6.20	6.20	
2014		under utilization	Plant Utilization in %										73.36	52.81	71.24
	Av. Unutilized Cap in MW throughout the Month											7.02	12.44	7.58	
	EPP	FCC (Rs/KWH)											5.77	5.77	5.77
		VO&M (Rs/KWH)											0.43	0.43	0.43
		EPP (Rs/KWH)											6.20	6.20	6.20

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		RYK											Dep. Cap. (MW)	24.01
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Plant Utilization in %	76	77	70	55								
		Av. Unutilized Cap in MW throughout the Month	6	5	7	11								
	EPP	FCC (Rs/KWH)	6.07	6.01	6.01	6.01								
		VO&M (Rs/KWH)	0.43	0.43	0.43	0.43								
		EPP (Rs/KWH)	6.50	6.44	6.44	6.44								
2015	under utilization	Plant Utilization in %			72	63	14	35	1	0	0	0	0	68
		Av. Unutilized Cap in MW throughout the Month			7	9	21	16	24	24	24	24	24	8
	EPP	FCC (Rs/KWH)			5.77	5.77	5.77	5.75	5.77	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	6.12
		VO&M (Rs/KWH)			0.43	0.43	0.43	0.43	0.01	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.44
		EPP (Rs/KWH)			6.20	6.20	6.20	6.18	5.78	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	6.56

Details of Plant Utilization Factor, EPP, CPP and LDs

		Plant utilization status - Chashma Nuclear II											Dep. Cap. (MW)	315.00	
		Electricity Generated on	Jan	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
2016	under utilization	Uranium	204790000	213777000	226604000	216472000	226081000	218982000	224891000	225342000	218694000	226376000	133416000		0
		Total	204790000	213777000	226604000	216472000	226081000	218982000	224891000	225342000	218694000	226376000	133416000		0
		Under utilization in %	12.62	2.49	3.31	4.55	3.53	3.45	4.04	3.85	3.57	3.41	41.17		100.00
		Av. Unutilized Capacity in MW throughout the Month	39.74	7.85	10.42	14.34	11.13	10.86	12.73	12.12	11.26	10.73	129.70		315.00
	EPP	FCC (Million Rs.)	218981947	228591746	242307657	231473510	241748413	234157453	240475946	240958201	233849494	242063857	142661729		0
		Variable O&M (Million Rs.)	0	0	0	0	0	0	0	0	0	0	0		0
		Total EPP (Million Rs.)	218981947	228591746	242307657	231473510	241748413	234157453	240475946	240958201	233849494	242063857	142661729		0
		Per unit FCC (Rs/KWH)	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07		#DIV/0!
		Per unit VO&M Cost (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		#DIV/0!
	CPP	Per Unit EPP (Rs/KWH)	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07		#DIV/0!
		Capacity Cost Due (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required		Required
		Capacity Cost Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required		Required
	PPP	Per unit CPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		#VALUE!
		Total PPP-EPP+CPP (Million Rs.)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		#VALUE!
	LDs	Per unit PPP (Rs/KWH)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		#VALUE!
		LDs Invoiced (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required		Required
		LDs Paid (Million Rs.)	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required		Required

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

	Hub Power												Dep. Cap. (MW)	1200
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	19	35	25	29								
		Av. Unutilized Cap in MW throughout the Month	231	415	302	349								
	EPP - RFO	FCC (Rs/KWH)	6.06	4.89	4.90	5.35								
		VO&M (Rs/KWH)	0.18	0.18	0.18	0.18								
EPP (Rs/KWH)		6.23	5.07	5.08	5.53									
2015	under utilization	Under utilization in %	35	35	38	40	36	27	37	29	29	27	44	17
		Av. Unutilized Cap in MW throughout the Month	426	424	454	486	436	328	446	347	344	324	525	209
	EPP - RFO	FCC (Rs/KWH)	9.74	8.14	10.21	9.63	9.83	10.94	10.48	9.17	7.76	7.10	7.66	7.07
		VO&M (Rs/KWH)	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17
EPP (Rs/KWH)		9.92	8.32	10.39	9.81	10.01	11.13	10.65	9.33	7.92	7.27	7.83	7.23	
2014	under utilization	Under utilization in %	11	39	33	13	38	32	33	19	17	34	77	31
		Av. Unutilized Cap in MW throughout the Month	133	464	400	160	453	383	396	227	200	407	925	373
	EPP - RFO	FCC (Rs/KWH)	16.69	16.17	16.25	14.49	14.29	15.37	15.67	15.51	16.49	15.88	14.46	12.72
		VO&M (Rs/KWH)	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17
EPP (Rs/KWH)		16.87	16.35	16.43	14.67	14.47	15.56	15.84	15.69	16.67	16.06	14.63	12.90	
2013	under utilization	Under utilization in %	12	29	19	38	38	39	38	38	32	36	45	33
		Av. Unutilized Cap in MW throughout the Month	144	353	227	460	450	465	458	456	388	429	537	395
	EPP - RFO	FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.77	16.23	17.03	16.00	17.06
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16	0.15	0.16
EPP (Rs/KWH)		16.08	17.09	16.45	16.07	16.04	15.77	16.01	15.94	16.39	17.20	16.16	17.22	

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

		Kohinoor Energy											Dep. Cap. (MW)	124
		Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	under utilization	Under utilization in %	14	30	31	22								
		Av. Unutilized Cap in MW throughout the Month	17	37	39	27								
	EPP - RFO	FCC (Rs/KWH)	5.05	4.68	4.83	5.34								
		VO&M (Rs/KWH)	0.59	0.59	0.59	0.59								
		EPP (Rs/KWH)	5.64	5.27	5.42	5.93								
	2015	under utilization	Under utilization in %	13	36	29	13	20	15	23	20	17	22	28
Av. Unutilized Cap in MW throughout the Month			17	44	36	16	24	18	28	25	22	27	35	19
EPP - RFO		FCC (Rs/KWH)	8.83	7.50	8.66	8.39	8.96	10.25	9.55	8.53	7.18	7.02	7.00	6.34
		VO&M (Rs/KWH)	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
		EPP (Rs/KWH)	9.40	8.07	9.23	8.97	9.53	10.83	10.12	9.10	7.75	7.59	7.57	6.91
2014		under utilization	Under utilization in %	9	21	13	13	17	10	10	21	17	10	33
	Av. Unutilized Cap in MW throughout the Month		12	26	16	16	21	13	12	26	22	13	40	20
	EPP - RFO	FCC (Rs/KWH)	15.64	15.46	15.36	14.47	14.17	14.37	14.67	14.37	14.42	14.35	12.88	11.17
		VO&M (Rs/KWH)	0.59	0.58	0.58	0.58	0.58	0.58	0.57	0.56	0.56	0.56	0.56	0.56
		EPP (Rs/KWH)	16.22	16.05	15.94	15.06	14.75	14.95	15.23	14.93	14.99	14.92	13.45	11.73
	2013	under utilization	Under utilization in %	34	43	40	33	27	20	19	15	27	25	28
Av. Unutilized Cap in MW throughout the Month			43	54	50	41	33	25	23	18	34	31	34	27
EPP - RFO		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.38	14.68	15.16	15.47	15.60
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.54	0.54	0.54	0.54
		EPP (Rs/KWH)	15.21	15.64	15.85	15.42	14.80	14.79	15.00	14.92	15.22	15.71	16.01	16.14

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

AES Lalpir													Dep. Cap. (MW)	350
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	26	38	76	27								
		Av. Unutilized Cap in MW throughout the Month	91	134	265	93								
	EPP - RFO	FCC (Rs/KWH)	5.53	5.14	4.83	5.78								
		VO&M (Rs/KWH)	0.17	0.17	0.59	0.17								
		EPP (Rs/KWH)	5.70	5.30	5.42	5.95								
	2015	under utilization	Under utilization in %	8	34	44	20	37	48	49	30	39	26	100
Av. Unutilized Cap in MW throughout the Month			28	118	152	70	130	166	173	105	136	92	349	61
EPP - RFO		FCC (Rs/KWH)	9.40	8.11	9.56	9.92	8.11	11.43	11.51	9.94	7.98	7.55	8.31	6.97
		VO&M (Rs/KWH)	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
		EPP (Rs/KWH)	9.57	8.28	9.73	10.09	8.28	11.60	11.68	10.10	8.14	7.72	8.47	7.13
2014		under utilization	Under utilization in %	22	52	46	21	27	15	20	100	100	37	79
	Av. Unutilized Cap in MW throughout the Month		75	183	163	74	96	54	71	350	350	130	277	82
	EPP - RFO	FCC (Rs/KWH)	16.82	16.72	16.34	15.56	15.20	16.01	16.08	#DIV/0!	#DIV/0!	15.45	14.78	12.85
		VO&M (Rs/KWH)	0.17	0.17	0.17	0.17	0.17	0.17	0.16	#DIV/0!	#DIV/0!	0.16	0.16	0.16
		EPP (Rs/KWH)	16.98	16.88	16.50	15.73	15.37	16.17	16.24	#DIV/0!	#DIV/0!	15.62	14.95	13.01
	2013	under utilization	Under utilization in %	47	39	50	59	35	14	24	24	65	35	31
Av. Unutilized Cap in MW throughout the Month			166	136	175	206	122	49	82	83	228	123	109	86
EPP - RFO		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.18	16.43	17.13	17.14	17.13
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16	0.16	0.16
		EPP (Rs/KWH)	16.03	16.68	16.88	16.30	15.83	16.03	16.20	16.33	16.58	17.29	17.29	17.28

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

PakGen Power Limited													Dep. Cap (MW)	349
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	95	45	29	29								
		Av. Unutilized Cap in MW throughout the Month	330	158	102	102								
	EPP - RFO	FCC (Rs/KWH)	8.17	5.34	5.37	5.82								
		VO&M (Rs/KWH)	0.17	0.17	0.17	0.17								
		EPP (Rs/KWH)	8.34	5.51	5.54	5.99								
2015	under utilization	Under utilization in %	23	81	100	100	100	100	100	100	100	100	100	100
		Av. Unutilized Cap in MW throughout the Month	80	281	349	349	349	349	349	349	349	349	349	349
	EPP - RFO	FCC (Rs/KWH)	9.26	8.31	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	0.16	0.16	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	9.42	8.47	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2014	under utilization	Under utilization in %	13	56	31	100	19	17	15	25	26	58	68	28
		Av. Unutilized Cap in MW throughout the Month	46	194	107	349	65	58	53	88	92	201	236	96
	EPP - RFO	FCC (Rs/KWH)	16.78	16.63	16.62	#DIV/0!	15.30	15.90	16.05	15.93	16.23	16.74	15.99	12.54
		VO&M (Rs/KWH)	0.17	0.17	0.17	#DIV/0!	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
		EPP (Rs/KWH)	16.94	16.79	16.79	#DIV/0!	15.46	16.07	16.21	16.09	16.39	16.91	16.15	12.70
2013	under utilization	Under utilization in %	34	100	39	41	21	22	22	48	22	8	44	26
		Av. Unutilized Cap in MW throughout the Month	118	349	136	142	73	77	77	169	78	27	153	92
	EPP - RFO	FCC (Rs/KWH)	0.00	#DIV/0!	0.00	0.00	0.00	0.00	0.00	16.26	16.84	16.99	17.04	17.35
		VO&M (Rs/KWH)	0.00	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16	0.16	0.16
		EPP (Rs/KWH)	16.12	#DIV/0!	16.60	16.28	15.91	16.08	16.23	16.41	16.99	17.15	17.19	17.51

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Chashma Nuclear I													Dep. Cap (MW)	300
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2016	under utilization	Under utilization in %	66	9	5	5								
		Av. Unutilized Cap in MW throughout the Month	198	26	14	15								
	EPP	FCC (Rs/KWH)	1.26	1.26	1.26	1.26								
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00								
		EPP (Rs/KWH)	1.26	1.26	1.26	1.26								
	2015	under utilization	Under utilization in %	35	-1	0	2	1	2	8	33	75	100	100
Av. Unutilized Cap in MW throughout the Month			104	-2	-1	5	2	5	24	99	225	300	300	300
EPP		FCC (Rs/KWH)	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	#DIV/0!	#DIV/0!	#DIV/0!
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	#DIV/0!	#DIV/0!	#DIV/0!
		EPP (Rs/KWH)	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	#DIV/0!	#DIV/0!	#DIV/0!
2014		under utilization	Under utilization in %	-11	7	21	26	100	10	13	5	1	5	1
	Av. Unutilized Cap in MW throughout the Month		-1	21	63	77	300	31	39	16	4	16	3	42
	EPP	FCC (Rs/KWH)	1.26	1.26	1.26	1.26	#DIV/0!	1.26	1.24	1.24	1.24	1.24	1.24	1.24
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)	1.26	1.26	1.26	1.26	#DIV/0!	1.26	1.24	1.24	1.24	1.24	1.24	1.24
	2013	under utilization	Under utilization in %	100	66	0	1	2	1	26	3	2	0	1
Av. Unutilized Cap in MW throughout the Month			300	198	1	2	6	4	78	10	5	1	2	3
EPP		FCC (Rs/KWH)	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	1.29	1.26	1.26	1.26	1.26
		VO&M (Rs/KWH)	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		EPP (Rs/KWH)	#DIV/0!	1.46	1.46	1.46	1.26	1.26	1.26	1.29	1.26	1.26	1.26	1.26

Details of Plant Utilization Factor, Fuel Cost Component (FCC), Variable Operation & Maintenance Cost (VO&M), and Energy Purchase Price (EPP)

Chashma Nuclear II														Dep. Cap (MW)	315
	Power Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2016	under utilization	Under utilization in %	13	2	3	5									
		Av. Unutilized Cap in MW throughout the Month	40	8	10	14									
	EPP	FCC (Rs/KWH)	1.07	1.07	1.07	1.07									
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00									
		EPP (Rs/KWH)	1.07	1.07	1.07	1.07									
	2015	under utilization	Under utilization in %	13	2	3	3	4	4	5	86	41	3	3	3
Av. Unutilized Cap in MW throughout the Month			41	8	9	10	14	11	15	271	130	10	11	11	
EPP		FCC (Rs/KWH)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.13	1.07	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		EPP (Rs/KWH)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.13	1.07	
2014		under utilization	Under utilization in %	-8	3	26	16	35	100	18	4	3	18	3	18
	Av. Unutilized Cap in MW throughout the Month		8	8	82	50	111	315	57	13	11	57	10	55	
	EPP	FCC (Rs/KWH)	1.39	1.39	1.39	1.39	1.39	#DIV/0!	1.39	1.13	1.13	1.13	1.13	1.13	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0.00	
		EPP (Rs/KWH)	1.39	1.39	1.39	1.39	1.39	#DIV/0!	1.39	1.13	1.13	1.13	1.13	1.13	
	2013	under utilization	Under utilization in %	64	100	100	97	43	4	17	8	4	8	11	9
Av. Unutilized Cap in MW throughout the Month			201	315	315	305	136	12	54	27	12	26	35	28	
EPP		FCC (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	1.39	1.39	1.39	1.39	
		VO&M (Rs/KWH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		EPP (Rs/KWH)	0.81	0.00	0.00	0.81	0.81	1.74	1.41	1.39	1.39	1.39	1.39	1.39	

