National Electric Power Regulatory Authority
Documents for Application of Generation Tariff Petitions

Islamabad, the 15th day of March, 2019

NOTIFICATION

S.R.O. 374 **(I)/2019.**-In exercise of powers conferred under Section 48 of the Regulation of Generation, Transmission and Distribution of Electric Power Act 1997, the Authority hereby notifies the following Forms (Form 1 – 15) for steam turbine based power plants operating on coal, residual furnace oil (RFO), gas, biomass, bagasse, solid waste and nuclear fuel.

Form 1	General Information of the Power Plant
Form 2	Breakup of Project Cost
Form 3	Breakup of capital cost for Coal, RFO, Gas, Bagasse, Biomass, Solid Waste and Nuclear fuel based projects
Form 4	Detailed Breakup of Non EPC and Project Development Costs
Form 5	Selection of EPC Contractor / Selection of O&M Contractor
Form 6	Financing Assumptions
Form 7	Technical Assumptions
Form 8	Plant Characteristics for Coal, RFO, Gas, Bagasse, Biomass, Solid Waste and Nuclear fuel based projects
Form 9	Breakup of Annual O&M Expenses
Form 10	Calculation of IDC
Form 11	Calculation of ROE
Form 12	Comparison with Similar Technology National and International Plants
Form 13	Calculation of Working Capital
Form 14	Debt Service Schedule (Typical for Local Currency)
Form 15	Reference Tariff Table (Fuel, Open Cycle)

These forms are to be submitted with petitions for determination of generation tariff under Rule 3 of the NEPRA (Tariff Standards and Procedure) Rules 1998.

15 03 19

(Syed Safeer Hussain)
Registrar

NATIONAL ELECTRIC POWER REGULATORY AUTHORITY
REGISTRAR
NEPRA

FORMAT FOR DOCUMENTS TO BE SUBMITTED FOR APPLICATIONS FOR GRANT OF GENERATION TARIFF UNDER RULE 3 OF THE NEPRA (TARIFF STANDARDS AND PROCEDURE) RULES 1998, FOR STEAM TURBINE BASED POWER PLANTS OPERATING ON COAL, RESIDUAL FURNACE OIL (RFO), GAS, BIOMASS, BAGASSE, SOLID WASTE AND NUCLEAR FUEL.

Form 1 – General Information of the Power Project

General Information of the Power Plant	
Name of the Generation Company:	-
Name of the Power Station	-
Installed Capacity ISO	(In MW)
Installed under Policy	(the 1994 / 2002 / 2013 / Captive / SPP etc whichever is applicable)
Project Type	Public / Private / PPP etc (whichever is applicable)
Executing Agency	PPIB / AEDB / Energy depts. / KE / G to G / Private (whichever is applicable)
LOI Details	Issued by PPIB / AEDB / Energy depts. / KE etc (whichever is applicable)
Basis	BOO or BOOT (whichever is applicable)
Location (Region, District, Province):	Haveli Bahadur Shah, Jhang, Punjab etc
Type of Tariff	Cost Plus, Upfront, Competitive, COD Adjustment, Review Motion etc (whichever is applicable)
NEPRA's Applicable Rules / Regulations	Tariff Standard Rules / Upfront Tariff Regulations etc (whichever is applicable)
Type of Technology:	Thermal
Characteristic of Plant:	Steam Turbine
Other Characteristic of Plant: (Boiler Type)	Subcritical boiler / Super Critical / Ultra Super Critical / Advanced Ultra super critical / Nuclear etc (Whichever is applicable)
Other Characteristic of Plant: (Turbine Type)	Condensing / Extraction / Backpressure etc (whichever is applicable)
Fuel Type	Coal/RFO/Gas/HSD/Bagasse/Biomass/ Solid Waste/Nuclear fuel etc (Highlight Primary, alternative and Secondary Fuel) etc
Site Specific Features:	Vicinity to sea / Near to Load centre / Thar Desert etc. (whichever is applicable)
Special Technological Features:	Siemens SST 6000 Turbine etc.
Environmental related Features:	FGD / ESP / CEM etc. (whichever is applicable)
Contract Type	Take and Pay / Take or Pay/ Not Applicable etc (whichever is applicable)
Power Purchaser	CPPAG or DISCO or BPCs or K-Electric etc (whichever is applicable)
Period of the Contract	30 years/ 5 years/ any number of year / Not Applicable etc (Whichever is applicable)
Construction Mode	EPC etc
Water Arrangement	Ground water / Special Arrangement other sources (whichever is applicable)
Generation License	Issued or under process
IA status	Signed / under process / Not applicable etc (whichever is applicable)
Sovereign Guarantee	Applicable / Not applicable
PPA / EPA status	Signed / under process / Not applicable etc (whichever is applicable)
Fuel Supply Agreement	Coal Supply Agreement / Gas Supply Agreement / Fuel Supply Agreement signed or under process etc (whichever is applicable) (Draft / signed contract be provide upfront)
Coal Jetty	Required / Not Required
Requested Levelized Tariff (Rs/kWh or US Cents/kWh) for a contract period	7.39 etc

Form 2 – Breakup of Project Costs

Description	USD Million or Any other Currency
EPC cost:	
Offshore EPC Cost	
Onshore EPC Cost	
Non EPC Cost:	
Project Development & Advisors cost	
Project Management	
O&M Mobilization and Training	
Land Cost	
Security Surveillance	
Insurance during construction	
Testing and Commissioning	
Custom duties and Cess	
Capital Spares	
One Month Escrow Account (If Required)	
Fuel Pipeline Cost	
Backup Fuel Inventory	
CAPEX	
Financing Fees & Charges	
Interest During Construction	
Misc Premium (e.g. ECA*) / Sinosure Fees	
DSRA**	
Total Project Cost	
Total Project Cost MUSD / MW	
* Export Credit Agency	
**Debt Servicing Reserve Account	

Form 3 – Breakup of Capital Costs for Coal, RFO, Gas, Bagasse, Biomass, Solid Waste and Nuclear Fuel based Projects

	USD (in millions) or Any other Currency
Power Island	
Plant and Equipment:	
Steam Generator Island	
Turbine Generator Island	
Civil works	
Main Plant and Admin building	
CW system	
DM Water Plant	
Clarification Plant	
Chlorination Plant	
Fuel Handling and Storage system	
Ash Handling System (wherever applicable)	
Coal Handling Plant (wherever applicable)	
Cooling Towers	
Road and Drainage	
Fire fighting system	
C&I Package	
Total Plant and Equipment excluding taxes and duties	
Initial Spares	
Balance of Plant	
BOP Mechanical:	
External Water Supply System	
Cooling Water System	
DM Water Plant	
Clarification Plant	
Chlorination Plant	
Fuel Handling and Storage system	
Ash Handling System (wherever applicable)	
Coal Handling Plant (wherever applicable)	
Rolling Stock and Locomotives	
Air Compressor system	
Air condition and ventilation system	
Fire fighting system	
HP/LP piping	
Total BoP Mechanical	
BOP Electrical	
Switchyard Package	
Transformer Package	

Switch gear Package	
Cables, Cable facilities and grounding	
Lighting	
Emergency D.G set	
Total BoP Electrical	
Ancillary Civil Works:	
Ash disposal area development (wherever applicable)	
Township and Colony	
Temporary construction and enabling works	
Total EPC Cost	
Details of Additional Facilities Required (Yes / No)	
Reverse Osmosis / Desalination Plant	
Railway spur line	
Jetty Details	
FGD plant	
Length of transmission line up to interconnection point	
BOP Spares not part of EPC scope	
Any Variations required from EPC scope	

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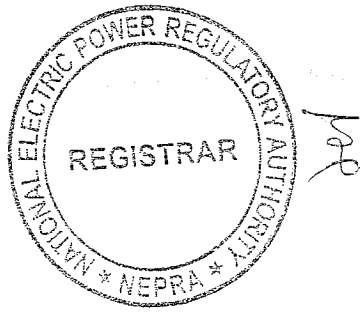
Form 4 – Breakup of Capital Costs for Coal, RFO, Gas, Bagasse, Biomass, Solid Waste and Nuclear Fuel based Projects

Items	Details
Project Development & Advisors cost	Attach Annexure
Project Management	Attach Annexure
O&M Mobilization and Training	Attach Annexure
Land Cost	Attach Annexure
Security Surveillance	Attach Annexure
Testing and Commissioning	Attach Annexure
Other Spares if not included in EPC / LTSA	Attach Annexure
Any Other	Attach Annexure

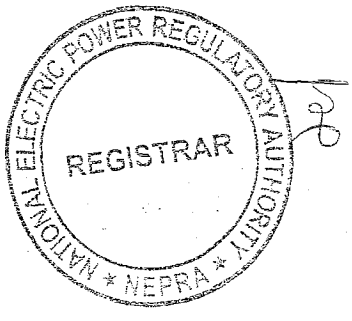
Note: Process of selection and hiring of consultants shall be provided along with relevant agreements.



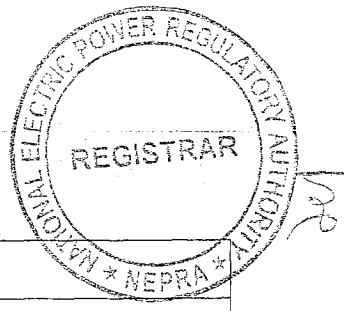
Form 5 – Selection of EPC Contractor / Selection of O&M Contractor

Applicable Framework (please underline or circle)	NEPRA (Selection of Engineering, Procurement and Construction Contractor by Independent Power Producers) Guidelines, 2017 (As amended from time to time)		
	NEPRA Competitive Bidding Tariff (Approval Procedure) Regulations, 2017 (As amended from time to time)		
Name / No of Construction / Supply / Service Package	Package A	Package B	Package C
Scope of works			
Awarded through ICB or not?			
No. Of bids received			
Date of award			
Date of start of work			
Date of completion of work			
Value of award			

Note: Provide all details of selection process of EPC Contractor / O&M Contractor including EOI's and RFP's

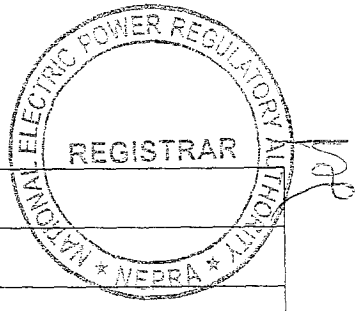


Form 6 – Financial Assumptions



Total Project Cost	Million US $ / Any other Currency
Capital Structure	
Debt	Million US $ / Any other Currency
Equity	Million US $ / Any other Currency
Debt % of Total Project Cost	%
Equity % of Total Project Cost	%
Debt (Foreign Component)	Million US $ / Any other Currency
Debt (Local Component)	Million US $ / Any other Currency
Equity (Foreign Component)	Million US $ / Any other Currency
Equity (Local Component)	Million US $ / Any other Currency
Loans etc.	Million US $ / Any other Currency
Construction Period	Months
Grace Period – Years	No.
Loan Repayment Period - Years	No.
Loan Repayment Terms and Details	
Return on Equity	%
Insurance Cost (as % of Total EPC)	%
Exchange Rate for US $ or other relevant currencies	PKR
KIBOR	%
Spread over KIBOR	%
LIBOR	%
Spread over LIBOR	%
Discount Rate	%
Land Required for Power Plant	Acres
Indexations on tariff components	Provide details
Expected Financial Close	dd-mm-year
RCOD	dd-mm-year
COD	dd-mm-year
Sinosure Fees (Wherever applicable)	Million US $ / Any other Currency

Form 7 – Technical Assumptions



Capacity Calculations	
Gross Capacity (ISO)	MWs
Gross Capacity (RSC)	MWs
Auxiliary Load (RSC)	MWs
Auxiliary Load (RSC)	% of gross capacity
Net Capacity (RSC)	MWs
Annual Net Generation at 100% plant factor	GWh
Efficiency Calculations: At ISO / MCR (As per OEM) at full load	
Thermal Efficiency Gross LHV ISO/MCR	%
Heat Rate Gross LHV ISO/MCR	Btu/kWh
Thermal Efficiency Net LHV ISO/MCR	%
Heat Rate Net LHV ISO/MCR	Btu/kWh
Efficiency Calculations: At RSC (Guaranteed by EPC Contractor) at full load (With and Without Correction Factors)	
Thermal Efficiency Gross LHV RSC	%
Heat Rate Gross LHV RSC	Btu/kWh
Thermal Efficiency Net LHV RSC	%
Heat Rate Net LHV RSC	Btu/kWh
Partial Load Curves v/s Heat Rate (Correction Factors)	OEM Curves on OEM Letter head
Degradation due to aging v/s Heat Rate (Correction Factors)	OEM Curves on OEM Letter head
Efficiency Sharing Mechanism	Yes / No
Misc. Information	
Plant Availability	%
Schedule Outage	Days
Forced Outage	Days
Maintenance Cycle	Years
Start /Stops	Allowed in PPA or Not?
Plant Factor	%
Project Useful Life	Years
Generation Voltage	kV
Interconnection Voltage Level	kV

Grid for Interconnection	Nearest Grid Available for Interconnection
Original Equipment Manufacturer (OEM) (Name of OEM Manufacturer)	-
Owners Engineer	-
EPC Contractor	-
Plant Machinery	New / Used
Status of Studies	Bankable Feasibility Study, Interconnection Study, EIA Study, Simulation Study, Stability Study, Geo technical study etc conducted/Approved or not?
Fuel Details	
Calorific Value of fuel (RFO / Coal / Gas / Bagasse / Biomass / Solid Waste / Nuclear fuel) LHV / HHV	Btu/lb or Btu/Scf
Conversion Factor BTUs/KGs	No.
HHV-LHV Factor	No.
Fuel Price HHV	USD/MMBtu or USD/kg or PKR/kg etc
Fuel Price LHV	USD/MMBtu or USD/kg or PKR/kg etc
Specific fuel Consumption (Gross / Net)	kg/kWh etc (Both gross / net)
Inland Transportation of Fuel	Yes / No
Adjustment in CV for RFO based projects only	Required / not?
Interconnectivity	
Interconnection Arrangement	220 KV / 132 KV / 11 KV etc

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Form 8 – Plant Characteristics for Coal, RFO, Gas, Bagasse, Biomass, Solid Waste and Nuclear Fuel based projects

Name of the Company			
Name of the Power Station			
Unit(s)/Block(s) Parameters	Unit – I	Unit – II	Unit – III
Name of Boiler Manufacturer			
Name of Turbine Generator Manufacturer			
Main Steam Pressure at turbine inlet (kg/cm2) abs1			
Main Steam Temperature at Turbine Inlet (deg C)1			
Main Steam flow at Turbine inlet under MCR condition (tons/hr)2			
Main Steam flow at Turbine inlet under VWO condition (tons/hr)2			
Reheat Steam Pressure at Turbine Inlet (kg/cm2) abs1			
Reheat Steam Temperature at Turbine Inlet (deg C)1			
Units gross electrical output under MCR / Rated condition (MW)2			
Units gross electrical output under turbine VWO condition (MW)2			
Design Condenser Back Pressure ((kg/cm2)(a))			
Design Cooling Water Temperature (deg C)			
Guaranteed Design Gross Turbine Cycle Heat Rate (kcal/kWh)3			
Guaranteed Design Gross Turbine Cycle Efficiency (%)			
Steam Flow at Super heater outlet under MCR condition (tons/hr)			
Steam Pressure at Super heater outlet under MCR condition (kg/cm2) abs			
Steam Temperature at Super heater outlet under MCR condition (deg C)			
Steam Temperature at Reheater outlet under MCR condition (deg C)			
Design / Guaranteed Boiler Efficiency (%)			
Type of Cooling Tower			
Type of Cooling System4			
Type of Boiler Feed Pump5			
Special Features/Site Specific Features6			
Special Technological Features7			
Environmental Regulation related Features8			
Any other Special Features			

Cooling Method: Dry Cooling / Wet Cooling etc (whichever is applicable)			
Condensate Cooling Mechanism: Once Through / Closed Loop etc(whichever is applicable)			

1- At Turbine MCR Condition

2- With 0% (Nil) make up and Design Cooling Water Temperature

3- At MCR output based on gross generation, 0% (Nil) Makeup and Design Cooling Water Temperature

4- Closed Circuit Cooling, once through cooling sea cooling, natural cooling, natural draft cooling, induced draft cooling etc.

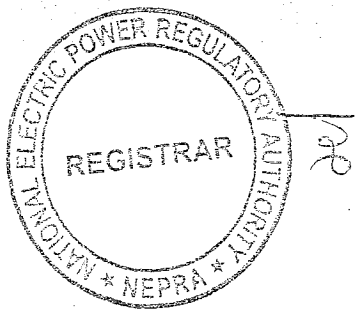
5 – Motor driven, Steam turbine driven etc.

6- Any site specific feature such as Vicinity to sea, Intake/makeup water systems etc. Scrubbers etc. Specify all such features.

7 – Any Special Technological feature like Advanced class FA Technology in Gas Turbines etc.

8- Environmental regulation related features like FGD, ESP etc.

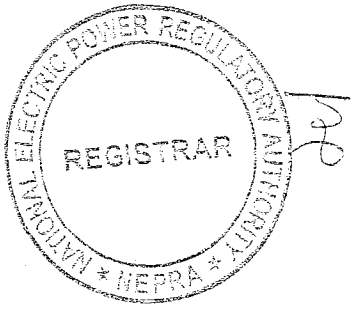
Note 1: Heat Balance Diagrams has to be submitted along with above information in case of new stations.



Form 9 – Breakup of Annual O&M Charges

Variable O&M	USD / kWh
Chemicals and consumables	
Repair and maintenance (Including Initial / Capital spares cost)	
Services and outages cost	
LTSA Variable Cost	
Fixed O&M	USD / kW / hr
Admin Expenses	
Rent	
Electricity Charges	
Travelling and Conveyance	
Telephone	
Advertising	
Entertainment	
Employee Cost	
Details of employees	
Salaries, wages and allowances	
Staff welfare expenses	
Office Expenses	
Security	
Transportation	
Professionals Fees	
Utilities	
Contract Services	
Training	
LTSA Fixed costs	
Initial Spares as a percentage of Plant and Equipment Cost (%)	
Annual O&M Cost as a percentage of Capital Cost (%)	
O&M Contractor (Local/Foreign)	

Note: LTSA Contract / O&M Contract be provide upfront for Approval



Form 10 – Calculation of IDC

Calculation of IDC

Debt Amount — US$ Million or any other currency
KIBOR
Spread over KIBOR
LIBOR / other
Spread over LIBOR / other
Total Interest Rate

	Construction Period			Debt			
Year	**1st Year**	**2nd Year**	**3rd Year**	**Principal**	**IDC**	**Fin. Fees**	**DSRA**
Opening Balance							
1st Quarter							
Principal Amount							
Interest							
Closing Balance							
Opening Balance							
2nd Quarter							
Principal Amount							
Interest							
Closing Balance							
Opening Balance							
3rd Quarter							
Principal Amount							
Interest							
Closing Balance							
Opening Balance							
4th Quarter							
Principal Amount							
Interest							
Closing Balance							
Total Debt Incl. IDC							

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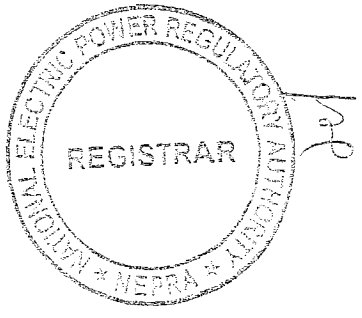
Form 11 – Calculation of ROE

IRR of _______ %				
Year	Equity (USD in Millions)	ROE (USD in Millions)	ROEDC (USD in Millions)	ROE (Rs/kWh)

Note: Energy shall be taken from technical assumptions

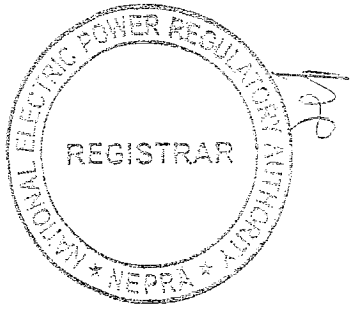
Form 12 – Comparison with Similar Technology National and International Plants

Comparison with Similar Technology National and International Plants			
Project Cost Breakup (Million USD) or any other currency			
EPC cost			
Offshore EPC cost			
Onshore EPC cost			
EPC Cost / MW			
Non EPC cost			
Project Development & Advisors cost			
Project Management			
O&M Mobilization and Training			
Land Cost			
Security Surveillance			
Insurance during construction			
Testing and Commissioning			
Custom duties and Cess			
Capital Spares			
One Month Escrow Account (If required)			
Capex			
Financing Fees and Charges			
Interest during construction			
* ECA Premium			
Total Project Cost			
Project Cost / MW			
Fixed O&M			
Variable O&M			
Export Credit Agency etc.			



Form 13 – Working Capital

Calculation of Working Capital		
Header	**Value**	**Unit**
Total Net Capacity		MW
Hours per Day		Hours
Heat Rate		Btu/kWh
Fuel Price		Rs./MMBtu
Daily Requirement of Fuel		MMBtu
( ) days Fuel Requirement		MMBtu
( ) days Fuel Cost at full load		Rs.
SBLC Charges (If Applicable)		Rs.
Receivable Requirement:		
Days		
Amount required for _____ days		Rs.
GST @ %		Rs.
Total Amount Required		Rs.
Base Rate		
Spread over KIBOR		
Total Interest Rate		
Cost of Receivables		Rs.
Alternate Inventory of Fuel		
Days		
Heat Rate (Gross Net) & (HHV LHV)		Btu/kWh
CV (Gross Net) & (HHV LHV)		Btus/Litre
Alternate Fuel Requirement for ----days on 60% Load		Litres
Alternate Fuel Price including Sales Tax		
Total Amount Required		
Total cost of Working Capital		
Working Capital Component		Rs./kW/h



Form 14 – Debt Servicing

Debt Service Schedule (Typical for Local Currency)

Gross Capacity	MWs	US$/PKR Parity	
Net Capacity	MWs	Debt	US$ Million
KIBOR		Debt in Pak Rupees	Rs. Million
Spread over KIBOR			
Total Interest Rate			

Period	Principal Million Rs.	Principal Repayment Million Rs.	Interest Million Rs.	Balance Million Rs.	Debt Service Million Rs.	Principal Repayment Rs./kW/h	Interest Rs./kW/h	Debt Servicing Rs./kW/h
1								
2								
3								
4								
1st Year								
5								
6								
7								
8								
2nd Year								
9								
10								
11								
12								
3rd Year								
13								
14								
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4th Year								
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9th Year								
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38								
39								
40								
10th Year								

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Form 15 - Reference Tariff

Reference Tariff Table (Fuel, Open Cycle)																		
Year	Energy Purchase Price (Rs./kWh)						Capacity Purchase Price (PKR/kW/Hour)									Total Tariff	
	Fuel	Ash / Bagasse waste Disposal	Water Charges	Limestone	Var. O&M	Total EPP	Fixed O&M local	Fixed O&M foreign	Cost of W/C	Insurance	ROE	Debt Repayment	Interest Charges	Total CPP	Capacity* charge@ ---- %	Rs. / kWh	Cents/kWh
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
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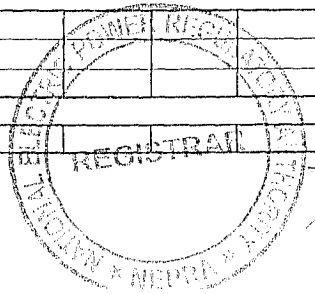
26																	
27																	
28																	
29																	
30																	
Average																	
1-10																	
11-30																	
1-30																	
Levelized																	
1-30																	

* Plant factor depending on the technology and fuel



National Electric Power Regulatory Authority
Islamic Republic of Pakistan

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NEPRA Tower, G-5/1 (East), Near MNA Hostel, Islamabad
Phone: 9206500, Fax: 2600026
Website: www.nepra.org.pk, Email: info@nepra.org.pk

No. NEPRA/ACG-01/4544 March 15, 2019

The Manager
Printing Corporation of Pakistan Press
Shahrah-e-Suharwardi
Islamabad

Subject: **PRINTING OF NOTIFICATION**

Enclosed please find herewith a notification alongwith Forms (Forms 1-15), for steam based power plants operating on coal, residual furnace oil, biomass, bagasse, solid waste or nuclear fuel, to be submitted with petitions for determination of generation tariff under Rule 3 of the NEPRA (Tariff Standards and Procedure) Rules 1998. The said notification is being forwarded for immediate publication in the official Gazette of Pakistan in exercise of power conferred under Section 48 of Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (NEPRA Act).

2. Thirty (35) copies of printing notification/SRO may please be furnished to this after publication.

Encl:
1. Notification alongwith 15 forms[20 pages]
2. Soft Copy (01 CD)

— Sd —
(Syed Safeer Hussain)

No. NEPRA/ACG-01/4545 March 15, 2019

Forwarded for information please.

1. Sr. Advisor (Tech)
2. Sr. Advisor (Tariff)-I
3. DG(M&E)
4. DG(Admin&HR)
5. DG(C&I)
6. ADG (Licensing)
7. ADG(CAD)
8. Sr. LA (LLP)
9. LA(Legislation)
10. Master File *[w.r.t. ATC M(CA) Office Dy. 660 dated 27-02-2019 & RO Dy. No. 906 dated 14-03-2019]*

Registrar 15/03/19

CC:
1. Vice Chairman/ Member (CA)
2. Member (M&E)/Member (Tariff)
3. Member (Licensing)

National Electric Power Regulatory Authority
Islamic Republic of Pakistan

REGISTRAR

NEPRA Tower, G-5/1 (East), Near MNA Hostel, Islamabad
Phone: 9206500, Fax: 2600026
Website: www.nepra.org.pk, Email: info@nepra.org.pk

No. NEPRA/ACG-01/4544 March 15, 2019

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3. DG(M&E)
4. DG(Admin&HR)
5. DG(C&I)
6. ADG (Licensing)
7. ADG(CAD)
8. Sr. LA (LLP)
9. LA(Legislation)
10. Master File *[w.r.t. ATC M(CA) Office Dy. 660 dated 27-02-2019 & RO Dy. No. 906 dated 14-03-2019]*

15 03 19
Registrar

CC:
1. Vice Chairman/ Member (CA)
2. Member (M&E)/Member (Tariff)
3. Member (Licensing)