

### Northern Power Generation Company Limited

425 MW Combined Cycle Power Plant Nandipur, Gujranwala



Office of the Plant Manager CCPP, Nandipur Phone: 055 3400552 Fax : 055 3493761

email:- naveed.athar@yahoo.com

No. NPGCL/PM/NP/GL/ 2 5 5 3

The Registrar.

National Electric Power Regulatory Authority. NEPRA Tower, Attaturk Avenue (East), G-5/1, Islamabad.

Subject: APPLICATION FOR GRANT OF GENERATION LICENSE ON BEHALF OF NORTHERN POWER GENERATION COMPANY LIMITED IN RELATION TO ITS COMBINED CYCLE POWER PLANT, NANDIPUR TO BE LOCATED AT DISTRICT GUJRANWALA-PUNJAB.

I, Naveed Athar, Plant Manager, CCPP Nandipur being the duly authorized representative of CCPP Nandipur of Northern Power Generation Company Limited by virtue of BOARD RESOLUTION No. NPGCL/BoD-131/14-18 Dated:- 11-01-2022, hereby apply to the National Electric Power Regulatory Authority (NEPRA) for the grant of a GENERATION LICENSE to the CCPP Nandipur of Northern Power Generation Company Limited (NPGCL) pursuant to Section 14 (b) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (2000).

I hereby certify that the documents-in-support attached with this application are prepared and submitted in conformity with the provisions of the National Electric Power Regulatory Authority Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021, and undertake to abide by the terms and provisions of the above-said regulations. I further undertake and confirm that the information provided in the attached documents-in-support is true and correct to the best of my knowledge and no material omission has been made.

An amount of PKR 1,502,759 on account of license application fee has already been submitted and balance amount of PKR 166,752/- (Rupees One Hundred Sixty Six Thousand Seven Hundred Fifty Two only), calculated in accordance with Schedule II to the National Electric Power Regulatory Authority Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021, is submitting now. BANK DRAFT No. BBB 14595845 Dated:-05-06-2022 is attached herewith.

Sincerely,

For and on behalf of CCPP Nandipur.of NPGCL

Plant Manager and authorized Representative



### Northern Power Generation Company Limited

Thermal Power Complex, Mehmood Kot Road, Muzaffargarh



Company Secretary Office

No. NPGCL/BoD-131/08/14-18

January 11, 2022

Phone: 066-9200296-Fax-066-9200166

### OFFICE MEMORANDUM

To:

The Chief Executive Officer NPGCL, TPS Muzafargarh

Subject:

Matter of Carving Out CCPP Nandipur from NPGCL

The Board of Directors of NPGCL has taken up the subject matter in its meeting No.131 held on January 10, 2022.

The Board has passed the following resolution:

"Resolved that the a separate power generation license be obtained for CCPP Nandipur from NEPRA in the light of direction conveyed by Ministry of Energy (Power Division) vide Office Order No. 1(33)GP-I/2021 dated 31<sup>st</sup> December 2021 and the CEO NPGCL and Plant Manager CCPP Nandipur be and are hereby authorized jointly and individually to take all measures for the purpose including but not limited to signing of prescribed applications and payment of requisite license fee(s) to NEPRA."

This is for your information and necessary action please.

Ahmed Noman

Company Secretary

Copy for Information and necessary action please:

- 1. Chief Financial Officer, TPS Muzaffargarh
- 2. Plant Manager, CCPP Nandipur
- 3. Chief Engineer/TD, NPGCL, TPS Muzaffargarh

Copy for Record:

Master File

### **PROSPECTUS**

**Project Name:** 

425-525 MW, Combined Cycle Power Plant, Nandipur. On the left bank of Upper Chenab Canal (within the premises of the existing small Hydel Power Station,

Nandipur, Gujranwala).

Commencement Date: Initial Completion Date

Location of the Project:

Oct-16, 2008 Apr 16, 2011

Work Suspension Period April-2010 to October-2013 owing to financial& legal reasons. (Non-issuance of legal opinion to Foreign lenders by Ministry of Law, Justice and parliamentary affairs and subsequent withholding of Original Bills of Lading by the Letter of Credit (L/C) opening local Banks'.

Re-commencement
Date

COD of 1<sup>st</sup> Gas turbine
COD of 2<sup>nd</sup>Gas turbine
COD of 3<sup>rd</sup>Gas turbine
27-03-2015
COD of 3<sup>rd</sup>Gas turbine
20-05-2015
Power Plant achieved
COD on
21-10-2013
21-10-2013
21-10-2013
27-03-2014
27-03-2015

Project Cost as per PC-

Original 22,335 Millions Revised Rs. 58,416 Millions

Tariff approved by NEPRA (levelized)

Rs. 11.6361/KWH on HSFO

Rs. 10.3157/KWH on Gas

- 100 MMCFD gas quota has been allocated for Nandipur Plant.
- M/S SNGPL has commissioned the pipeline with metering station against deposit work.
- Conversion to Gas Fuel
- M/S General Electric (GE) hascompleted the works whereas regarding the BoP Works, the EPC contract has been signed with M/S Amcorp-Gasco(JV) on 13.02.2017. M/S Amcorp-Gasco (JV) has completed all the works including installation of Gas Booster Compressors and Performance Testing of the Complex..
- The Plant is operating on gas fuel after successful gas conversion works since **26.04.2017**

History and

Nandipur Combined Cycle Power Plant 525 MW Capacity comprises of three Gas Turbines, each of 110 MW Capacity, one Steam Turbine of 195 MW Capacity and three HRSGs supplying steam to the Steam Turbine along-with associated BOP. The plant is capable of operating on Gas (RLNG) and Liquid (HSD) Fuels.

Location Nandipur- Gujranwala. (Map attached as Annex-I)

Size (Capacity in MW) 525 MW-Gross Capacity at site conditions. (Detail

attached as Annex-II)

Fuel Type Gas (RLNG) by SNGPL through pipeline and HSD

by PSO (Detail Attached as Annex-III)

Emission Values Detail attached as **Annex-IV**.

Cooling Water Source Canal/Tube wells (Detail attached as Annex-V)

Interconnection with NTDC, Scheme & Single-Line Diagram (Attached

NGC as Annex-VI)

### **Plant**

### **Characteristics:**

Generation Voltage 15 kV

Frequency 50Hz, ± 2.5% Power Factor 0.85 (Lagging)

Auxiliary Consumption 2.536 % Efficiency of Gas 30%

Turbines

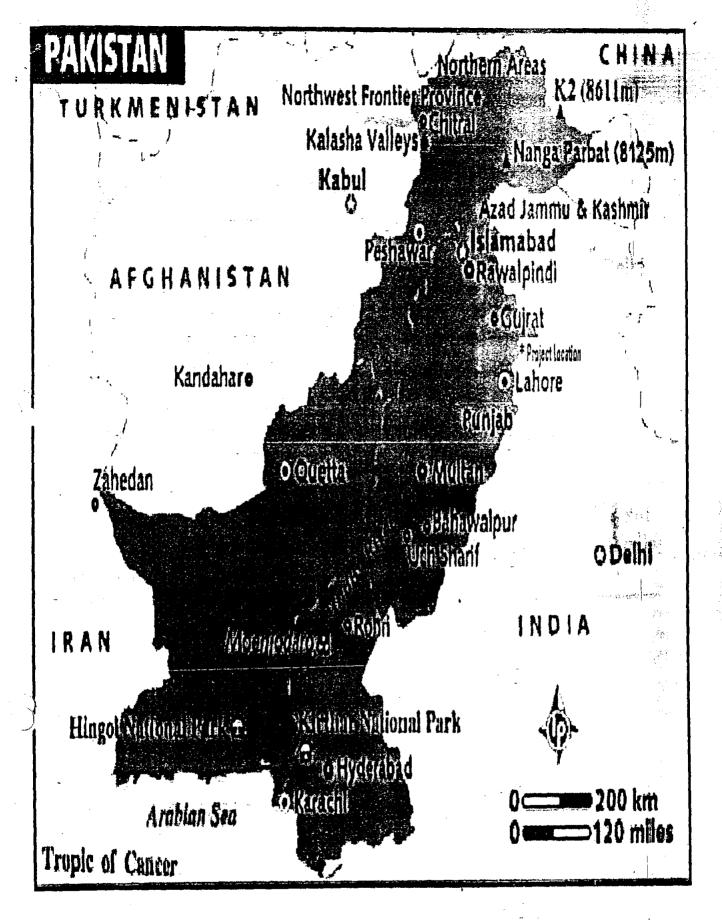
Combined Cycle 49%

Efficiency

Project Cost Rs. 57,380 Million Unit Cost Rs. 109,296/kW

## **ANNEXURE-I**

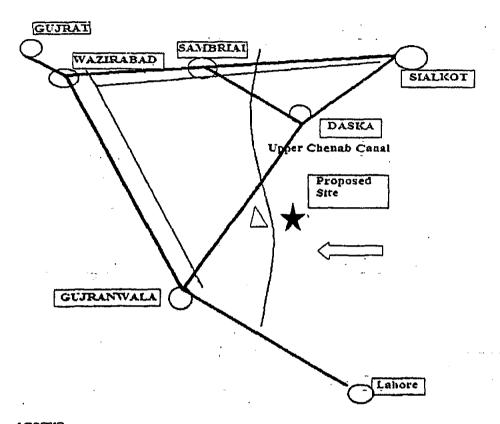
Location Maps, Site Maps, Land



Gujranwala (Matter) obiens Ŵ PARTY ENI Wash Watch Rope Sialkot

## PROPOSED SITE FOR NANDIPUR 425 MW THERMAL COMBINED CYCLE PROJECT

(Sketch Not To Scale)



### **Legend**

Δ	Existing Hydel Power Station Nandipur.	
	Road	
	Rail	
$\sim$	Upper Chenab Canal	
1	Proposed Site Of CCPP,	
<b>X</b>	Nandipur.	

## ANNEXURE-II

Technology, Size of Plant, No. of Units

## Technology, Size of Plant, No. of Units

1	Type of Technology	Combined Cycle Power Plant (CCPP)			
2	Number of Units	3 x Gas Turbine			
	<del>-</del>	1 x Steam Turbine			
Plar	nt Capacity/Size MW	On HSFO	On Gas (RLNG)	On HSD	
3	474.0	474.0	565.65 MW	474.0	
4	425.0	425.0	513.51 MW	425.0	
5	411.0	411.0	500.49 MW	411.0	
6	14.0 MW (3.29 %)	14.0 MW (3.29 %)	13.02 MW (2.536 %)	14.0 MW (3.29 %)	

## **ANNEXURE-III**

## Fuel

Type, Imported/Indigenous, Supplier, Logistics, Pipelines etc.

## **FUEL DETAILS**

1	Primary Fuel	Gas (RLNG)
2	Alternative / Back-up Fuel	HSD
3	Primary Fuel Source (Imported/Indigenous)	Imported
4	Fuel Supplier	SNGPL & PSO
5	Supply Arrangement	Gas by SNGPL through Pipe-Line. HSD by PSO through Oil Tankers.
6	No. of Storage Tanks	02
7	Storage Capacity of Each Tank	10,000 M Ton
8	Total Gross Storage	20,000 M Ton

## ANNEXURE-IV

**Emission Values** 

## **EMISSION VALUES**

Sr. No.	Description	GAS	HSD
1	SO <sub>x</sub> (SO <sub>2</sub> )	< 1% Very Low	Later
2	NO <sub>x</sub> @ 15% O <sub>2</sub> )	Very Low	Later
3	СО	Very Low	Later
4	РМ	Very Low	ater

• Within permissible limits of World Bank.

## **ANNEXURE-V**

Cooling Water Source
Tube-Wells, Sea/River/Canal, Distance from
Source etc.

## **COOLING WATER SOURCE**

### **Upper Chenab Canal (UCC):**

Cooling water for the Plant shall be supplied from UCC passing through the Plant virtually having no distance. Average flow of canal-water is 8,000 Cusecs. Raw water from Canal shall be pumped and passed through the condenser of Steam Turbine in Open-cycle mode.

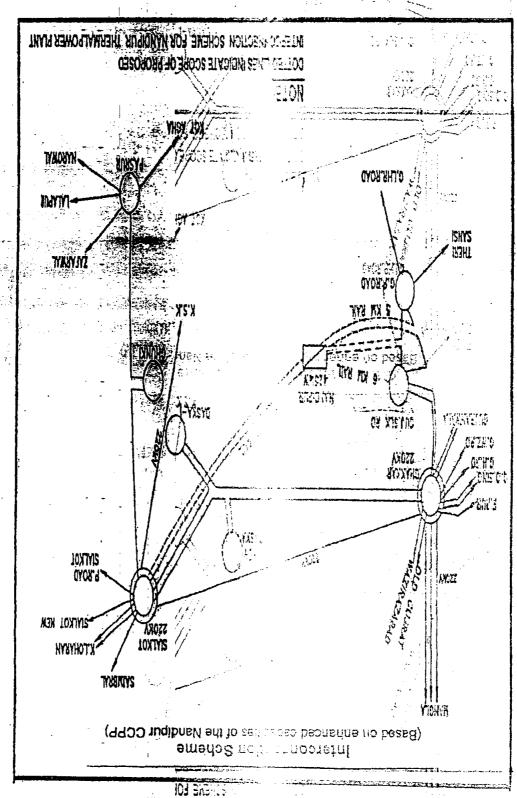
## **Tube-Wells & Cooling Towers:**

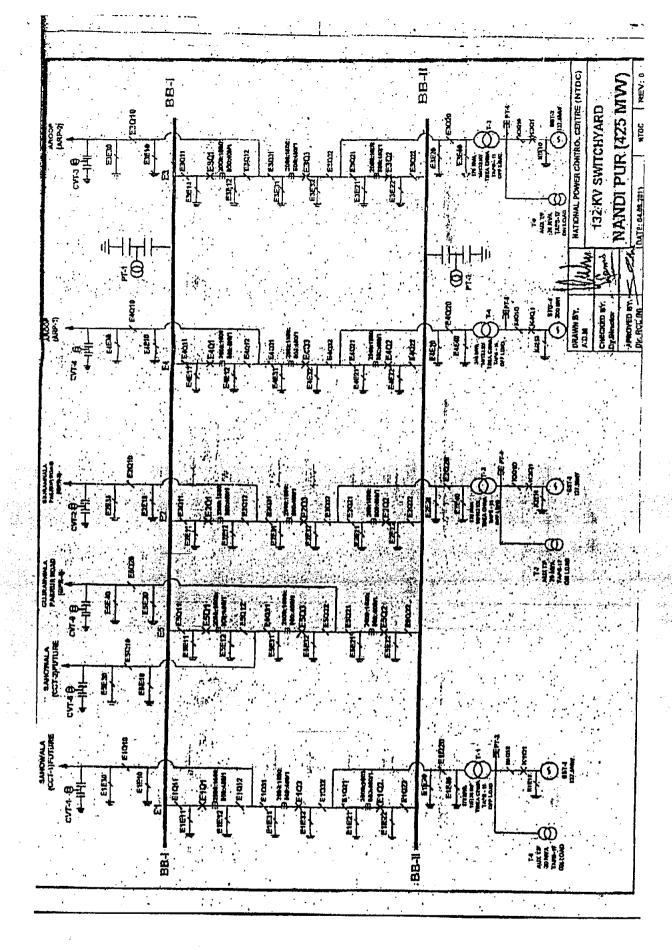
During canal closure which is normally less than on month in a year, tube wells installed inside the boundary of the plant, shall supply make-up water to the Cooling Towers for cooling of the Plant in Closed-Cycle mode.

## Interconnection with National Grid

The Power generated from the Power Plant shall be dispersed to power system directly within GEPCO load center at 132kV voltage level through six circuits comprising three D/C transmission lines as follows:

- •132 kV D/C T/Line with twin bundle Rail Conductor (on 220 KV Towers) from Nandipur CCPP to Sahowala 220/132 kV Substation (33 Km).
- Two 132kV D/C T/Lines on AASC Greely Conductor for looping In/Out of 132 KV D/C T/Lines from Gujranwala Pasrur Road - Gujranwala Sialkot Road (Aroop) at Nandipur CCPP (7.0 + 6.5=13.5 Km)





# Detail of installed Capacity CCPP, Nandipur

## Detail of installed Capacity CCPP, Nandipur

	On HSFO		On Gas Fuel		On HSD	
	ISO 15 °C	Site Condition 30 °C	ISO 15 ºC	Site Condition 30 °C	ISO 15 ºC	Site Condition 30 °C
03 no. Gas Turbines (MW)	3 x 106.7 = 320.1 MW	3 x 95.4 = 286.2 MW	3 x 122.1 = 366.3 MW	3 x 110.5 = 331.8 MW	3 x 106.7 = 320.1 MW	3 x 95.4 = 286.2 MW
01 No. Steam Turbine (MW)	1 x 153.89 = 153.89 MW	1 x 138.80 = 138.80 MW	1 x 199.35 = 199.35 MW	1 x 182 = 182.0 MW	1 x 153.89 = 153.89 MW	1 x 138.80 = 138.80 MW
Gross Capacity of complete CCPP (MW)	474.0 MW	425.0 MW	565.65 MW	513.51 MW	474.0 MW	425.0 MW
Net output of complete CCPP (MW)	460.0 MW	411.0 MW	550.00 MW	500.49 <b>MW</b>	460.0 MW	411.0 MW
Auxiliary consumption	13.99 MW (2.95 %)	14.0 MW (3.29 %)	15.65 MW (2.766 %)	13.02 MW (2.536 %)	13.99 MW (2.95 %)	14.0 MW (3.29 %)

### THE COMPANIES ORDINANCE, 1984

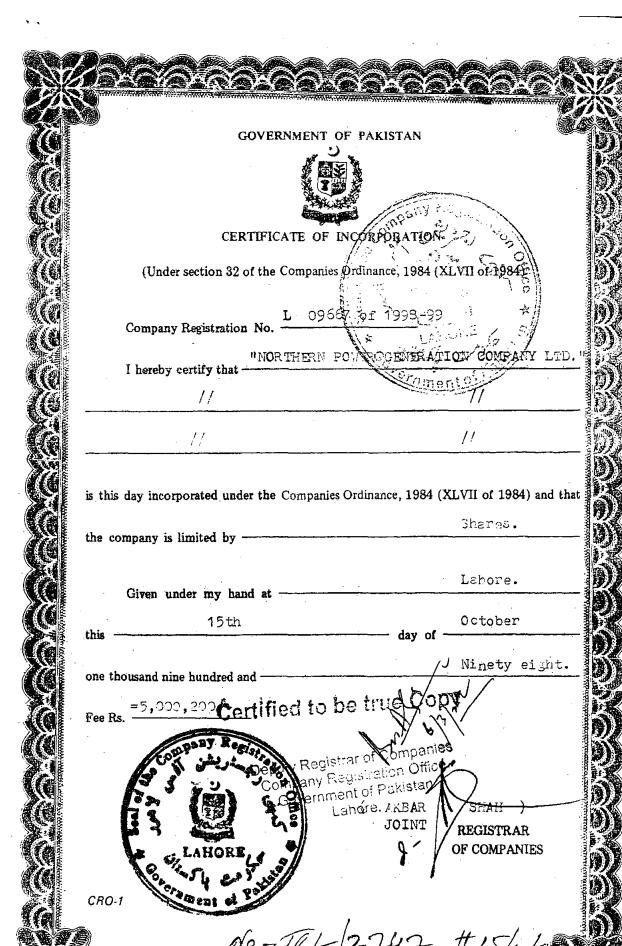
Company Limited by Shares

Memorandum

and

**Articles of Association** 

**NORTHERN POWER GENERATION COMPANY LIMITED** 



### GOVERNMENT OF PAKISTAN



## CERTIFICATE FOR COMMENCEMENT OF BUSINESS [Under section 146 (2) of the Companies Ordinance, 1984 (XEVI) of 1984)]

**NOR THERM POLICE	R GENERATION COMPANY LTD.
I nereby certify that the	. which was incorporated under the
Companies Ordinance, 1984 (XLVII of 1984), on the	15+6
day of October 19 98	and which has filed a duly verified
declaration in the prescribed form that the conditions	of clauses (a) to (e) of sub-section
(1) of Section 146 of the said Ordinance have	been complied with, is entitled to
commence business.	
Lahor	26
Given under my hand at Lahor	
this23rd	day of
one thousand nine hundred and	N <sub>i</sub> nety eight.
Certified to Deputy Registra Company Reg Gevernment Lahr	be true Copy  arrol Companies istration Office t of Pakistakban Shah )  ore Joint Registrar of Companies
No 181-13662	#23/11/98

### NORTHERN POWER GENERATION COMPANY LIMITED

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### NORTHERN POWER GENERATION COMPANY LIMITED

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#### THE COMPANIES ORDINANCE 1984

#### PUBLIC COMPANY LIMITED BY SHARES

### MEMORANDUM OF ASSOCIATION

-of-

#### NORTHERN POWER GENERATION COMPANY LIMITED

- I. The name of the Company is "Northern Power Generation Company Limited".
- II. The registered office of the Company will be situated in the Province of Punjub. Pakistan.
- III. The objects for which the Company is established are to undertake any it all of the following businesses in and outside Pakistan:
  - Muzaffargarh, Multan, Multan Cantt, Faisalabad and Shahdara Power Facilities. To acquire or purchase from the Pakistan Water and Power Development Authority ("WAPDA") the business, properties, assets, and undertakings of WAPDA's blended fuel oil, high speed diesel, natural gas, and combined cycle power stations, having a combined nominal generation capacity of 2111.5 MW, consisting of twenty nine (29) thermal power generation units situated in the Districts of Muzaffargarh, Multan, Faisalabad and Lahore respectively, all in the Province of Punjab, together with related facilities Teollectively, the "Facilities") and to take over any or all of the belongings, fands, assets, rights, privileges, liabilities, obligations and contracts related to or in respect of the facilities.
  - 2. Power Generation. To carry on the businesses of generating purchasing, importing, transforming, converting, distributing, supplying, exporting and dealing in electricity and all other forms of energy and products or services associated therewith and of promoting the conservation and reflicient use of electricity and all other forms of energy, and all other powers necessary or incidental to the business of electricity generation; transmission, distribution and supply.
  - 3. Electrification. To do anything which a public electricity generation licensee is empowered or required to do under or by virtue of or under a license or other authorization granted according to law and its implementing rules and regulations or any statutory instrument made thereunder or any statutory modification or reenactment thereof and to plan, survey, design, supply equipment, and carry out the electrification of cities, towns, villages, gas and oil refineries, workshops, buildings, highways, bridges, ports, air terminals, and other premises within or outside Pakistan.
  - 4. Dealer in Electrical Equipment. To carry on all or any of the businesses of wholesalers, retailers, traders, importers, exporters, suppliers, distributors, designers, developers, manufacturers, installers, fitters, testers, repairers, maintainers, contractors, constructors, operators, users, inspectors, reconditioners,

servicers, improvers, alterers, protectors, removers, hirers, replacers, importers and exporters of, and dealers in, electrical appliances, systems products and services used for energy conservation, domestic, commercial, agricultural, industrial, household and general equipment, furniture, fixtures. fittings and devices, and all other kinds of goods, equipment, machinery, materials and installations, including but not limited to cables, wires, meters, pylons, tracks, rails, pipelines and any other plant, apparatus, equipment, systems and things incidental to the efficient generation, procurement, transformation, supply, and distribution of electricity.

- 5. Determination of Bulk Supply Tariff Rates. To ascertain the bulk supply tariff rates that will secure recovery of operating costs, interest charges and depreciation of assets, redemption at due time of loans other than those covered by depreciation, expansion projects, payment of taxes, and a reasonable return on investment, and to petition the appropriate government body for the adoption of or increase in its schedule of bulk supply tariff rates.
- Facilities and Installations. To locate, establish, construct, equip, operate, use, manage and maintain thermal power plants, power grid stations, transforming, switching, conversion, and distribution facilities, grid stations, cables, overhead lines, substations, switching stations, tunnels, cable bridges, link boxes, telecommunications stations, masts, aerials and dishes, fiber optic circuits, satellites and satellite microwave connections, heat pumps, plant and equipment for combined liest and power schemes, offices, computer centers, shops, a dispensing machines for pre-payment cards and other devices, showrooms, depots, factories, workshops, plants, printing facilities, warehouses and other storage facilities (including but not limited to facilities for storage and disposal of products and waste), training, education and display centers, stands and show-houses, testing premises, laboratories, research stations, compressor stations, vehicle a parks; terminals, transport facilities, roads, and other electrical cinetallations and infrastructure it may deem beneficial to its business.

- 7. Accordance and conveyance of Assets. To acquire or convey, whether by purchase, lease, concession, grant, hire or otherwise, establish, develop, exploit, operate and maintain real or personal properties including but not limited to land, any estates in land, claims, licenses, concessions, easements, exploration and production rights, and rights or interests of all descriptions in or relating to the same, which may seem to the Company capable or possibly capable of affording or facilitating the generation purchase, transformation, conversion, supply, distribution, and development of electricity or any other form of energy, and for the accomplishment of all the purposes of the Company herein stated.
- 8. Site Development. To build, construct, maintain, alter, enlarge, pull down, and remove or replace structures, factories, offices, works, wharves, roads, railways, tramways, machinery, engines, walls, fences, banks, dams, sluices or water courses and to clear sites for the same and to work, manage and control the same and to carry on any other business which may seem to the Company capable of being conveniently carried on in connection with the above or calculated directly or indirectly to enhance the value of or render more profitable the Company's properties, but not to engage in the business of a real estate developer.

- 9. Intellectual Property Rights. To apply for and take out, purchase or otherwise acquire any patents, patent rights, inventions, secret processes, designs, copyrights, trademarks, service marks, commercial names and designations, technological know-how, formulae, licenses, concessions and the like (and any interest in any of them), and exclusive or non-exclusive or limited rights to use any secret or other information as to any invention or secret process of any kind, and to use, exercise, develop, and grant licenses in respect of, and otherwise turn to account and deal with, the property, rights and information so accoursed.
- 10. Metering. For the purposes of electricity generation and supply, distribution and communication, to install in, on, above or under any premises or place and to operate, use, inspect, maintain, repair, replace and remove cables, lines, ducts, transformers, switchgear (remotely controlled and otherwise, and including time switches), fuses, circuit breakers, electricity service equipment, meters and other devices for measuring or controlling the quantity or quality of electricity supplied, prepayment and debt payment devices, items provided to afford access to, support, encase, insulate, and protect from damage or tampering, the above-mentioned gadgets, or to protect people and property from injury or damage, or to comply with any legal obligation and for other purposes associated with the generation and supply of electricity and to install all such things and apparatus and items for the purposes of generating, supplying, measuring and controlling light, heat, steam, hot water, air-conditioning and refrigeration, and for associated purposes, including payment for these facilities.
- Demand Forecasting. To provide or procure the provision of such facilities and services as may be necessary or desirable to forecast effective energy demand and to satisfy such demand.
- Transportation. To acquire, (whether by purchase, lease, concession grant, hire or otherwise), charter, lease, take or letten hire, operate, use, employ or turn to account, build, equip, service, repair, maintaint and supply motor vehicles, railway locomotives, wagons, trucks, vessels, and craft of any description, engineering plants and machinery, and parts and accessories of all kinds, and to carry on the businesses of storage contractors, freight contractors carriers by said, water and air, of freight and passengers, forwarding agents, shipping agents and agents of any other kind, in so far as such activities are incidental to or necessary for the generation, transformation, supply and distribution of electricity.
- 13. Audio-Visual System. To carry on as principal, agent, contractor or subcontractor all or any of the businesses of running, operating, managing, supplying and dealing in systems for the conveyance by any means of sounds, visual images, signals, and services, facilities and equipment ancillary to or for use in connection with such systems.
- 14. Management Information System. To carry on all or any of the businesses of running, operating, managing, supplying and dealing in data processing and information retrieval systems, computers, computer programmes and software, computer bureau and data bases, meter reading and credit checking and to provide services, facilities and equipment ancillary to or for use in connection with the same.

- Research and Development. To carry on business as inventors, researchers and developers, to conduct, promote and commission research and development in connection with the businesses and activities of the Company and its subsidiaries, to establish and maintain research stations, laboratories, workshops, testing and proving grounds and sites, facilities and establishments and installations, and to exploit and turn to account the results of any research and development carried out by or for it.
- Labour Contracting. To carry on all or any of the businesses of consultants, advisers and suppliers of management, personnel and training services, whether generally or in respect of one or more of the types of business or activity which the Company has power to carry on, and to provide training and educational courses, instruction and materials, of every description for workers of the Company and for other persons.
- Contracts. To enter into agreement with any individual, firm, cooperative or other society, company, corporate body. Government or local authority or other legal entity necessary or expedient for the purpose of carrying on any business of the Company.
- Engineeting Services To carry on all or any of the businesses of and provide services associated with engineers (including without limitation electrical, incertainties, heating, ventilation, civil, chemical, sanitation, telecommunications and gas engineers), mechanics, technicians, draftsmen, designers, surveyors, architects, builders, installers, and shopfitters.
- 19. Advertisement. To adopt such means of making known the products of the company as may seem expedient and, in particular, by advertising in the press, by circulars; by purchase and exhibition of works of art or interests, by publication of book and periodicals can by granting prizes, rewards and donations.

- Other Businesses. To carry on all or any of the businesses of manufacturers, wholesalers, retailers, and traders, whether generally or in relation to particular goods or commodities, and to carry on all or any of the businesses of factors, debt collectors, and developers of and dealers in property, so far as incidental to or necessary for the generation, transformation, distribution and supply of electricity.
- Borrowing. To borrow or raise money or secure or discharge any debt or obligation (whether of the Company or any other person) in such manner as the Company thinks fit and in particular (but without prejudice to the generality of the foregoing) by the creation or issue, upon such terms as to priority or otherwise as the Company thinks fit, of securities of any kind or mortgages or discharges founded or based upon all or any part of the undertaking, property, assets and rights (present and future) of the Company, or, without any such security, and advance payments with or without allowance of mark-up thereon.
- Bank Accounts. To open, operate, transfer, and close banking accounts of the Company with any bank or banks and to draw, make, accept, endorse, discount, execute, and issue promissory notes, bills of exchange, bills of lading, warrants, debentures, and other negotiable/non-negotiable or transferable/non-transferable instruments, but not to act as a finance or banking company.

- Guaranty and Suretyship. To exter into any guarantee, coderact of indemnity or suretyship and, in particular (without prejudice to the generality of the foregoing), to guarantee, support or secure, with or without consideration, whether by personal obligation or by moregaging or charging all or any part of the undertaking, property and assets (present and funite), and unsubscribed capital of the Company or by both such methods or in any other manner the performance of any contract, obligation or commitment of; and the repayment or payment of the principal amounts of and any premiums, interest, divisions, and other moneys payable on or in respect of any securities or liabilities of any person, including (without prejudice to the generality of the foregoing) any company which is a subsidiary, an affiliate or a holding company of the Company or otherwise associated with the Company, whether or not any variable consideration or advantage is received by the Company.
- 24. Partnerships. To enter into partnership, joint venture or cooperation arrangements with any person or company or other legal entity, local or foreign, carrying on or engaged in any business or transaction which the Company is authorized to carry on or engage in, or otherwise seek assistance from or assist any such person, company or legal entity.
- Related Businesses. To acquire by any means the whole or any part of the assets, and to undertake the whole or any part of the habilities, of any person, natural or juridical, carrying on or proposing to carry on any business which the Company is authorized to carry on or which can be carried on in connection therewith, to acquire an interest in, amalgamate or enter into partnership or into any arrangement for sharing profits, cooperation, or mutual assistance, with any such person, to promote, form and sponsor any company or companies in furtherance of the objects herein stated, and to give or accept, for any of the acts or things aforesaid or property acquired, such consideration as the Company thinks fit, including without limitation, any shares, debentures, or other securities or rights.
- 26. Equity Investment. To invest the surplus moneys of the Company not immediately required in any manner to subscribe for, purchase or otherwise acquire, and to hold, and deal with, any shares, debentures, bonds, notes, and other securities, obligations and investments of any nature whatsoever, including any options or rights in respect of them, and otherwise to invest and deal with the money and assets of the Company, but not to act as an investment company.
- 27. Lending. To advance money or give credit to such persons or companies and on such terms as may seem expedient and, in particular, to customers and others having dealings with the Company, to guarantee the performance of any contract or obligation and the payment of money by the Company, and to accept securities of any person or any property or interest therein of whatever nature in payment or partial payment for any services rendered or for any sale or supply made to, or debt owing from, any such person, but not to act as a finance or banking company.
- 28. Trusts. To vest any real or personal property, rights or interests acquired by or belonging to the Company in any person or company on behalf of or for the benefit of the Company, with or without any declared trust in favour of the Company, and to undertake and execute any trust the undertaking whereof may seem desirable, either gratuitously or otherwise.

29. Portfolio Investments. - Subject to such terms and conditions as may be thought advantageous, to trade its shares and to undertake markup and currency swaps, options (including traded options), swap option contracts, forward exchange contracts, futures contracts or other financial instruments allowed by law, including hedging agreements of any kind, all or any of which may be on a fixed and/or floating rate basis and/or in respect of local or foreign currency or commodities of any kind, but not to engage in the business of a stockbroker.

- 30. Government Permissions. To apply for and obtain necessary consents, permissions and licenses from any Government. Provincial, Local, Foreign. Multilateral or other authorities or entities for enabling the Company to carry any of its objects into affect or for extending any of the powers of the Company or for effecting any modification of the constitution of the Company or for any other purpose which may seem expedient, and to enter into arrangements with any Government or authorities, foreign, federal, provincial, municipal, local or otherwise, public or quasi-public bodies, or with any other persons, in any place where the Company may have interests that may seem conducive to the objects of the Company or any of them and to obtain from any such Government, authorities or persons any rights, privileges and concessions which the Company may think fit to obtain, and to carry out, exercise and comply therewith.
- Dispute Resolution. To resolve disputes by negotiation, conciliation, mediation, arbitration, litigation or other means, judicial or extra-judicial, and to enter into compromise agreement with creditors, members and any other persons in respect of any difference or dispute with them and to exercise the power to sue and be sued and to initiate or oppose all actions, steps, proceedings or applications which may seem calculated directly or indirectly to benefit or prejudice, as the case may be, the interests of the Company of of its members.
- Employees Funds. To establish and maintain or procure the establishment and 32. maintefrance of any contributory of non-contributory pension or superannuation funds for the benefit of, and give approcure the giving of donations, gratuities, pensions, allowances or emoluments to such persons who are or were at any time in the employ or service of the Company, or of any company which is a holding company or a subsidiary of the Company or is allied to or associated with the Company of with any such substitution or affiliate company, or who are or were at any time directors of officers of the Company or of any such other company as aforesaid, and the wives, widows, families and qualified dependents of any such persons, and also to establish, subsidize and subscribe to institutions. associations, clubs or funds calculated to be for the benefit of or to advance the interests and well-being of the Company or of any such other company as aforesaid, and make payments to or towards the insurance of any such person as aforesaid and do any of the matters aforesaid, either alone or in conjunction with any such other company as aforesaid.
- 33. Remuneration. To enter into contracts with its salaried employees, including a chief executive who, prior to his appointment as such, was not a director of the Company or of its subsidiary or holding Company, and to provide for such other financial assistance to said employees or workers under personnel rules and regulations that the Company may subsequently adopt.

- 34. Commissions. To pay and discharge all or any expenses, costs and disbursements, and to pay commissions and to remunerate any person for services rendered or to be rendered in connection with the formation, registration, promotion and flotation of the Company and any company formed, sponsored, registered, and promoted by the Company or incidental to any negotiations between promoters preliminary to the formation of the Company, and the underwriting, placing or issue at any time of securities of the Company or of any other person plus all costs and expenses incurred in the acquisition of any property or assets, including the accomplishment of all or any formalities which the Company may think necessary or proper in connection with any of the matters aforesaid.
- 35. Charitable Contributions. To subscribe or contribute (in cash or in kind) surplus properties to, and to promote or sponsor, any charitable, eleemosynary, scientific, educational, benevolent or useful object of a public character or any object which may in the opinion of the Company be likely, directly or indirectly, to further the interests of the Company, its employees and workers or its members, and to receive donations and grants, in cash or in kind, whether absolutely gratuitous or otherwise, which it may deem beneficial to its business, employees or shareholders.
- 36. Dissolution and Winding Up. To cease carrying on or wind up any business or activity of the Company and to cancel any registration of and to wind up or procure the dissolution of the Company in any state or territory.
- 37. Equity Conversion. To issue, allot and grant options over securities of the Company towards the satisfaction of any liability or obligation undertaken or agreed to be undertaken by or for the benefit of the Company, or in consideration of any obligation or for any other similar purpose.
- 38. International Operations. To procure the Company to be registered or recognized in any part of the world and to do all or any of the above things in any part of the world, either as principal, agent, trustee, contractor of otherwise, alone or in collaboration with another, and either by otherwise fustees, subcontractors, subsidiaries or otherwise.
- 39. Disposal of Assets and Declaration of Dividends. To dispose by any means of the whole or any part of the assets of the Company or of any interest therein and to distribute in specie or otherwise by way of dividends or bonus or reduction of capital all or any of the property or assets of the Company among its members, and particularly, but without prejudice to the generality of the foregoing, securities of any other company formed to take over the whole or any part of the assets or liabilities of the Company or any proceeds of sale or other disposal of any property or assets of the Company.
- 40. Insurance. To insure the property, assets, and employees of the Company in any manner deemed fit by the Company, and to create any reserve fund, sinking fund, insurance fund or any other special fund whether for depreciation or for repairing, insuring, improving, extending or maintaining any of the properties of the Company or for any other purpose conducive to the interests of the Company, but not to act as an insurance company.

- 41. Regulations. To make rules or regulations not inconsistent with this Memorandum and to provide for all matters for which provision is necessary or expedient for the purpose of giving effect to the provisions of this Memorandum and the efficient conduct of the affairs of the Company.
- 42. General Power. To carry on any other businesses or activities which the Directors consider capable of being carried on directly or indirectly for the benefit of the Company and to do all such other things as may be deemed incidental or conducive to the attainment of the above objects or any of them.

Declaration. It is hereby declared that:

- (a) the word "company" in this Memorandum of Association, except where used in reference to this Company, shall be deemed to include any partnership or other body of persons, whether corporate or unincorporated, and whether domiciled in Pakistan or elsewhere;
- the objects specified in each of the paragraphs of this clause shall be regarded as independent objects and, accordingly, shall in no way be limited or restricted (except) where otherwise expressed in such paragraphs) by reference to or inference from the terms of any other paragraphs or the name of the Company, but may be carried out in as full and ample a manifer and construed in as wide a sense as if each of the said paragraphs defined the objects of a separate and distinct company;
- (c) the heatings used in each of the paragraphs of this clause are for convenience only and are not intended to affect the construction thereof in any way; and,
- (d) notwithstanding anything contained in the foregoing object clauses of this Memorandum of Association, nothing herein shall be construed as empowering the Company to undertake or indulge in the business of managing agency, banking or financing institution, leasing, investment, or real estate brokerage or insurance, directly or indirectly, as restricted by law or in any unlawful operations.
- IV. The liability of the members is limited.
- V. The authorized share capital of the Company shall be Rs. 50,000,000,000 (Rupees Fifty billion) divided into 5,000,000,000 (five billion) ordinary shares of Rs. 10 (Rupees Ten) each with power to increase or reduce the capital and to divide the shares in the capital for the time being into several classes and to attach thereto respectively such rights, privileges or conditions as may be determined by or in accordance with the regulations of the Company, and to vary, modify or abrogate any such rights, privileges or conditions in such manner as may for the time being be provided by the regulations of the Company in accordance with law; provided, however, that rights as between various classes of ordinary shares, if any, as to profits, votes and other benefits shall be strictly proportionate to the paid-up value of shares.

We, the several persons whose numes and addresses are subscribed belows are destrous of being formed into a company in pursuance of this Memorandum of Association and we respectively agree to take the minutes of the capital of the Company set opposite our respective names.

Name and surname (Present and former) in full (in Block Letters)	Father's/ Husband's Name in Pull	Nationality	Occupation	Residential Address of Topology	Number of Shares taken by each Subscriber	Signature
1. Ch Arshad Zaman	Ch.Sher Zaman	Pakistani	Wapda Service	75, Babar Mock, New Garden Town.	2.00	
2. Mr. Muhammad Qasim Shaikh	Haji Noor Muhammad Shaikh	Pakistani	Wapda Service	Bachelor officers Nostel Thermals Colony, Nishatabad, Faisalabad	* Co	
3. Mr. Muhammad Maqbool Anjum	Ch. Imam Din	Pakistani	Wapda Service	54-Nishtar Dock, Alliana Iqbal Toyu > Lahore.		
4. Mr Mansoor Ali Sheikh	Muhammad Ali Sheikh	Pakistani	Wapda Service	2-C. Audit Officers Colony, entrolig-	1	
5. Mr. Akhtar Pervez Akhtar	Ch.Muhammad (brahim	Pakistani	Wapda Service	13. Daood Street No.21, Wasanpura, Lahore,		
6. Brig. Saeed Ahmad Rafi	Muhammad Ajaib	Pakistani	Wapda Service	B-33, Upper Mall, Wapda Colony, Lahore.	1	
7 Mi-Noor Elahi Baig	M.Fazal Elahi Baig	Pakistani	Wapda Service	B 2, Shakunar Grid Station, Wapda Colony, Lahore.		
	<u>L</u>		Total n	number of shares taken	7 (Seve	n)

Dated the	day of	. 199	" or
Witness to the ab	oove signatures	Pertified to 1	Signature
(Full Name, Fa	ther's/Husband's Na	Certified to be true Cou	oy/
(in Block Lette		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Occupation
		Deputy Registrar of Companies Company Registration Office Government of Pakistan	Full Address
		Lahore.	,

#### THE COMPANIES ORDINANCE 1984

### PUBLIC COMPANY LIMITED BY SHARES

### ARTICLES OF ASSOCIATION

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NORTHERN POWER GENERATION COMP

#### I. PRELIMINARY

1. TABLE "A" Not to Apply

The regulations in Table 'A' in the First Schedule to the Gentraries Ordinance. 1984 shall not apply to the Company except as reproduced herein.

### 2. Definitions

Unless the context otherwise requires, capitalized terms used in these Articles shall have the meanings set out below:-

- (a) "Articles" mean these Articles as originally framed or as from time to time altered in accordance with law.
- (b) "Board" means the group of Directors in a meeting duly called and constituted or, as the case may be, the Directors assembled at a board.
- (c) "Company" means Northern Power Generation Company Limited.
- (d) "Directors" means the Directors for the time being of the Company as named in Article 49 and, subsequently, such members duly elected and registered pursuant to Sections 178 and 205, respectively.
- (e) "Month" means calendar month according to the Gregorian calendar.
- (f) "Office" means the registered office for the time being of the Company.
- (g) "Ordinance" means the Companies Ordinance, 1984, or any modification or re-enactment thereof for the time being in force.
- (h) "Ordinary Resolution" means a resolution passed at a general meeting of the Company when the votes cast (whether viva voce, by show of hands or by poll) in favour of a resolution by members who, being entitled to vote in person or by proxy, do so vote, exceed the number of votes, if any, cast against the resolution by members so entitled and voting.

- (i) "Register" means, unless the context otherwise requires, the register of members to be kept pursuant to Section 147 of the Ordinance.
- (j) "Seal" means the common or official seal of the Company.
- (k) "Section" means a Section of the Ordinance.
- (l) "Special Resolution" means the special resolution of the Company as defined in Section 2(1)(36) of the Ordinance.

#### 3. Interpretation

In these Articles, unless the context otherwise requires:-

370;

- (a) provisions bearing on transfer or transmission of shares, meetings, voting in person or by proxy, management, and the appointment, powers and removal of Directors and employees of the Company shall be read subject to the provisions of Section 183 relating to the power of control by a holding company over its subsidiary; the headings are for convenience only and do not constitute part of these Articles and shall not be used in construing these Articles;
- (b) the singular includes the plural and vice versa and words denoting any gender shall include all genders;
- (c) references to any Act, Ordinance, legislation, Rules or Regulations or any provision of the same shall be a reference to that Act, Ordinance, legislation, Rules or Regulations or provision, as amended, re-promulgated or superseded from time to time.
- (d) the terms "include" or "including" shall mean include or including without limitation;
- (e) expressions referring to writing shall, unless the contrary intention appears, be construed as including references to printing, lithography, photography, and other modes of representing or reproducing words in a visible form
- (f) words importing persons shall include bodies corporate; and
- (g) words and expressions contained in these Articles shall bear the same meaning as in the Ordinance.

#### II. BUSINESS

#### 4. Public Company

The Directors shall have regard to the restrictions on the commencement of business imposed by Section 146 if, and so far as, those restrictions are binding upon the Company.

#### III. SHARES

#### A. General

#### 5. Shares Under Directors' Control

Subject to Section 183 and these Articles, the shares of the Company shall be under the control of the Directors who may allot or otherwise dispose of the same to such persons, on such terms and conditions as the Directors think prudent.

#### 6. Amount Payable on Application

No shares shall be offered to the public for subscription except upon the term that the amount payable on application shall not be less than the full amount of the nominal amount of the share.

#### 7. Allotment of Shares

No share shall be issued at a discount except in accordance with the provisions of the Ordinance. The Directors shall, as regards any allotment of shares, duly comply with such of the provisions of Sections 68 to 73, as may be applicable to the Company. The minimum subscription upon which the Company may proceed to allot the shares shall be Rs 500,000.

#### 8. Share Certificates

Every person whose name is entered as a member in the Register shall, free of charge, be entitled to receive within ninety (90) days after allotment or within forty-five (45) days of the application for registration of transfer a pertificate under Seal specifying the share or shares held by that and the amount paid-up thereon, including in particular and without limitation, such legerids as the company shall be obliged to affix to certain classes of share certificates as provided by law or as the Company shall have agreed to affix pursuant to any contractual arrangement in this respect; Provided, that in respect of share or shares held jointly by several persons, the Company shall have be bound to issue more than one certificate, and delivery of a certificate for a share to the of several joint holders shall be sufficient delivery to all.

#### 9. Certificate under Seal

The certificate of title to shares may be issued under the authority of a Director or of a committee of Directors duly authorized thereto by the Board in such manner and form as the Directors may from time to time prescribe. The Seal shall be duly affixed to every share certificate issued by the Company.

#### 10. Issuance of Replacement Certificate

If a share certificate is defaced, lost or destroyed, it may be renewed on payment by the requesting shareholder or his representative of such fee and stamp taxes, if any, and compliance with such terms prescribed by the Directors as to evidence and indemnity and payment of expenses incurred by the Company in investigating title.

#### 11. Joint Holders

The Company shall not be bound to register more than four persons as joint holders of any share.

#### 12. Trusts Not Recognized

Except as required by law, no person shall be recognized by the Company as holding any share/s upon any trust, and the Company shall not be bound by or be compelled in any way to recognize them when having notice thereof) any equitable, contingent, future or partial interest in any share or any interest in any fractional part of a share or (except only as by these Articles or by law otherwise provided) any other rights in respect of any share except an absolute right to the entirety thereof in the registered holder.

#### 13. Payment of Commission

The Company may at any time pay a commission to any person for subscribing or agreeing to subscribe (whether absolutely or conditionally) for any shares, debentures or debenture stock in the Company or procuring or agreeing to procure subscriptions (whether absolutely or conditionally) for any shares, debentures or debenture stock in the Company; Provided, that, if the commission in respect of shares shall be paid or payable out of capital, the statutory requirements and conditions shall be observed and complied with, and the amount or rate of commission shall not exceed such percentage on the shares, debentures or debenture stock in each case subscribed or to be subscribed, as may be determined by the Board subject to any limits required by law. The commission may be paid or satisfied, either wholly or partly, in cash or in shares, debentures or debenture stock. The Company may also on any issue of shares pay such brokerage fees as may be lawful; Provided that such brokerage fees shall not exceed such percentage of the shares, debentures or debenture stock paid-up as may be determined by the Board, subject to any limits required by law.

# 14. Bar on Use of Company

Except to the extent and in the manner allowed by Section 95, no part of the funds of the Company shall be employed in the purchase of, or in loans upon the security of, the Company's shares.

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#### B. TRANSFER OF SHARES

#### 15. Transfer

The instrument of transfer of any share in the Company shall be executed both by the transferor and transferee, and the transferor shall be deemed to remain the holder of the share until the name of the transferee is entered in the Register in respect thereof.

#### 16. Form of Transfer

Shares in the Company shall be transferred in the following form, or in any usual or common form which the Directors shall approve:-

# Northern Power Generation Company Limited

I/We,		, in con		of the sum	of
Rupees				t	4 -
(hereinafter					
the Transferee/s the		rrea Snare(s) num ur name in the bo			
Generation Compan					
executors, administra					
I/We held the same a					
do hereby agree to to	ike the said sha	re (s) subject to th	e conditions	aforesaid.	
			•	• <i>!</i>	
Witness our hands th	is	_ day of	,1998.		
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Transferor		Transfere	ee .		
		•	•		
			•		
Signature	_	Signature	<del></del>		
Dignature		Signature	,	٠.	
Signed by the above-	named Transfer	ror/s and Transfer	ee/s in the pr	esence	
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#### 17. Non-Refusal of Transfer of Shares

The Directors shall not transfer any fully paid shares if the transfer deed is defective or invalid. The Director may decline to recognize any instrument of transfer, unless-

a fee not exceeding two rupees as may be determined by the Directors and the appropriate stamp tax is paid to the Company in respect thereof; and

Salaria Caragonia Company Contra

the duly stamped instrument of transfer is accompanied by the certificate of the shares to which it relates, and such other evidence as the Directors may reasonably require to show the right of the transferor to make the transfer.

If the Directors refuse to register a transfer of shares, they shall within one Month after the class of which the transfer deed was lodged with the Company send to the transferee and the transferor notice of the refusal indicating the defect, invalidity or any ground for objection to the transferee, who shall, after removal of such defect or invalidity be entitled to re-lodge the transfer deed with the Company.

#### 18. Closure of Register

On giving seven days' prior notice in the manner provided by the Ordinance, the Register may be closed for such period or periods not exceeding forty-five (45) days in any one year as the Directors may from time to time determine; however, the Register shall not be closed for a period longer than thirty (30) days at any given time.

#### C. TRANSMISSION OF SHARES

#### 19. Transmission

The executors, administrators, heirs or nominees, as the case may be, of a deceased sole holder of a share shall be the only persons recognized by the Company as having any title to the share. In the case of a share registered in the names of two or more holders, the survivor or survivors shall upon proof of his right of succession be the only person or persons recognized by the Company as having any title to the share.

#### 20. Election to Register or Transfer

Any person becoming entitled to a share in consequence of the death or insolvency of a member shall, upon such evidence being produced as may from time to time be required by the Directors, have the right, either to be registered as a member in respect of the share or, instead of being registered himself, to make such transfer of the share as the deceased or insolvent person could have made. The Directors shall, in either case, have the same right to decline or suspend registration as they would have had in the case of a transfer of the share by the deceased or insolvent person before the death or insolvency.

21. Rights of Person Entitled by Transmission

A person becoming entitled to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would have been entitled if he were the registered holder of the share, except that he shall not, before being registered as a member in respect of the share, be entitled in respect of it to exercise any right conferred by membership in relation to meetings of the Company.

#### D. ALTERATION OF CAPITAL

#### 22. Power to Increase Capital

The Company may, from time to time, by ordinary resolution, increase the share capital by such sum to be divided into shares of such amount as the resolution shall prescribe.

#### 23. Further Issue of Capital

All further issue of share capital shall be subject to the applicable provisions of Section 86. Thereafter, the Directors may dispose of the same in such manner as they think most beneficial to the Company.

#### 24. Provisions Applicable to New Shares

The new shares capital shall be subject to the same provisions with reference to transfer and transmission as the original share capital.

#### 25. Consolidation and Subdivision

The Company may, by ordinary resolution:-

- (a) consolidate and divide its share capital into shares of larger amount than its existing shares;
- (b) subdivide its existing shares or any of them into shares of smaller amount than that fixed by the Company's Memorandum of Association, subject to the provisos to Section 92, sub-section (1), clause (d); or
- (c) cancel any shares which, at the date of the passing of the resolution, have not been taken or agreed to be taken by any person.

#### 26. Reduction of Share Capital

The Company may, by Special Resolution, reduce its share capital in any manner, with and subject to any incident authorized and consent required by law.

# IV. MEETINGS AND PROCEEDINGS

# A. GENERAL MEETINGS

# 27. Statutory Meeting

The statutory meeting of the Company shall be held within the period required by Section 157.

#### 28. Annual General Meeting

The annual general meeting shall be held in accordance with the provisions of Section 158, within eighteen (18) Months from the date of incorporation of the Company and, thereafter, once at least in every year within a period of six Months following the close of its financial year and not later than fifteen Months after the holding of its last preceding annual general meeting, as may be determined by the Directors:

#### 29. Other Meetings:

All general meetings of the Company other than the statutory meeting or an annual general meeting shall be called extraordinary general meetings.

# 30. / Extraordinary Meetings

The Directors may whenever they think necessary, call an extraordinary general meeting. Extraordinary general meetings may also be called on such requisition, or in default, may be called by such requisition, as provided under Section 159. If at any time there are not within Pakistan sufficient Directors capable of acting to form a quorum, any Director of the Company may call an extraordinary general meeting in the same manner as nearly as possible as that in which meetings may be called by the Directors.

#### B. Notice and Proceedings

#### 31. Notice of Meetings

Twenty-one days' notice at the least (exclusive of the day on which the notice is served or deemed to be served, but inclusive of the day for which notice is given) specifying the place, the date and the hour of meeting and, in case of special business, the general nature of that business, shall be given in the manner provided by the Ordinance for the general meeting to such persons as are, under the Ordinance or the regulations of the Company, entitled to receive such notices from the Company.

#### 32. Special Business

All business shall be deemed special that is transacted in an extraordinary general meeting and those transacted in an annual general meeting, with the exception of declaration dividends, the consideration of the accounts, balance sheet and the reports of the Directors and auditors, the election of Directors, and the appointment and fixing of the remuneration of auditors.

#### 33. Quorum

No business shall be transacted at any general meeting unless a quorum of members is present at that time when the meeting proceeds to business. Three members present personally who represent notless than twenty-five percent of the total voting power either on their own account or as proxies shall be a quorum.

#### 34. Effect of Quorum Not Being Present

If within half an hour from the time appointed for the meeting a gnorum is not present, the meeting, if called upon the requisition of members and be dissolved; In any other case, it shall stand adjourned to the same day in the next week at the same time and place, and, if at the adjourned meeting a quorum is not present within half an hour from the time appointed for the meeting, the members present, being not less than three, shall be a quorum.

#### 35. Chairman of Meeting

The Chairman of the Board of Directors, if any, shall preside as chairman at every general meeting of the Company, but if there is no such Chairman, or if at any meeting he is not present within fifteen minutes after the time appointed for the meeting, or is unwilling to act as chairman, any one of the Directors present may be elected to be the chairman, and if none of the Directors is present, or willing to act as chairman, the members present shall choose one of their number to be the chairman.

#### 36. Adjournment

The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the majority of members present), adjourn the meeting from time to time but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. When a meeting is adjourned for ten days or more, notice of the adjourned meeting shall be given as in the case of an original meeting. Save as aforesaid, it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.

#### 37. Voting

A resolution put to the vote in any general meeting shall be decided on a show of hands unless a poll is (before or on the declaration of the result of the show of hands) demanded. Unless a poll is so demanded, a declaration by the Chairman that a resolution has, on a show of hands, been carried, or carried unanimously, or by a particular majority, or lost, and an entry to that effect in the minutes of the proceedings of the Company shall be conclusive evidence of the fact, without proof of the number or proportion of the votes recorded in favor of, or against, that resolution.

#### 38. Demand for a Poll

A poll may be demanded only in accordance with the provisions of Section 167.

#### 39. Manner of Taking a Poll

If a poll is duly demanded, it shall be taken in accordance with the manner laid down in Section 168 and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

#### 40. Time of Taking a Poll

A poll demanded on the election of Chairman or on a question of adjournment shall be taken at once.

#### 41. Casting Vote

In the case of an equality of votes, whether on a show of hands or on a poll, the chairman of the meeting at which the show of hands takes place, or at which the poll is demanded, shall have and exercise a second or casting vote.

#### C. Votes of Members

#### 42. Right to Vote

Subject to any rights or restrictions for the time being attached to any class or classes of shares, on a show of hands every member present in person shall have one vote except for election of Directors in which case the provisions of Section 178 shall apply On a poll, every member shall have voting rights as laid down in Section 100.

# 43. Voting By Joint Holders

In case of joint-holders, the vote of the senior who tenders a vote, whether in person of by proxy; shall be accepted to the exclusion of the votes of the other joint-holders. For this purpose, seniority shall be determined by the order in which the names stand in the Registor.

#### 44. Voting: Corporation Representatives

On a poll, votes may be given either personally or by proxy; Provided, that, no body corporate shall vote by proxy as long as a resolution of its directors in accordance with the provisions of Section 162 of the Ordinance is in force.

#### 45. Proxy to be in Writing

The instrument appointing a proxy shall be in writing under the hand of the principal to his attorney duly authorized in writing. A proxy must be a member of the Company.

#### 46. Instrument Appointing Proxy to be Deposited

The instrument appointing a proxy and the power-of-attorney or other authority (if any) under which it is signed, or a notarially certified copy of that power or authority, shall be deposited at the Office of the Company not less than forty-eight (48) hours before the time for holding the meeting at which the person named in the instrument proposes to vote and in default the instrument of proxy shall not be treated as valid.

#### 47. Form of Proxy

An instrument appointing a proxy may be in the following form, or a form as a thereto as may be:

# NORTHERN POWER GENERATION COMPANY LIMITED

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appoint				_ of		, (	as n	ny pro	oxy to	vote	e for me
andon	my behalf	at the	(annu	ıal/extra	ordinary i	as i	the	case	may	be)	general
meeting	of the Com	pany to	be hel	d on the				day	of _		
and at a	ny adjourni	nent the	reof.								

### 48. Revocation of Authority

A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, or the transfer of the share in respect of which the proxy is given; Provided, that, no intimation in writing of such death, insanity, revocation or transfer as aforesaid shall have been received by the Company at its Office before the commencement of the meeting or adjourned meeting at which the proxy is used.

#### V. MANAGEMENT AND ADMINISTRATION

- A. Board of Directors
- 49. Number of Directors

The number of Directors shall not be less than seven. The first Directors, to hold office until the first annual general meeting, shall be:-

- (1) Ch. Arshad Zaman
- (2) Mr. Muhammad Qasim Shaikh
- (3) Mr. Muhammad Maqbool Anjum
- (4). Mr. Mansoor Ali Sheikh
- (5) Mr. Akhtar Pervez Akhtar
- (6) Brig. Saeed Ahmad Rafi
- (7) Mr. Noor Elahi Baig
- 50. Qualification of Directors

Save as provided in Section 187, no person shall be appointed as a Director unless he is a member of the Company.

#### 51. Chairman of the Board

The Directors may elect one of their number as the Chairman of the Board and vest in him such powers and functions as they may deem fit in relation to the management and administration of the affairs of the Company subject to their general supervision and control.

#### 52. Chief Executive

The Directors may elect one of their number to be the Chief Executive of the Company in accordance with the provisions of Sections 198 and 199 and vest in him such powers and functions as they deem fit in relation to the management and administration of the affairs of the Company subject to their general supervision and control. The Chief Executive of the Company shall be the ex-officio Vice-Chairman of the Board. The provisions of the Ordinance shall be observed regarding other matters relating to the Chief Executive.

#### 53. Remuneration

Subject to any approval or limits required by law, the terms and conditions and remuneration of -

- (a) Director for performing extra services, including the holding of the office of Chairman:
- (b) the Chief Executive; and
- (c) any Director for attending the meetings of the Directors or a Committee of Directors shall be determined by the Board of Directors.

#### 54. Alternate Director

A Director may, with the approval of the Board, appoint any person (including another/Director) to be his alternate Lifector and such an alternate Director shall be entitled to notice of meetings of the Directors and to attend and vote thereat accordingly and generally to exercise all the rights of such absent Director subject to any limitations in the instrument appointing him. For the purposes of the proceedings at such meetings, the provisions of these Articles shall apply as if any alternate Director (instead of his appointer) were a Director. An alternate Director shall in require any share qualification and he shall ipso facto vacate office as and when his appointer (a) vacates office as a Director; (b) removes the appointee from office; or (c) returns to Pakistan; Provided, that, upon each occasion upon which the appointen thereafter leaves Pakistan again, and unless the appointer shall have informed the Company to the contrary, he shall be deemed to have re-appointed the appointee as his alternate Director and no further approval of the Board shall be required unless the appointer desires to approve another person not previously approved by the Board as his alternate. If an alternate Director shall be himself a Director, his voting rights shall be cumulative but he shall not be counted as more than one for quorum purposes. Any appointment or removal under this Article shall be reflected by notice in writing under the hand of the Director making the same.

#### B. POWERS AND DUTIES OF DIRECTORS

#### 55. General Management Powers

The business of the Company shall be managed by the Directors, who may exercise all such powers of the Company as are not by the Ordinance or by these regulations, required to be exercised by the Company in general meeting, subject nevertheless to the provisions of the Ordinance or to any of these Articles, and such regulations being not inconsistent with the aforesaid provisions as may be prescribed by the Company in a general meeting; but the regulation made by the Company in general meeting shall invalidate any prior and of the Directors which would have been valid if that regulation had not been made.

#### 56. Borrowing Powers

The Directors may exercise all the powers of the Campany to raise money otherwise than by issue of shares and to mortgage, change, pledge, hypothecate or otherwise create an encumbrance on its undertaking or any part thereof and to issue debentures and other securities whether outright or as security for any obligation, liability or debt of the Company or of any third party. In exercising the aforesaid powers of the Company the Directors may, from time to time and on such terms and conditions as they think fit, raise money from banks and financial institutions and from other persons under any permitted system of financing, whether providing for payment of interest or some other form of return, and in particular the Directors may raise money on the basis of mark-up price, musharika, modaraba or any other permitted mode of financing, and without prejudice to the generality of the foregoing, the Directors may exercise all or any of the powers of the Company under Section 196(2) of the Ordinance. In particular, the Directors may issue any security as defined in Section 2(1)(34) of the Ordinance or may issue any instrument or certificate representing redeemable capital as defined in 2(1)(30A) of the Ordinance or participatory redeemable capital as defined in Section 2(1)(25) of the Ordinance.

#### 57. Duties of Directors

The Directors shall duly comply with the provisions of the Ordinance.

#### 58. Minute Books

The Directors shall cause minutes to be made in books provided for the purpose of:-

- (a) all appointments of officers made by the Directors:
- (b) the names of the Directors present at each meeting of the Directors and of any committee of the Directors; and
- (c) all resolutions and proceedings at all meetings of the Company and of the Directors and of committees of Directors; and every Director present at any meeting of Directors or committee of Directors shall sign his name in a book to be kept for that purpose.

#### C. DISQUALIFICATION OF DIRECTORS

#### 59. Disqualification of Directors

No person shall become a Director of the Company if he suffers from any of the disabilities or disqualifications mentioned in Section 187 of the Ordinance and, if already a Director, shall cease to hold such office from the date he so becomes disqualified or disabled or:-

- (a) if removed by general or special order of the holding company;
- (b) if removed by a resolution of members as hereinafter provided, or
- (c) if by notice in writing given to the Company he resigns his office;

Provided, however, that no Director shall vacate his office by reason only of his being a member of any company which has entered into contracts with, or done any work for, the Company but such Director shall not vote in respect of any such contract or work, and if he does so vote, his vote shall not be counted.

#### D. PROCEEDINGS OF DIRECTORS

#### 60. Meetings of Directors

- (a) The Directors may meet together for the dispatch of business, adjourn and otherwise regulate their meetings, as they deem proper. Questions arising at any meeting shall be decided by a majority of votes. In case of an equality of votes, the Chairman shall have and exercise a second or casting vote. A Director may, and the secretary on the requisition of a Director shall, at any time, summon a meeting of Directors. Seven (7) days' notice at the least, exclusive of the day on which the notice is served or deemed to be served, but inclusive of the day for which notice is given, shall be given for a meeting of Directors; Provided, that, if all the Directors entitled to attend and vote at any such meeting so agree, in writing, a meeting may be held of which less than seven (7) days' notice has been given.
- (b) The quorum for the meeting of directors shall not be less than one third of their number or four whichever is greater.
- A meeting of the Directors may consist of a conference between Directors, (c) some or all of whom are in different places; Provided, that, each Director who participates is able to hear each of the other participating Directors addressing the meeting and, if he so wishes, to address each of the other participating Directors simultaneously, whether directly, by conference telephone or by any other form of communications equipment (whether in use when this Article 60(c) is adopted or developed subsequently) or by a combination of methods. A quorum shall be deemed to be present if those conditions are satisfied in respect of the minimum number and designation of Directors required to form a quorum. A meeting held in this way shall be deemed to take place at the place where the largest group of Directors is assembled or, if no such group is readily identifiable, at the place from where the Chairman participates. Any Director may, by prior notice to the Secretary, indicate that he wishes to participate in the meeting in such manner, in which event, the Directors shall procure that an appropriate conference facility is arranged.

#### 69. Election in Accordance with the Ordinance

The Directors shall comply with the provisions of Sections 174 to 178 and Sections 180 and 184 relating to the election of Directors and matters ancillary thereto.

#### 70. Filling of Casual Vacancy

Any casual vacancy occurring in the Board of Directors may be filled by the Directors, but the person so chosen shall be subject to retirement at the same time as if he had become a Director on the day on which the Director in whose place he is chosen was last elected as Director.

#### 71. Removal of Director

The Company may remove a Director but only in accordance with the provisions of the Ordinance.

#### VI. THE SEAL

#### 72. Common Seal

The Directors shall provide a common seal of the Company which shall not be affixed to any instrument except by the authority of a resolution of the Board or by a committee of Directors authorized in that behalf by the Board. Two (2) Directors or one Director and the secretary of the Company shall sign every instrument to which the common seal is affixed.

#### 73. Official Seal

The Directors may provide for the use in any territory, district or place not situated in Pakistan, of an official seal which shall be a facsimile of the common seal of the Company, with the addition on its face of the name of every territory, district or place where it is to be used. The provisions of Section 213 shall apply to the use of the official seal.

#### VII. DIVIDENDS AND RESERV

#### 74. Declaration of Dividends

The Company in general meeting may declare dividends but no dividend shall exceed the amount recommended by the Board.

#### 75. Interim Dividends

The Board may from time to time direct payment to the members or to the holding company such interim dividends as appear to be justified by the distributable profits of the Company.

#### 76. Dividends Payable Out of Profits

No dividends shall be paid otherwise than out of distributable profits of the year or any other undistributed profits. No unpaid dividend shall bear interest against the Company.

#### 77. Dividends Payable on Amount Paid on Shares

All dividends shall be declared and paid according to the amounts paid on the shares.

#### 78. Reserve Fund

The Directors may, before recommending any dividend, set aside out of the profits available for distribution of the Company such sums as they think proper as a reserve or reserves which shall, at the discretion of the Directors, be applicable for meeting contingencies, or for equalizing dividends, or for any other purpose to which the profits of the Company may be properly applied, and pending such application may either be employed in the business of the Company or be invested in such investments (other than shares of the Company) as the Directors may, subject to the provisions of the Ordinance, from time to time think fit.

#### 79. Profit Carried Forward

The Directors may carry forward any profits which they may think prudent not to distribute, without setting them aside as a reserve.

# 80. Payment of Dividends Specie

With the sanction of a resolution in a general meeting, any dividend may be paid wholly or in part by the distribution of specific assets and in particular of paid-up shares or debentures of any other company or in any one or more of such ways. The Directors may fix the value for distribution of such specific assets or any part thereof and may determine that cash payments shall be made to any members upon the footing of the value so fixed, in order to adjust the rights of all members, and may vest any such specific assets in trust for the periphers entitled to the dividend as may seem expedient to the Directors.

#### 81. Dividends to Joint Holders

If several persons are registered as joint holders of any share, any one of them may give effectual receipt for any dividend payable on the share.

#### 82. Notice of dividend

Notice of any dividend that may have been declared shall be given the manner hereinafter mentioned to the persons entitled thereto. The Company may give such notice by publication in a newspaper of general circulation in the Province where the Office is situated.

#### 83. Period for Payment of Dividends

Dividends shall be paid within the period specified in Section 251.

#### VIII. ACCOUNTS

#### 84. Books of Account

The Directors shall cause to be kept proper books of account as required under Section 230.

#### 85. Place Where Accounts Kept

The books of account shall be kept at the Office or at such other place as the Directors shall think fit and shall be open to inspection by the Directors during business hours.

#### 86. Inspection by Members

The Directors, or their representatives, shall from time to time determine whether and to what extent and at what time and place's and under what conditions or regulations the accounts and books or papers of the Company or any of them shall be open to the inspection of members not being Directors. No member (not being a Director) shall have any right of inspecting of any account and book or papers of the Company, except as conferred by law or authorized by the Directors or by the Company in general meeting.

#### 87. Annual Accounts

The Directors shall as required by Sections 233 and 236 cause to be prepared and to be laid before the Company in general meeting such profit and loss accounts and balance sheets duly audited and reports as are referred to in those sections.

#### 88. Balance Sheet and Profit and Loss Account

1.11- 17

A balance sheet, profit and loss account, and other reports referred to in the preceding Article shall be made out every year and laid before the Company in the annual general meeting made up to a date not earlier than six months before such meeting. The balance sheet and profit and loss account shall be accompanied by a report of the auditors of the Company and the report of Directors.

#### 89. Copy of Accounts to be Sent to Members

A copy of the balance sheet and profit and loss account and reports of Directors and auditors shall, at least twenty-one days preceding the meeting, be sent to the persons entitled to receive notices of general meetings in the manner in which notices are to be given as hereinafter provided.

#### 90. Compliance with the Ordinance

The Directors shall in all respects comply with the provisions of Sections 230 to 236.

#### 91. Capitalization of Profits

The Company in general meeting may, upon the recommendation of the Directors, resolve that it is desirable to capitalize any part of the amount for the time being standing to the credit of any of the Company's reserve accounts or to the credit of the profit and loss accounts or otherwise available for distribution. The Company may then set free such sum for distribution among the members who would have been entitled thereto if distributed by way of dividend and in the same proportions, on condition that the same be not paid in cash but he applied in our towards paying up in full un-issued shares or debenture of the Company to be allotted and distributed, credited as fully paid up to and amongst such members in the proportion aforesaid. The Board of Directors shall give affect to such distribution by resolution.

#### 92. Audit

Auditors shall be appointed and their duties regulated in accordance with Sections 252 to 255 of the Ordinance.

#### IX. NOTICES

93. Notice to Members, etc.

Notice shall be given by the Company to members and auditors of the Company and other persons entitled to receive notice in accordance with law.

#### X. CONFIDENTIALITY

#### 94. Confidentiality Undertaking

Every director, manager, adviser, auditor, trustee, member of a committee, officer, agent, accountant, or other employees of the Company shall, if so required by the Directors, before entering upon his duties, sign a confidentiality undertaking in relation to all transactions of the Company with its customers and the state of accounts with individuals and in matters relating thereto, and shall undertake not to reveal any of the matters which may come to his knowledge in the discharge of his duties, except when required to do so by the Directors or by any general meeting or by any court of law of competent jurisdiction and except so far as may be necessary in order to comply with any of the provisions in these presents.

#### 95. Members' Access to Company Premises

No member or other person (not being a Director) shall be entitled to enter upon the property of the Company or examine the Company's premises or properties without the permission of a Director, subject to Article 94, to require discovery of or any information respecting any detail of the Company's trading or any matter which is or may be in the nature of a trade secret, mystery of trade, or secret process or of any matter whatsoever which may relate to the conduct of the business of the Company and which in the opinion of the Directors will be inexpedient, in the interest of the Company and its members, to communicate.

# XI. RECONSTRUCTION

#### 96. Reconstruction

On any sale of the undertakings of the Company, the Directors or the liquidators on a winding up may, if authorized by a Special Resolution, accept fully paid shares, debentures or securities of any other company, either then existing or to be formed for the purchase in whole or in part of the property of the Company. The Directors (if the profits of the Company permit), or the liquidators (in a winding up), may distribute such shares or securities, or any other properties of the Company amongst the members without realization, or vest the same in trustees for them. A Special Resolution may provide for the distribution or appropriation of the cash, shares or other securities, benefits or property, and for the valuation of any such securities or property at such price and in such manner as the meeting may approve. All shareholders shall be bound by any valuation or distribution so authorized, and waive all rights in relation thereto save only such statutory rights (if any) as are, in case the Company is proposed to be or is in the course of being wound up, incapable of being varied or excluded by these Articles.

#### XII. WINDING UP

#### 97. Division and distribution of Assets Upon Dissolution

If the Company is wound up, the liquidator may, with the sanction of a Special Resolution of the Company and any other sanction required by law, divide amongst the members in specie or kind the whole or any part of the assets of the Company (whether they shall consist of property of same kind or not) and may, for such purpose, set such value as he deems fair upon any property to be divided as aforesaid and may determine how such division shall be carried out as between the members or different classes of members. The liquidator may, with like sanction, vest the whole or any part of such assets in trustees upon such trust for the benefit of the contributors has the liquidator with like sanction, shall think fit; Provided, that, no member shall be compelled to accept any shares or other securities whereon there is any liability.

#### XIII. INDEMNITY

#### 98. Indemnification

Every officer or agent of the Company may be indemnified out of the assets of the Company for any liability incurred by him in defending any proceedings, whether civil or criminal, arising out of his dealings in relation to the affairs of the Company, except those brought by the Company against him, in which judgement is given in his favour or in which he is acquitted, or in connection with any application under Section 488 in which relief is granted him by a court of competent jurisdiction.

# XIV. ARBITRATION

99. Differences to be Referred to Arbitrator

Every intra-corporate dispute shall, as a condition precedent to any other action at law be referred, in conformity with the Arbitration Act, 1940, as amended, and its implementing rules, to the decision of an arbitrator to be appointed by the parties in dispute or, if they cannot agree upon a single arbitrator, to the decision of two arbitrators of whom one shall be appointed by each of the parties in dispute or, in the event of the two arbitrators not agreeing, then of an umpire to be appointed by the two arbitrators, in writing, before proceeding on the reference. Such decision and arbitral award shall be final and binding on the parties. Intra-corporate disputes shall include any dispute that may arise between the Company on the one hand and any of the members, their executors, administrators or assigns on the other hand, or between members, their executors, administrators or assigns, relating to these Articles or the statutes, or anything then or thereafter done, executed, omitted or suffered in pursuance of these Articles or of the statutes or any breach or alleged breach, or otherwise relating to these Articles or to any statute affecting the Company or to any of the affairs of the Company.

We, the several persons whose names and addresses are subscribed below, are desirous of being formed into a company in pursuance of these Articles of Association and we respectively agree to take the number of shares in the capital of the Company set opposite our respective names.

Name and surname (Present and former) in full (in Block Letters)	Father's/ Husband's Name in Full	Nationality	Occupation	Residential Address in Full	Number of Shares taken by each Subscriber	Signature
L. Ch. Arshad Zaman	Ch.Sher Zaman	Pakistani Pakistani	Wapda Service	75, Babar Block, New Garden Town, Lahore.	l	
2. Mr. Muhammad Qasim Shaikh	Haji Noor Muhammad Shaikh	Pakistani	Wapda Service	Bachelor Officers Hostel, Thermal Colony, Nishatabad, Faisalabad.	1	
3. Mr. Muhammad Maqbool Anjum	Ch. Imam Din	Pakistani i	∳r Wapda Service	54-Nishtar Block, Allama Iqbal Town, Lahore.	I	
4. Mr.Mansoor Ali Sheikh	Muhammad Ali Sheikh	Pakistani Ay	Wapda Service	2-C, Audit Officers Colony, Gulberg- III Tediore	<b>)</b>	
5. Mr. Akhtar Pervez Akhtar	Ch.Muhammad Ibrahim	Pakistani	Wapda Service	13, Daood Street No.21, Wasanpura, Lahore.		
6. Brig. Saeed Ahmad Rafi	Muhammad Ajaib	Pakistani	Wapda Service	B-33, Upper Mall, Wapda Colony, Lahore.	1	
7, Mr. Noor Elahi Baig	M.Fazal Elahi Baig	- Pakistani	Wapda Service	B-2, Shalamar Grid Station, Wapda Colony, Lahore.	1	
			Total ni	imber of shares taken	7 (Seve	\_\_\

Dated the	day of	. 199		
Vitness to the a	bove signatures Cer	tified to be true Con	oy_	
(Full Name, F	ather's/Husband's Nan	ne)	Signature	
(in Block Lett	ers) De	eputy Registrar of Companies Company Registrar Office	Occupation	
		Government of Par 1 Lahore.	Full Address	

# FEASIBILITY REPORT

(of the project as per Polis)

# FEASIBILITY OF PROJECT

Cycle Power Plant at Nandipur

Background:

As per directive of GOP, issued in view of 3rd meeting of the committee of power demand/ supply position held on 01-09-2005, PC-1 for installation of 450 MW Combined Cycle Power Plant at Nandipur was submitted to GOP on 15-09-2005 which was cleared by CDWP on 24-10-2005. However, due to prospects of power generation of IPP's, the proposal for installation of 450 MW CCPP by public sector was not approved in the meeting held on 02-12-2005, chaired by the then Prime Minister. Consequently, to cater for the ever-growing electric energy requirements & deficit particularly within the load centers of LESCO and GEPCO, it was envisaged to embark upon installation of 3x200 MW Diesel Engine Based Combined Cycle Power Plants at Faisalabad, Chichoki Mallian & Nandipur on fast track basis as per directives of the then Prime Minister of Pakistan. International tenders for the said power plants were invited and publically opened on 08-11-2006. Upon the evaluation of the tenders, the prices of 3x200 MW Diesel Engine Based Combined Cycle Power Plants were found to be on higher side. Recommendations/proposal to abandon the Project of Diesel Engines Combined Cycle Power Plants and for installation of 450-500 MW RFO based Gas Turbine Combined Cycle Power Plant at Nandipur in liqu of Diesel Engines, was submitted to Ministry of Water & Power Islamabad on 23 02 2007 ECC in its meeting held on 10-05-2007 approved WAPDA proposal and was decided to abandon Diesel Engines Project and to install 450 MW RFO based Gas Fiftbine Combined

In view of the above decision of ECC, Proforma PC-1 already propared/submitted in September-2005 was updated for obtaining the approval of ECNEC as the original PC-1 for Nandipur Project was prepared considering Natural Gas as instructed & furnace oil as backup fuel and the cost of the Plant equipment for CCPP with a simulated on the basis of prices indicated in "Gas Turbine World 2004 GTW Hand Sook The same PC-1 was updated by escalating the base cost @ 6.5% per annum to the E& FCC and brought to the year 2007-08 and also considering furnace oil as material HSD for starting & stopping only. However, in anticipation of the available of gas fuel in future, the conversion to gas fuel has been made part of the revised PC-1. On gas firing, the gross capacity of the Nandipur CCPP will be enhanced from 425 MW to 525 MW.

#### Site Selection:

The proposed site for the Power Plant is on the left side of Upper Chenab Canal inside the premises of the WAPDA existing Hydel Power Station. The site can be reached from the Gujranwala-Sialkot road link of the G.T road. The site is also approachable by railway line via Gujranwala Railway Station at a distance of about 12-15 km. The site proves to be the most suitable. Key environmental and safety advantages for the site are that the land for the proposed Power Plant is already owned by WAPDA, thus no issues relating to resettlement and potential loss of livelihood can arise. Moreover, The least number of people are residing in the surroundings of the proposed site.

Existing site of Nandipur Hydel Power Station having communication facilities, potable water source and convenient connectivity with National Grid System, has been selected at existing infrastructure to ensure its economics for installation of 425 MW Combined Cycle Power Plant for its Power Supply to GEPCO/LESCO Load Centers.

#### Justification of the Project:

The increasing trend of power demand leads to shortfall in generating capability, which causes load-shedding in the country. By installing the proposed Combined Cycle Power Plant of 425-525 MW Capacity at Nandipur, will be added in the system which will help bridging the gap between demand and supply. As a result, load-shedding will be reduced.

#### Water Requirement and Availability:

The proposed Power Plant site is located near the Upper Chenab Canal. The maximum discharge of this canal is approximately \$,000 cusecs at Nandipur Hydel Power Plant. It is perennial canal and water is available throughout the year except during canal closure. The underground water in the area is of acceptable/ potable quality. So ground water can be used during canal closure, unforeseen drought period and or unexpected canal breeches by installing tube wells of suitable capacity.

# Fuel Availability:

#### Furnace Oil:

The Combined Cycle Power Plant has been proposed to be operated on Furnace Oil which will be provided by the furnace oil supply companies through oil tankers. However, HSD Oil will be used as secondary fuel for only starting/stopping the Gas Turbines as well as during commissioning. Daily Furnace Oil requirement of the Plant is in the range of 1500-2000 MTons.

# Gas Fuel:

In anticipation of the availability of gas fuel in future, provision of gas fuel firing system at the Nandipur Gas Turbines has been included in the current scheme. On gas fuel, the capacity of the same plant will be enhanced from 425 MW to 525 MW. The Gas requirement of the Plant on daily basis is in the range of 60-90 MMCFD. For gas firing, the fuel will be arranged by SNGPL through Pipeline.

#### Calorific Value, Cost of Fuel and Generation Cost:

#### Furnace Oil:

Calorific Value of Furnace Oil:	38857 BTU/kg
Market Rate of Rumace Oil: (Without GST)	Rs.67,804/Ton.
Gross Efficiency of GC Plant:	45.96%
Heat Rate (at 100% efficiency):	3412 BTU/kWh
Fuel Consumption:	0.191Kg/kWh
Generation Cost (Fuel Component)	Rs. 12.95kWh

#### Gas Fuel:

Calorific Value of Gas:	•	912 BTU/CFT
Market Rate of Gas:		Rs.460/MMBTU
Gross Efficiency of CC Plant:		50%
Heat Rate (at 100% efficiency):		3412 BTU/kWh
Fuel Consumption:		7.30 CFT/kWh
Generation Cost (Fuel Component)		Rs. 3.13/kWh
•		

#### Selection of Plant & Unit Size:

425-525 MW Combined Cycle Power Plant with suitable capacity of Gas Turbines is considered the most appropriate size for new a Power Generation Plants in view of the following advantages:

- It would be in line with the existing units already in operation in Pakistan.
- It offers advantages of effective international competitive bidding.
- Maintenance cost would be less as the spare parts inventory could be shared with the existing similar turbines.
- Availability of experienced O&M Staff for 425-525 MW Combined Cycle Power Plant will reduce training cost.
- The capital cost is within optimum range.

# Annual Plant Factor:

Average Annual Plant Factor for the proposed Combined Cycle Power Plant has been assumed as 60% per annum in view of energy sharing of existing Combined Cycle Power Plants of NTDC system. However, if required volumes of Gas are made available by SNGPL, the Plant Factor shall be quite high, thereby reducing the Cost of Generation.

#### Project Capital Cost and Unit Cost:

In the Revised PC-I, the overall project cost has been estimated as Rs.54,788.20 million (without gas conversion equipment) and Rs.57,380.20 million (with gas conversion equipment), the specific cost has been determined as under:

• On Furnace Oil: Rs.129,817/KW (Capacity=425 MW)

Annual Recurring Charges
Generation Cost

2,160 MkWh Rs,31,935 Million Rs.14,78/kWh



Rs.109,296/KW (Capacity=525 MW)

Annual Energy available for Sale
Annual Recurring Charges
Generation Cost

2,630 MkWh Rs.16,659 Million Rs.6.50/kWh

#### Plant/Machinery/Equipment, Physical Facilities and Civil Works.

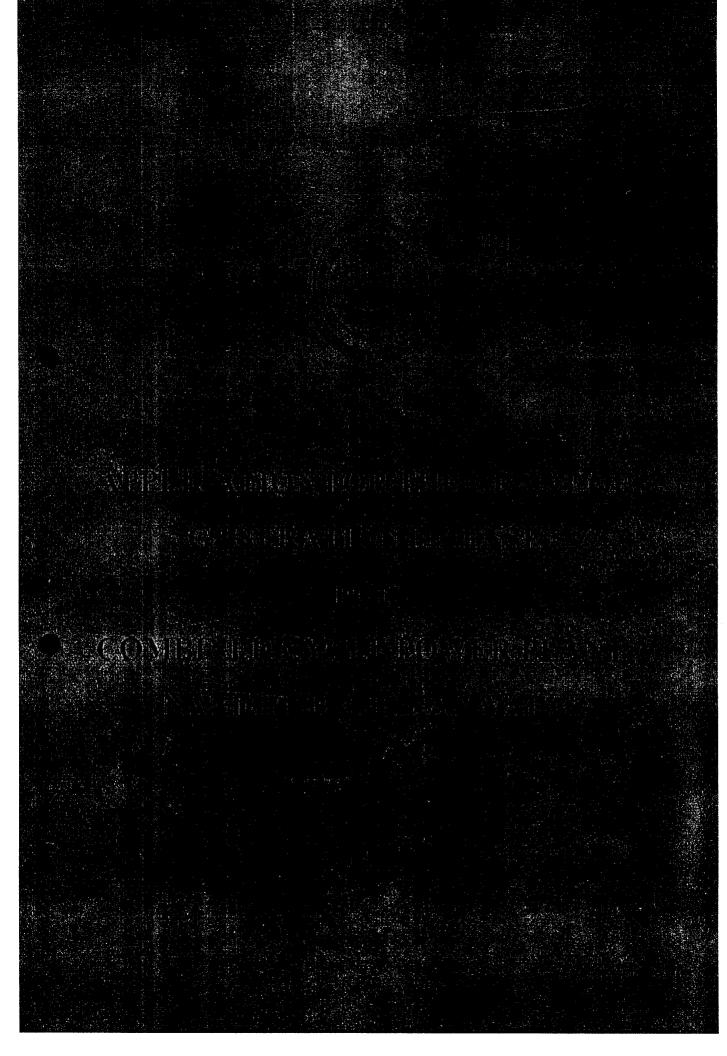
- Three heavy industrial type combustion Gas Turbine Generator Units.
- Three non-fired Heat Recovery Steam Generators.
- One Steam Turbine generator unit of suitable capacity.
- Four 15/132 kV unit transformer of suitable capacity.
- Auxiliary transformers of suitable capacity.
- One lot of electrical protection and control equipment.

- One lot of batteries, rectifier and inverters.
- One lot of Earthing System and lightning protection.
- One lot of 132 kV switchyard equipment including breakers, C.Ts, P.Ts. Isolators, post insulators, lightning arrestors, PLC equipment & gantries etc.
- Main Structure for machine hall, exhaust stack, control building and other associated buildings.
- Electrical station and control room equipment and accessories.
- Structure for outdoor switch vard.
- Cooling water supply system with cooling towers.
- Other miscellaneous items to make the plant operationally complete.
- Ten (10) Oil Storage Tanks each of 10,000 M.Ton Capacity with Fuel-Oil Treatment Plant, Fuel Oil Piping and Fire-Fighting System etc.

#### Social Benefits:

The power demand in the country is continuously rising due to increase in economic activities in the agricultural and industrial sectors. The fast urbanization has also increased the demand for electricity in the households. The households are using a greater number of electrical gadgets and appliances than ever before vis-à-vis increase in standard of living, an indicator of well-being resulting from higher per- capita disposable income.

The increased quantum of Electricity from the Plant will be used for farm mechanization. The much needed requirements for tube wells electrification will be adequately met which will not only provide additional water for irrigation but as well as reduce the ground water reservoir level. The reclamation of land will increase the cropped areas and also production. The availability of motive power will provide incentive for the establishment of industries based on local raw materials, creating gainful employment opportunities to increasing the work force. This is envisaged to considerably alleviate disguised unemployment on the farms. Provision of the basic infrastructure facility of electricity in rural areas will go a long way to check large scale migration of rural labor force to urban centers. The requirements of power demand for accelerated villages/ rural electrification program will also be adequately met. In the overall analysis, the improvement in ecological environments coupled with higher production is envisaged to bring about substantial economic gains for the people living around the project area.





# Northern Power Generation Company Limited

425 MW Combined Cycle Power Plant Nandipur, Gujranwala



Office of the Plant Manager CCPP, Nandipur Phone: 055 3400552 Fax : 055 3493761

email:- naveed.athar@yahoo.com

No. NPGCL/PM/NP/GL/ 2553

Dated:-06-07-2022

The Registrar.

National Electric Power Regulatory Authority. NEPRA Tower, Attaturk Avenue (East), G-5/1, Islamabad.

Subject: APPLICATION FOR GRANT OF GENERATION LICENSE ON BEHALF OF NORTHERN POWER GENERATION COMPANY LIMITED IN RELATION TO ITS COMBINED CYCLE POWER PLANT, NANDIPUR TO BE LOCATED AT DISTRICT GUJRANWALA-PUNJAB.

I, Naveed Athar, Plant Manager, CCPP Nandipur being the duly authorized representative of CCPP Nandipur of Northern Power Generation Company Limited by virtue of BOARD RESOLUTION No. NPGCL/BoD-131/14-18 Dated:- 11-01-2022, hereby apply to the National Electric Power Regulatory Authority (NEPRA) for the grant of a GENERATION LICENSE to the CCPP Nandipur of Northern Power Generation Company Limited (NPGCL) pursuant to Section 14 (b) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (2000).

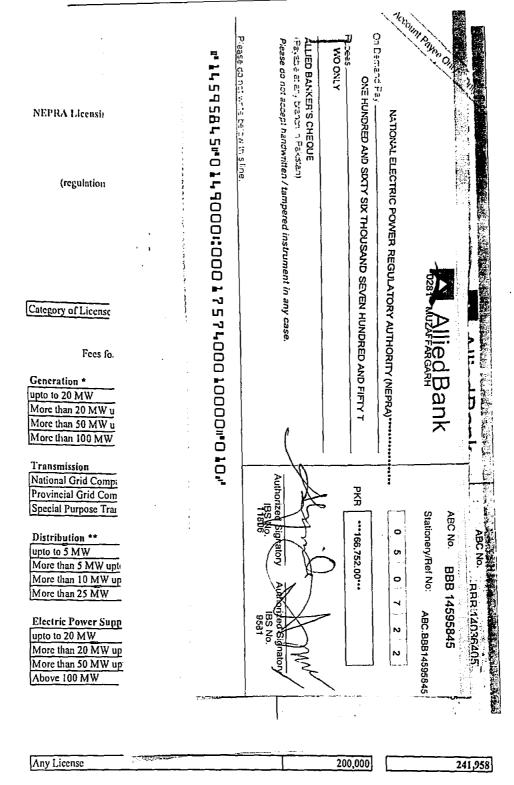
I hereby certify that the documents-in-support attached with this application are prepared and submitted in conformity with the provisions of the National Electric Power Regulatory Authority Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021, and undertake to abide by the terms and provisions of the above-said regulations. I further undertake and confirm that the information provided in the attached documents-in-support is true and correct to the best of my knowledge and no material omission has been made.

An amount of PKR 1,502,759 on account of license application fee has already been submitted and balance amount of PKR 166,752/- (Rupees One Hundred Sixty Six Thousand Seven Hundred Fifty Two only), calculated in accordance with Schedule II to the National Electric Power Regulatory Authority Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021, is submitting now. BANK DRAFT No. BBB 14595845 Dated:-05-06-2022 is attached herewith.

Sincerely,

For and on behalf of CCPP Nandipur.of NPGCL

Plant Manager and authorized Representative



The fees for processing an application for grant of license, an application for extension of term of the same license and an application for modification of the same license shall be the same.

#### Note:

- \* MW Capacity in case of a generation facility shall mean the ISO Gross Capacity as mentioned in the
- \*\* MW Capacity in case of a distribution facility shall mean 85% of the acumulated installed or expected to be installed Transformation Capacity as mentioned in the application.
- \*\*\* MW Capacity in case of electric power supply shall mean expected peak load to be served in the area as mentioned in the application.



# Northern Power Generation Company Limited

Thermal Power Complex, Mehmood Kot Road, Muzaffargarh



Company Secretary Office

Phone: 066-9200296-Fax-066-9200166

No. NPGCL/BoD-131/08/14-18

January 11, 2022

#### OFFICE MEMORANDUM

To:

The Chief Executive Officer NPGCL, TPS Muzafargarh

Subject:

Matter of Carving Out CCPP Nandipur from NPGCL

The Board of Directors of NPGCL has taken up the subject matter in its meeting No.131 held on January 10, 2022.

The Board has passed the following resolution:

"Resolved that the a separate power generation license be obtained for CCPP Nandipur from NEPRA in the light of direction conveyed by Ministry of Energy (Power Division) vide Office Order No. 1(33)GP-I/2021 dated 31<sup>st</sup> December 2021 and the CEO NPGCL and Plant Manager CCPP Nandipur be and are hereby authorized jointly and individually to take all measures for the purpose including but not limited to signing of prescribed applications and payment of requisite license fee(s) to NEPRA."

This is for your information and necessary action please.

Ahmed Noman Company Secretary

Copy for Information and necessary action please:

- 1. Chief Financial Officer, TPS Muzaffargarh
- 2. Plant Manager, CCPP Nandipur
- 3. Chief Engineer/TD, NPGCL, TPS Muzaffargarh

Copy for Record:

4. Master File





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Register No:

Ahsan Ali E-Stamping Vendor

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#### **AFFIDAVIT**

#### BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

I, Naveed Athar, Plant Manager, CCPP Nandipur of Northern Power Generation Company Limited being duly authorized representative / attorney of CCPP Nandipur of Northern Power Generation Company Limited, hereby solemnly affirm and declare that the contents of the accompanying application No. PM/NP/GL/2553, Dated:- 06-07-2022 including all supporting documents are true and correct to the best of my knowledge and belief and that nothing has been cancelled. I also affirm that all further documentation and information to be provided by me in connection with the accompanying shall be true to the best of my knowledge and belief.

DEPONENT

(Nacht/Athar)
Plant Manager CCPP Nandipur
NPGCL

Verified on oath this 14th day of January 2022 that the contents hereof are true and correct to the best of my knowledge and belief and nothing has been cancelled.

PEPONENT

(Navidi Athar) Plant Manager CCPP Nandipur

**NPGCL** 





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Low Denomination

Amount:

Rs 100/-

Description

Applicant

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CHACOHARY HASSAN ALI

Address tysue Date AJANANATHA 4-Jul-2022 3:07.47 PM

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11-Jul-2022

One Hundred Rupers Only

FOR NEPRA

Vendor Information

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Register No: -

Ahsan Ali E Stamping Vendor

نوت بیہ ٹرانزیکشن تاریخ اجرا سے سات دنوں تک کے لیے قابل استعمال ہے۔

# **AFFIDAVIT**

# BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

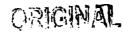
I, Naveed Athar, Plant Manager, CCPP Nandipur of Northern Power Generation Company Limited being duly authorized representative / attorney of CCPP Nandipur of Northern Power Generation Company Limited, hereby solemnly affirm and declare that no license under the Act has been granted separately to CCPP Nandipur.

DEPONENT

(thar) Plant Manager CEPP Nandipur

NPGCL)





E-STAMP

Stamp Type :

PB-GRW-A654621FEBCEEBF1

Amount :

Low Denomination

Amount :

betration

AFFIDAM:

Applicant .

NAVEED ATHAR CHAUDHARY[36302-1991704.5]

Address

CHAUDHARY HASSAN ALI

Address :

GUIRANWALA 4-Jul-2022 3:07:47 PM

Delisted On/Validity:

11-Jul-2022

Amount in Words .

One Hundred Rupees Only

Reason .

FOR NEPRA

endor Information :

Ahsan Ali | PB-GRW-156b | District Courts

Lic. No. E. -GRVV-156
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لوث به ترافزیکشن کاریخ اجرا سے سات دنوں تک کے لیے قابل استعمال ہے۔

# **AFFIDAVIT**

# BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

I, Naveed Athar, Plant Manager, CCPP Nandipur of Northern Power Generation Company Limited being duly authorized representative / attorney of CCPP Nandipur of Northern Power Generation Company Limited, hereby solemnly affirm and declare that the grant of license under the Act has not been refused by NEPRA.

DEPONENT

Plant Manager CCPP Nandipur

NPGCL





Wagas Ahmad

Snr. Customer Services Manager Power Services

Level 12, ARFA Software Technology Park, 346-B, Ferozepur Road, Lahore, Pakistan

T +92 300 8478589 Waqas ahmad@ge.com

Dated: 20-12-2021

Ref: NPGCL letter No. PM/NP/GE/997-98 (Dated:17-12-2021)

This refers to the above-mentioned letter, it is categorically confirmed that GE units installed at Nandipur can run on HSD. However, the engineering comments on operation of units on Liquid fuel are as under.

"In addition Mark review and comments about detail of FMI for gas fuel capability, I can see all three units software has relevant codes for liquid fuel operation, if the liquid fuel system was out of service for long time please perform all lineup and flushing as per P&ID and also perform all devices function checks if the Liquid to gas and gas to liquid changeover was not tested before please perform these test under supervision on GE mechanical and control TA's".

In the context, prior to operate the GTs on liquid Fuel i.e., HSD, the GE Engineering Comments need to be addressed.

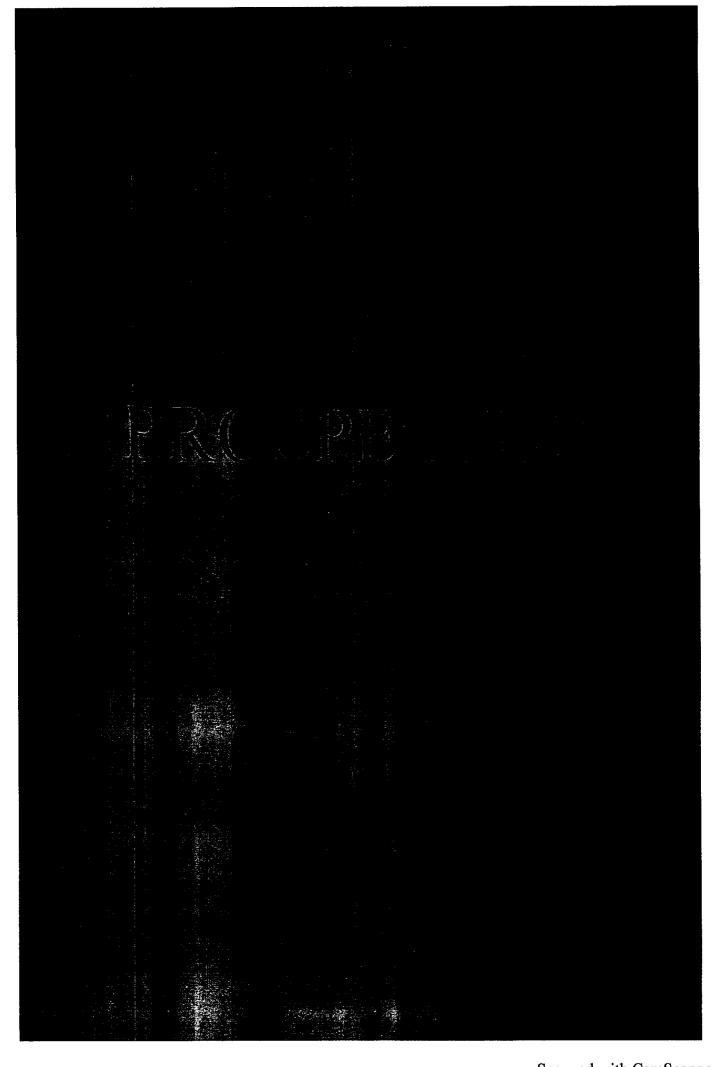
Best Regards,

Wagas Ahmad

Senior Customer Services Manager

**Power Services** 

GE Pakistan



# **PROSPECTUS**

Project Name:

Location of the Project:

Commencement Date: Initial Completion Date

Work Suspension Period

Re-commencement
Date
COD of 1<sup>st</sup> Gas turbine
COD of 2<sup>nd</sup>Gas turbine
COD of 3<sup>rd</sup>Gas turbine
Power Plant achieved
COD on
Project Cost as per PC1
Tariff approved by

**NEPRA** (levelized)

Conversion to Gas Fuel 425-525 MW, Combined Cycle Power Plant, Nandipur. On the left bank of Upper Chenab Canal (within the premises of the existing small Hydel Power Station,

Nandipur, Gujranwala). Oct-16, 2008

Apr 16, 2011

April-2010 to October-2013 owing to financial& legal reasons. (Non-issuance of legal opinion to Foreign lenders by Ministry of Law, Justice and parliamentary affairs and subsequent withholding of Original Bills of Lading by the Letter of Credit (L/C) opening local Banks'.

21-10-2013 06-12-2014 27-03-2015 20-05-2015 23-07-2015

Original 22,335 Millions Revised Rs. 58,416 Millions

Rs. 11.6361/KWH on HSFO

Rs. 10.3157/KWH on Gas

- 100 MMCFD gas quota has been allocated for Nandipur Plant.
- M/S SNGPL has commissioned the pipeline with metering station against deposit work.
- M/S General Electric (GE) hascompleted the works whereas regarding the BoP Works, the EPC contract has been signed with M/S Amcorp-Gasco(JV) on 13.02.2017. M/S Amcorp-Gasco (JV) has completed all the works including installation of Gas Booster Compressors and Performance Testing of the Complex..
- The Plant is operating on gas fuel after successful gas conversion works since 26.04.2017

Nandipur Combined Cycle Power Plant 525 MW Capacity comprises of three Gas Turbines, each of 110 MW Capacity, one Steam Turbine of 195 MW Capacity and three HRSGs supplying steam to the Steam Turbine along-with associated BOP. The plant is capable of operating on Gas (RLNG) and Liquid (HSD) Fuels.

Location Nandipur- Gujranwala. (Map attached as Annex-I) Size (Capacity in MW)

525 MW-Gross Capacity at site conditions. (Detail

attached as Annex-II)

Fuel Type Gas (RLNG) by SNGPL through pipeline and HSD

by PSO (Detail Attached as Annex-III)

**Emission Values** Detail attached as Annex-IV.

Cooling Water Source Canal/Tube wells (Detail attached as Annex-V)

Interconnection with NTDC, Scheme & Single-Line Diagram (Attached

NGC as Annex-VI)

#### Plant

#### Characteristics:

Generation Voltage 15 kV

Frequency 50Hz, ± 2.5% Power Factor 0.85 (Lagging)

Auxiliary Consumption 2.536 % Gas 30% Efficiency of

Turbines

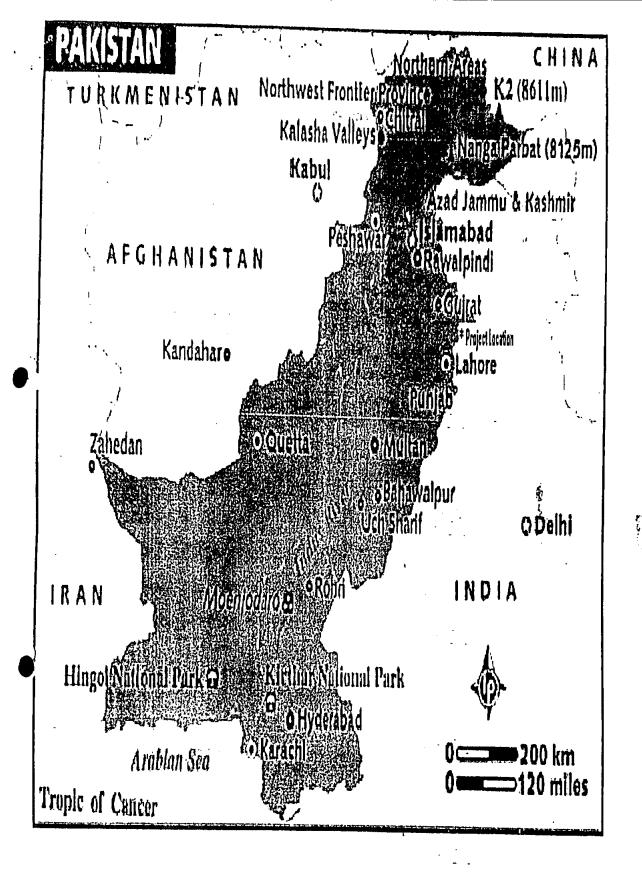
Combined Cycle 49%

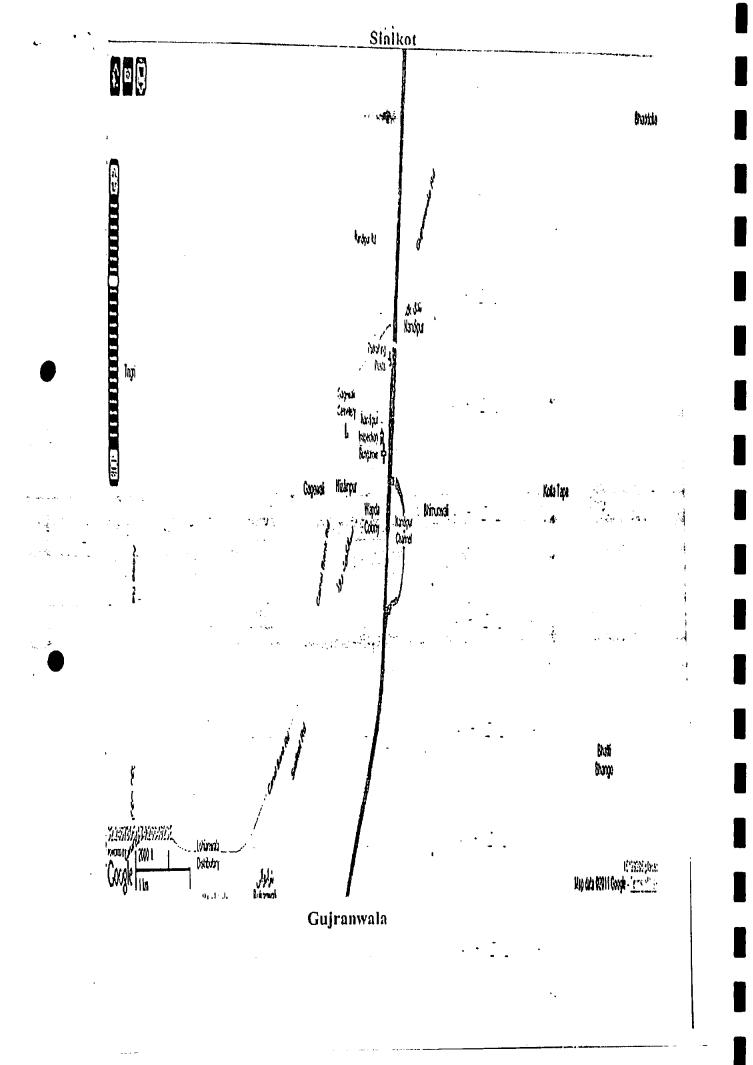
Efficiency

Rs. 57,380 Million Project Cost **Unit Cost** Rs. 109,296/kW

## **ANNEXURE-I**

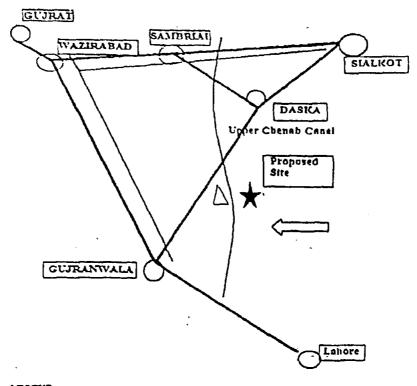
Location Maps, Site Maps, Land





# PROPOSED SITE FOR NANDIPUR 425 MW THERMAL COMBINED CYCLE PROJECT

(Sketch Not To Scale)



#### negend

Δ	Existing Hydel Power Station Nandipur.	
	koad	Г
	Rail	
	Upper Chenab Canal	L
*	Proposed Site Of CCPP, Nandipur.	

## **ANNEXURE-II**

Technology, Size of Plant, No. of Units

## Technology, Size of Plant, No. of Units

1	Type of Technology	Combined Cycle Power Plant (CCPP)		
2	Number of Units	3 x Gas Turbine  1 x Steam Turbine		
	<del>_</del>			
Pla	ant Capacity/Size MW	On HSFO	On Gas (RLNG)	On HSD
3	474.0	474.0	565.65 MW	474.0
4	425.0	425.0	513.51 MW	425.0
5	411.0	411.0	500.49 MW	411.0
6	14.0 MW (3.29 %)	14.0 MW (3.29 %)	13.02 MW (2.536 %)	14.0 MW (3.29 %)

## **ANNEXURE-III**

## Fuel

Type, Imported/Indigenous, Supplier, Logistics, Pipelines etc.

## **FUEL DETAILS**

1	Primary Fuel	Gas (RLNG)
2	Alternative / Back-up Fuel	HSD
3	Primary Fuel Source (Imported/Indigenous)	Imported
4	Fuel Supplier	SNGPL & PSO
5	Supply Arrangement	Gas by SNGPL through Pipe-Line. HSD by PSO through Oil Tankers.
6	No. of Storage Tanks	02
7	Storage Capacity of Each Tank	10,000 M Ton
8	Total Gross Storage	20,000 M Ton

## **ANNEXURE-IV**

**Emission Values** 

## **EMISSION VALUES**

Sr. No.	Description	GAS	HSD
1	SO <sub>x</sub> (SO <sub>2</sub> )	< 1% Very Low	Later
2	NO <sub>x</sub> @ 15% O <sub>2</sub> )	Very Low	Later
3	СО	Very Low	Later
4	PM	Very Low	Later

• Within permissible limits of World Bank.

## **ANNEXURE-V**

Cooling Water Source
Tube-Wells, Sea/River/Canal, Distance from
Source etc.

### **COOLING WATER SOURCE**

### Upper Chenab Canal (UCC):

Cooling water for the Plant shall be supplied from UCC passing through the Plant virtually having no distance. Average flow of canal-water is 8,000 Cusecs. Raw water from Canal shall be pumped and passed through the condenser of Steam Turbine in Open-cycle mode.

#### **Tube-Wells & Cooling Towers:**

During canal closure which is normally less than on month in a year, tube wells installed inside the boundary of the plant, shall supply make-up water to the Cooling Towers for cooling of the Plant in Closed-Cycle mode.

## **ANNEXURE-VI**

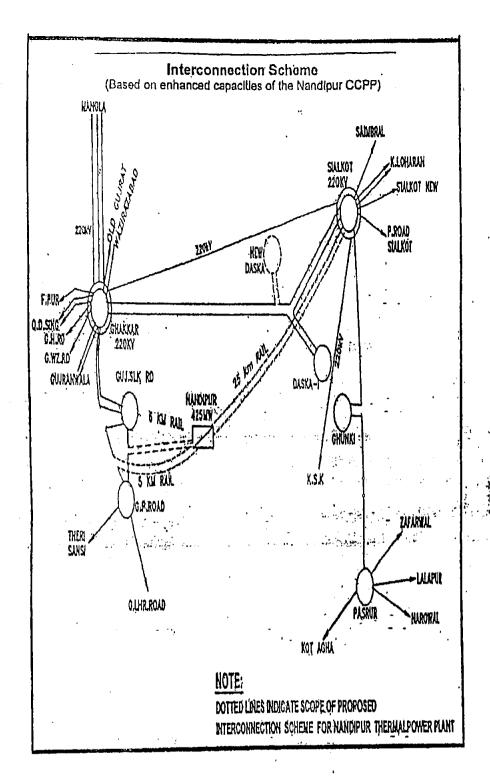
# Interconnection with National Grid Company

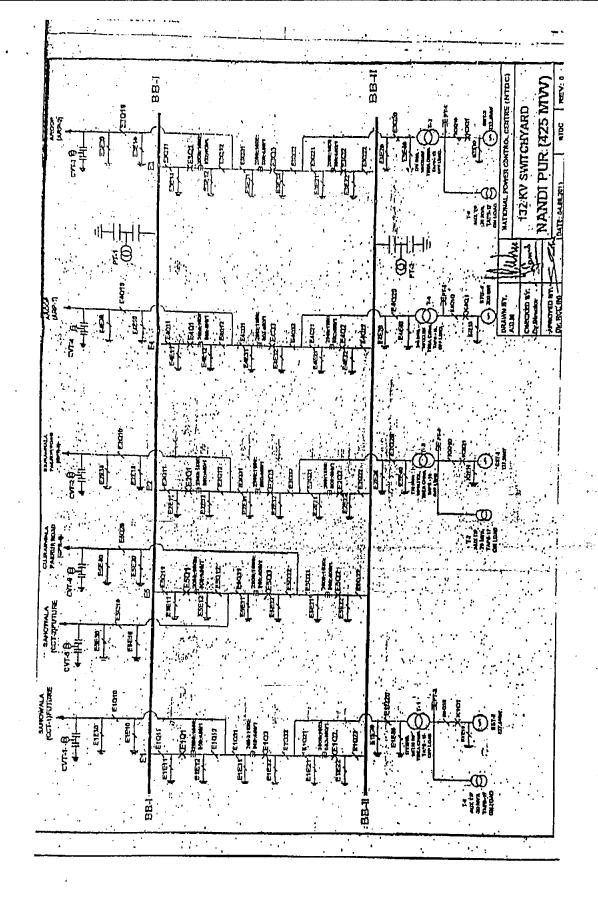
Stance and name of the nearest Grid, Voltage level (Single-Line Diagram)

#### Interconnection with National Grid

The Power generated from the Power Plant shall be dispersed to power system directly within GEPCO load center at 132kV voltage level through six circuits comprising three D/C transmission lines as follows:

- •132 kV D/C T/Line with twin bundle Rail Conductor (on 220 KV Towers) from Nandipur CCPP to Sahowala 220/132 kV Substation (33 Km).
- Two 132kV D/C T/Lines on AASC Greely Conductor for looping In/Out of 132 KV D/C T/Lines from Gujranwala Pasrur Road - Gujranwala Sialkot Road (Aroop) at Nandipur CCPP (7.0 + 6.5=13.5 Km)



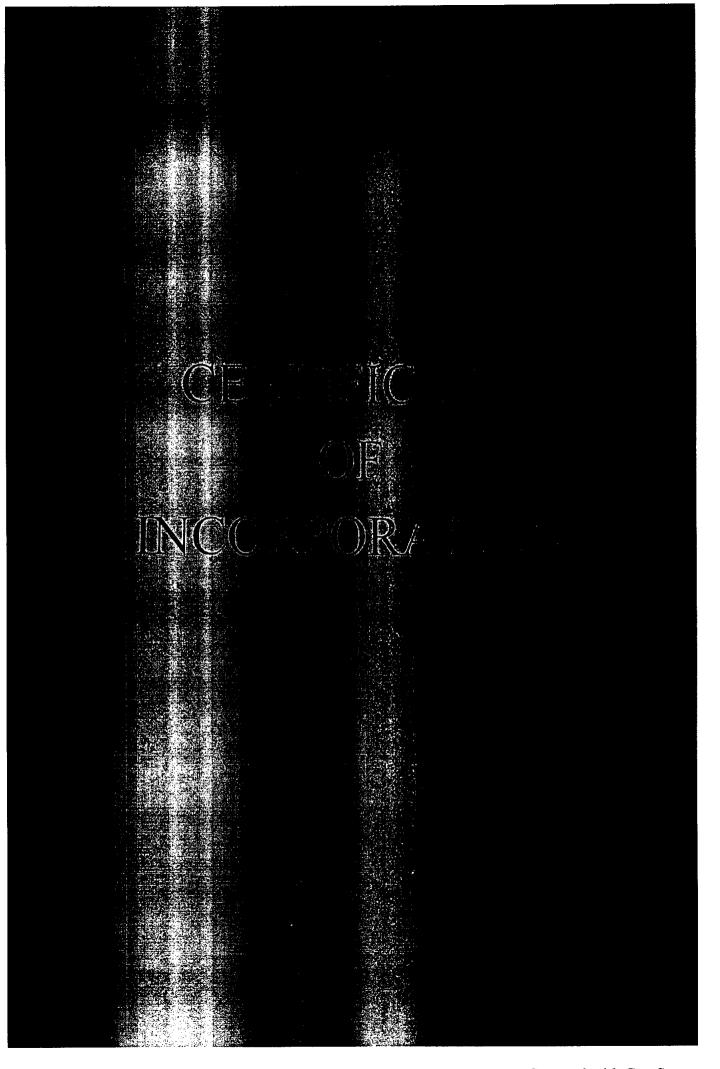


# **Detail of installed Capacity**

CCPP, Nandipur

# Detail of installed Capacity CCPP, Nandipur

	On HSFO		On Gas Fuel		On I	ISD
	ISO 15 ºC	Site Condition 30 °C	ISO 15 ºC	Site Condition 30 °C	ISO 15 ºC	Site Condition 30 <sup>0</sup> C
03 no. Gas Turbines (MW)	3 x 106.7 = 320.1 MW	3 x 95.4 = 286.2 MW	3 x 122.1 = 366.3 MW	3 x 110.5 = 331.8 MW	3 x 106.7 = 320.1 MW	3 x 95.4 = 286.2 MW
01 No. Steam Turbine (MW)	1 x 153.89 = 153.89 MW	1 x 138.80 = 138.80 MW	1 x 199.35 = 199.35 MW	1 x 182 = 182.0 MW	1 x 153.89 = 153.89 MW	1 x 138.80 = 138.80 MW
Gross Capacity of complete CCPP (MW)	474.0 MW	425.0 MW	565.65 MW	513.51 MW	474.0 MW	425.0 MW
Net output of complete CCPP (MW)	460.0 MW	411.0 MW	550.00 MW	500.49 MW	460.0 MW	411.0 MW
Auxiliary consumption	13.99 MW (2.95 %)	14.0 MW (3.29 %)	15.65 MW (2.766 %)	13.02 MW (2.536 %)	13.99 MW (2.95 %)	14.0 MW (3.29 %)



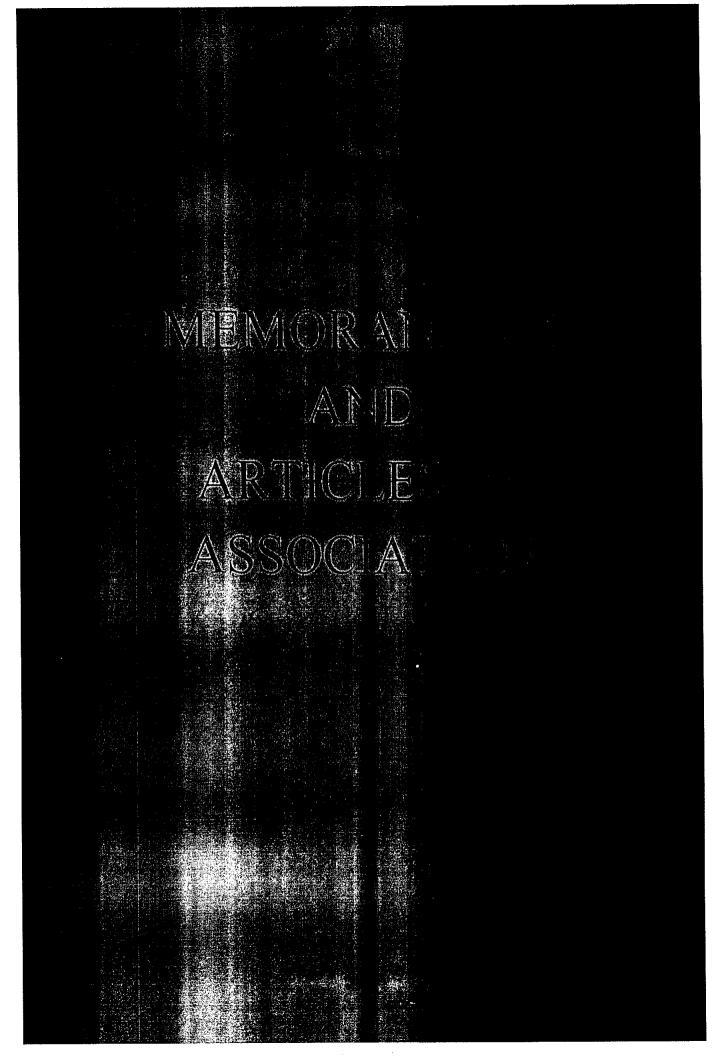
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Company Registr	ation No.	1 6 1	
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		4.	
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the company is limited			
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the company is limited	y band at ———————————————————————————————————	Sharas. Latore.	
Given under my	by ————————————————————————————————————	Sharas. Latore. October	
Given under my this	y hand at ———————————————————————————————————	January eight	
Given under my this	y hand at ———————————————————————————————————	January eight	
Given under my this	y band at ———————————————————————————————————	Shares.  Labore.  October  day of   Ninety eight	
Given under my this	y hand at ———————————————————————————————————	Aberes.  Letore.  October  day of Winety eight	
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Given under my this	y band at  Stire  red and  Certified to be	Latore.  Latore.  October  day of  Ninety eight  Companies  ation Office  Pakistan  B. AKBAR  SMAH	
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#### GOVERNMENT OF PAKISTAN



# CERTIFICATE FOR COMMENCEMENT OF BUSINESS [Under section 146 (2) of the Companies Ordinance, 1984 (XLVI) (1984)]

	"No	RTHERN POUTR GO	NERATION COMPAN	Y LTD.
*****	//	whic	h was incorporated uno	der the
Companie	es Ordinance, 1984 (XLVII	of 1984), on the	15th	
day ol	October	<b>19</b> 93	d which has filed a duly	verified
declaratio	on in the prescribed form t	nat the conditions of cl	auses (a) to (e) of sub-	-section
(1) of S	Section 146 of the said	Ordinance have been	complied with, is ent	titled to
commend	ce business.			
<u>.</u>				
Giv	en under my hand at	Lahore		
this	23rd	day	November of	******
one thous	and nine hundred and		Namety eig	ght.
		·		
Fee	Rs. =200/- C6	ertified to be	true <b>Øopy</b>	
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	The state of	Smuty Registra: of	Companies	
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#### THE COMPANIES ORDINANCE, 1984

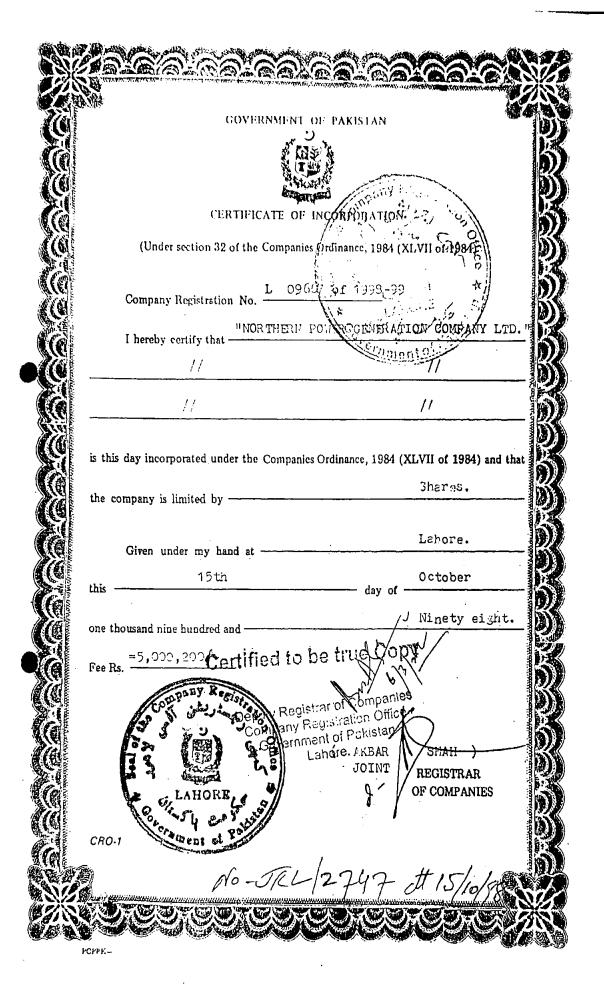
Company Limited by Shares

#### Memorandum

and

**Articles of Association** 

NORTHERN POWER GENERATION COMPANY LIMITED



#### GOVERNMENT OF PAKISTAN



# CERTIFICATE FOR COMMENCEMENT OF BUSINE [Under section 146 (2) of the Companiès Ordinànce; 1984 (XEVI) of 1984)]

t hereby cerbly that the	R JENERATION COMPANY LTD.
	, which was incorporated under the
Companies Ordinance, 1984 (XLVII of 1984), on the.	15th
day of October 19 98	and which has filed a duly verified
declaration in the prescribed form that the conditions	of clauses (a) to (e) of sub-section
(1) of Section 146 of the said Ordinance have	been complied with, is entitled to
commence business.	
Given under my h <b>and at</b>	re
this23rd	November day of
one thousand nine hundred and	
one thousand time managed and	
Fee Rs. =200/- Certified to	be true <b>Copy</b>
Conpany Registra Company Registra Compan	ar of Companies sistration Office t of Pakistakbah SHAH ) sore Joint Registrar of Companies
No-ORL/3662	t23/11/98

#### NORTHERN POWER GENERATION COMPANY LIMITED

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#### MEMORANDUM OF ASSOCIATION

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1.	Name	. 1
2.	Registered Office	1
3.	Objects	1
.4.	Liability of Members	8

Authorized Capital



#### NORTHERN POWER GENERATION COMPANY LIMITED

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4.	Transfer of Shares	4
5.	Transmission of Shares	. 6
6.	Alteration of Capital	7
7.	Meetings and Proceedings.	A. S.
8.	Management and Administration	. 11/
9.	Powers and Duties of Directors	13 B
10.	Disqualification of Directors	J1#
11.	Proceedings of Directors	14
12.	Election and Removation Directors	, 13/
13.	The Seal	
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#### THE COMPANIES ORDINANCE 1984

#### PUBLIC COMPANY LIMITED BY SHARES

#### MEMORANDUM OF ASSOCIATION

-0f-

#### NORTHERN POWER GENERATION COMPANY LIMITED

- 1. The name of the Company is "Northern Power Generation Company Limited".
- II. The registered office of the Company will be situated in the Province of Punjab, Pakistan.
- III. The objects for which the Company is established are to undertake any or all of the following businesses in and outside Pakistan:
  - 1. Muzaffargarh, Multan, Multan Cantt, Faisalabad and Shahdara Power Facilities. To acquire or purchase from the Pakistan Water and Power Development Authority ("WAPDA") the business, properties, assets, and undertakings of WAPDA's blended fuel oil, high speed diesel, natural gas, and combined cycle power stations, having a combined nominal generation capacity of 2111.5 MW, consisting of twenty nine (29) thermal power generation units situated in the Districts of Muzaffargarh, Multan, Faisalabad and Lahore respectively, all in the Province of Punjab, together with related activities (collectively, the "Facilities") and to take over any or all of the belongings, fands, assors rights, privileges, liabilities, obligations and contracts related to or in respect of the facilities.
  - 2. Power Generation. To carry contine businesses of generating purchasing, importing, transforming, converting, distributing, supplying, exporting and dealing in electricity and all other forms of energy and products or services associated therewith and of promoting the conservation and deficient use of electricity and all other forms of energy, and all other powers necessary or incidental to the business of electricity generation; transmission, distribution and supply.
  - 3. Electrification. To do anything which a public electricity generation licensee is empowered or required to do under or by virtue of or under a license or other authorization granted according to law and its implementing rules and regulations or any statutory instrument made thereunder or any statutory modification or reenactment thereof and to plan, survey, design, supply equipment, and carry out the electrification of cities, towns, villages, gas and oil refineries, workshops, buildings, highways, bridges, ports, air terminals, and other premises within or outside Pakistan.
  - 4. Dealer in Electrical Equipment. To carry on all or any of the businesses of wholesalers, retailers, traders, importers, exporters, suppliers, distributors, designers, developers, manufacturers, installers, fitters, testers, repairers, maintainers, contractors, constructors, operators, users, inspectors, reconditioners,

servicers, improvers, alterers, protectors, removers, hirers, replacers, importers and exporters of, and dealers in, electrical appliances, systems products and services used for energy conservation, domestic, commercial, agricultural, industrial, household and general equipment, furniture, fixtures, fittings and devices, and all other kinds of goods, equipment, machinery, materials and installations, including but not limited to cables, wires, meters, pylons, tracks, rails, pipelines and any other plant, apparatus, equipment, systems and things incidental to the efficient generation, procurement, transformation, supply, and distribution of electricity.

- 5. Determination of Bulk Supply Tariff Rates. To ascertain the bulk supply tariff rates that will secure recovery of operating costs, interest charges and depreciation of assets, redemption at due time of loans other than those covered by depreciation, expansion projects, payment of taxes, and a reasonable return on investment, and to petition the appropriate government body for the adoption of or increase in its schedule of bulk supply tariff rates.
- 6. Facilities and Installations. To locate, establish, construct, equip, operate, use, manage and maintain thermal power plants, power grid stations, transforming, switching, conversion, and distribution facilities, grid stations, cables, overhead lines, substations, switching stations, tunnels, cable bridges, link boxes, telecommunications stations, masts, aerials and dishes, fiber optic circuits, satellites and satellite microwave connections, heat pumps, plant and equipment combined lifest and power schemes, offices, computer centers, shops, edispensing machines by pre-payment cards and other devices, showrooms, depots, factories, workshops, plants, printing facilities, warehouses and other storage facilities (including but not limited to facilities for storage and disposal of products and waste), training, education and display centers, stands and show-houses testing premises laboratories, research stations, compressor stations, vehicle a garksz terminals, transport facilities, roads, and other electrical cinstallations and infrastructure it may deem beneficial to its business.
- 7. Accident and conveyance of Assets. To acquire or convey, whether by purchase, lease, concession, grant, hire or otherwise, establish, develop, exploit, operate and maintain real or personal properties including but not limited to land, any estates in: land, claims, licenses, concessions, easements, exploration and production rights, and rights or interests of all descriptions in or relating to the same, which may seem to the Company capable or possibly capable of affording or facilitating the generation purchase, transformation, conversion, supply, distribution, and development of electricity or any other form of energy, and for the accomplishment of all the purposes of the Company herein stated.
- 8. Site Development. To build, construct, maintain, alter, enlarge, pull down, and remove or replace structures, factories, offices, works, wharves, roads, railways, tramways, machinery, engines, walls, fences, banks, dams, sluices or water courses and to clear sites for the same and to work, manage and control the same and to carry on any other business which may seem to the Company capable of being conveniently carried on in connection with the above or calculated directly or indirectly to enhance the value of or render more profitable the Company's properties, but not to engage in the business of a real estate developer.

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- 9. Intellectual Property Rights. To apply for and take out, purchase or otherwise acquire any patents, patent rights, inventions, secret processes, designs, copyrights, trademarks, service marks, commercial names and designations, technological know-how, formulae licenses, concessions and the like (and any interest in any of them), and exclusive or non-exclusive or limited rights to use any secret or other information as to any invention or secret process of any kind, and to use, exercise, develop, and grant licenses in respect of, and otherwise turn to account and deal with, the property, rights and information so acquired.
- 10. Metering. For the purposes of electricity generation and supply, distribution and communication, to install in, on, above or under any premises or place and to operate, use, inspect, maintain, repair, replace and remove cables, lines, ducts, transformers, switchgear (remotely controlled and otherwise, and including time switches), fuses, circuit breakers, electricity service equipment, meters and other devices for measuring or controlling the quantity or quality of electricity supplied, prepayment and debt payment devices, items provided to afford access to, support, encase, insulate, and protect from damage or tampering, the above-mentioned gadgets, or to protect people and property from injury or damage, or to comply with any legal obligation and for other purposes associated with the generation and supply of electricity and to install all such things and apparatus and items for the purposes of generating, supplying, measuring and controlling light, heat, steam, hot water, air-conditioning and refrigeration, and for associated purposes, including payment for these facilities.
- Demand Forecasting. To provide or procure the provision of such facilities and services as may be necessary or desirable to procure the provision of such facilities and and to satisfy such demand.
- Transportation. To acquire, (whether by purchase, lease, concession grant, hire or otherwise), charter, lease, take or letton hire, operate, use, employ or turn to account, build, equip, service, repair, maintain and supply motor vehicles, railway locomotives, wagons, trucks, vessels, and craft of any description, angineering plants and machinery, and parts and accessories of all sends, and to varry on the businesses of storage contractors, freight contractors, carriers by and, water and air, of freight and passengers, forwarding agents, shipping, agents and agents of any other kind, in so far as such activities are incrementation recessary for the generation, transformation, supply and distribution of electricity.
- 13. Audio-Visual System. To carry on as principal, agent, contractor or subcontractor all or any of the businesses of running, operating, managing, supplying and dealing in systems for the conveyance by any means of sounds, visual images, signals, and services, facilities and equipment ancillary to or for use in connection with such systems.
- 14. Management Information System. To carry on all or any of the businesses of running, operating, managing, supplying and dealing in data processing and information retrieval systems, computers, computer programmes and software, computer bureau and data bases, meter reading and credit checking and to provide services, facilities and equipment ancillary to or for use in connection with the same.

- 15 for even and the releptment of the carry on business as inventors, researchers and development in countries to conduct, primate and commission revearch and development in countries to the husinesses and activities of the Company and its subsidiaries, to even other and maintain research stations, laboratories, workshops, testing and prove open such and sites, facilities and establishments and installations, and to extreme and countries account the results of any research and development carried out to on to account the results of any research and development carried out to on to account the results of any research and development carried out to on to the countries of the coun
- I also a Contracting. A forcarry on all or any of the businesses of consultants, advisors and suppliers of management, personnel and training pervises, whether temperally of an inspect of one or more of the types of business or activity which the Company was power to carry or and to provide training and educatoral courts and the tion and materials, of every description for workers of the Company and for other persons.
- 17 Contracts To enter into agreement with any individual, firm, cooperative or other locally, company, corporate body. Government or local authority or other logal entity necessary or expedient for the purpose of carrying on any business of the Company.
- 18. Improving learning to carry on all or any of the businesses of and provide adjusted approximate with engineers (including without limitation electrical, indicated the communications of the particles, ventuation, civil, chemical, sanitation, telecommunications and gas engineers), mychanical technicians, draftomen, designers, ourveyors, architects, builders, installers, and shopfittens.
- 19. Advertisement of adopt such means of making known the products of the Campany as magazeem expedient and, in particular, by advertising in the press, by characters, by purchase and administration of works of art or interests, by publication of book capit periodical grant by granting prizes, rewards and donations.
- 20. Other Businesses. To carry on all or any of the businesses of manufacturers, wholesafers, retailers, and traders, whether generally or in relation to particular goods or commodities, and to carry on all or any of the businesses of factors, debt collectors, and developers of and dealers in property, so far as incidental to or necessary for the generation, transformation, distribution and supply of electricity.
- 21. Borrowing. To borrow or raise money or secure or discharge any debt or obligation (whether of the Company or any other person) in such manner as the Company thinks fit and in particular (but without prejudice to the generality of the foregoing) by the creation or issue, upon such terms as to priority or otherwise as the Company thinks fit, of securities of any kind or mortgages or discharges founded or based upon all or any part of the undertaking, property, assets and rights (present and future) of the Company, or, without any such security, and advance payments with or without allowance of mark-up thereon.
- 22. Bank Accounts. To open, operate, transfer, and close banking accounts of the Company with any bank or banks and to draw, make, accept, endorse, discount, execute, and issue promissory notes, bills of exchange, bills of lading, warrants, debentures, and other negotiable/non-negotiable or transferable/non-transferable instruments, but not to act as a finance or banking company.

- Guaranty and Suretyship. To exter into any guarantee contract of indemnity or suretyship and, in particular (without prejudice to the generality of the foregoing), to guarantee, support or secure, with or without consideration, whether by personal obligation or by moregaging or charging all or my part of the undertaking, property and assets (present and future), and unsubscribed capital of the Company or by both such metheds or in any other manner, he performance of any contract, obligation or commitment of, and the recayingst or payment of the principal amounts of and any premiums, interest, dividents, and other moneys payable on or in respect of any securities or liabilities of, any person, including (without prejudice to the generality of the foregoing) any company which is a subsidiary, an affiliate or a holding company of the Company or otherwise associated with the Company, whether or not any valuable consideration or advantage is received by the Company.
- 24. Partnerships. To enter into partnership, joint venture or cooperation arrangements with any person or company or other legal entity, local or foreign, carrying on or engaged in any business or transaction which the Company is authorized to carry on or engage in, or otherwise seek assistance from or assist any such person, company or legal entity.
- 25. Related Businesses. To acquire by any means the whole or any part of the assets, and to undertake the whole or any part of the liabilities, of any person, natural or juridical, carrying on or proposing to carry on any business which the Company is authorized to carry on or which can be carried on in connection therewith, to acquire an interest in, amalgamate or enter into partnership or into any arrangement for sharing profits, cooperation, or mutual assistance, with any such person, to promote, form and sponsor any company or companies in furtherance of the objects herein stated, and to give or accept, for any of the acts or things aforesaid or property acquired, such consideration as the Company thinks fit, including without limitation, any shares, debentures, or other securities or rights.
- 26. Equity Investment. To invest the surplus moneys of the Company not immediately required in any manner to subscribe for, purchase or otherwise acquire, and to hold, and deal with, any shares, debentures, bonds, notes, and other securities, obligations and investments of any nature whatsoever, including any options or rights in respect of them, and otherwise to invest and deal with the money and assets of the Company, but not to act as an investment company.
- 27. Lending. To advance money or give credit to such persons or companies and on such terms as may seem expedient and, in particular, to customers and others having dealings with the Company, to guarantee the performance of any contract or obligation and the payment of money by the Company, and to accept securities of any person or any property or interest therein of whatever nature in payment or partial payment for any services rendered or for any sale or supply made to, or debt owing from, any such person, but not to act as a finance or banking company.
- 28. Trusts. To vest any real or personal property, rights or interests acquired by or belonging to the Company in any person or company on behalf of or for the benefit of the Company, with or without any declared trust in favour of the Company, and to undertake and execute any trust the undertaking whereof may seem desirable, either gratuitously or otherwise.

- 29. Portfoli, investments. Subject to such terms and conditions as may be thought advantageous, to trade its shares and to undertake markup and currency swaps, options (including traded options), swap option contracts, forward exchange contracts. Itumes contracts or other financial instruments allowed by law, including hedging agreements of any kind, all or any of which may be on a fixed and/or floating tate basis and/or in respect of local or foreign currency or commodities of any kind, but not to engage in the business of a stockbroker.
- Government Permissions. To apply for and obtain necessary consents, permissions and heenses from any Government. Provincial, Local, Foreign. Multilateral or other authorities or entities for enabling the Company to carry any of its objects into affect or for extending any of the powers of the Company or for effecting any modification of the constitution of the Company or for any other purpose which may seem expedient, and to enter into arrangements with any Government or authorities, foreign, federal, provincial, municipal, local or otherwise, public or quasi-public bodies, or with any other persons, in any place where the Company may have interests that may seem conducive to the objects of the Company or any of them and to obtain from any such Government, authorities or persons any rights, privileges and concessions which the Company may think fit to obtain, and to earry out, exercise and comply therewith.
- Dispute Resolution. To resolve disputes by negotiation, conciliation, mediation, arbitration, litigation or other means, judicial or extra-judicial, and to enter into compromise agreement with creditors, members and any other persons in respect of any difference or dispute with them and to exercise the power to sue and be sued and to initiate or oppose all actions, steps, proceedings or applications which may seem exercises of the Company of of its members.
- 32. Employees Funds. - To establish and maintain or procure the establishment and maintegance of any contributory of non-contributory pension or superannuation funds for the benefit of, and give an procure the giving of donations, gratuities. pensions, allowances or emoluments to such persons who are or were at any time in the employ of service of the Company, or of any company which is a holding company or a subsidiary of the Company or is allied to or associated with the Company of which such subsidiary or affiliate company, or who are or were at any time directors for officers of the Company or of any such other company as aforesaid, and the wives, widows, families and qualified dependents of any such persons, and also to establish, subsidize and subscribe to institutions. associations, clubs or funds calculated to be for the benefit of or to advance the interests and well-being of the Company or of any such other company as aforesaid, and make payments to or towards the insurance of any such person as aforesaid and do any of the matters aforesaid, either alone or in conjunction with any such other company as aforesaid.
- 33. Remuneration. To enter into contracts with its salaried employees, including a chief executive who, prior to his appointment as such, was not a director of the Company or of its subsidiary or holding Company, and to provide for such other financial assistance to said employees or workers under personnel rules and regulations that the Company may subsequently adopt.

- 34. Commissions. To pay and discharge all or any expenses, costs and disbursements, and to pay commissions and to remunerate any person for services rendered or to be rendered in connection with the formation, registration, promotion and flotation of the Company and any company formed, sponsored, registered, and promoted by the Company or incidental to any negotiations between promoters preliminary to the formation of the Company, and the underwriting, placing or issue at any time of securities of the Company or of any other person plus all costs and expenses incurred in the acquisition of any property or assets, including the accomplishment of all or any formalities which the Company may think necessary or proper in connection with any of the matters aforesaid.
- 35. Charitable Contributions. To subscribe or contribute (in cash or in kind) surplus properties to, and to promote or sponsor, any charitable, eleemosynary, scientific, educational, benevolent or useful object of a public character or any object which may in the opinion of the Company be likely, directly or indirectly, to further the interests of the Company, its employees and workers or its members, and to receive donations and grants, in cash or in kind, whether absolutely gratuitous or otherwise, which it may deem beneficial to its business, employees or shareholders.
- 36. Dissolution and Winding Up. To cease carrying on or wind up any business or activity of the Company and to cancel any registration of and to wind up or procure the dissolution of the Company in any state or territory.
- 37. Equity Conversion. To issue, allot and grant purpose of the Company towards the satisfaction of any liability or obligation undertaken or agreed to be undertaken by or for the benefit of the Company, or in consideration of any obligation or for any other similar purpose.
- 38. International Operations. To procure the Company to be registered or recognized in any part of the world and to do all or any of the above things in any part of the world, either as principal, agent, trustee compactor of otherwise, alone or in collaboration with another, and either by of through agents frustees, subcontractors, subsidiaries or otherwise.
- 39. Disposal of Assets and Declaration of Dividends. To dispose by any means of the whole or any part of the assets of the Company or of any interest therein and to distribute in specie or otherwise by way of dividends or bonus or reduction of capital all or any of the property or assets of the Company among its members, and particularly, but without prejudice to the generality of the foregoing, securities of any other company formed to take over the whole or any part of the assets or liabilities of the Company or any proceeds of sale or other disposal of any property or assets of the Company.
- 40. Insurance. To insure the property, assets, and employees of the Company in any manner deemed fit by the Company, and to create any reserve fund, sinking fund, insurance fund or any other special fund whether for depreciation or for repairing, insuring, improving, extending or maintaining any of the properties of the Company or for any other purpose conducive to the interests of the Company, but not to act as an insurance company.

- 41 Regulations. To make rules or regulations not inconsistent with this Memorandum and to provide for all matters for which provision is necessary or expedient for the purpose of giving effect to the provisions of this Memorandum and the efficient conduct of the affairs of the Company.
- 42. General Power. To carry on any other businesses or activities which the Directors consider capable of being carried on directly or indirectly for the benefit of the Company and to do all such other things as may be deemed incidental or conducive to the attainment of the above objects or any of them.

Declaration. It is hereby declared that:

- the word "company" in this Memorandum of Association, except where used in reference to this Company, shall be deemed to include any partnership or other body of persons, whether corporate or unincorporated, and whether dominical in Pakistan or elsewhere;
- the objects specified in tach of the paragraphs of this clause shall be regarded as independent objects and, accordingly, shall in no way be linglied or restricted (except) where otherwise expressed in such paragraphs by reference to or inference from the terms of any other paragraphs or the name of the Combany, but may be carried out in as full and ample a manifer and construct in as wide a sense as if each of the said paragraphs defined the objects of a separate and distinct company;
- the headings used in each of the paragraphs of this clause are for convenience only and are not intended to affect the construction thereof in any way; and,
- (d) notwithstanding anything contained in the foregoing object clauses of this Memorandum of Association, nothing herein shall be construed as empowering the Company to undertake or indulge in the business of managing agency, banking or financing institution, leasing, investment, or real estate brokerage or insurance, directly or indirectly, as restricted by law or in any unlawful operations.
- JV. The liability of the members is limited.
- V. The authorized share capital of the Company shall be Rs. 50,000,000,000 (Rupees Fifty billion) divided into 5,000,000,000 (five billion) ordinary shares of Rs. 10 (Rupees Ten) each with power to increase or reduce the capital and to divide the shares in the capital for the time being into several classes and to attach thereto respectively such rights, privileges or conditions as may be determined by or in accordance with the regulations of the Company, and to vary, modify or abrogate any such rights, privileges or conditions in such manner as may for the time being be provided by the regulations of the Company in accordance with law; provided, however, that rights as between various classes of ordinary shares, if any, as to profits, votes and other benefits shall be strictly proportionate to the paid-up value of shares.

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We, the several persons whose names and addresses are subscribed below, are desirous of being formed into a company to pursuance of this.

Memorandum of Association and we respectively agree to take the number of shares in the capital of the Company set opposite our respective names.

Name and surname (Present and former) in full (in Block Letters)	Father's/ Husband's Name in Full	Nationality	Occupation	Address	's nuber of Signature Shares taken by each Subscriber
1. Ch.Arshad Zaman	Ch.Sher Zaman	Pakistani .	Wapda Service	75. Babar Glock, New Garden Town	2.2
2. Mr. Muhammad Qasim Shaikh	Haji Noor Muhammad Shaikh	Pakistani	Wapda Service	Bachelor Officers Hostel, Thermal Colony. Whatabad, Faisalabad.	
3. Mr. Muhammad Maqbool Anjum	Ch. Imam Din	Pakistani	Wapda Service	54-Nishtar B. Alignur Tabal Towns Lahore.	
4. Mr.Mansoor Ali Sheikh	Muhammad Ali Sheikh	Pakistani	Wapda Service	2-C. Audit Officers Color 7. Control 2- III. Lahore	:
5. Mr. Akhtar Pervez Akhtar	Ch.Muhammad Ibrahim	Pakistani	Wapda Service	13. Daood Street No 24, Wasanpura Lahore,	
6. Brig. Saeed Ahmad Rafi	Muhammad Ajaib	Pakistani	Wapda Service	B-33, Upper Mail, Wapda Colony, Lahore.	1
7. Mr. Noor Elahi Baig	M.Fazal Elahi Baig	Pakistani	Wapda Service	B-2, Shalamar Grid Station, Wapda Colony, Lahore.	
			Total n	umber of shares taken	7 (Seven)

Dated the day of	. 199	
Vitness to the above signatur	Certified	Signature
(Full Name, Father's/Husba		<b>I</b> /
(in Block Letters)		, Decupation
	Deputy Registrar of Companies	
	Company Registration Office F Government of Pakistan	full Address9

#### THE COMPANIES ORDINANCE 1984

#### PUBLIC COMPANY LIMITED BY SHARES

#### ARTICLES OF ASSOCIATION

-of-

### NORTHERN POWER GENERATION COME

#### I. PRELIMINARY

1. TABLE "A" Not to Apply

The regulations in Table 'A' in the First Schedule to the Companies Ordinance, 1984 shall not apply to the Company except as reproduced herein.

#### 2. Definitions

Unless the context otherwise requires, capitalized terms used in these Articles shall have the meanings set out below:-

- (a) "Articles" mean these Articles as originally framed or as from time to time altered in accordance with law.
- (b) "Board" means the group of Directors in a meeting duly called and constituted or, as the case may be, the Directors assembled at a board.
- (c) "Company" means Northern Power Generation Company Limited.
- (d) "Directors" means the Directors for the time being of the Company as named in Article 49 and, subsequently, such members duly elected and registered pursuant to Sections 178 and 205, respectively.
- (e) "Month" means calendar month according to the Gregorian calendar.
- (f) "Office" means the registered office for the time being of the Company.
- (g) "Ordinance" means the Companies Ordinance, 1984, or any modification or re-enactment thereof for the time being in force.
- (h) "Ordinary Resolution" means a resolution passed at a general meeting of the Company when the votes cast (whether viva voce, by show of hands or by poll) in favour of a resolution by members who, being entitled to vote in person or by proxy, do so vote, exceed the number of votes, if any, cast against the resolution by members so entitled and voting.

- (i) "Register" means, unless the context otherwise requires, the register of members to be kept pursuant to Section 147 of the Ordinance
- (i) "Sent" means the common or official scal of the Company.
- (k) "Section" means a Section of the Ordinance.
- (l) "Special Resolution" means the special resolution of the Company as defined in Section 2(1)(36) of the Ordinance.

#### 3. Interpretation

In these Articles, unless the context otherwise requires.

- (a) provisions bearing on transfer or transmission of shares, meetings, voting in person or by proxy, management, and the appointment, powers and removal of Directors and employees of the Company shall be read subject to the provisions of Section 183 relating to the power of control by a holding company over its subsidiary; the headings are for convenience only and do not constitute part of these Articles and shall not be used in construing these Articles;
- (b) the singular includes the plural and vice versa and words denoting any gender shall include all genders;
- (c) references to any Act, Ordinance, legislation, Rules or Regulations or any provision of the same shall be a reference to that Act, Ordinance, legislation, Rules or Regulations or provision, as amended, re-promulgated or superscaled from time to time.
- (d) the/terms "include" or "including shall mean include or including without limitation;
- (e) expressions referring to writing shall, unless the contrary intention appears be construed as including references to printing, lithography, photography, and other modes of representing or reproducing words in a visible form \$1.59 \( \text{A}(\text{V}) \)
- (f) words importing persons shall include bodies corporate; and
- (g) words and expressions contained in these Articles shall bear the same meaning as in the Ordinance.

#### II. BUSINESS

#### 4. Public Company

The Directors shall have regard to the restrictions on the commencement of business imposed by Section 146 if, and so far as, those restrictions are binding upon the Company.

#### III. SHARES

#### A. General

#### 5 Shares Under Directors' Control

Subject to Section 183 and these Articles, the shares of the Company shall be under the control of the Directors who may allot or otherwise dispose of the same to such persons, on such terms and conditions as the Directors think prudent.

#### 6. Amount Payable on Application

No shares shall be offered to the public for subscription except upon the term that the amount payable on application shall not be less than the full amount of the nominal amount of the share.

#### 7. Allotment of Shares

No share shall be issued at a discount except in accordance with the provisions of the Ordinance. The Directors shall, as regards any allotment of shares, duly comply with such of the provisions of Sections 68 to 73, as may be applicable to the Company. The minimum subscription upon which the Company may proceed to allot the shares shall be Rs 500,000.

#### Share Certificates

Every person whose name is entered as a member in the Register shall, free of charge, be entitled to receive within ninety (90) days after allotment of within forty-five (45) days of the application for registration of transfers a certificate under Seal specifying the share or shares held by how and the amount paid-up thereon, including in particular and without limit from such legends as the company shall be obliged to affix to certain classes of share certificates as provided by law or as the Company shall have agreed to affix pursuant to any contractual arrangement in this respect; Provided, that in respect of share or shares held jointly by several persons, the Company shall have be bound to issue more than one certificate, and delivery of a certificate for a shall to the overal joint holders shall be sufficient delivery to all.

#### 9. Certificate under Seal

The certificate of title to shares may be issued under the authority of a Director or of a committee of Directors duly authorized thereto by the Board in such manner and form as the Directors may from time to time prescribe. The Seal shall be duly affixed to every share certificate issued by the Company.

#### 10. Issuance of Replacement Certificate

If a share certificate is defaced, lost or destroyed, it may be renewed on payment by the requesting shareholder or his representative of such fee and stamp taxes, if any, and compliance with such terms prescribed by the Directors as to evidence and indemnity and payment of expenses incurred by the Company in investigating title.

#### 11. Joint Holders

The Company shall not be bound to register more than four persons as joint holders of any share.

#### 12. Trusts Not Recognized

Except as required by law, no person shall be recognized by the Company as holding any share/s upon any trust, and the Company shall not be bound by or be compelled in any way to recognize (even when having notice thereof) any equitable, contingent, future or partial interest in any share or any interest in any fractional part of a share or (except only as by these Articles or by law otherwise provided) any other rights in respect of any share except an absolute right to the entirety thereof in the registered holder.

#### 13. Payment of Commission

The Company may at any time pay a commission to any person for subscribing or agreeing to subscribe (whether absolutely or conditionally) for any shares, debentures or debenture stock in the Company or procuring or agreeing to procure subscriptions (whether absolutely or conditionally) for any shares, debentures or debenture stock in the Company; Provided, that, if the commission in respect of shares shall be paid or payable out of capital, the statutory requirements and conditions shall be observed and complied with, and the amount or rate of commission shall not exceed such percentage on the shares, debentures or debenture stock in each case subscribed or to be subscribed, as may be determined by the Board subject to any limits required by fair. The commission may be paid or satisfied, either wholly or partly, in cash or in shares, debentures or debenture stock. The Company may also on any issue of shares pay such brokerage fees as may be lawful; flrovided that such brokerage fees shall not exceed such percentage of the shares, debentures or debenture stock paid-up as may be determined by the Board, subject to any limits required by law.

## 14. Bar on Use of Company Funds

Except to the extent and in the manner allowed by Section 95, no part of the funds of the Company shall be employed in the purchase of, or in loans upon the security of, the Company's shares.

#### B. TRANSFER OF SHARES

#### 15. Transfer

The instrument of transfer of any share in the Company shall be executed both by the transferor and transferee, and the transferor shall be deemed to remain the holder of the share until the name of the transferee is entered in the Register in respect thereof.

#### 16. Form of Transfer

Shares in the Company shall be transferred in the following form, or in any usual or common form which the Directors shall approve:-

THE REPORT OF THE PROPERTY OF

## Northern Power Generation Company Limited

i WeRupees	, of	_, in consideration of the sum of
	alled the "Transferee rdinary/Preferred Sha nding in my/our name	/s", for brevity), do hereby transfer to are(s) numbered to to in the books of the Northern Power and the said Transferee, his/her/their
executors, administrate I We held the same at	ors an <mark>d assigns</mark> , subj the time <mark>of the ex</mark> ecut	icct to the several conditions on which ion hereof, and I/We, the Transferee/s, abject to the conditions aforesaid.
Witness our hands this	day o	of,1998.
Transferor		Transferee
Signature	•	Signature
Signed by the above-n	amed Transferor/s an	d Transferee/s in the presence of:
<u>Witnesses</u>		Full Name, Father's/ Husband's Name
(1)Signature	· ·	Nationality 3
Full Address:	:	Occupation Regulation
		Full Address of Transferee: 10-10-10-10-10-10-10-10-10-10-10-10-10-1
Signature		
Full Address:		Occupation

#### 17. Non-Retusal of Transfer of Shares

The Directors shall not transfer any fully paid shares if the transfer deed is defective or invalid. The Director may decline to recognize any instrument of transfer, unless.

a fee not exceeding two rupees as may be determined by the Directors and the appropriate stamp tax is paid to the Company in respect thereof, and

the duly stamped instrument of transfer is accompanied by the certificate of the shares to which it relates, and such other evidence as the Directors may reasonably require to show the right of the transferor to make the transfer.

If the Directors refuse to register a transfer of shares, they shall within one Month after the date of which the transfer deed was lodged with the Company send to the transfer and the transferor notice of the refusal indicating the defect, invalidity or any ground for objection to the transferce, who shall, after removal of such defect or invalidity be entitled to re-lodge the transfer deed with the Company.

#### 18. Closure of Register

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On giving seven days' prior notice in the manner provided by the Ordinance, the Register may be closed for such period or periods not exceeding forty-five (45) days in any one year as the Directors may from time to time determine; however, the Register shall not be closed for a period longer than thirty (30) days at any given time.

#### C. TRANSMISSION OF SHARES

#### 19. Transmission

The executors, administrators, heirs or nominees, as the case may be, of a deceased sole holder of a share shall be the only persons recognized by the Company as having any title to the share. In the case of a share registered in the names of two or more holders, the survivor or survivors shall upon proof of his right of succession be the only person or persons recognized by the Company as having any title to the share.

#### 20. Election to Register or Transfer

Any person becoming entitled to a share in consequence of the death or insolvency of a member shall, upon such evidence being produced as may from time to time be required by the Directors, have the right, either to be registered as a member in respect of the share or, instead of being registered himself, to make such transfer of the share as the deceased or insolvent person could have made. The Directors shall, in either case, have the same right to decline or suspend registration as they would have had in the case of a transfer of the share by the deceased or insolvent person before the death or insolvency.

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21. Rights of Person Entitled by Transmission

A person becoming entitled to a share by reason of the locally or insolvency of the holder shall be entitled to the same dividends and of the advantages to which he would have been entitled if he were the registered holder of the share, except that he shall not, before being registered as a member in respect of the share, be entitled in respect of it to exercise any right conferred by membership in relation to meetings of the Company.

#### D. AUTERATION OF CAPITAL

#### 22. Power to Increase Capital

The Company may, from time to time, by ordinary resolution, increase the share capital by such sum to be divided into shares of such amount as the resolution shall prescribe.

#### 23. Further Issue of Capital

All further issue of share capital shall be subject to the applicable provisions of Section 86. Thereafter, the Directors may dispose of the same in such manner as they think most beneficial to the Company.

#### 24. Provisions Applicable to New Shares

The new shares capital shall be subject to the same provisions with reference to transfer and transmission as the original share capital.

#### 25. Consolidation and Subdivision

The Company may, by ordinary resolution:-

- (a) consolidate and divide its share capital into shares of larger amount than its existing shares;
- subdivide its existing shares or any of them into shares of smaller amount than that fixed by the Company's Memorandum of Association, subject to the provisos to Section 92, sub-section (1), clause (d); or
- cancel any shares which, at the date of the passing of the resolution, have not been taken or agreed to be taken by any person.

#### 26. Reduction of Share Capital

The Company may, by Special Resolution, reduce its share capital in any manner, with and subject to any incident authorized and consent required by law.

## IV. MEETINGS AND PROCEEDINGS

## A. GENERAL MEETINGS

#### 27. Statutory Meeting

The statutory meeting of the Company shall be held within the period required by Section 157.

#### 28. Annual General Meeting

The annual general meeting shall be held in accordance with the provisions of Section 158, within eighteen (18) Months from the date of incorporation of the Company and, thereafter, once at least in every year within a period of six Months following the close of its financial year and not later than fifteen Months after the sholding of its last preceding annual general meeting, as may be determined by the Directors.

### Other Meetings:

All general meetings of the Company other than the statutory meeting or an annual general meeting shall be called extraordinary general meetings.

### Extraordinary Meetings

Extraordinary general meetings may also be called on such requisition, or in default, may be called by such requisition, as provided under Section 159. If at any time there are not within Pakistan sufficient Directors capable of acting to form a quorum, any Director of the Company may call an extraordinary general meeting in the same manner as nearly as possible as that in which meetings may be called by the Directors.

#### B. Notice and Proceedings

#### 31. Notice of Meetings

Twenty-one days' notice at the least (exclusive of the day on which the notice is served or deemed to be served, but inclusive of the day for which notice is given) specifying the place, the date and the hour of meeting and, in case of special business, the general nature of that business, shall be given in the manner provided by the Ordinance for the general meeting to such persons as are, under the Ordinance or the regulations of the Company, entitled to receive such notices from the Company.

#### 32. Special Business

All business shall be deemed special that is transacted in an extraordinary general meeting and those transacted in an annual general meeting, with the exception of declaration dividends, the consideration of the accounts, balance sheet and the reports of the Directors and auditors, the election of Directors, and the appointment and fixing of the remuneration of auditors.

#### 33. Quenun

No business shall be transacted at any general meeting unless a quorum of members is present at that time when the diceting proceeds to business. Three members present personally who represent in Pless than twenty-live percent of the total voting power either on their own account or at proxies, shall be a quorum.

#### 34. Effect of Quorum Not Being Present

If within half an hour from the time appointed for the meeting a fatorium is not present, the meeting, if called upon the requisition of members half be dissolved; In any other case, it shall stand adjourned to the same day in the next week at the same time and place, and, if at the adjourned meeting a quorum is not present within half an hour from the time appointed for the meeting, the members present, being not less than three, shall be a quorum.

#### 35. Chairman of Meeting

The Chairman of the Board of Directors, if any, shall preside as chairman at every general meeting of the Company, but if there is no such Chairman, or if at any meeting he is not present within fifteen minutes after the time appointed for the meeting, or is unwilling to act as chairman, any one of the Directors present may be elected to be the chairman, and if none of the Directors is present, or willing to act as chairman, the members present shall choose one of their number to be the chairman.

#### 36. Adjournment

The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the majority of members present), adjourn the meeting from time to time but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. When a meeting is adjourned for ten days or more, notice of the adjourned meeting shall be given as in the case of an original meeting. Save as aforesaid, it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.

#### 37. Voting

A resolution put to the vote in any general meeting shall be decided on a show of hands unless a poll is (before or on the declaration of the result of the show of hands) demanded. Unless a poll is so demanded, a declaration by the Chairman that a resolution has, on a show of hands, been carried, or carried unanimously, or by a particular majority, or lost, and an entry to that effect in the minutes of the proceedings of the Company shall be conclusive evidence of the fact, without proof of the number or proportion of the votes recorded in favor of, or against, that resolution.

#### 38. Demand for a Poll

A pell may be demanded only in accordance with the provisions of Section 167.

#### 39. Manner of Taking a Poll

If a poll is duly demanded, it shall be taken in accordance with the manner laid down in Section 168 and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

#### 40. Time of Taking a Poll

A poll demanded on the election of Chairman or on a question of adjournment shall be taken at once.

#### 41. Casting Vote

In the case of an equality of votes, whether on a show of hands or on a poll, the chairman of the meeting at which the show of hands takes place, or at which the poll is demanded, shall have and exercise a second or casting vote.

#### C. Votes of Members

#### 42. Right to Vote

Subject to any rights or restrictions for the time being attached to any class or classes of shares, on a show of hands every member present in person shall have one vote except for election of Directors in which case the provisions of Section 178 shall apply on a poll, every member shall have voting rights as laid down in Section 160.

## 43. Voting S Joint Holders

In case of joint-holders, the vote of the senior who tenders a vote, whether in person of by proxy; shall be accepted to the exclusion of the votes of the other joint-holders. For this purpose, seniority shall be determined by the order in which the names stand in the Registor.

#### 44. Voting, Corporation Representatives

On a poll, votes may be given either personally or by proxy; Provided, that, no body corporate shall vote by proxy as long as a resolution of its directors in accordance with the provisions of Section 162 of the Ordinance is in force.

#### 45. Proxy to be in Writing

The instrument appointing a proxy shall be in writing under the hand of the principal to his attorney duly authorized in writing. A proxy must be a member of the Company.

#### 46. Instrument Appointing Proxy to be Deposited

The instrument appointing a proxy and the power-of-attorney or other authority (if any) under which it is signed, or a notarially certified copy of that power or authority, shall be deposited at the Office of the Company not less than forty-eight (48) hours before the time for holding the meeting at which the person named in the instrument proposes to vote and in default the instrument of proxy shall not be treated as valid.

47. Form of Proxy

An instrument appointing a proxy may be in the thereto as may be:	1	/(	(
thereto as may be:	li		

following form, or a form ascaler

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l. of heing a member of Northern Power	in the dispict of
, being a member of Northern Power	Generation Company Ministed, hereby
appointof	, as my proxy to vote for me
and on my behalf at the (annual/extra	ordinary as the case may be) general
meeting of the Company to be held on the	day of
and at any adjournment thereof.	

## 48. Revocation of Authority

A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, or the transfer of the share in respect of which the proxy is given; Provided, that, no intimation in writing of such death, insanity, revocation or transfer as aforesaid shall have been received by the Company at its Office before the commencement of the meeting or adjourned meeting at which the proxy is used.

#### V. MANAGEMENT AND ADMINISTRATION

- A. Board of Directors
- 49. Number of Directors

The number of Directors shall not be less than seven. The first Directors, to hold office until the first annual general meeting, shall be:-

- (1) Ch. Arshad Zaman
- (2) Mr. Muhammad Qasim Shaikh
- (3) Mr. Muhammad Maqbool Anjum
- (4). Mr. Mansoor Ali Sheikh
- (5) Mr. Akhtar Pervez Akhtar
- (6) Brig. Saeed Ahmad Rafi
- (7) Mr. Noor Elahi Baig
- . 50. Qualification of Directors

Save as provided in Section 187, no person shall be appointed as a Director unless he is a member of the Company.

#### 51. Chairman of the Board

The Directors may elect one of their number as the Chairman of the Board and vest in him such powers and functions as they may deem fit in relation to the management and administration of the affairs of the Company subject to their general supervision and control.

#### 52. Chief Executive

The Directors may elect one of their number to be the Chief Executive of the Company in accordance with the provisions of Sections 198 and 199 and vest in him such powers and functions as they deem fit in relation to the management and administration of the affairs of the Company subject to their general supervision and control. The Chief Executive of the Company shall be the *ex-officio* Vice-Chairman of the Board. The provisions of the Ordinance shall be observed regarding other matters relating to the Chief Executive.

#### 53. Remuneration

Subject to any approval or limits required by law, the terms and conditions and remuneration of:-

- (2) Director for performing extra services, including the holding of the office of Chairman:
- (b) the Chief Executive; and
- (c) any Director for attending the meetings of the Directors or a Committee of Directors shall be determined by the Board of Directors.

## 54. Alternate Director

A Director may, with the approval of the Board, appoint any person (including another (Director) to be his alternate Diffector and such an alternate Director shall be entitled to notice of meetings of the Directors and to attend and vote thereat accordingly and, generally, to exercise all the rights of such absent Director subject to any limitations in the instrument appointing him. For the purposes of the proceedings at such meetings, the provisions of these Articles shall apply as if any alternate Director (instead of his appointer) were a Director. An alternate Director shall not require any share qualification and he shall ipso facto vacate office as and when his appointer (a) vacates office as a Director; (b) removes the appointee from office; or (c) returns to Pakistan; Provided, that, upon each occasion upon which the appointer thereafter leaves Pakistan again, and unless the appointer shall have informed the Company to the contrary, he shall be deemed to have re-appointed the appointee as his alternate Director and no further approval of the Board shall be required unless the appointer desires to approve another person not previously approved by the Board as his alternate. If an alternate Director shall be himself a Director, his voting rights shall be cumulative but he shall not be counted as more than one for quorum purposes. Any appointment or removal under this Article shall be reflected by notice in writing under the hand of the Director making the same.

#### B. POWERS AND DUTIES OF DIRECTORS

#### 55 Ceneral Management Powers

the business of the Company shall be managed by the Directors, who man exercise all such powers of the Company as are not by the Ordinance or by these regulations, required to be exercised by the Company in general meeting, subject nevertheless to the provisions of the Ordinance or to any of these Articles, and such regulations being not inconsistent with the aforesaid provisions as man be prescribed by the Company in a general meeting, but its regulation made by the Company in general meeting shall invalidate any prior act of the Directors which would have been valid if that regulation had not been made.

#### 56. Borrowing Powers

The Directors may exercise all the powers of the Company to raise money otherwise than by issue of shares and to mortgage, charge, pledge, hypothecate or otherwise create an encumbrance on its undertaking or any part thereof and to issue debentures and other securities whether outright or as security for any obligation, liability or debt of the Company or of any third party. In exercising the aforesaid powers of the Company the Directors may, from time to time and on such terms and conditions as they think fit, raise money from banks and financial institutions and from other persons under any permitted system of financing, whether providing for payment of interest or some other form of return, and in particular the Directors may raise money on the basis of mark-up price, musharika, modaraba or any other permitted mode of financing, and without prejudice to the generality of the foregoing, the Directors may exercise all or any of the powers of the Company under Section 196(2) of the Ordinance. In particular, the Directors may issue any security as defined in Section 2(1)(34) of the Ordinance or may issue any instrument or certificate representing redeemable capital as defined in 2(1)(30A) of the Ordinance or participatory redeemable capital as defined in Section 2(1)(25) of the Ordinance.

#### 57. Duties of Directors

The Directors shall duly comply with the provisions of the Ordinance.

#### 58. Minute Books

The Directors shall cause minutes to be made in books provided for the purpose of:-

- (a) all appointments of officers made by the Directors;
- (b) the names of the Directors present at each meeting of the Directors and of any committee of the Directors; and
- (c) all resolutions and proceedings at all meetings of the Company and of the Directors and of committees of Directors; and every Director present at any meeting of Directors or committee of Directors shall sign his name in a book to be kept for that purpose.

#### C. DISQUALIFICATION OF DIRECTORS

#### 59. Disqualification of Directors

No person shall become a Director of the Company if he suffers from any of the disabilities or disqualifications mentioned in Section 187 of the Ordinance and, if already a Director, shall cease to hold such office from the date he so becomes disqualified or disabled or:-

- (a) if removed by general or special order of the holding company;
- (b) if removed by a resolution of members as hereinafter provided; or
- (c) if by notice in writing given to the Company he resigns his office;

Provided, however, that no Director shall vacate his office by reason only of his being a member of any company which has entered into contracts with, or done any work for, the Company but such Director shall not vote in respect of any such contract or work, and if he does so vote, his vote shall not be counted.

#### D. PROCEEDINGS OF DIRECTORS

#### 60. Meetings of Directors

- (a) The Directors may meet together for the dispatch of business, adjourn and otherwise regulate their meetings, as they deem proper. Questions arising at any meeting shall be decided by a majority of votes. In case of an equality of votes, the Chairman shall have and exercise a second or casting vote. A Director may, and the secretary on the requisition of a Director shall, at any time, summon a meeting of Directors. Seven (7) days' notice at the least, exclusive of the day on which the notice is served or deemed to be served, but inclusive of the day for which notice is given, shall be given for a meeting of Directors; Provided, that, if all the Directors entitled to attend and vote at any such meeting so agree, in writing, a meeting may be held of which less than seven (7) days' notice has been given.
- (b) The quorum for the meeting of directors shall not be less than one third of their number or four whichever is greater.
- A meeting of the Directors may consist of a conference between Directors, (c) some or all of whom are in different places; Provided, that, each Director who participates is able to hear each of the other participating Directors addressing the meeting and, if he so wishes, to address each of the other participating Directors simultaneously, whether directly, by conference telephone or by any other form of communications equipment (whether in use when this Article 60(c) is adopted or developed subsequently) or by a combination of methods. A quorum shall be deemed to be present if those conditions are satisfied in respect of the minimum number and designation of Directors required to form a quorum. A meeting held in this way shall be deemed to take place at the place where the largest group of Directors is assembled or, if no such group is readily identifiable, at the place from where the Chairman participates. Any Director may, by prior notice to the Secretary, indicate that he wishes to participate in the meeting in such manner, in which event, the Directors shall procure that an appropriate conference facility is arranged,

#### 61. Chairman of Directors' Meetings

The Chairman of the Board shall preside at all meetings of the Board but, if at any meeting the Chairman is not present within ten migutes after the time appointed tor holding the same or is unwilling to act as Chairman, the Directors present may thoose one of their number to be chairman of the meeting.

#### 62. Committees

The Directors may delegate any of their powers not required to be exercise the their meeting to committees consisting of such member of members of the body as they think fit. Any committee so formed shall, in the exercise of the powers so delegated, conform to any restrictions that may be imposed on it by the Directors.

#### 63. Chairman of Committee Meetings

A committee may elect a chairman of its meetings but, if no such chairman is elected, or if at any meeting the chairman is not present within ten minutes after the time appointed for holding the same or is unwilling to act as chairman, the members present may choose one of their number to be chairman of the meeting.

#### 64. Proceedings of Committee Meetings

A committee may meet and adjourn as it thinks fit. Questions arising at any meeting shall be determined by a majority of votes of the members present. In case of an equality of votes, the chairman shall have and exercise a second or casting vote.

#### 65. Validity of Directors' Acts

All acts done in any meeting of the Directors or of a committee of Directors shall, notwithstanding that it be afterwards discovered that there was some defect in the appointment of such Directors or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a Director unless the said act or acts is *ultra vires* in itself.

#### 66. Resolution in Writing

A resolution in writing circulated to all the Directors and signed by a majority of the total number of Directors or affirmed by them through fax, telex or telegram shall be as valid and effectual as if it had been passed at a meeting of the Directors duly convened and held.

#### E. ELECTION AND REMOVAL OF DIRECTORS

#### 67. Rotation of Directors

At the first annual general meeting of the Company, all the Directors shall retire from office, and Directors shall be elected in their place in accordance with Section 178 for a term of three years.

#### 68. Eligibility for Re-election

A retiring Director shall be eligible for re-election.

#### 69 Election in Accordance with the Ordinance

The Directors shall comply with the provisions of Sections 174 to 178 and Sections 180 and 184 relating to the election of Directors and matters ancillary thereto.

#### 70. Filling of Casual Vacancy

Any casual vacancy occurring in the Board of Directors may be filled by the Directors, but the person so chosen shall be subject to retirement at the same time as if he had become a Director on the day on which the Director in whose place he is chosen was last elected as Director.

#### 71. Removal of Director

The Company may remove a Director but only in accordance with the provisions of the Ordinance.

#### VI. THE SEAL

#### 72. Common Seal

The Directors shall provide a common seal of the Company which shall not be affixed to any instrument except by the authority of a resolution of the Board or by a committee of Directors authorized in that behalf by the Board. Two (2) Directors or one Director and the secretary of the Company shall sign every instrument to which the common seal is affixed.

#### 73. Official Seal

The Directors may provide for the use in any territory, district or place not situated in Pakistan, of an official seal which shall be a facsimile of the common seal of the Company, with the addition on its face of the name of every territory, district or place where it is to be used. The provisions of Section 213 shall apply to the use of the official seal.

#### VII. DIVIDENDS AND RESERY

#### 74. Declaration of Dividends

The Company in general meeting may declare dividends but no dividend shall exceed the amount recommended by the Board.

#### 75. Interim Dividends

The Board may from time to time direct payment to the members or to the holding company such interim dividends as appear to be justified by the distributable profits of the Company.

#### 76. Dividends Payable Out of Profits

No dividends shall be paid otherwise than out of distributable profits of the year or any other undistributed profits. No unpaid dividend shall bear interest against the Company.

#### 77. Dividends Payable on Amount Paid on Shares

All dividends shall be declared and paid according to the amounts paid on the shares.

#### 78. Reserve Fund

The Directors may, before recommending any dividend, set aside out of the profits available for distribution of the Company such sums as they think proper as a reserve or reserves which shall, at the discretion of the Directors, be applicable for meeting contingencies, or for equalizing dividends, or for any other purpose to which the profits of the Company may be properly applied, and pending such application may either be employed in the business of the Company or be invested in such investments (other than shares of the Company) as the Directors may, subject to the provisions of the Ordinance, from time to time think fit.

#### 79. Profit Carried Forward

The Directors may carry forward any profits which they may think prudent not to distribute, without setting them aside as a reserve.

#### 80. Payment of Dividends Specie

With the sanction of a resolution in a general meeting, any dividend may be paid wholly or in part by the distribution of specific assets and in particular of paid-up shares or debentures of any other company or in any one or more of such ways. The Directors may fix the value for distribution of such specific assets or any part thereof and may determine that cash payments shall be made to any members upon the footing of the value so fixed, in order to adjust the rights of all members, and may vest any such specific assets in trust for the propers entitled to the dividend as may seem expedient to the Directors.

#### 81. Dividends to Joint Holders

If several persons are registered as joint holders of all share, any one of them may give effectual receipt for any dividend payable on the share.

#### 82. Notice of dividend

Notice of any dividend that may have been declared shall be given manner hereinafter mentioned to the persons entitled thereto. The Company may give such notice by publication in a newspaper of general circulation in the Province where the Office is situated.

#### 83. Period for Payment of Dividends

Dividends shall be paid within the period specified in Section 251.

#### VIII. ACCOUNTS

#### 84. Books of Account

The Directors shall cause to be kept proper books of account as required under Section 230.

#### 85. Place Where Accounts Kept

The books of account shall be kept at the Office or at such other place as the Directors shall think fit and shall be open to inspection by the Directors during business hours.

#### 86. Inspection by Members

The Directors, or their representatives, shall from time to time determine whether and to what extent and at what time and place/s and under what conditions or regulations the accounts and books or papers of the Company or any of them shall be open to the inspection of members not being Directors. No member (not being a Director) shall have any right of inspecting of any account and book or papers of the Company, except as conferred to law or authorized by the Directors or by the Company in general meeting.

## 87. Annual Accounts

The Directors shall as required by Sections 233 and 236 cause to be prepared and to be laid before the Company in general meeting such profit and loss accounts and balance sheets duly audited and profits as are referred to in those sections.

## 88. Balance Sheet and Profit and Loss Account

A balance sheet, profit and loss account, and other reports referred to in the preceding Article shall be made out every year and laid before the Company in the annual general meeting made up to a date not earlier than six months before such meeting. The balance sheet and profit and loss account shall be accompanied by a report of the auditors of the Company and the report of Directors.

#### 89. Copy of Accounts to be Sent to Members

A copy of the balance sheet and profit and loss account and reports of Directors and auditors shall, at least twenty-one days preceding the meeting, be sent to the persons entitled to receive notices of general meetings in the manner in which notices are to be given as hereinafter provided.

#### 90. Compliance with the Ordinance

The Directors shall in all respects comply with the provisions of Sections 230 to 236.

#### 91. Capitalization of Profits

The Company in general meeting may, upon the recommendation of the Dibbers, resolve that it is desirable to capitalize any part of the amount for the three being standing to the credit of any of the Company's reserve accounts or to the credit of the profit and loss accounts or otherwise available for distribution. The Company may then set free such sum for distribution among the members who would have been entitled thereto if distributed by way of dividend and, into the same proportions, on condition that the same be not part in eash but horosplied in or towards paying up in full un-issued shares or debeuture of the Company to be allotted and distributed, credited as fully paid up to and antonousist such proportion aforesaid. The Board of Directors shall give the condition distribution by resolution.

#### 92. Audit

Auditors shall be appointed and their duties regulated in accordance with Sections 252 to 255 of the Ordinance.

#### IX. NOTICES

93. Notice to Members, etc.

Notice shall be given by the Company to members and auditors of the Company and other persons entitled to receive notice in accordance with law.

#### X. CONFIDENTIALITY

#### 94. Confidentiality Undertaking

Every director, manager, adviser, auditor, trustee, member of a committee, officer, agent, accountant, or other employees of the Company shall, if so required by the Directors, before entering upon his duties, sign a confidentiality undertaking in relation to all transactions of the Company with its customers and the state of accounts with individuals and in matters relating thereto, and shall undertake not to reveal any of the matters which may come to his knowledge in the discharge of his duties, except when required to do so by the Directors or by any general meeting or by any court of law of competent jurisdiction and except so far as may be necessary in order to comply with any of the provisions in these presents.

#### 95. Members' Access to Company Premises

No member or other person (not being a Director) shall be entitled to enter upon the property of the Company or examine the Company's premises or properties without the permission of a Director, subject to Article 94, to require discovery of or any information respecting any detail of the Company's trading or any matter which is or may be in the nature of a trade secret, mystery of trade, or secret process or of any matter whatsoever which may relate to the conduct of the business of the Company and which in the opinion of the Directors will be inexpedient, in the interest of the Company and its members, to communicate.

## XI. RECONSTRUCTION

#### 96. Reconstruction

On any sale of the undertakings of the Company, the Directors or the liquidators on a winding up may, if authorized by a Special Resolution, accept fully paid shares, debentures or securities of any other company, either then existing or to be formed for the purchase in whole or in part of the property of the Company. The Directors (if the profits of the Company permit), or the liquidators (in a winding up), may distribute such shares or securities, or any other properties of the Company amongst the members without realization, or vest the same in trustees for them. A Special Resolution may provide for the distribution or appropriation of the cash, shares or other securities, benefits or property, and for the valuation of any such securities or property at such price and in such manner as the meeting may approve. All shareholders shall be bound by any valuation or distribution so authorized, and waive all rights in relation thereto save only such statutory rights (if any) as are, in case the Company is proposed to be or is in the course of being wound up, incapable of being varied or excluded by these Articles.

#### XII. WINDING UP

#### 97. Division and distribution of Assets Upon Dissolution

If the Company is wound up, the liquidator may, with the sanction of a Special Resolution of the Company and any other sanction required by law, divide amongst the members in specie or kind the whole or any part of the assets of the Company (velether they shall consist of property of same kind or not) and may, for such purpose, set such value as he deems fair upon any property to be divided as aforesaid and may-determine how such division shall be carried out as between the members or different classes of members. The liquidator may, with like sanction, yest the whole or any part of such assets in trustees upon such trust for the benefit of the contributors as the liquidator with like sanction, shall think fit; Provided, that, no member shall be compelled to accept any shares or other securities whereon there is any liability.

#### XIII. INDEMNITY

#### 98. Indemnification

Every officer or agent of the Company may be indemnified out of the assets of the Company for any liability incurred by him in defending any proceedings, whether civil or criminal, arising out of his dealings in relation to the affairs of the Company, except those brought by the Company against him, in which judgement is given in his favour or in which he is acquitted, or in connection with any application under Section 488 in which relief is granted him by a court of competent jurisdiction.

#### XIV. ARBITRATION

99. Differences to be Referred to Arbitrator

Every intra-corporate dispute shall, as a condition precedent to any other action at law be referred, in conformity with the Arbitration Act, 1940, as atmended any its implementing rules, to the decision of an arbitrator to be appointed by the parties in dispute or, if they cannot agree upon a single arbitrator to the decision of wo arbitrators of whom one shall be appointed by each of the parties in dispute or, in the event of the two arbitrators not agreeing, then obtain umpire to be appointed by the two arbitrators, in writing, before proceeding on the reference. Such decision and arbitral award shall be final and binding on the parties. Intra-corporate disputes shall include any dispute that may arise between the Company on the one hand and any of the members, their executors, administrators or assigns on the other hand, or between members, their executors, administrators or assigns, relating to these Articles or the statutes, or anything then or thereafter done, executed, omitted or suffered in pursuance of these Articles or of the statutes or any breach or alleged breach, or otherwise relating to these Articles or to any statute affecting the Company or to any of the affairs of the Company.

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We, the several persons whose names and addresses are subscribed below, are desirous of being formed into a company in pursuance of these Articles of Association and we respectively agree to take the number of shares in the capital of the Company set opposite our respective names.

Name and surname (Present and former) in full (in Block Letters)	Father's/ Husband's Name in Full	Nationality	Occupation .	Residential Address in Full	Number of Shares taken by each Subscriber	Signature
L. Ch.Arshad Zaman	Ch.Sher Zaman	Pakistani Pakistani	Wapda Service	75, Babar Block, New Garden Town, Lahore.	1	
2. Mr. Muhammad Qasim Shaikh	Haji Noor Muhammad Shaikh	Pakistani.	ONE Data Service	Bachelor Officers Hostel, Thermal Colony, Nishatabad, Faisalabad.	i	
3. Mr. Muhammad Maqbool Anjum	Ch. Imam Din	Pakistani j	Wapda Service	54-Nishtar Block, Allama Iqbal Town, Lahore.	t	
4. Mr.Mansoor Ali Sheikh	Muhammad Ali Sheikh	Pakistani Pakistani		2-C, Audit Officers Colony, Gulberg- III, Lahore.	1	
5. Mr. Akhtar Pervez Akhtar	Ch.Muhammad Ibrahim	Pakistani	Wapda Service	13, Daood Street No.21, Wasanpura, Lahore.	l	
6. Brig, Saeed Ahmad Rafi	Muhammad Ajaib	Pakistani	Wapda Service	B-33, Upper Mall, Wapda Colony, Lahore.	1	
7. Mr. Noor Elahi Baig	M.Fazal Elahi Baig	Pakistani	Wapda Service	B-2, Shalamar Grid Station, Wapda Colony, Lahore.	l	
Dated the da	y of	199	Total nu	imber of shares taken	7 (Sever	<u>n)</u>

Dated the	day of			
Witness to the above	ve signatures Cei	tified to be true Co	Signature	
(Full Name, Fath	er's/Husband's Nar	ne)	B) Signature	
(in Block Letters	)	eputy Registrar of Companie Company Registrar Office	S Occupation	
		Government of Pa		
		Lähore.	Full Address	
			22	

# NORTHERN POWER GENERATION COMPANY LTD (GENCO-III)



## **COMPANY PROFILE**

As on April 14,2022

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A) General Information

Company Name Northern Power Generation Company

Limited

Registered Office 197-WAPDA House, Lahore

Corporate/Business Office Thermal Power Station, Muzaffargarh.

Province Punjab

Country Pakistan

Phone 0669200165

Fax 0669200166

B) Legal Structure

Type of Enterprise Unlisted Public Company

Company Reg. No. L09667 of 1998-99

Date of Incorporation 15 October 1998

Line Ministry of Energy (Power Division)

Company Business Electric Power Generation

Regulator NEPRA

Generation License No. GL/03/2002 dated01-07-2002

*NTN* 3049717-5

*STRN* 0402271600473

C) Key Management

Chief Executive Officers Mr. Sabeeh Uz Zaman Faruqui

### D) Bankers

United Bank Limited
National Bank of Pakistan
Habib Bank Limited
Askarl Bank
Bank of Punjab
Bank Alfalah
Muslim Commercial Bank
Allied Bank Limited

## E) Auditors & Legal Advisor

**Auditors** 

Riaz Ahmad and Company Chartered Accountants

Legal Advisors

Rasikh Consilium

## F) Ownership, Share Capital & Shareholders Pattern

The Company is 100% owned by the Government of Pakistan.

The authorized capital of the company is Rs: 50,000,000,000 divided into 5,000,000,000 Ordinary shares of Rs. 10 each. In total 50,000 shares have been issued and out of which one share of Rs. 10 each has been issued to seven directors of the company and 49,993 shares issued to WAPDA and subsequently transferred in the name of President Islamic Republic of Pakistan.

## G) Company History & Operations

Pursuant to unbundling of WAPDA, Generation companies and Distribution companies were formed. NPGCL was incorporated on 15th October 1998 and certificate for commencement of business was obtained on 1st March 1999 under section 146(2) of Companies Ordinance 1984.BTA and Supplementary BTA between WAPDA and NPGCL regulating the transfer of assets from WAPDA to NPGCL and the issuance of shares and debt instruments by NPGCL to WAPDA, signed on dated 01.03.1999.National Electric Power Regulatory Authority (NEPRA) granted Generation License on July 01, 2002 pursuant to NEPRA Act 1997, which is valid up to Year 2044.

The principal activities of the Company are to own, operate and maintain Thermal Power Houses. These Power Plants are located atMuzaffargarh, Faisalabad, Lahore and Nandipur. The installed capacity of these individuals power plants as under:

TPS, Muzaffargarh	1350	MW
NGPS Multan	260	MW (Defunct)
MESCO Multan	20	MW (Never Licensed)
GTPS Shahdara Lahore	85	MW (Never Licensed)
SPS Falsalabad	132	MW
GTPS Falsalabad	244	MW
CCPP Nandipur	565.65	MW

### H) Agreements

- Power Purchase Agreement ("PPA") -

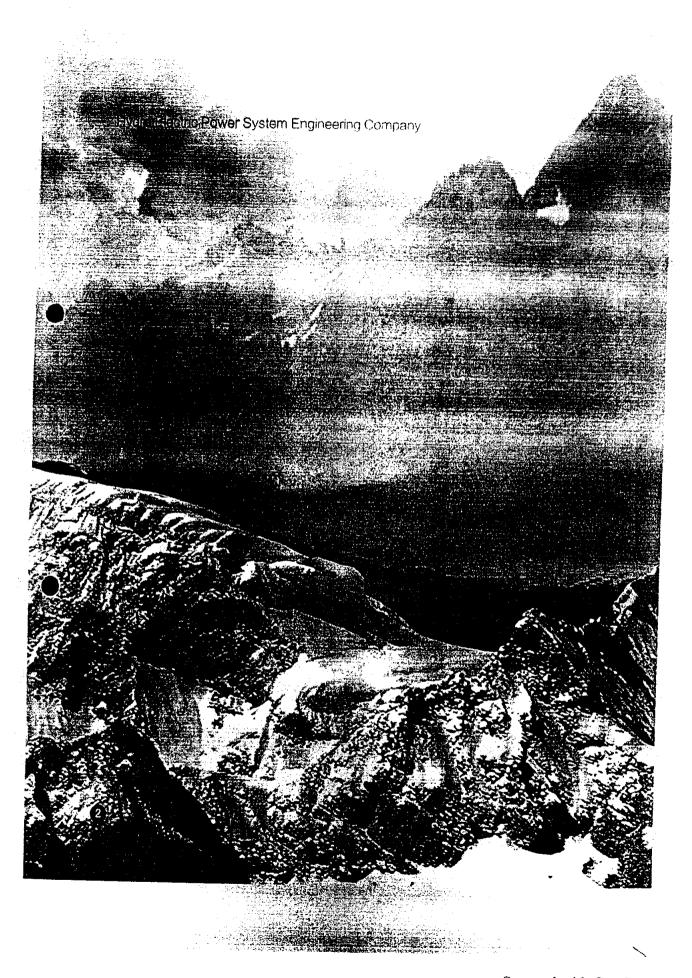
Power Purchase Agreement has been signed in 2015 with CPPA-G.

Gas Supply Agreement ("GSA") –

Interim GSA has been signed for provision of RLNG to TPS Muzaffargarh (200 MMCFD), Nandipur (100 MMCFD) and Faisalabad (28MMCFD) with SNGPL on as and when available basis.

Fuel Supply Agreement ("FSA) -

Furnace Oil Supply agreement has been signed between NPGCL and Pakistan State Oil Company Limited (PSO) on dated 16.09.2009.



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# Content

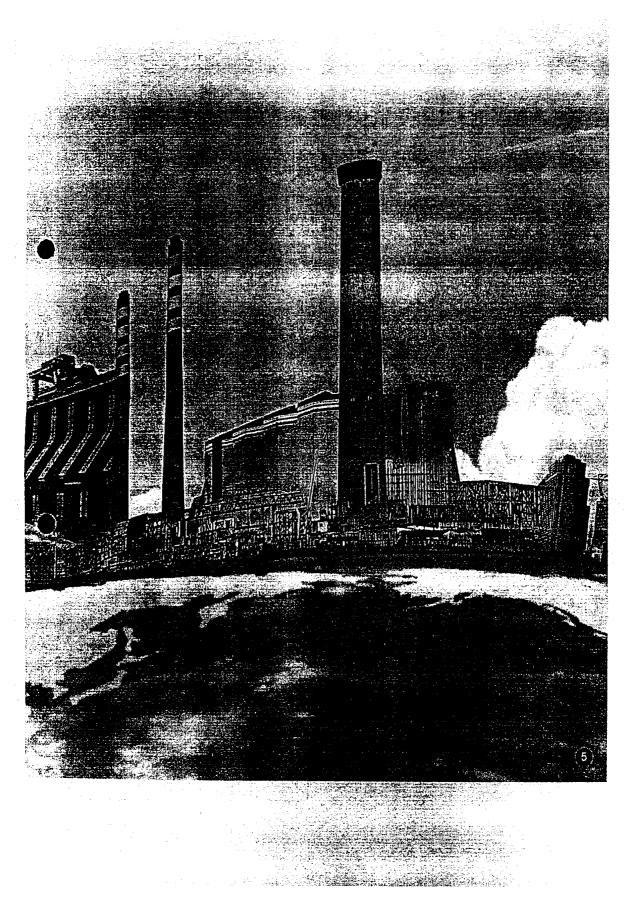
en e e e e		Group Introduction	04/05	
_		Company Introduction	06/07	
		Business Philosophy	08/09	
-8.		Qualifications	10/11	
		Honors and Awards	12/15	
		Distribution of Overseas Projects	16./ 16	•
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		Civil Engineering Projects	18 / 39	
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	in los	Gas Turbino Projects	48 / 51	
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		New Energy:RoweniRrojects	56/57	
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## **Group Introduction**

Power Construction Corporation of China (POWERCHINA) is a mega-scale power construction group approved by the State Council, formed by merging and restructuring Sinohydro Corporation, HydroChina Corporation and 14 provincial (local) survey & design institutions, power construction companies and equipment manufactures under State Grid and China Southern Power Grid, and it is also the only comprehensive construction group covering planning, survey, design, consulting, construction, operation, investment in power and hydropower construction and infrastructure construction.

Main business: general contract of projects, planning, survey, design, installation, science and technology development, construction, consulting, supervision, equipment manufacturing, investment, operation, sales, export, import in power and hydropower construction and infrastructure construction; real estate; logistics; operation of international capital, finance and investment of foreign project, overseas labor dispatch and project contract. It is authorized to take charge of industrial planning, policy research, standard establishment and project investigation of clean energy like hydropower, wind power and solar power and new energy.

By the end of 2012, POWERCHINA's total assets have reached RMB 293.735 billion (USD 47.376 billion) and annual business revenue RMB 201.734 billion (USD 32.537 billion), benefit RMB7.513 billion (USD 1.212 billion). It has business in more than 80 countries and areas in the world. Compared with the overall strength of glidber 500, POWERCHINA is qualified to rank 354, before 15th among the 225.51 billion project contractors and the No. 16th of the world's biggest designing odd with since established in September, 2011, POWERCHINA has practiced the straight "large group, big market and superior brand" and engaged in landing its This button as a global leader capable of providing integrated, comprehensive and complete industrial chain service in infrastructure construction, in renewable energy sectorand water resources construction and as a world top quality-benefit comprehensive construction group with key technology, globally well-known brands, and strong international competitiveness.

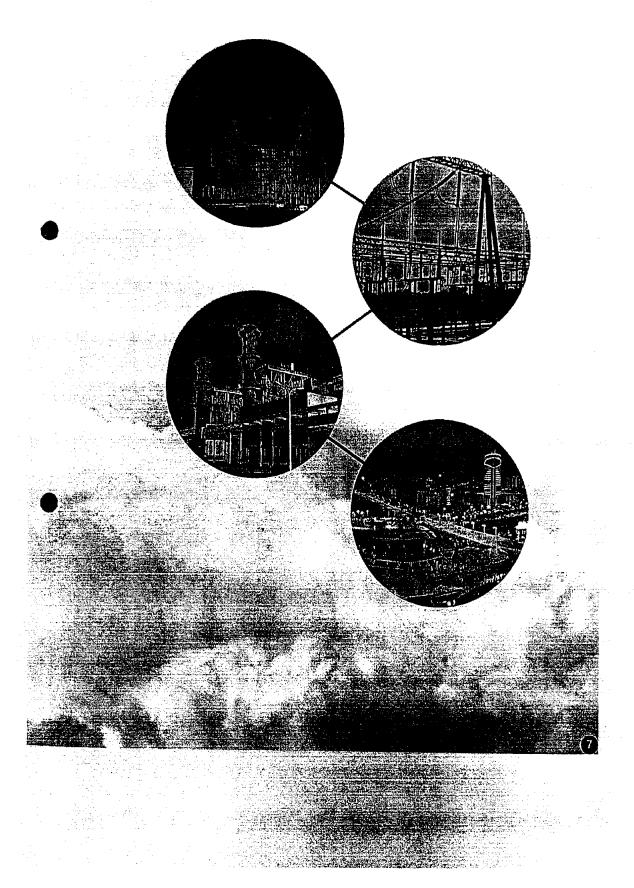


## **Company Introduction**

Hydro Electric Power System Engineering Company (simplified as HEPSEC for short thereinafter), established in April 1959, which is an electric power construction enterprise with the first-rate qualification of general contract certificated by national Ministry of Construction. HEPSEC specializes in the construction, installation and unit commissioning of foreign and domestic large-scale thermal power plant and is also involved in roads, bridges, civil & public buildings, and urban complex. For the last 57 years, the developments of HEPSEC have spread to more than ten cities and provinces in China and more than ten countries in Asia, Africa, Europe and South America. At present there are 15 projects under construction in Vietnam, Laos, Bangladesh, Indonesia, Turkey, Pakistan, Venezuela and Timor-Leste, etc.

HEPSEC possesses the qualification of dealing foreign businesses and contacting projects. A-level foreign aid construction projects by commerce ministry, and has National First Level Installation, Reformation, Repair and Maintenance License of Special Equipment (Boiler), Installation license of Penstock Manifold, First Level Metal Lab Qualification, Second Level Commissioning Qualification of Thermal Power Engineering and First Level Welding Training and Examination Center certified by Quality and Technical Supervision and Power Industry. It has passed ISO9000 Quality Management System Certification in 1997, OHSMS18001 Occupational Health and Safety Management System Certification and ISO14001 Environmental Management System Certification in 2002.

HEPSEC is willing to cooperate with partners home and abroad, share the opportunities, meet the challenges jointly and pursuit mutual development.



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## **Business Philosophy**

#### Basic values

We perceive world outlook, methodology, core values, tasks, spirit and management purposes as our basic values, clearly showing our strong sense of responsibility, quick responses, mutual benefits and harmony. It indicates our basic behavior rules and judgment of values to countries, clients, partners, employees, and societies.

These basic values are the soul of our cultures, the source and power of our existence and development.

#### World outlook

To keep pace with the times; complex theory appears simple; the honest win trust and integration produces benefits.

#### Methodology

To make overall plans and develop, plan scientifically, reorganize resources and gain mutual benefit.

#### Core values

Talented people are our foundation; innovation is the spirit; clients are respectable and brand is the soul.

#### Missions

To construct high-quality energy for the world and to establish stages for the staff.

#### Spirit

8

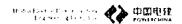
To be harmonious, realistic, creative and progressive.

#### Management aim

Create together and possess together.

#### Scientific development strategies

It is our foundation that we should uphold strategies of "safety, good quality,



famous brand and talented people", develop domestic and foreign market, in order to undertake high-quality projects.

#### Strategie objective

To be a "top international, aggregative and professional electric power project service supplier".

#### Strategic method

To persuade clients with good quality, to satisfy clients with excellent appearance, to create first-class brand and to achieve long-term development.

#### Strategic focus

To build inner safety and to ensure a safe and stable production situation is our eternal mission and the foundation of sustainable development.

#### Strategic guarantee

Talents are the base. Talents shall be cultivated, in order to organize high-quality teams which will be the source of power promoting the development of the company.

#### Staff behavior code

The characteristics of our staff are progress originates from royal responsibility; respectful reward originates from cooperation and mutual benefit and being grateful for the career originates from happy sharing. It is our belief that high quality originates from high level of specialization and high level of specialization originates from high concentration.

#### Staff code

To obey laws and regulations, honor respect and abandon humiliation and be civilized staff.

To show our loyalty to HEPSEC, devote to the society and create a famous brand of electric construction.

To Love our jobs, completely obey the regulations and fulfill our duties.

To unite and cooperate, work hard and dare to create and innovate.

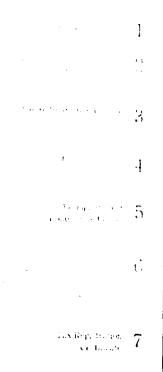
To be human-oriented, to fulfill responsibilities and to ensure safety.

To carry forward our philosophy, keep promise and improve services.

To economize, manage in details and improve efficiency and benefit.

To make progress, pursue excellence and be a prominent company.

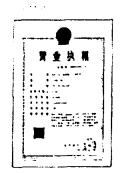
## Qualifications



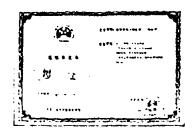
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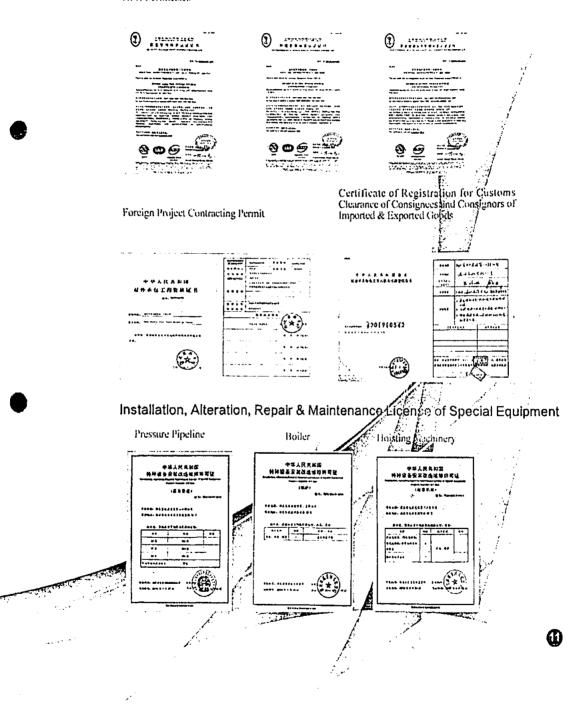
Qualification Certificate



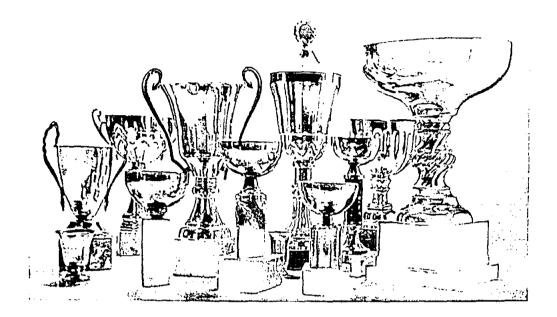
Safety Production License.



#### **HSE Certificates**



#### **Honors and Awards**



No.	Project
18().	CIOIMIN

- Huaneng Haimen 2×1000MW ultra-supercritical power plant project
- 2 Huaneng Rizhao 2×680MW super critical power plant project
- 3 Fujian Shishi Hongshan 2×600MW supercritical thermal power plant project
- 4 Ningde nuclear power station 220KV substation project
- 5 HEPSEC Qianhuzhiyi QC Team of Xisaishan Project
- 6 Guodian Changyuan Jingmen Power Generation Co., Ltd. 2×600MW Project

#### Award

- 2010 National Gold Award for Project Quality 2010 National Award for Power Project Quality
- 2010 National Award for Power Project Quality 2010 National Silver Award for Power Project Quality
- 2011-2012 National Silver Award for Project Quality 2012 National Award for Power Project Quality
- 2009 Relay Protection Device 100% Correct Operation Rate
- 2010 First Award of Best Quality Control (QC) Team of National Construction Project
- High-quality and Focus of Attraction Project and Technology Innovation Project in 2006

# Huaneng Halmen 2 × 1000MW ultra-supercritical power plant project



2010 National Gold Award for Project Quality Power Project Quality



2010 National Award for

## Fujian Shishi Hongshan 2×600MW supercritical thermal power plant project

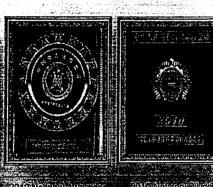


2011-2012 National Silver Award for Project Quality



2012 National Award for Power Project Quality

## Huaneng Rizhao 2×680MW super critical power plant project







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No.	Year	Title & Honor	Note
1	2012	Hubel Advanced Province Establishemnt undertaking Expatriate Labor Work	Awarded by Department of Commerce of Hubei Province
2	2011	2011 Advanced Establishment Compiling Financial Statement	Awarded by PowerChina
3	2011	2011 China Excellent Enterprise Undertaking Foreign Construction	Awarded by China Constration Enterprise Federation
4	2010	2010 China Top 100 Building Construction Enterprise	Awarded by Chinese Construction Enterprises Federation and Chinese Institute of Architecture and Technology and Quality
5	2010	"Comply with contract, Attention to Credit" Company	Awarded by Hubei Administration For Industry & Commerce and Hubei Enterprise Credit Development & Improvement Association
6	2010	Safe Production Advanced Establishment	Awarded by State Grid Hubei Electric Power Compnay
7	2009	The Initial National International Quality and Credit Level of AAAAA	Awarded by China Production Quality Association
8	2009	China Top 100 Innovative Companies of Project Management (PM)	China Enterprise Innovation Management Assessment Center and China Academy of Management Science
9	2009 2011	Advanced Establishment, No Misoperation Accident and No Casualties Establishment	Awarded by State Grid Hubei Electric Power Compnay



2010 China Top 100 Building Construction Enterprise



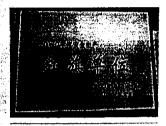
Hubei Province Advanced Establishment undertaking Expatriate Labor Work



"Comply with contract, Attention to credit" Company



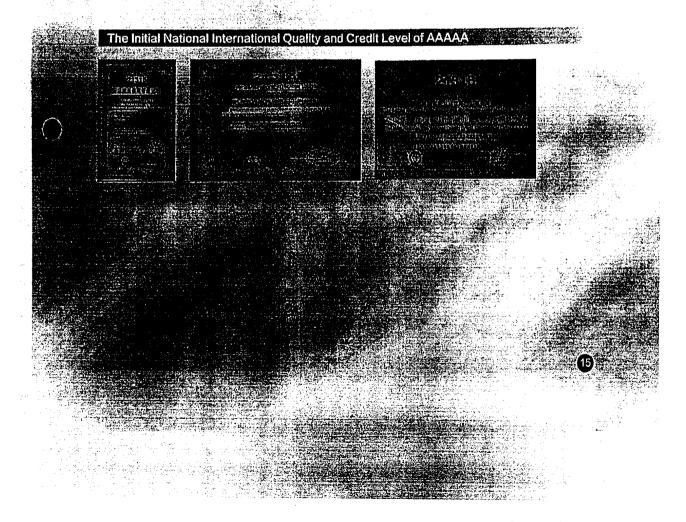
2011 China Excellent Enterprise Undertaking Foreign & All Construction



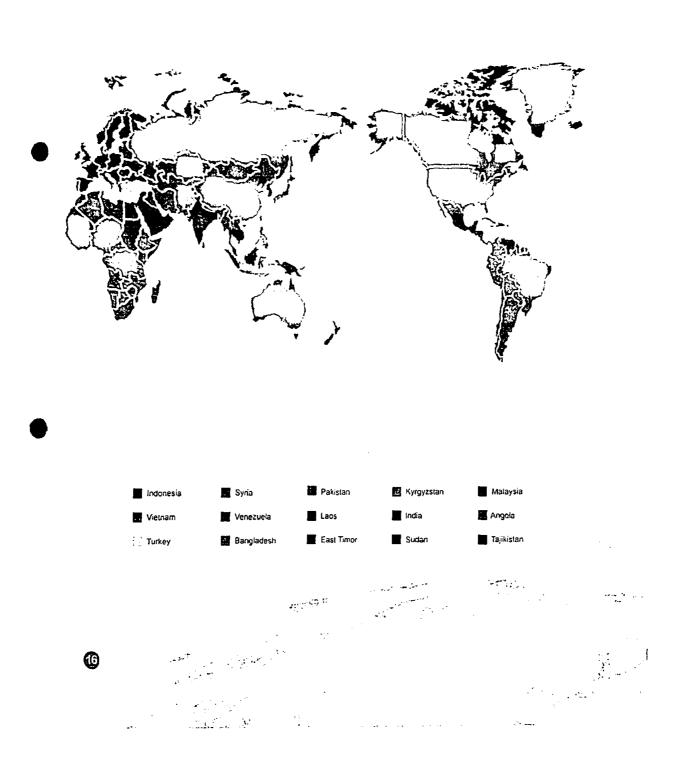
Safe Production Advanced Establishment



China Top 100 Innovative Companies of Project Management (PM)



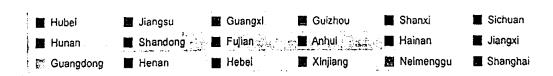
# Distribution of Overseas Projects





## Distribution of Domestic Projects

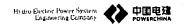




#### **Civil Engineering Projects**

Hydro Electric Power System Engineering Company Infrastructure and Construction Branch (hereinafter referred to as Infrastructure and Construction Branch) was established in February 2009. The company possesses the qualifications of class I general contracting of power construction of State Ministry of Construction and upgraded class I general contracting of power general contracting of public works and housing construction.

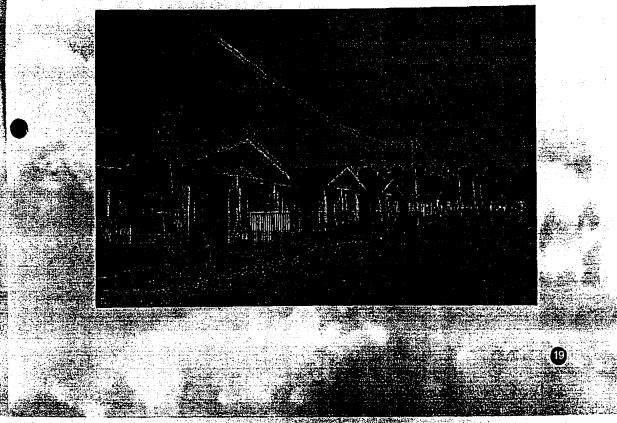
blashment, the Infrastructure and Construction Branch and knowledge-oriented strategy of staffs. The echonical staffs with college education account for overthe company has 80 staffs including 14 constructors as a constructors of electromechanical Spiritaging . Asserts and the Managara and Managara and American Company of the Powering "Poster Foundated 56 

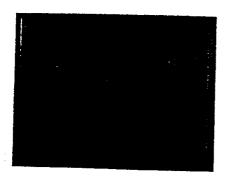


#### Public & Civil Buildings

HEPSEC has won the tender of FELDA project in Malaysia on Jan 6th of 2014. The working scope includes 300 sets of single row houses, the main construction area is about 27881 ml (including main building, outdoor greening and pipeline).



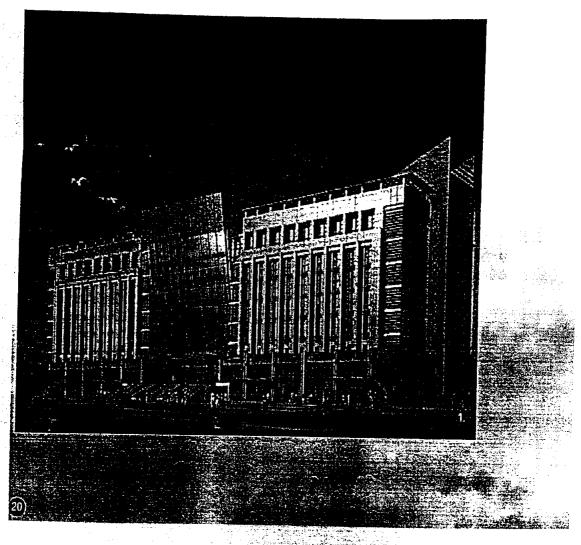




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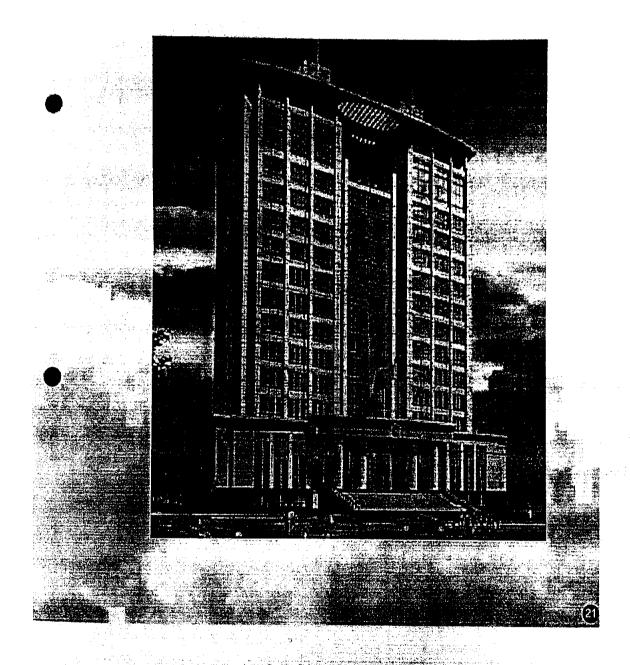




#### (i) Caidian Procuratorate

Within Construction Satisfy, party, against the construction of th

Frame: 14 Javers Proportion: 8827 nf



No contract to

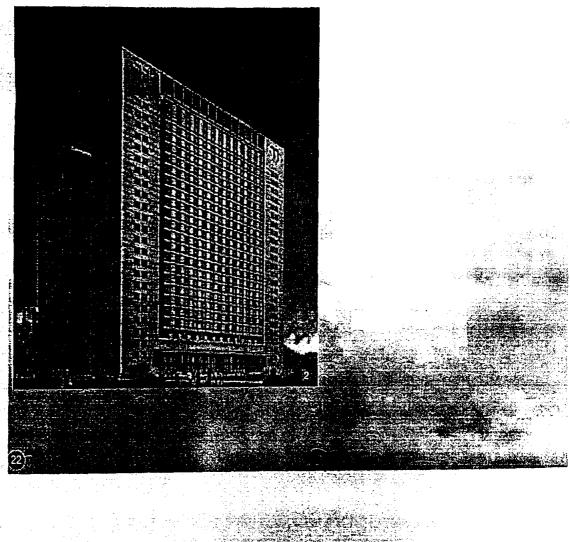
4° Agriculture Bank of China Jingzhou Branch Office Building

Framework: 23 layers Proportion: 5992.5 m

2 Gynaecology and Obstetrics Building of Hubei Maternal and Child Care Service Center

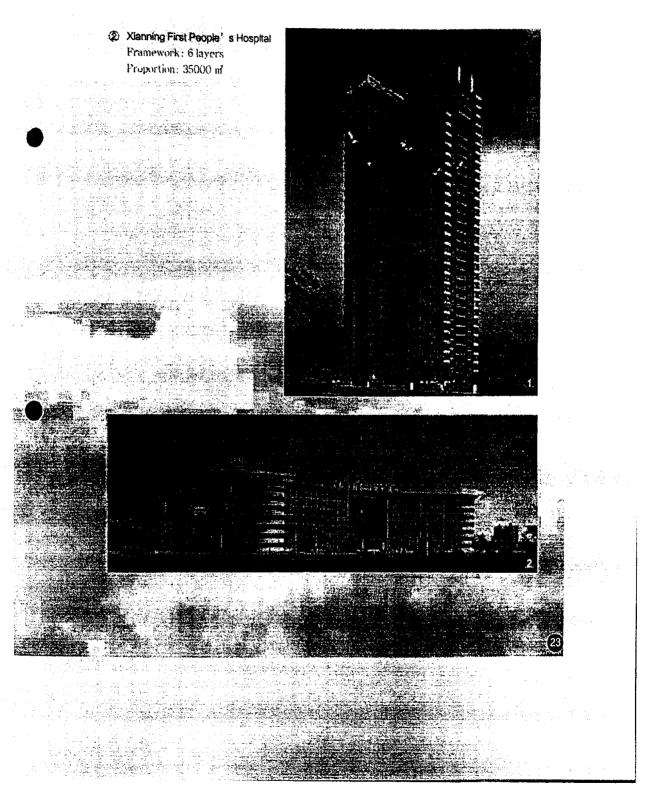
Framework: 26 layers Proportion: 72000 m



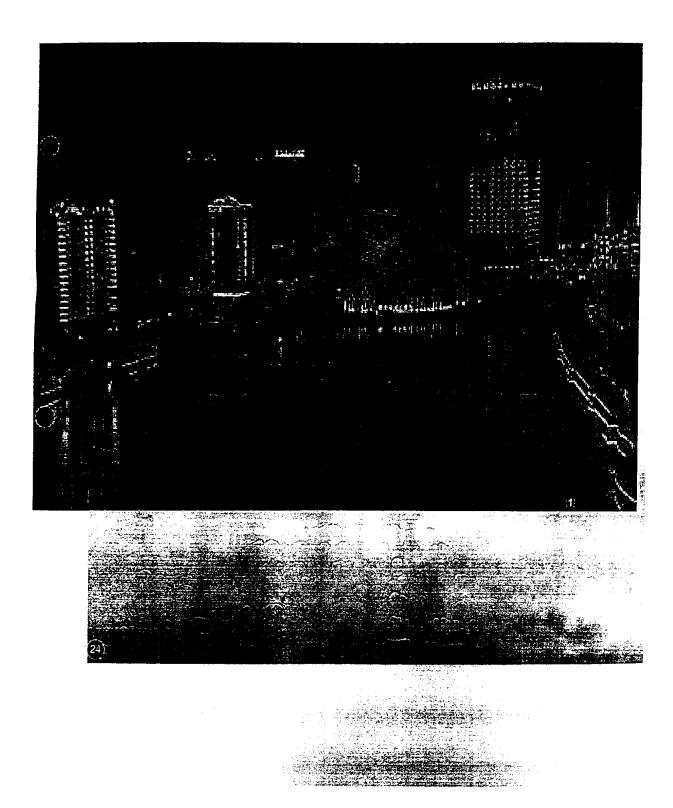




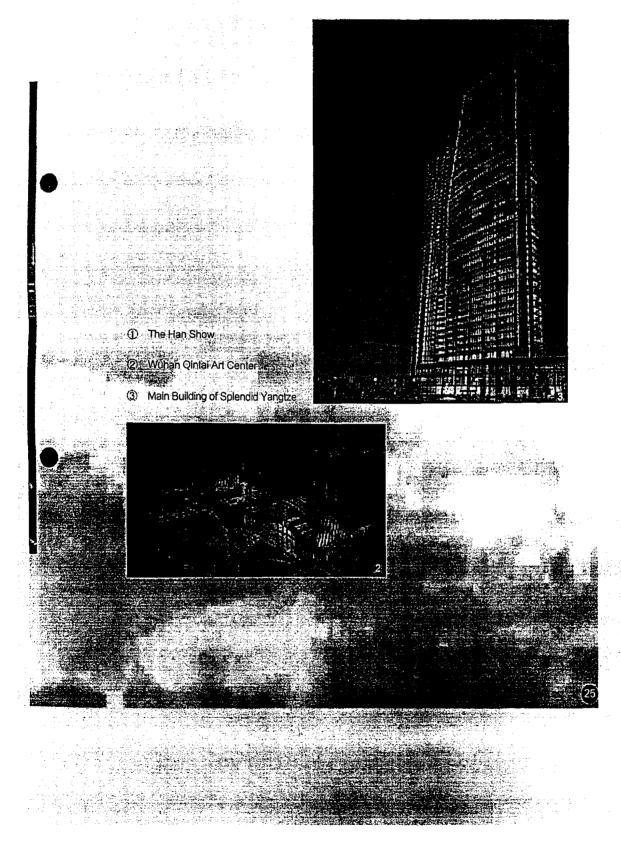
3 Guangzhou Military Region Air Force Nursing Home Building in Wuhan Framework: 32 layers



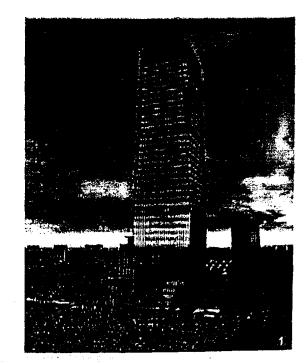
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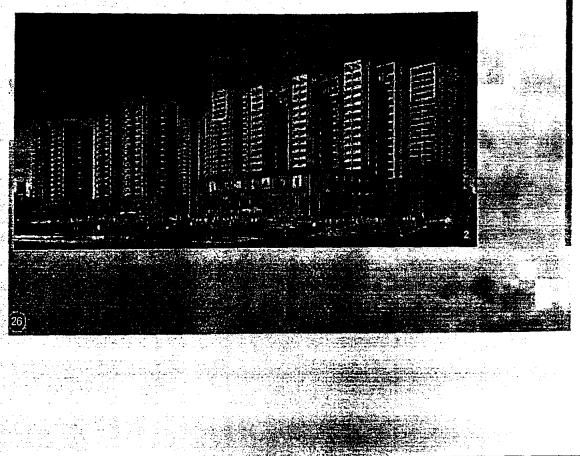
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① Shenzhen Kerry Plaza Phase II

Chenglan Garden Economically
 Affordable Housing

Prame: 23 layers Proportion: 42351 nf

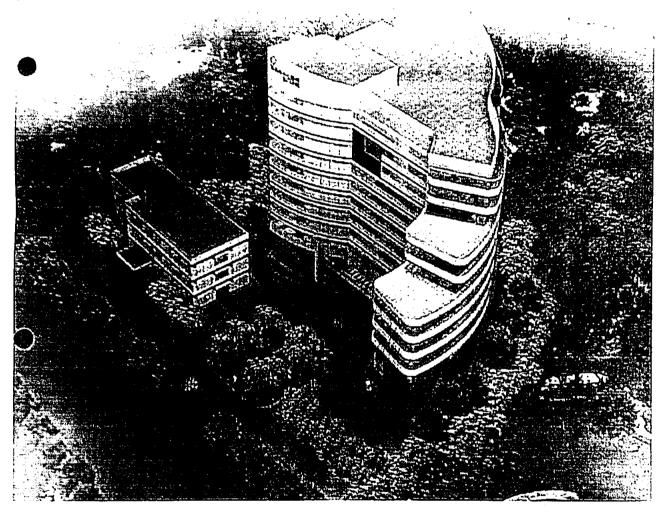


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(12) Enshi Central Hospital The East Branch

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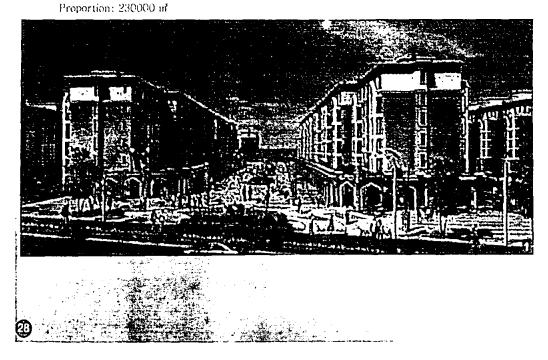


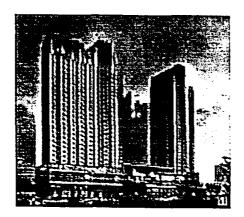
Parkens and the second

#### **Urban Complex**

With the urbanization boosting, HEPSEC has participated into lots of Urban Complex Projects, which includes Commercial Retails, Business Offices, Hotel Catering, Apartments and Entertainment Resorts. The typical projects are the 12th Five-year Plan of Wuhan Government-Supporting Xinjiang "Happy Homeland" Project, New Optical Valley CBD - Rongzhong International and the First Low Carbon Demonstration Area in Central China-Huabin Jinggui Lake Low Carbon Demonstration Area. All the projects have been completed in schedule and with good quality, and are highly appraised by the clients.

(1) The 12th Five-year Plan of Wuhan Government- Supporting Xinjiang "Happy Homeland" Project Brick Framework Structure









f. Future City Framework: 32 layers Proportion: 110000 nf

② XinAo · City Impression Project

3 Optical Valley Central Garden Bramework: 27 layers Proportion: 720000 nf

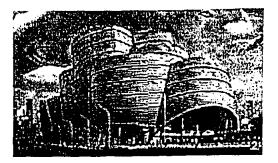
(1) Oceanwide City Square Proportion: 660000 nf

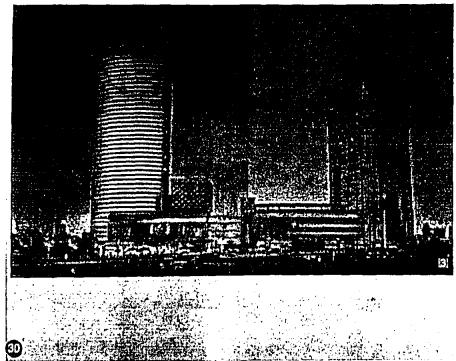
2: Wanda Wuhan Movie Park

(3 Rongzhong International

Height: 168m Overground Proportion: 59995.7 af

Total Proportion: 77552 of

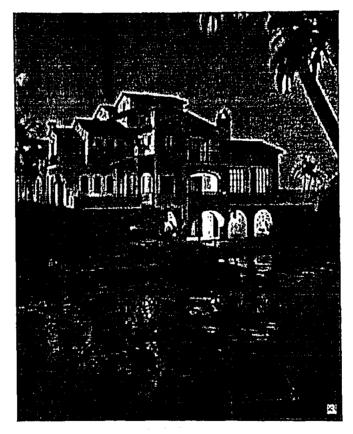




 $(1,\ldots,2)=3$  — Health Jingoid aked nw Cadixin Demonstration Area.

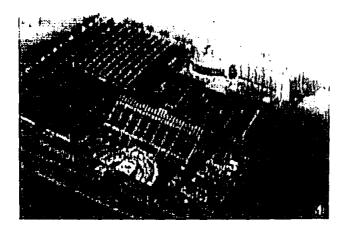




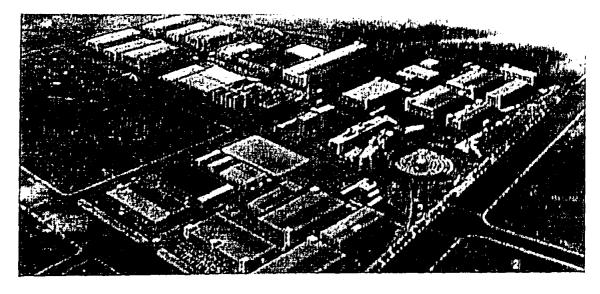


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## Industrial Buildings

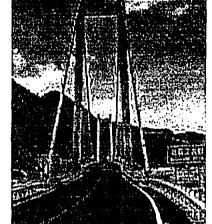


- (1) Prixing for fundingly Physicsyollabol Industry Park
- (2) Oblina Floction Control Floction Individual Park Steel Structure Plant Promoveric Strivers Proportion 25733 of

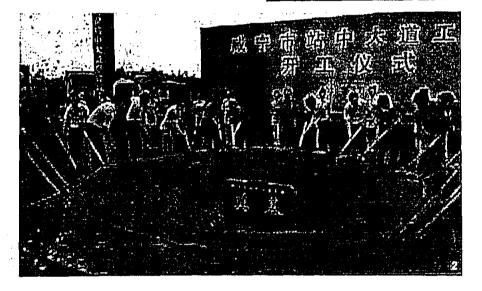


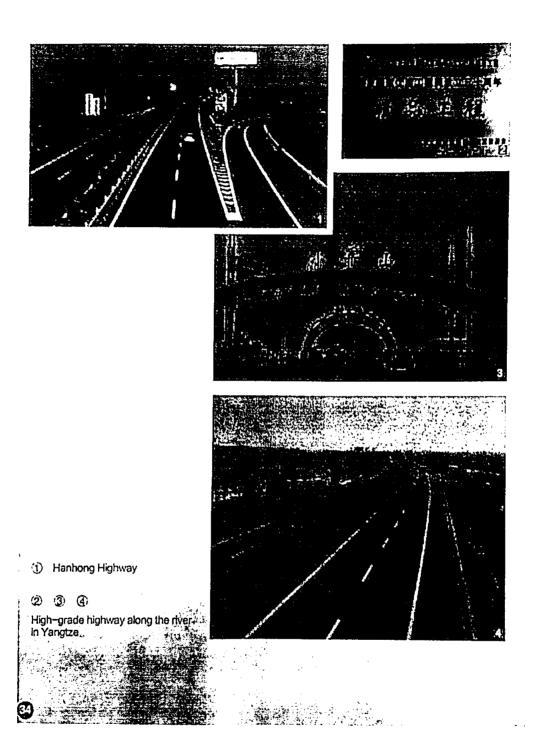
#### **Municipal Engineering Projects**

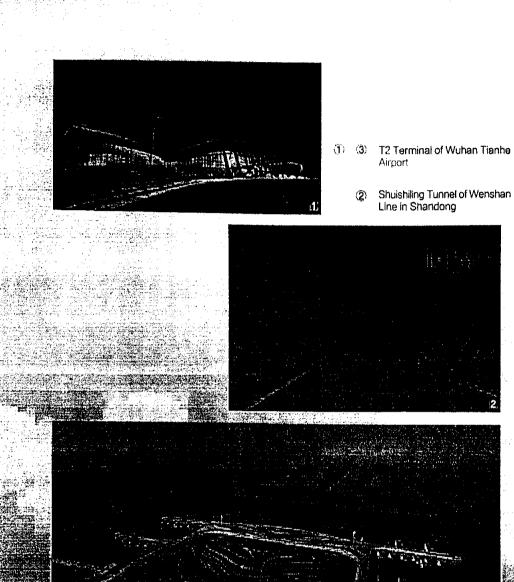
HEPSEC has completed a number of municipal engineering roads and bridges projects including Xianning Zhanzhong Road, Beipanjiang Bridge in Suzhou, Hanhong Highway, High-grade highway along the rivier in Yangzhou, T2 Terminal of Wuhan Tianhe Airport, Shuishiling Tunnel of Wenshan Line in Shandong, etc.

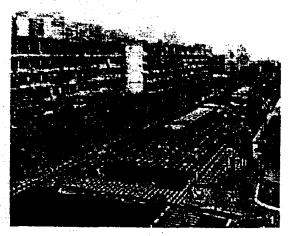


- (1) Beipanjiang Bridge in Guizhou
- (2) Xianning Zhanzhong Road

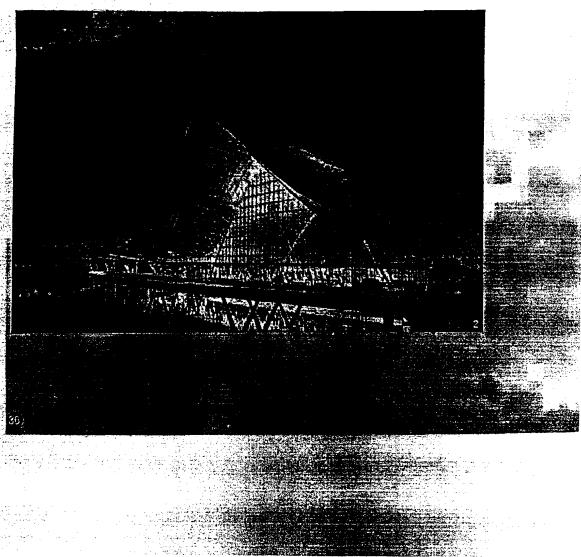




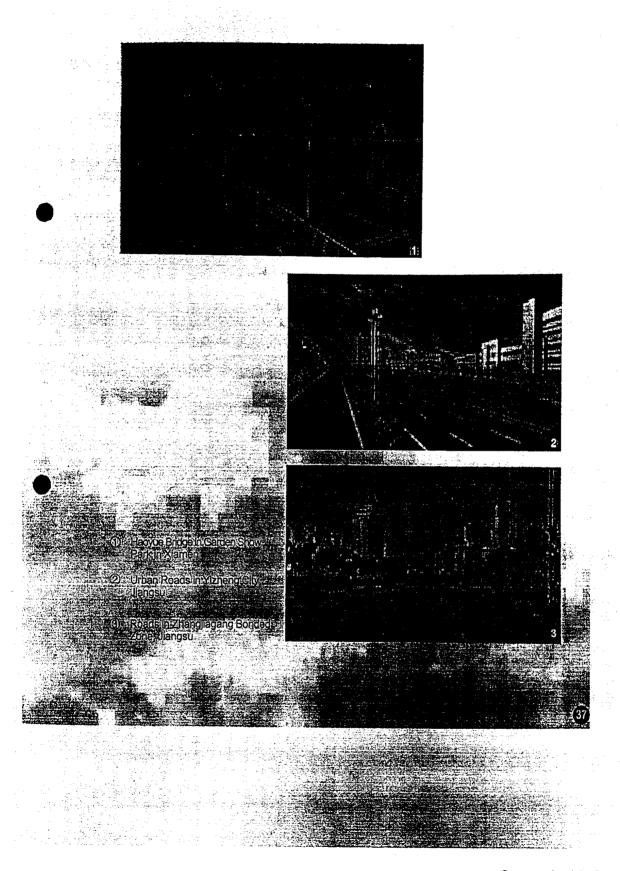




- 1: Yichang Dongshan Road BRT Project
- 2 Wuhan Railway Station

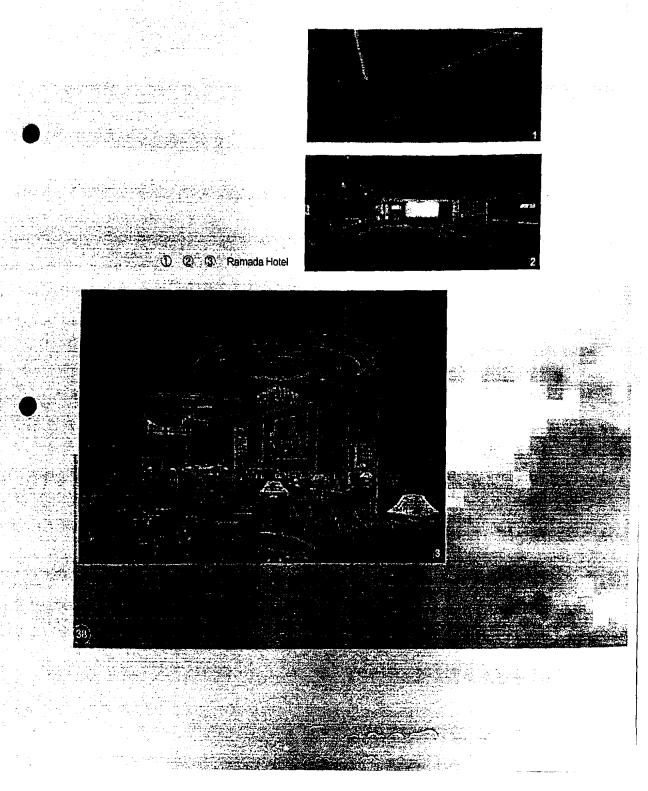


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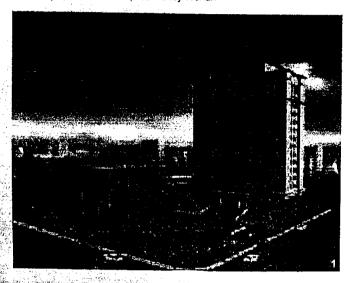
## **Decorative Design and Construction Project**



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- Wuhan Federation of Trade Reconstruction Project
- (2) Royal Grace Hotel Optical Valley Wuhan





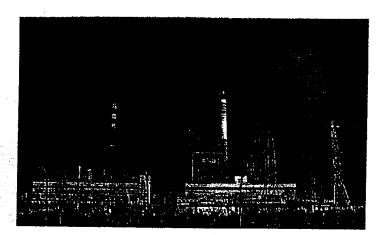
# Thermal Power Projects



No.	Domestic Project	Construction Scale	Completion Date
1	Jiangsu Linggu Chemical Co. Ltd. power plant technical innovation Phase II	2×260(T/H)	2009
2	Zhangzhou thermat power plant expansion project civil work and installation work	1×670t/h+1×150MW	2012
3	Guangdong Nanhai first power plant	2×200MW	2009
٤	China Power Investment Corporation Henan Nanyang thermal power plant	2×210MW	2008
5	Guangdong Foshan Nanhai power plant	1×300MW	2009
ć	China Resources Caofeidian power plant	2×300MW	2008
7	Ydu Dongyangguang Industry Development Corporation power plant	2×300MW CFB	2010
8	Qingshan power plant combined heat and power project	2×350MW (ultra-supercritical)	2011
9	China Resources Yichang Xiaoting combined heat and power main body installation project	2×350MW	2014
:0	Changzhou consumer waste burning power plant construction project	2×400vd+1×15MW	2008
11	China Huadian Guizhou Toubu power plant	2×490T/FB+2×150MW	2009
12	Hubei Ezhou power plant	2×600MW	2009
13	Huaneng Hunan Yueyang Power Generation Co., Ltd phase III expansion project	2×600MW	2011
14	Fujian Shishi Hongshan thermal supercritical power plant	2×600MW (supercritical)	2010
15	Huadian Anhui Wuhu power plant	2×660MW (ultra-supercritical)	2008
16	Tenglong Fangling (Zhangzhou) Co., Ltd. thermal power plant expansion project	1×670vh+1×150MW	2013
17	Huaneng Rizhao power plant phase II expansion project	2×670MW	2008
13	Guangxi Jingui Paper Corporation power plant general contract project	2×670T/H+2×150MW	2010

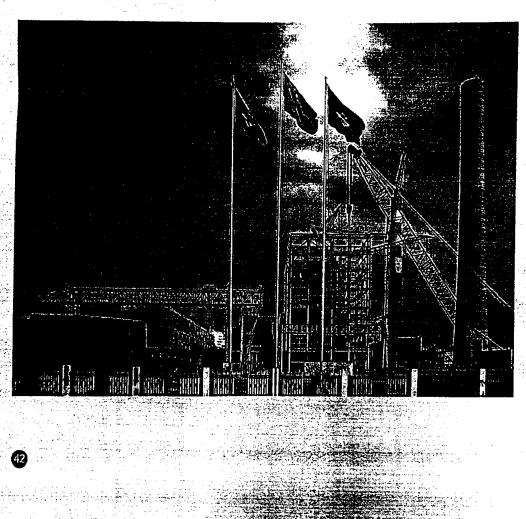


19	Huadian Huangshi Xisaishan power plant phase II project	2×680MW	2010	
20	Huaneng Haimen power plant	2×1000MW (ultra-supercritical)	2009	
21	Puqi power plant phase II ultra-supercritical coal-fired power generation unit project	2×1000MW (ultra-supercritical)	2013	
22	Xinjiang Zhongtai Chemical (Group) Co., Ltd. one million tons/year calcium carbide project power plant	4×150MW	2012	
23	Xinjiang China Datang Hutubi thermal power plant main body construction project	2×300MW	2013	
24	Xinjiang Hefeng project	2×300MW	2011	
25	Xinjiang TBEA silicon power plant project	2×350MW	2012	
- 26	Shandong Xinfa Group Xinjiang coal-fired power Co., Ltd. project	2×1100MW	2013	
27	Shenhua Guoneng Energy Group Corporation Limited Hami 4×660MW supercritical power plant Unit3 and 4 civil work and installation general contracting project	4×600MW	2015	
28	Zhongtai Chemical (Group) Co., Ltd. Tuokexun one million tons/year calcium carbide production auxiliary 600MW power plant project	2×330MW	2015	•
29	Huaneng Yingcheng combined heat and power plant	150MW+1×350MW	2014	. :
30	Xinjiang Guoxin Zhundong Coal-fired power plant (Lot B) Civil work and Installation project	2×660MW	2016	
31	Hubei Energy Group Ezhou power plant III ultra-supercritical coal-fired unit extension project	2×1050MW	2017	
32	Hubei Huadian Jiangling power station phase I ultra—supercritical coal-fired project	2×660MW	2017	7
33	Tianchi Energy Changji thermal power plant main body construction project	2×350MW	2017	
34	Xinjiang Lu'an Zhundong power plant	2×660MW	2017	
35	Jiangxi Fengcheng power plant phase till extension project	2×1000MW	2018	
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- f) Huaneng Hunan Yueyang Power Generation Co., Ltd phase III (2×600MW) expansion project.
- (2) Hubei Ezhou power plant (2×600 MW), put into operation in 2009.



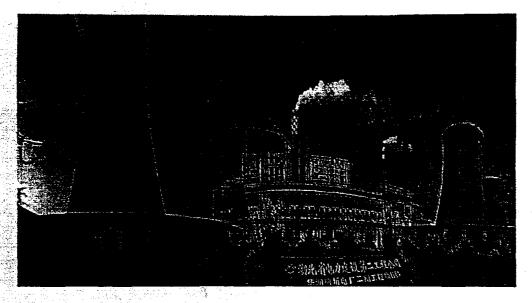


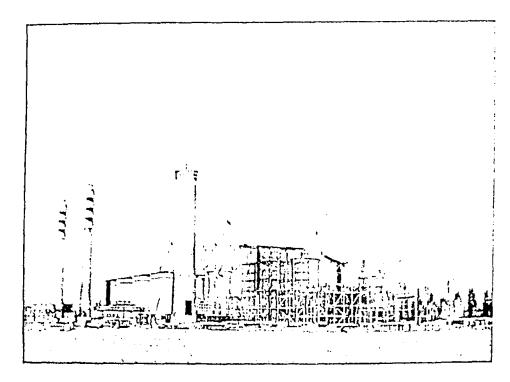
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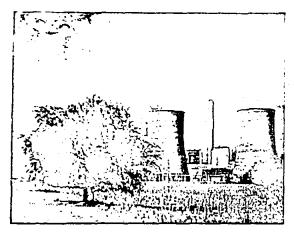
- 2. The today R. Share proved plant phase II 12 of MNN sexpension project put into operation in 2000.
- 3 Psy power plan phased (2x10mMM) often-superentical enal-fixed power generalism unit policytypia into operation in 2011











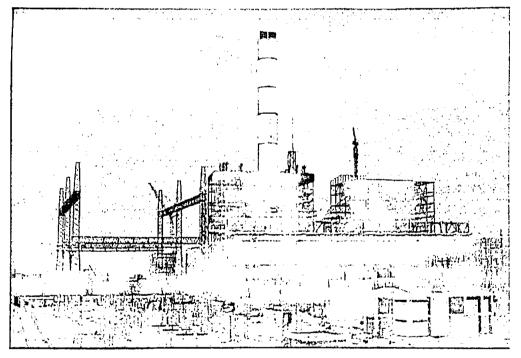
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- ① Shandong Xinfa Group Xinjiang coal-fired power Co., Ltd. Project (2×1100MW).
- (2) Xinjiang China Datang Hutubi thermal power plant (2×300MW) main body construction project put into operation in 2013.

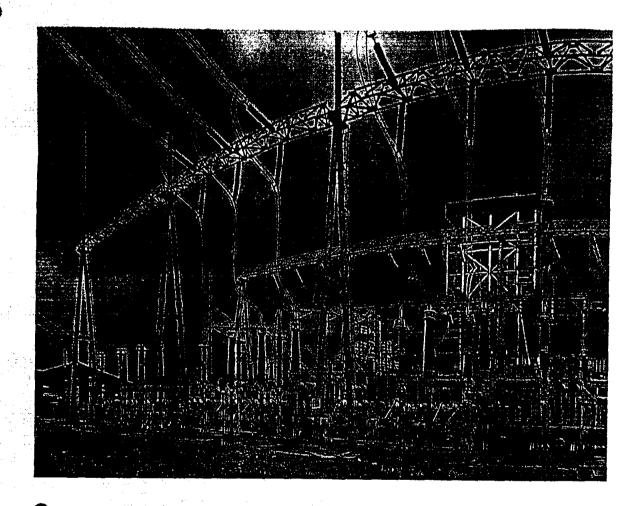


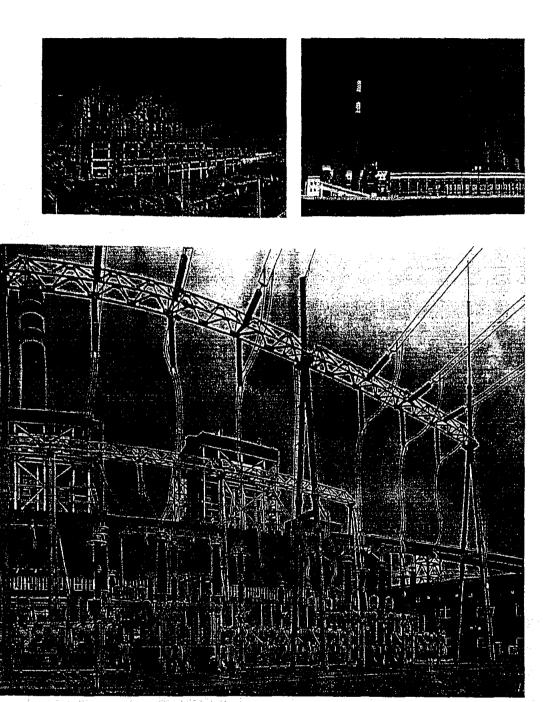
No.	Overseas Project	Construction Scale	Completion Date
1	Syria Aleppo cement factory power plant project	2×30MW	2010
2	Sudan Al-Fula power plant project	3×135MW	2011
3	Indonesia BATAM TJK coal-fired power plant project	2×65MW	2012
4	Indonesia Bahari units project	2×30MW	2012
5	Indonesia Java Pacitan power plant units project	2×315MW	2012
6	indonesia Sulawesi coal fired power plant installation and test project	2×220T/H CFB+2×50MW	2012
7	Indonesia Awar project	2×350MW	2013
8	Indonesia Pelabuhan Ratu 3×350MW coal-fired power plant project	3×350MW	2013
9	Turkey ATLAS supercritical units project	(1+1)×600MW	2014
10	Vietnam Vinh Tan thermal power plant project	2×622MW	2014
11	Pakistan Fatima bagasse coal-fired power plant project	2×60MW	2016
12	Indonesia Sulawesi Nickel iron industrial park power plant project	6×65MW	2018
13	Tajikistan Duschanbe power plant project	2×150MW	2016
14	Indonesia Pangkalan Susu coal-fired power plant	2×200MW	2017



Vietnam Vinh Tan thermal power plant project (2×622MW) .

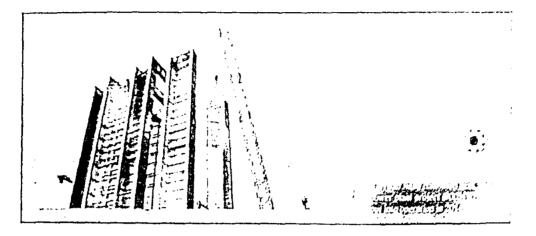
- (1) Indonesia Pelahuhan Ratu 35 SMMW coal-freed power plant people (435 VOMW), put into operation in 2013.
- 2: Indonesia Salawesi (oal fleed procet plant installation and test project (2°2201/1101B) (2°50MW), put into operation in 2012
- $\mathfrak{F}_{\rm SM}$  Symmetric control for the constraint project of SWMM pair intercept and a maximum of the



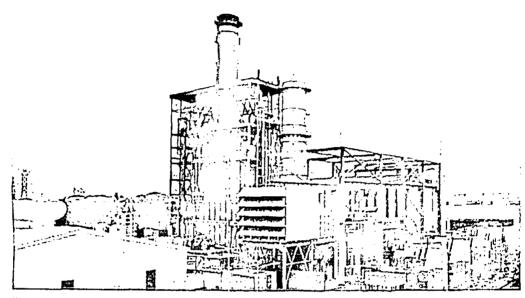


# Gas Turbine Projects





NO.	Domestic Power Plant	Capacity	Completion Date
1	Huadian Wuchang Thermal Power Plant reconstruction and extension project (natural gas as fuel)	1×185MV/	2015
2	WISCO CCPP gas turbine installation project (single cycle)	2×1251/V/	2010
3	Taiyuan Jiajie combined heat and power plant project	2×298MVV+1×264MVV	2014
4	Shenzhen Nantian from oil-fired to gas-fired level E Unit2 installation power plant	258MW 1+1+1 combined cycle	2014
5	Shenzhen Meishi gas turbine power plant project	180MW	2007
6	Huadian Wuchang Thermal Power Ltd. Co. gas turbine project	1×185MV/	2007
7	Shenzhen Nanshan Thermal Power Plant Phase I & Phase II project	3×24.8MW+1×36MV/	1991
8	Fuzhou Mingda Gas Turbine Power Plant	2×24.8MW+1×36MV/	1994
9	Zhongshan Nanlang Gas Turbine Power Plant	2×180MW	2005
10	Guangdong Foshan Funeng Gas Turbine Power Plant	2×180/AW/	2005
11	Wuhan Zhuankou Gas Turbine Regulating Power Plant	1×123MW+1×56MW	1997
12	Guangdong Dongguan Tongming Gas Turbine Power Plant	2×1801/W	2005
13	Hubei Nengyuan Donghu Gas Turbine thermal power Co.LTD 2×9E Gas Turbine Cogeneration project	2×185MW	2016



Henoul Charelpar 150 MV, similard or de pawer plant ( $1 imes 120 \mathrm{MW}$  -  $1 imes 60 \mathrm{MW}$ ), put into operation in 2012

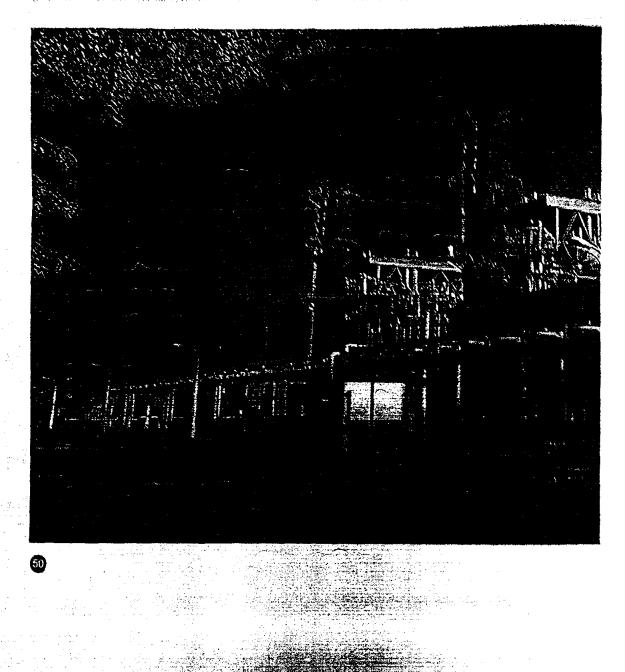
NO.	Overseas Power Plant	Capacity	Completion Date
1	Pakistan SAIF power plant project (combined cycle)	2×76MW+1×60MW 2 gas turbines and 1 turbine generator	2010
2	Pakistan Nandipur gas turbine project (combined cycle)	3×120MW+1×200MW 3 gas turbines and 1 turbine generator	2014
3	Bengal Chandpur 150MW combined cycle power plant	1×120MW+1×60MW	2012
4	Venezuela new center gas turbine power plant	4×192 MW	2013
5	Malaysia TNB Connaught Bridge gas turbine project	380MW	2015
6	Venezuela BATALLA DE SANTA ILES Refinery power plant project	6×100MW	2016
7	Turkey Kazan power plant project (combined cycle)	400MW	2017



Pakistan Naddipar gas airbûn proves etroboses es a ES PANIM (1920/MM) (par massyssalas) (1977).

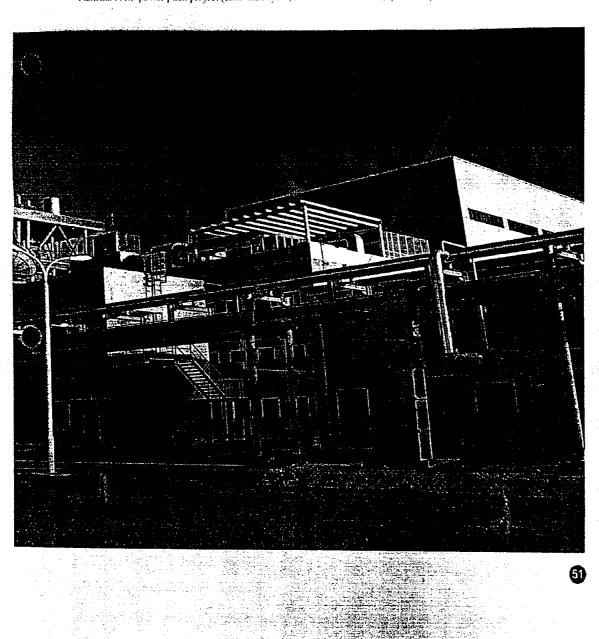


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Pakistan SAIF power plant project (combined cycle) (2×76MW+1-60MW), put into operation in 2010



# Power Grid Projects

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5013	China Marcoral Petroleum Corporation LMG plant 110kV substation project	۶ı
2013	Three Gorges New Energy Lichnan Mingying wind power plant 110kV transmission and transformation project	٤١
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2012	topion note moternation not seine neur VIII in in Humbling greepil.	SI
3015	China RescursesMew Energy, Lianzhou 2/49,88MV mind power plant construction and electric equipment installation project of 149AV booster station	11
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2015	Nuban Heavey Industry Casting & Felging Co., LTD 2206W transmission and transformation project	71
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2010	China deascoura Pome. Ho tai Guanatico mort romer plant foundation, platform, coad, costa automores et Acades station project.	١
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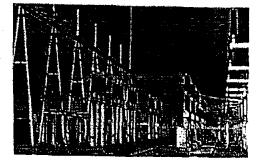
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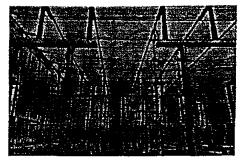
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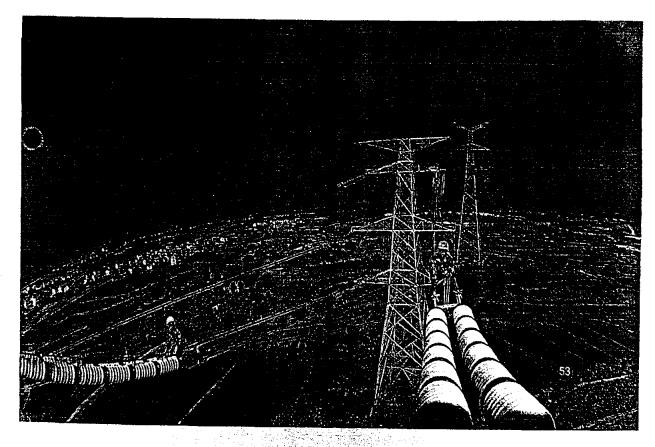


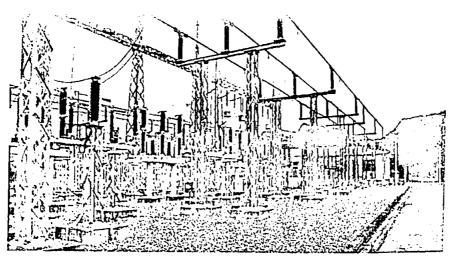


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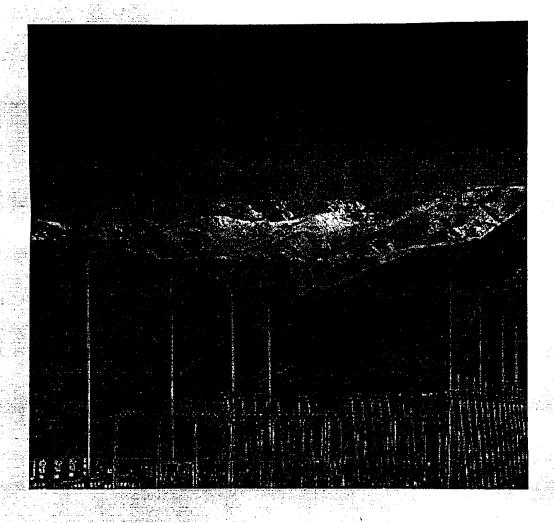
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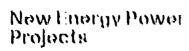
Laos northern rural electrification project, put into operation in 2012

No.	Overseas Project	Completion Date
1	Laos 110kV transformer substation project civil work and installation work	2009
2	East Timor State Grid LIQUICA 150kV transformer substation	2011
3	East Timor State Grid Lospalos 150kv transformer substation	2011
4	East Timor State Grid Baucau 150ky transformer substation	2011
5	East Timor State Grid Maliana150kv transformer substation	2011
ó	East Timor State Grid ASUAI 150kv transformer substation	2012
7	Laos northern rural electrification project	2012
8	Laos Houay Lamphan Gnai Hydropower station 115kV transmission and transformation project	2013
9	Laos Nam Mang River No.1 hydropower station power resources project	2013
10	Laos Nam Shan 3A hydropower station construction power supply line project	2013
11	Kyrgyzstan Daleka - Ke Ming 500kV transmission and transformation project substation section	2014
12	Kyrgyzstan Dateka - Ke Ming 500kV transmission and transformation project power transmission section	2014
13	Laos 230kV Pak Ngeun and Pha Oudom Substation Extension Project	2017
14	Angola SK transmission and transformation project CATETE 400kV substation Electrical Installation project	2016
15	Kenya Nairobi 220kV、66kV power grid upgrading and reform project	2016

- :1° East Timor State Grid LIQUICA 150kV transformer substation, put into operation in 2013
- Kyrgyzstan Dateka Ke Ming 500kV transmission and transformation project substation section, put into operation in 2014

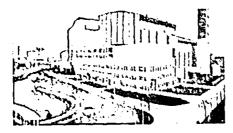








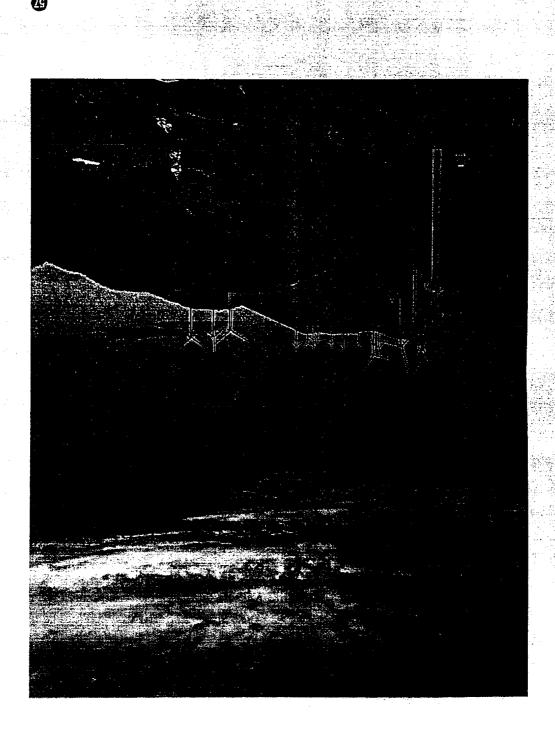
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4	Chain Resources Hola Chainchainn ad paice, paid	no MV	2010
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٧	Eupan Hinan Xiaoziio wind power plant project evol work and installation work	22 ANV	2012
10	China Resources Franchou wind pewer plant 200MW 110MV beester station civil work and installation work electric equipment installation work.	Hexy.	501)
n	Nanjing Jungton Jingmai Industry Development Zone wasterto- energy power plant	28 BWW-485601.D	2015
12	Hackun Energy Technology (Changha Fee A M. Mahang Pedis C 4MMp photovoltaic power FCC project	48118)	2019
13	Chery Phase L5 9508MMp photocyllaid (PV) power generation (PC) payed	annabay a	2010
14	Tanghe Longshan 40MW wint power plant	40/4/1/	2018
15	Pakistan DAWOOD 49.5ANV wind power plant	49.5807.	2015
10	Pakistan TAPAL wind power plant	BONNA	2018
17	Pakistan Master wind power plant booster station and work and installation work and collecting power lines work	1938/	2018



Kaifeing waste-to-energy power plant project  $\rm C^{189}$  MW+ 383501 D), put into operation in 2012



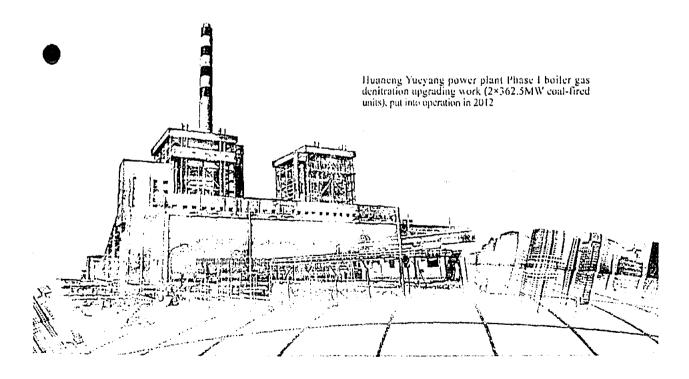
Fujian Luqiny Nintouwer wind power plant project (30 MW), put into operation in 2011



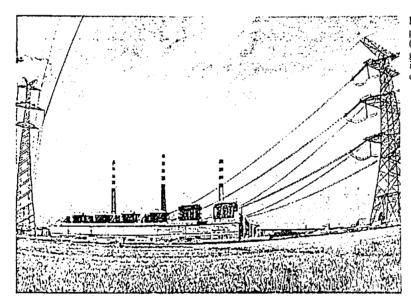
# Green Power Projects



No.	Denitration Project	Completion Date
1	China Resources Caofeidian 2X300MW power plant coal-fired Unit 2 installation (including denitration)	2009
2	Huangshi 1X300MW combined heat and power project coal-fired unit installation (including denitration)	2010
3	Huaneng Yueyang power plant Phase III (2×600MW) expansion project Unit 5 installation (including denitration)	2011
4	China Guodian Qingshan Thermal Power Generation Co., Ltd. 2X350MW coal-fired units general contracting project gas denitration work	2010
5	Huaneng Yueyang power plant Phase I boiler gas denitration upgrading work (2×362.5MW coal-fired units)	2012
6	Huaneng Luohuang power plant Phase III (2×600MW) boiler gas denitration upgrading work, Ammonia area and SCR reactor area installation work	2012
7	China Guodian Jiujiang power plant Phase IV 2X660MW gas denitration installation work	2012
8	China Guodian Jiujiang Power Generation Co., Ltd. 2×350MW units technical innovation project gas denitration device EPC general contracting project civil work and installation work	2012
9	China Guodian Changyuan Jinmen Power Generation Co., Ltd. 2×600MW gas denitration civil work and installation work	2013
10	Huaneng Luohuang power plant Phase I and II gas denitration upgrading project installation work bidding section I	2013
11	Vietnam Vinh Tan Phase II 2×622MW thermal power plant general contracting project (including denitration)	2013
12	Turkey ATLAS (1+1) × 600MW iskenderun thermal power plant project (including denitration)	2013
11	Huaneng Luohuang power plant Phase I and If gas denitration upgrading project installation work bidding section I  Vietnam Vinh Tan Phase II 2×622MW thermal power plant general contracting project (including denitration)	2013



No.	Denitration Project	Completion Date
1	Hubel Huadian Xlangfan Power Generation Co., Ltd. Xlangfan power plant (2×600MW) Phase II project gas desulphurization work	2007
2	Huaneng Haimen power plant Phase I Unit 1 and 2 (2X1000MW) sea water gas desulphunzation installation work	2009
3	Huaneng Yangluo power plant Phase III 2×600MW expansion project desulphurization system installation work	2006
4	China Guodian Fuzhou Power Generation Co., Ltd. Jiangyin power plant Phase I 2×600MW gas desulphurization island installation work	2007
5	China Guodian Changyuan First Power Generation Co., Ltd. 1×300MW gas desulphurization upgrading project civil work and installation work	2008
6	Fujian China Guodian Nanpu Phase II 2×670MW power plant coal-fired project gas desulphurization island installation work	2011
7	Huadian Hubei Xisaishan power plant 2×680MW coal-fired units desulphurization installation work	2013
8	China Resources Puqi power plant Phase II 2×1000MW Unit 4 installation project	2013
9	Vietnam Vinh Tan Phase II 2×622MW thermal power plant general contracting project	2013
10	Turkey ATLAS (1+1) × 600MW iskenderun thermal power plant project	2013

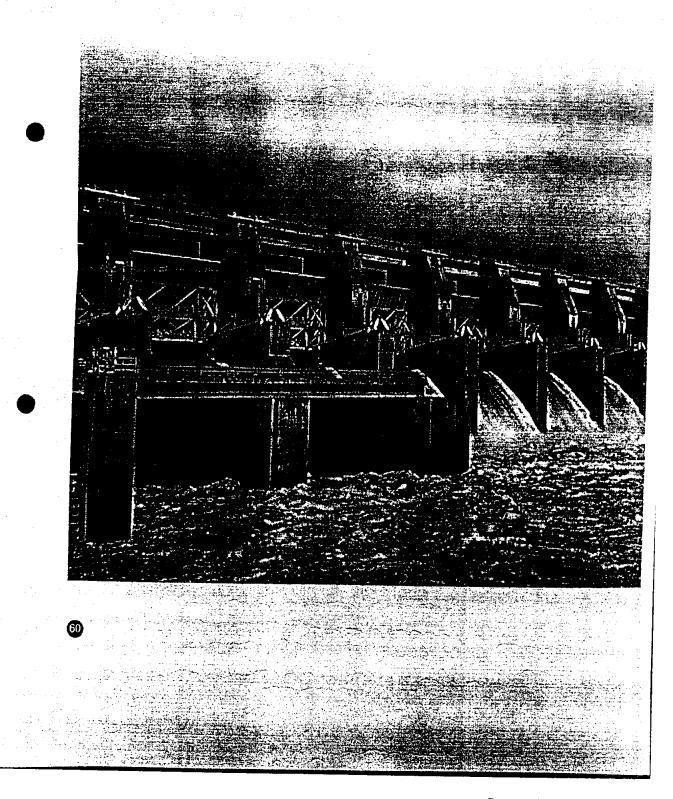


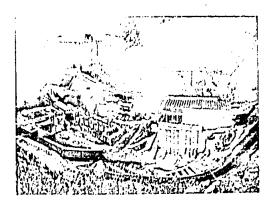
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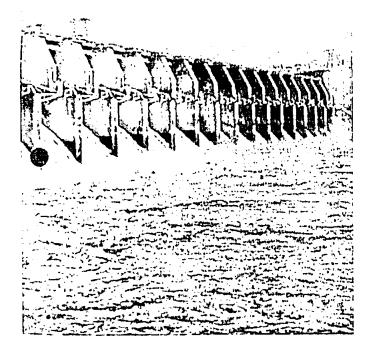
Huaneng Haimen power plant Phase I Unit 1 and 2 (2X1000MW) sea water gas desulphurization installation work, put into operation in 2009

# **Hydraulic Power Projects**











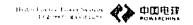
- (j. Huanglongtan hydroelectric power plant expansion project (2×470MW), put into operation in 2005
- (2) Hubei Bailian River hydroelectric power plant project (45MW), put into operation in 1964

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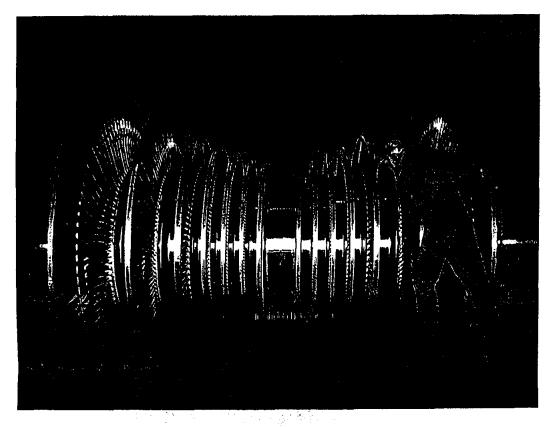
# Overhaul and Maintenance Projects

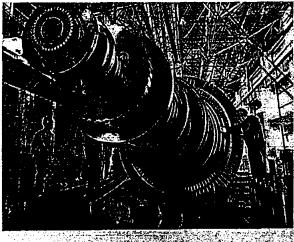


Туре	Project	Completion Date
	Xiangfan power plant 4*300MW unds overhauf project	2009
	V/ISCO Energy and Power Parent Company thermal power plant 2×50 MW units overhaul and output assurance project	2010
	V/uhan Steef and Electric Power Corporation 2×200 I/IV/ units desulphurization system overhaul and output assurance project	2011
Overhaul	WISCO Energy and Power Parent Company 07 power station 2×6 MW/2×12MW1×25MW units output assurance project	2010
and maintenance project	Hubei Energy Group Ezhou Power Generation Co., Ltd. 2×300 MV/ 2×600 MW units maintenance and overhaul services of electric part, of some boiler part and of desulphurization system	2011
	China Guodian Yiyang Power Generation Co., Ltd. 2×300 MW/ 2×600 MW/ units coal handling system overhaul and maintenance	2011
	Fujian Hongshan Thermal Power Co., Ltd. 2×600 MW supercritical fuel system of steam extraction heat supply unit overhaul and maintenance project.	2011
	Whan Steel and Electric Power Corporation Energy and Power Parent Company gas turbine thermal power workshop overhaul and output assurance project	2011
	Xiangfan power plant (4×300MV/) units major overhaul	2009
	Guangdong Hengyi power plant ((2×50 MV/) #2 units major overnaul	2003
	Ezhoù power plant (2×300MV/ 2×600MV) #2 unit turbine island A-level overhaul	2009
	Guangdong Foshan Funeng Power Generation Co., Ltd. #5 and #7 turbine (50MW) and generator major overhaul	2006
	VASCO Energy and Power Parent Company thermal power station (2×50 MW) major overhaul	2010
Unit	Guangdong Sanshui Hengyi power plant (2×60MW) units major overhaul	2010
major overhaul	Huaneng Hainai Power Generation Co., Ltd. Dongfang power plant (2×35MW) major overhaul	2010
project	Guangdong Shaoguan Renhua Huayue Gangue Power Co., Ltd. (2×50MW) #2 unit major overhaul and specialized installation project	2010
	Fujian Mingda power plant gas turbine (2×36 MW+1×37 MV/) demolition and overhaul	2010
	V/uchang power plant gas turbine (1×125MW+1×60MW) generator overhaul	2010
	V/uhan Steel and Electric Power Corporation (2×200MV/) units major overhaul	2010
	Xiangfan power plant (4×300l/MV/ 2×600MV/) #1 unit boiler island major ovrhaul	2010
	Guangzhou Hengyun Thermal Power (D) Plant Co., Ltd. #9 (300MW) equipment first major overhaul	2011
	Xiangfan power plant (4×300MW) minor overhaul and technical innovation	2010
į	Jinxiang cement plant 6KV power source construction	2000
	Dongleng Motor Corporation power plant expansion project flue and gas duct and air duct production	2004



ļ	Dongleng Motor Corporation power plant installation project	2004
	Guangdong Sanshui Hengyi power plant (2×50MW) unit expansion and reform	2006
	Guangzhou China Resources Nansha gas turbine power plant	2006
	Guangzhou Foshan Nanhai first power plant boiler water and coal mixture reform electric system installation	2007
	Wuhan Steel and Electric Power Corporation 2*200 MW desulphurization minor overhaul, #2 boiler furnace repair and economizer retrofit	2008
	Ezhou power plant (2×300 MW 2×600 MW) Unit 1 C-level overhaul	2009
	Wuhan Steel and Electric Power Corporation (2×200 MW) 1# boiler high-temperature reheater change	2009
	Boiler fast repair of WISCO coal carbonization company for 4 times	2009
	Fast boiler flow orifice repair of WISCO measurement control company	2009
:	WISCO thermal energy workshop occasional overhaul during major overhaul period	2009
	Guangxi Jingui Paper Corporation power plant (2×670T/H+2×150MW) project general contract installation work (overall plant general service system electric and I & C installation)	2009
nit	#1 Boiler fast repair of Wuhan Steel and Electric Power Corporation (2×200 MW)	
inor	Change feed-water pumps of WISCO coal carbonization company	2009
rerhaul chnical	#2 Boiler fast repair of Wuhan Steel and Electric Power Corporation (2×200MW)	2009
inovation nd	Huaneng Hainan Power Generation Dongfang power plant (2×350MW) unit minor overhaul and technical innovation	2010
ther ssignments	Hunan China Resources Hunan Liyujiang Co., Ltd. (4×300 MW 2×600 MW) #1 boiler precipitator and burner C-level overhaul	2010
	WISCO Energy and Power Parent Company thermal power plant 75T boiler steam water system (The construction of three small boilers comprises three parts.)	2010
	WISCO CSP heat recovery boiler drum and deaerator major overhaul	2010
	Wuhan Steel and Electric Power Corporation (2×200MW) desulphurization minor overhaul	2010
	Guangzhou Wanglong Thermal Power Co., Ltd. (1×12 MW) #1 and #2 boiler end heating surface reform project	2010
	China Resources Hunan Liyujiang Co., Ltd. (4*300 MW 2*600 MW) #2 unit B-level overhaul II, and bidding section (burner and air pre-heater, pulverized system & coal handling system, precipitator and ash-slag disposal system)	2010
	China Guodian Yiyang Power Generation Co., Ltd. (2×300 MW 2×600 MW) unit minor and technical innovation	2010
	Ezhou power plant occasional assignments and technical innovation project in 2010	2010
	China Guodian Yiyang Power Generation Co., Ltd. (2×300 MW 2×600 MW) #1, #2, #3, #4 unit coal pulverizer stairs and platform installation	2011
	China Guodian Yiyang Power Generation Co., Ltd. #2 car dumper retrofit	2011
	Ezhou power plant #3 unit minor overhaul	2011







- D Fujian Hongshan Thermal Power Co., Ltd. 2×600 MW supercritical fuel system of steam extravtion heat supply unit overhaul and maintenance project put into operation in 2011
- Q Guangdong Fashan Funeng Power Generation Co., Ltd.#5 and #7 turbin(50MW) and generator major overhaul put into operation in 2006



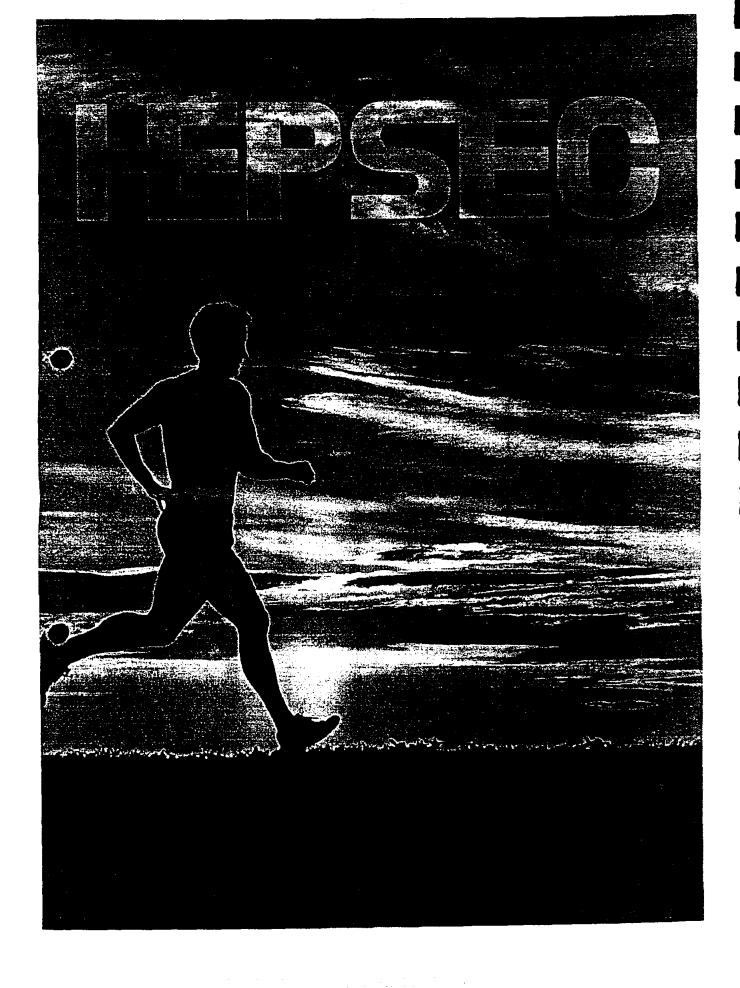






- (f) Jinxiang cement plant 6KV power source construction ,put into operation in 2000
- (Ž) Guangzhou Hengyun Thermal power(D)Plant Co.,Ltd.#9(300MW) equipment first major overhaul, put into operation in 2011
- (3) Guang zhou China Resources Nansha gas turbine power plant, put into operation in 2006





# ANNEXURE – B REVISED SCHEDULE OF PRICES

APPENDIX-I

# COST OF TURNKEY OPERATION & MAINTENANCE FOR 10 YEARS AND / OR UPTO COMPLETION OF SECOND MAJOR INSPECTION, WHICHEVER IS LATER

Hean He	Payment Type		Prices	Total Price (for the term of Agreement for the Campies)		Remarks
	Ì	Local Currency	Foreign Currency	Local Currency	Foreign Currency	1,6102142
	Modification cost	Component (PKR)	Component (USD)	Component (PKR)	Comparent (USD)	)
• '		1		!	7	·
1 1	Midble Labors cost (excluding the unfurnished accommodation and necessary equipment on per attributed fact.	1			1	i
	Posse:	[	1	!	7,000,000.00	One Time Co.
	Phones	!	!		2,500,900,00	Agoretherm
	The state of the s		1			Payment Ban
	Sub Total - 1	l _ · · · _			4,500,000,00	Georgesco
	Orași a de la companya de la company		,			
	Operation & Maintenance Cost per month					
	Operation & manufactures and including doubles survices, stilling, tidesing and maintenance based on HISFO) primary fuel	20,594,131,03	438, 103 40	247,129,572,97	5,257,240,76	
	Operation & mains named cost including matter section, utilizes, flouring and maintenance base on ICAS on primary fuel offer one year.	18,059,863,65	406,620,00	1,950,455,793,84	43,922,519.55	
23	for contail Security costs included in above costs (Fixternal Security shall be the	<del></del>			-20,51,515	
	Interpretability of Owners . Clear of ISO/I (EAST), SAFELY & ENVINONMENT particular within one year (12)	Ç0.000.000.00		379,809,000,00	- ;	
:	"Ontion co'ds included at above cost		5,000,00		60,000,00	אספות ענילרונאנ
:	Chyona will arrange this rack and machinery preakdown and pusiness interruption					
75	insurance one policy will be previded to D&M Contractor for management. Contractor's	. ]	1	1	1	
j	verifieren compensation and estarance of vehicles in his control is included in Contractor's price	i	i	†	· · · · · · · · · · · · · · · · · · ·	
	Fuel costs by Employer (Only HSD, HSFO or GAS)				ì	
	Sub Total - 2			2.568,383,366,81	49,239,760,51	
	Scheduled Inspections for GE equipment, Steam turbine/HRSG, BOP &	<del></del> 1			1	
	Switchyard					
3 1	GT Combitstian Inspection for single unit *		105.731.42			
3 ? (	CT Hot Gas Path inspection for single unit		199,783.71		2) 2.220,353.51	
336	GT Major Inspection for single unit		451,602,02	<del></del>	/ *************************************	
- 1	ST& HRSG Major (ospiction).	<del></del>	231,484,16		2,709,512,14	
3 4 1 13	ST & HRSQ Minor Inspection 5		77,161,394		F,388,90± 93	•
16 1	echoduled activities on GY Cenerator during Combustion Inspection for	<del></del>	- 15. 2 15. 10 1.364	<u>Y</u> =	17 2.083,357-09-	
· (•,	constitution (and the constitution of the cons	'	19,749,48	. 1	476,655,07	Event Bused
5 J 🖹	Scheduligh activities on GT Generalanduring Hot Gas Path Inspection	<del></del>	<del></del>	<del></del>		المعتجمدا
	for morde unit	!	29,618.22	į.	177,709 32	
೨೬ ( <mark>೫</mark>	Schools Retirefully, on GT Generator during Major Inspection or single unit			<del></del>		
	Z Single und		89,854,68	[	533,127,55	
			659,080,41			
	1 Constitut Major inspection (		66,6952,711	<del></del>	1.213.180.23	
-:	nnual dispect Steam testimeARSG, BOP and avelchared		296,182,19	<del></del>	599.564,42	
	Sub Total - 3			<del></del>	2.961,821.91	
			<del></del>	<del></del>	15.606,399.79	
د اء	cheduled Impections CONSUMABLES for CE equipment Steam turbine/HRSG, OP & Switchyard			<del></del>		
	Or a Syntanyard  Combustion Respection for sangle unit				į	
		1,088,939,86				

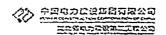
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中国母力正常年間もお公司

APPENDIX. Emer Strong Impacing Discrete an investigation in investigati Front Bayed Profession MICHAEL MAN COST OF TURNKEY OPERATION & MAINTENANCE FOR 10 YEARS AND 1 OR UPTO COMPLETION OF SECOND MAJOR INSPECTION, WHICHEVER IS LATER Total Price (for the form of Agreement for the 6 65: 27:0 02 19: 62:3:2 65 1 4:0 9:0 97 3 35:5 33:1 67 1207,671 05 743,455,49 1,043,431 97 1,865,947 32 40,066,502,43 663.253.52 0.0000 146,379,13 414,653,07 497,536,69 531,724,66 Complex Local Gurency
Component (PKS)
15,590,251 82 1
21,255,191 83 1
21,455,191 83 1
21,455,197 47 1 2,552,558 34 4.382 6/15 53 1 5.737 1 14.85 18.30: 65 65 2,196,687.15 Local Currency Fornign Currency Component (USD)
2.781.708.61
6.401.1352.98
3.5-16.409.841 7,110,716,74 1,653,718,77 246,818,50 7,128,345,62 33,113,50 93,297,39 51,831,88 33,172,41,5 22,114,94 108,875.59 Unit Prices 732,102,38 | 5,518,738,86 | 5,84,577,21 | 1,830,405,98 356,081,19 122,027,06 Sub Total . 4 Sub Total - 5 Sub Total - 6 Schedule Inspections PARTS for GE equipment Steam turbinolHRSG, BOP R. | GT Combination for sample and | GT Combination for sample and | GT Combination for sample and | GT Hot Color Petit histociston for sample and | GT Hot Color Better for sample and | GT Hot Sample and | GT Hot Sample and | GT Color Better for sample and | GT Color Poda vý závěm ou GT Gemeraku duřen kůper Vegovám lor shope natí Generalist Misir fastickém Act some unit |Servatured includées on GT Generator duting Hol Gus Puth Impection for GT 184 Gus Pun Improvion for minic unit GT 4810 Pun Improvion for sincip unit STA 1830 Navo Inspection GT 8 HS36 Navo Inspection GT 8 HS36 Navo Inspection 53 Gereinter Albey Insoverson S1 Gereinter Insoverson Krinuzi (622S) Stoom turbinghilistic, ROP and switchumm Cost of other Chemicals flubricants/consumables per Kwh Arrael anspect Steam turnmaninsG, 1909 and symethore Payment Typo Refurbishment Works for GE Frame 9E Costs Combustion Inspection parts Centhoston Uner Rem No .,

Event Showy

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APPENDIX-!

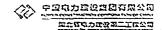
#### COST OF TURNKEY OPERATION & MAINTENANCE FOR 10 YEARS AND / OR UPTO COMPLETION OF SECOND MAJOR INSPECTION, WHICHEVER IS LATER

nem Ne	Payment Type	Unit I	ricos	Total Price (for the term Comp	lex)	Remarks
<u></u>	<u> </u>	Local Currency Component (PKR)	Foreign Currency Component (USD)		Foreign Currency Component (USD)	
	Classing (ab)		9.872.74	41417	01,160,5%	invoccing
	Ctoris Fire Left / Stefamor		5,528.73	31 × 1 5	82,931.C1	1
	Flow Sleeve		103,663,77	74 +6	879,3:0:4	;
16	70 Stock	i	5,528,73		82,931 C1	
	Sub Total - 7.1				3,135,607.61	
·		i		1		<del></del>
	Hot Cas Path Inspection Parts	<del></del>		i		<u> </u>
	Tempidam panin	i	93,297,39	11-3	373 159 56 1	į
1.222	Cottidan Joseph Commission Control of the Control o		51,831,88		207.727.51	·
/ :: ]	Fuel Novele		33,172,41		137,550,57	•
1 72.4	Bull Hern	i	22.114.93		83,455,75	ĺ
1.23	Cross Fare (age)	<del></del>	9,872,74		39 450 66	!
1.70	Cress Fac June Referen		. 5,528,73		22.17.29.2	;
- 127 1	Color States		. /103,663,77		103,663.77	•
1 2 2	IP Block		5.528.73	1 1/4	22.112.91	Event Based
129 1	ital Stage Newste			1		lintogray
	ust Stope (topse)					
	na Stren Strand post	<del></del> -			<del></del> j	1
7.2 32 15	Second Statue Nozale	<del></del>				1
12 13 15	Second Stone the est					İ
2 77 18	Second Stage (Percel Block)	<del></del>		<del>-</del>	<del></del>	i
12 15 11	had Stage No.244	<del></del>				1
12 15 17	hird Stang Bucket					. [
121/11	hard Stone Shroud Riges		i	i	<del></del>	1
	Sub Yotal - 7.2			<u>-</u>	989,051,67	
1		<del></del>	<del>i</del>	· ;	203,031,01	
7.3	lajor Inspection Parts			<del></del>	<del></del>	<del></del> ,
1 11	anskou piece	· · · · · · · · · · · · · · · · · · ·	193,297,391	<del>                                      </del>	373.189.55	-· [
	CONTROLLING LINES		51,831 88]		207,327 54	
3 150	ed Nozzie	<del></del>	55,172 41		132,659 52	i
734 Ja	di Som	<del></del>	22,114,94		E5,459 75	-
	ross File Tube		9,872.74		39,450,96	1
	ross Fire Tube Retiener	· <del></del>	5,528.731	<del></del>	22,11-94	ľ
737 Fx			103,663,77			i
1 758 TT	P (2 Nov)h	<del></del>	5.528,73		103,653,77	1
	est Stage Nozzle		148.091.10	<del></del>	22,114,94	Event Based
3 10 IF	tot Stager Rincket	<del></del>	1/7,709,32	<del></del>	592,364,39	Invoking
	ost Staten Shread Stack		56,866,93	<del></del>	227,467,93	-
	Conf. Stage Nozzie		98,727,401		394,90959	i
	OF Store Bucket	<del></del>	115,477,63		473,891,51	. 1
	room Stage Stroom Block	<del></del>	34,554,59		138,218,36	1
	art barger Nazzki	· <del></del>	98,727.40			
	5/101		100.121.00	<del></del>	394,909.59	ì

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#### APPENDIX-I

#### COST OF TURNKEY OPERATION & MAINTENANCE FOR 10 YEARS AND FOR UPTO COMPLETION OF SECOND MAJOR INSPECTION, WHICHEVER IS LATER

trm N	Payment Typu	Unit	Prices	Total Price (for the term Comp		Remarks
		Local Currency Component (PKR)	Foreign Currency Component (USD)	Local Currency Component (PKS)	Foreign Currence Component (USC	Y
	Uhrd Stage Bucket	1	118,472,88		473 801 5	1
7377	Thed States Shroud Block		27,150,03		108,600	4
	Sub Total - 7.3			•	4,504,141.3	5
	5ub Yotal - 7 (7.1+7.2+7.3)				8,626,800.0	4
	I First Oil Years	<u></u>		<u></u>		_ <b>i_</b>
8	Fuel Oil Treatment plant					
s 1	isouties maintenance of Fuoi Od Treatmen: incort (COTP)	.	į			1
8.7	(Operation of FO1P):	<del></del> ;	<del></del>	<del></del>		Contract and
	Schedule maintenance of FOTPs		<del>_</del>			2 1tove
	Sub Total - 8					<del>_</del>
	3(10 10);11 - 8	·		-,		
4	Fixel Handling System		<del></del>  -			- <del> </del>
4 :	Routins assistenance of Fuel Oil Decanting system		<del></del>			- <del> </del>
32	Rounnes insidemation of Auxiliary steams hoders for fuel oil track heating and their		<del></del>			4
12	[arminaterion]	' 1	l l	I		Continiçãos de d
9.3	School in malicinance of Auxiliary steam boilers for fuel oit tank heating and their			<del></del>		- Linear
	inniving item.			· 1	•	1
<u> </u>	Fuel Or Tostag					Costosche ted ord
3.3	Charmetels for agentiany pigents beauty				····	Gotson
	Sub Total - 9					1
	Fuel Additives and make-up items cost per Kwh (Per annum cost at 60% load					T
10	factor for One (01) Year only)	1	1			
07 1	Fuel Add tives cost per Kiyh (Per inform cost of 60% kind factor)	<del></del>				Counterly invites a based on kitch
	Sub Total - 10)	<del></del>			0.0321	disposition
	, , , , , , , , , , , , , , , , , , , ,	<del></del>	<del> </del>		4,692,666,06	
	Gas Booster System					
	Rendring inconference of Gas bounder system	1,016,892,20	9,870174			
	Subsectify (majoreplance of Gas Booster Compressors (3.11 standby) and their			9.152,029.80	ER 2007 (40.1	·
	ncontration	1,270,270.G4	11,847,29	10,992,435.76	106,825.59	
i s . įk	Consumed on for this booster system	305,007,66	2,961,62	2.745,608.94	ì	
	Sub Total - 11	, , , , , , , , , , , , , , , , , , , ,		22,830,074,50	26,686 40	
			~		227,136,65	
- 1						
,  9	Other Unplanned outages, are covered under Clause 4.1.3.3 of OSM Agreement &	ļ	ļ	1	İ	No Contained to
s	Schodule-K		ł		į	description to the
- 1			1	1	1.	excluded in the over:
				l		tunn
F	inancial obligation Deviations items		·			
1 10	(in) I		1			

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#### COST OF TURNKEY OPERATION & MAINTENANCE FOR 10 YEARS AND / OR UPTO COMPLETION OF SECOND MAJOR INSPECTION, WHICHEVER IS LATER

ltem No	Payment Type	Unit Prices		Yotal Price (for the term of Agreement for the Complex)		Perparks
		Local Currency	Foreign Currency	Local Currency	Foreign Currency	1
<del></del> -	XCOT X	Component (PKR)	Component (USD)	Composent (PKR)	Component (USD)	}
	Remail			<u>i</u>		1
	Rem 4		<u> </u>	<u> </u>	L	j
	Sem 4 Egnub	<b></b>	<u> </u>	<u> </u>		į
	tem-6		<u> </u>	<u> </u>	<u> </u>	روادين هو به دويتها
	Remos					34 24 347
						Contractor 1
	Bom 8				<u> </u>	سادكاء سنفرغيماته للاتمشود
	eem s Sem-10					}
				·		]
	(tem-1) (tem-12		<u>,</u>			<i>:</i>
			<u> </u>			ì
13.13	Any other understal obligation photed on the Owner	<del></del>	<u></u>			<u> </u>
	Sub Total - 13				· · · · · · · · · · · · · · · · · · ·	ļ
	TOTAL BID PRICE (Sub Total 1 to 13)		<del></del>			<u> </u>
	101AC BID FRICE (SUB 1013) 1 10 13)			2,742,334,418,43	130,345,217.28	110 266 571 F
74	Termination Costs	<del></del>				
14 1 1				<del></del>	2,030,139.25	<u></u>
142		<del>i</del>	·			
143 !		i	<del></del>		1,314,139.25 1,314,131.25	
76.4 1	Year-4	i	<del> i</del>			
:4.5	Year-b		<del></del>		1,209,426,17	
74 1			<del></del>	<del></del>	1,209,426 17	
347 (			<del>-</del>	<del></del>	\$04,113.03	ı
3 25			·		504,713.03	
75.5 1	Year 4		<del></del>		604,713,08	
	Ygar-10	<del></del>	<del></del>		504,713.Da	
	Sub Yotal - 141		<del> </del>	<del></del>	11,109,135,50	
					44,107,833,361	

#### Assumptions

Tentions: CI, HCP1 and MI based on 60% LF on HSFO and 90% LF on Cas for the whole form for all 3 CT Units are as under Compartion impressors (CI) 1/21.

For Gue Path Inspections (HGPI) = 6 <

Marga Insuperations (MI) = 6

2 Constitution of union openional divining this term (for reference only).

EVIL @ 60% Load Factor on HSFO Operation for One (01) Year = EVIL & 90% Load Factor on Birs Operation for Nine (09) Years \*

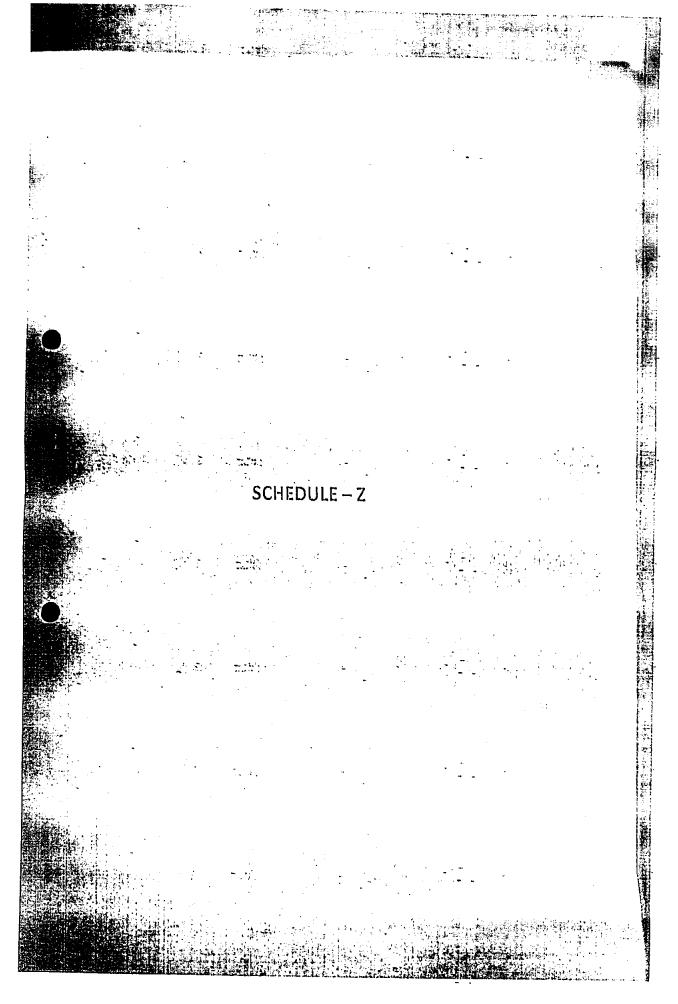
2,263,407,048 kWh 31,764,872,520 kWh 34,028,279,568 kWh

Kelen:

5025

2.74 E.L. M. 139 130 - 3115 M. 139 (13. 1125 C. D.)

Garage of the Built



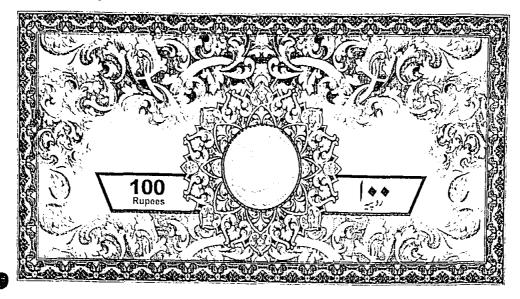
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#### SCHEDULE Z: ASSUMPTIONS

- 1. Per annum Operating Hours on HSFO = \$500 → 7000 hours
- 2. Per annum Operating Hours on Gas = 6500 -> 7884 hours
- 3. Plant load factor on HSFO = 60%.
- 4. Plant load factor on Gas only Operation = 85%.
- 5. Gas Turbine Maintenance Factor on HSFO = 3.5 FFH.
- 6. Gas Turbine Maintenance Factor on HSD = 1.5 FFH.
- 7. Gas Turbine Maintenance Factor on Gas = 1.0 FFII.
- 8. Gas Turbine Combustion Inspection after 8000 (Eight Thousand) FFH
- 9. Gas Turbine Hot Gas Path Inspection (HGPI) after 24000 (Twenty Four Thousand) FFH.
- 10. Gas Turbine Generator Minor inspection during gas turbine HGPL
- 11. Gas Turbine Generator Major Inspection (MI) during MI of Gas turbine.
- 12. Gas Turbine Major Inspection after 48000 (Forty Eight Thousand) FFH.
- 13. Gas Turbine wash after 250 (Two Hundred & Fifty) hours Operation on HSFO.
- 14. Compressor wash after 250 (Two Hundred & Fifty) Operating Hours.
- 15. HRSG wash during Gas turbine Combustion Inspection.
- AG. HRSG minor inspection, after 24000 (Twenty Four Thousand) FFH of Respective Gas Turbine (during Gas Turbine Hot Gas Path Inspection HGPI).
- 17. HRSG Major inspection. After 48000 (Forty Eight Thousand) FFH of Respective Gas turbine (during Gas Turbine Major Inspection -MI).
- 18. Minor Inspection of Auxiliary Boiler after every Six month.
- 19. Major inspection of Auxiliary Boiler after every Twelve Months.
- 20. Annual Inspections of Gas booster compressors.
- 21. Minor Inspection Maintenance of Steam turbine after 25000 (Twenty Five Thousand) Operating Hours.
- 22. Major Inspections of Steam turbine after 50000 (Fifty Thousand) Operating Hours.
- 23. Minor inspection of steam turbine Generator after 25000 (Twenty Five Thousand) Operating Hours.
- 24. Major Inspection of Steam turbine Generator after 50000 (Fifty Thousand) Operating Hours
- 25. Availability factor with Gas Turbine Operation on gas only # 90%.
- 25. Availability factor with Gas Turbine Operation on HSFO = 80%.

Sell

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#### **AFFIDAVIT**

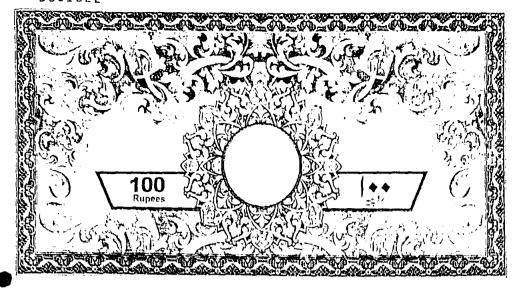
#### BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

I, Naveed Athar, Plant Manager, CCPP Nandipur of Northern Power Generation Company Limited being duly authorized representative / attorney of CCPP Nandipur of Northern Power Generation Company Limited, hereby solemnly affirm and declare that no license under the Act has been granted separately to CCPP Nandipur. However, existing Generation License of NPGCL is inclusive of CCPP Nandipur as Plant IV.

DEPONENT

(Navedu Afhar) Plant Manager CCPP Nandipur NPGCL





#### **UNDERTAKING**

#### BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

I, Naveed Athar, Plant Manager, CCPP Nandipur of Northern Power Generation Company Limited being duly authorized representative / attorney of CCPP Nandipur of Northern Power Generation Company Limited, hereby solemnly undertake that neither the grant of separate Generation License in respect of CCPP Nandipur has been applied nor refused by the by the Authority under the Act.

DEPONENT

Plant Manager GGPP Nandipur NPGCL



# INFORMATION REQUIRED UNDER SCHEDULE – II (Regulation 3(4)(a)(A)(b) in respect of New Generation Facility (Renewables)

# **FUEL SUPPLY AGREEMENT**



Ref: GMS: 938 (LNG)

Dated: May 12, 2017

Engr. Nadeem Ahmed, Chief Executive Officer; Northern Power Generation Company Ltd. Thermal Power Station, Mehmood Kot Road,

Fax: 066-9200166

#### **MUZAFFARGARII**

#### INTERIM AGREEMENT FOR SUPPLY OF RLNG TO CCPP NANDIPUR

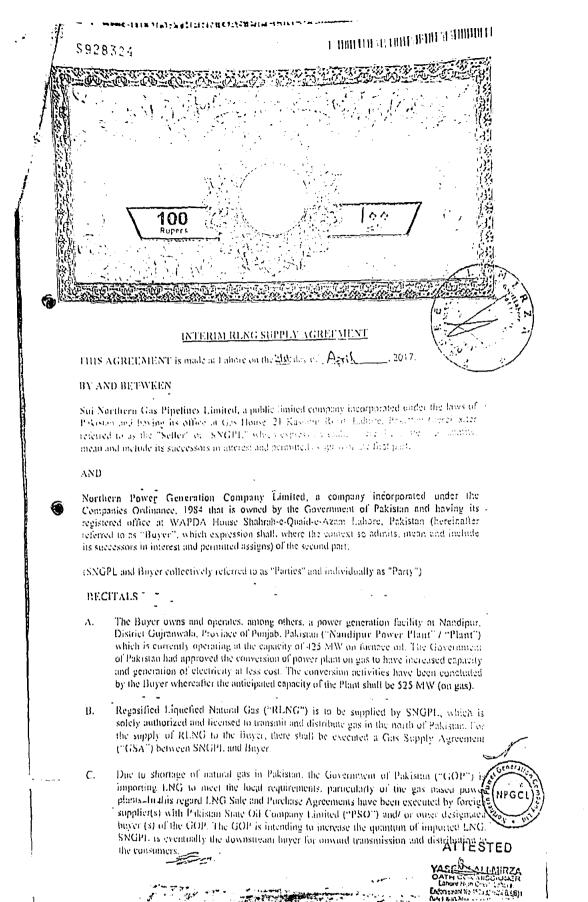
Dear Sir,

This is with reference to your letter no. CEO/NPGCL/NNP/GSA/147-50 dated April 26, 2017, regarding the subject matter, enclosing therewith two sets of Interim Agreement for supply of RLNG to CCPP Nandipur during testing / commissioning period (not exceeding two months), duly signed by authorized signatory on behalf of Nandipur.

We are enclosing herewith one set of Interim Agreement, duly signed by SNGPL, for your further necessary action please.

Regards

Office of the FD. NPGCL Diary No 4758 Date 22 -5-17 M.F. (CA), M.F. (CPC) D.M.A. (CPC) D.M.A. (CPC) D.M.A. (CA) D.M.A. (CA) AMA (CA) AMA (CA) AMA (CA) AMA (CA) AMA (CA) AMA (CA) AMA (CA) AMA (CA) AMA (CA) AMA (CA)	SUI NORTHER  SH  Gene	Yours faithfully, RN GAS PIPELINES LIMITED LACIAN CASSED  HAHID MAQSUD  TO BE
AMA (R/P) AMA (R/P) AMA (P/H) AMA (Payoll) PA Grade-1	FD flowdepun flow flow for supposed in the sup	NPGCL (GENCO III. TPS. Muzafiargart. CEO CEITB HG & AD Fig Birector Dir (MAS) Dir fact RE-II HE-IV FE (FPSS) D.C.A D.M (Security) Xen (Civil) Obery No.
Telaphones Erch:	* 92-42 9002000   Telephones: { 042-99202338   F34: 042-992013	309 www.angpl.com.ph UILS S



30th November 2015, for which SNGPL is in the process of laying integrating 88 KM gas pipelines of 24" dia under a separate arrangement.

かって れんしい はくり こうしゅうこうしい かいしん はくしゅんし

- Parties in principle understand that the Buyer is a power project set up under the Ε. Government of Pakistan. The Parties will, subject to obtaining of necessary approvals from competent authorities to be obtained by the Buyer, be entering into the GSA to govern the transaction on lines similar to that of the other three Government Power Plants ("GPPs") being setup at Bhikki, Haveli Bahadur Shah and Balloki.
- However, owing to current requirements of, and pancity of time before expected commencement of supplies of RLNG to the Buyer, this Interim Agreement is being put in place to govern the supplies of RLNG on as available basis, till such time the necessary approvals for adopting GPP's GSA model are obtained and necessary agreements are executed through the supply chain.

NOW, THEREFORE, in consideration of the mutual benefits to be derived, the Parties have agreed to enter into this binding Interim Agreement, on the following terms and conditions:

- The Seller shall supply up to 30 MMCFD of RLNG or equivalent swapped natural gas at a delivery pressure of minimum 300 psig on as and when available basis to the Buyer in accordance with the terms of this Interim Agreement, during the testing period of the Buyer's Plant. It is contemplated that this quantity shall be increased to 100 MMCFD once the GSA is executed subject to the terms and conditions to be agreed by the Parties in the GSA. Gas specifications attached as Anaextire "A".
- 2) The Seller may swap RLNG with natural gas with SSCC, at Zamzama, Sui and/or Sawan gas fields. Under the swap arrangement, natural gas supplied to the Buyer under this Agreement shall be in lieu of supply of RLNG.
- Title and risk of RLNG or swapped natural gas, to be supplied to the Duyer 3) hereunder, shall pass from SNGPL to the Buyer at the Delivery Point i.e. the point or points at which the inlet flange of the Buyer's pipelines meet the pipeline of SNGPL at a billing meter orifice/ ultrasonic meter, or such other point or points at or near the boundary of the facility, as may be agreed in writing by the Buyer and SNGPL.
- RLNG and/or swapped natural gas supplied by the Seller to the Buyer shall be 4) measured at the metering station installed at the Delivery Point. Such metering station, consisting of orifice or ultrasonic meter, flow computer and online chromatograph, shall be calibrated by the Seller, in the presence of Buyer, on a monthly basis, or at an interval mutually agreed by the Parties. Any calibration error shall be corrected and the same beyond +/- 1% of true value shall be adjusted in the subsequent invoice.
- The Buyer shall make payment of RLNG or swapped natural gas supplied by SNGPL in accordance with the RLNG price as determined by Oil and Gas Regulatory Authority ("OGRA") from time to time (the "Notified Price"); and in case there is

any delay in determining the price of RLNG by OGRA, the price intimated by PSO to OGRA for its onward determination would be considered provisional pricing used for billing and payment purposes until final price determination by OGRA, subject to any future adjustment upon issuance of delayed price determination.

- The Seller shall raise bill for supplies made under this Agreement to the Buyer every seven (7) days ("Billing Cycle") and the Buyer shall make all payments pursuant to such bill within three (3) days of issuance of such bill. All such bills of the Seller will be paid without any deduction or set off or adjustment; provided however, the Buyer shall have the right to dispute any bill after full payment of the same and the dispute shall be resolved in accordance with the provisions of relevant clause of this Agreement.
- 7) If the payment of any bill rendered by the Seller to the Buyer is not made within three (3) days from the date of issuance of invoice, the Buyer shall pay delayed payment charges to the Seller at the rate of one (1) month KIBOR plus two percent (2%) ("Delayed Payment Charges") from such date up to (but not including) the date when payment is made by the Buyer.
- 8) As security for fulfillment of its obligations hereunder, the Buyer shall provide to the Seller cash deposit ("Cash Deposit") before or at the time of signing of this Agreement for the amount of Puk Rs. 943,337,195 (Pakistan Rupees Nine hundred forty three million, three hundred thirty seven thousand and one hundred ninety five only) equivalent to 30 (Thirty) days of RLNG supply of 30 MMCFD which will be replaced by SBLC / Escrow Account equivalent 90 days of Buyer Allocation once the Parties enter into a GSA based on the framework of the GPPs. In the event that the Buyer fails to pay any amount due for RLNG or swapped natural gas supplied to it by the Seller, the Seller shall be entitled to draw such amount(s) from the Cash Deposit.
- 9) The Cash Deposit shall (i) be maintained during the term of this Agreement; and (ii) the amount of the Cash Deposit may be reviewed from time to time with the first review to take place on the expiry of three (03) months after the provision of the Cash Deposit. Provided that the aforesaid review shall only take place if there has been a variation of +/- 10% of RLNG Tariff notified by OGRA from the previous review. For avoidance of doubt, the amount of Cash Deposit shall be adjusted proportionately to the variation in the RLNG Tariff; provided that there has been a variation of at least +/- 10% of the RLNG Tariff notified by OGRA from the previous review and any variation less than +/- 10% shall not lead to adjustment of amount of Cash Deposit.
- 10) In the event of draw down of the Cash Deposit by the Seller, the Cash Deposit shall be replenished to the original amount within 10 business days, and if the replenishment is not made until the time that Cash Deposit equivalent to a Pakistan Rupec equivalent to 14 days of supply remains, then the Seller shall have a right to suspend the supply. There shall be no obligation to supply RLNG/swapped gas unless a Cash Deposit of the amount contemplated herein is in place.
- 11) The Agreement shall be governed by the laws of Pakistan,
- 12) In the event of a dispute arising pursuant to the provisions of this Agreement, the Parties shall settle such dispute in accordance with the provisions of Arbitration Act,

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Ornerallog Composition (NPGCL)

1940 us amended from time to time by two arbitrators, one to be appointed by each party, at Lahore.

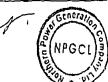
- This Agreement shall be deemed to have come into force and effect on the date of its signing ("Effective Date").
- 14) This Agreement shall be valld for a period of two (2) months from the Effective Date or for any extended period as mutually agreed by the Parties in writing ("testing period"). This agreement shall be replaced with the Gas Supply Agreement to be entered into by the Parties within a period of two months or any extended period, as mutually agreed by the Parties, from the Effective Date.

#### Annexure "A"

#### (Gas Specification)

Reference	Characteristics	Limits
1.	Gross Calorific Value	900-1050 BTU/SCF
2.	Carbon dioxide	Not more than 5 mole percent
3.	Oxygen	Not more than 0,2 mole percent
4.	Hydrogen Sulphide	Net more than 1 Grains/100 Scf
5.	Nitrogen	Not more than 12 mole percent
6.	Water Vapors	Not more than 7 Lbs/MMSCF
7.	Total Sulphur	Not more than 20 Grains/100 Scf
8.	Gas Delivery Pressure	Minimum 300 Psig
9.	Base Conditions for measurement	14.65 psia and 60 degree F





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#### 2<sup>KII</sup> INTERIM RUNG SUPPLY AGREEMENT

THIS AGREEMENT is made at Labore on the \_\_\_ day of \_\_\_\_\_\_, 2018

#### BY AND BETWEEN

Sul Northern Gas Pipelines Limited, a public hunted company incorporated under the laws of Pakeitan and having its office in Gas House, 21 Kashmir Road, Lahore, Pakeitan (hereinafter referred to as the "Seller" or "SNGPL" which expression shall, where the context so admits, mean and include its successors in interest and assigns) of the first part;

#### AND

Northern Power Generation Company Limited, a company incorporated under the laws of Pakistan that is owned by the Government of Pakistan and having its registered office at WAPDA House Shahrah-e-Quaid-e-Azam Lahore, Pakistan (hereinafter referred to as "Buyer", which expression shall, where the context so admits, mean and include its successors in interest and permitted assigns) of the second part;

(SNGPL and Buyer collectively referred to as "Parties" and individually as "Party")

#### RECITALS

- A. The Buyer owns and operates, among others, the installed power generation facility of 450.4777 MW at Nandipur, Province of Punjab, Pakistan ("Nandipur Power Plant"), which is operated on various fuels including the Natural Gas and High Speed Diesel. There is shortage of the gas in the system. The above mentioned capacity can be better utilized by improving supply of the fuel with certainty.
- B. Due to shortage of natural gas in Pakistan, the Government of Pakistan ("GOP") is importing Regasified Liquefied Natural Gas ("RLNG") to meet the local requirements, particularly of the gas based power plants. In this regard LNG Sale and Purchase Agreements have been executed by foreign supplier(s) with Pakistan State Oil Company Limited ("PSO") and/or other designated buyer (s) of the GOP. SNGPL is eventually the downstream buyer for onward transmission and distribution to the consumers.
- C. The Parties have entered into 1<sup>st</sup> Interim RLNG Supply Agreement on 21 April, 2017 for a period of 2 months as extended from time to time. Now the Parties have agreed to enter into this 2<sup>nd</sup> Interim RLNG Supply Agreement which shall supersede the first Agreement.
- D. The Parties acknowledge that the GOP has allocated to the Buyer 100 MMCFD (the "Buyer Allocation") pursuant to Ministry of Petroleum & Natural Resources' letter No. NG(II)-16(I)/14-PPIB-Gen-Pt dated 30<sup>th</sup> November 2015.
- E. For the stated reasons, it is mandatory that the Gas Supply Agreement ("GSA"), on interim basis, should be executed with SNGPL, which is to supply RLNG being solely authorized and licensed to transmit and distribute gas in the north of Pakistan.
- F. Subject to the terms hereof Seller has agreed to supply up to 100 MMCFD RLNG or any additional available quantity of RLNG or swapped natural gas on as and when available basis to the Buyer and the Buyer has agreed to purchase the same from Seller on the terms set forth herein.

NOW, THEREFORE, in consideration of the mutual benefits to be derived, the Parties have agreed to enter into this binding Interim Agreement, on the following terms and conditions:

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- The Seller shall supply up to 100 MMCFD RLNG, or any additional available quantity, of RLNG or swapped natural gas in lieu thereof on as and when available basis to the Buyer in accordance with the terms of this Interim Agreement. Gas specifications attached as Annexure "A".
- The Seller may swap RLNG with natural gas with SSGC, at Zamzama, Sui and/or Sawan gas fields.
   Under the swap arrangement, natural gas supplied to the Buyer under this Agreement shall be in lieu of supply of RLNG.
- 3) Title and risk of RLNG or swapped natural gas, to be supplied to the Buyer hereunder, shall pass from SNGPL to the Buyer at the Delivery Point i.e. the point or points at which the inlet flange of the Buyer's pipelines meet the pipeline of SNGPL at a billing meter orifice/ultrasonic meter, or such other point or points at or near the boundary of the facility, as may be agreed in writing by the Buyer and SNGPL.
- 4) RLNG and/or swapped natural gas supplied by the Seller to the Buyer shall be measured at the metering station installed at the Delivery Point. Such metering station, consisting of orifice or ultrasonic meter, flow computer and online chromatograph, shall be calibrated by the Seller, in the presence of Buyer, on a monthly basis, or at an interval mutually agreed by the Parties. Any calibration error shall be corrected and the same beyond 4/- 1% of true value shall be adjusted in the subsequent invoice.
- The Buyer shall make payment of RLNG, or swapped natural gas supplied in lieu thereof, by SNGPL in accordance with the RLNG price as determined by Oil and Gas Regulatory Authority ("OGRA") from time to time (the "Notified Price"); and in case there is any delay in determining the price of RLNG by OGRA, the price intimated by PSO to OGRA for its onward determination would be considered provisional pricing used for billing and payment purposes until final price determination by OGRA, subject to any future adjustment upon issuance of delayed price determination.
- 6) The Seller shall raise bill for supplies made under this Agreement to the Buyer every seven (7) days ("Billing Cycle") and the Buyer shall make all payments pursuant to such bill within three (3) days of issuance of such bill. All such bills of the Seller will be paid without any deduction or set off or adjustment; provided however, the Buyer shall have the right to dispute any bill after full payment of the same and the dispute shall be resolved in accordance with the provisions of relevant clause of this Agreement.
- 7) If the payment of any bill rendered by the Seller to the Buyer is not made within three (3) days from the date of issuance of invoice, the Buyer shall pay delayed payment charges to the Seller at the rate of one (1) month KIBOR plus two percent (2%) ("Delayed Payment Charges") from such date up to (but not including) the date when payment is made by the Buyer.
- The Buyer shall provide to the Seller Security Deposit in the form of cash or standby letter of credit ("SBLC") before or at the time of signing of this Agreement for the amount of Rs. 2.087 Billion (Pakistan Rupees Two Billion and Eighty Seven Million) equivalent to 15 days RLNG supplies of 100 MMCFD. In the event that the Buyer fails to pay any due amount to the Seller within due date (i.e. 7+3 days), the Seller reserves the right to encash the SBLC and/or adjust the cash security as the case may be, and may suspend RLNG supplies without any notice. In such an eventuality, RLNG supplies shall only be recommenced subject to clearance of all outstanding dues and replenishment of SBLC/ Cash Deposit. The Buyer undertakes to pay to the Seller all arrears payable prior to the execution of this agreement in respect of system gas on urgent basis.
- 9) The Security Deposit shall (i) be maintained during the term of this Agreement; and (ii) the amount of the Deposit may be reviewed from time to time with the first review to take place on the expiry of three (03) months after the provision of the Security Deposit. Provided that the aforesaid review shall only take place if there has been a variation of +/- 10% of RLNG Tariff notified by OGRA from the

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previous review. For avoidance of doubt, the amount of Security Deposit shall be adjusted proportionately to the variation in the RLNG Tariff; provided that there has been a variation of at least +/- 10% of the RLNG Tariff notified by OGRA from the previous review and any variation less than +/- 10% shall not lead to adjustment of amount of Security Deposit.

- 10) In the event of draw down of the Security Deposit by the Seller, the Security Deposit shall be replenished to the original amount before recommencement of RLNG supplies. There shall be no obligation to supply RLNG/swapped gas in lieu thereof, unless a Cash Deposit / SBLC of the amount centemplated herein is in place.
- 11) The Agreement shall be governed by the laws of Pakistan.
- 12) In the event of a dispute arising pursuant to the provisions of this Agreement, which remained unresolved by mutual discussion, the Parties shall settle such dispute in accordance with the provisions of Arbitration Act, 1940 as amended from time to time by two arbitrators, one to be appointed by each party, at Lahore.
- 13) This Agreement shall be deemed to have come into force and effect from the date of first supply of RLNG/ swapped gas in lieu thereof ("Effective Date").
- 14) This Agreement shall be valid for a period of one (1) year from the Effective Date or for any extended period as mutually agreed by the Parties in writing. This agreement may be replaced with the Gas Supply Agreement to be entered into by the Parties within a period of one (1) year or any extended period, as mutually agreed by the Parties, from the Effective Date.
- 15) This Agreement shall supersede the Interim RLNG Supply Agreement already executed between the Parties on 21 April, 2017. The Parties hereby acknowledge and agree that all the liabilities accrued and to be accrued at or before the Effective Date of this Agreement shall be covered / dealt with in accordance with the terms of this Agreement.
- 16) This Agreement shall be executed in two (2) counterparts; one to be retained by each Party and the each instrument shall be considered as original and duly executed between the Parties.

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)	NORTHERN POWER GENERATION COMPANY LIMITED
Ву:	Ву:
Name:	Name: ALIASCHBR
Title:	Title: UED, NPGLL
Date:	Date: 10-05-2-578
Witnesses:	Witnesses:
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#### INTERIM RUNG SUPPLY AGREEMENT

THIS AGREEMENT is made at Labore on the \_\_\_\_\_ day of \_\_\_\_\_, 2018.

#### BY AND BETWEEN

Sul Northern Gas Pipelines Limited, a public limited company incorporated under the laws of Pakistan and having its office at Gas House, 21 Kashmir Road, Lahore, Pakistan (hereinafter referred to as the "Seller" or "SNGPL" which expression shall, where the context so admits, mean and include its successors in interest and assigns) of the first part;

#### AND

Northern Power Generation Company Limited, a company incorporated under the laws of Pakistan that is owned by the Government of Pakistan and having its registered office at WAPDA House Shahrah-e-Quaid-c-Azam Lahore, Pakistan (hereinafter referred to as "Buyer", which expression shall, where the context so admits, mean and include its successors in interest and permitted assigns) of the second part;

(SNGPL and Buyer collectively referred to as "Parties" and individually as "Party")

#### RECITALS

- A. The Buyer owns and operates, among others, the installed power generation facility of 144 MW (derated 117 MW) at Faisalabad, Province of Punjab, Pakistan ("GTPS Faisalabad"), which is operated on various fuels including the Natural Gas and High Speed Diesel. There is shortage of the gas in the system. The above mentioned capacity can be better utilized by improving supply of the fuel with certainty.
- B. Due to shortage of natural gas in Pakistan, the Government of Pakistan ("GOP") is importing Regasified Liquefied Natural Gas ("RLNG") to meet the local requirements, particularly of the gas based power plants. In this regard LNG Sale and Purchase Agreements have been executed by foreign supplier(s) with Pakistan State Oil Company Limited ("PSO") and/or other designated buyer (s) of the GOP. SNGPL is eventually the downstream buyer for onward transmission and distribution to the consumers.
- C. After considering the request of NPGCL, in line with its earlier approvals, National Electric Power Regulatory Authority ("NEPRA") allowed for immediate application of RLNG as alternative fuel vide determination dated 12<sup>th</sup> April 2018.
- D. The Parties acknowledge that the GOP has allocated to the Buyer 50 MMCFD (the "Buyer Allocation") pursuant to Ministry of Energy (Petroleum Division) letter dated 2<sup>nd</sup> May 2018.
- E. For the stated reasons, it is mandatory that the Gas Supply Agreement ("GSA"), on interim basis, should be executed with SNGPL, which is to supply RLNG being solely authorized and licensed to transmit and distribute gas in the north of Pakistan.
- F. Subject to the terms hereof Seller has agreed to supply up to <u>28 MMCFD RLNG</u> or any additional available quantity of RLNG or swapped natural gas on as and when available basis to the Buyer and the Buyer has agreed to purchase the same from Seller on the terms set forth herein.

NOW, THEREFORE, in consideration of the mutual benefits to be derived, the Parties have agreed to enter into this binding Interim Agreement, on the following terms and conditions:

The Seller shall supply up to <u>28 MMCFD</u> or any additional available quantity, of RLNG or swapped natural gas in lieu thereof on as and when available basis to the Buyer in accordance with the terms of this Interim Agreement. Gas specifications attached as Annexure "A".

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- 2) The Soller mix, sweep RUNCL with natural pay with "dark", at Zanczania, "oil and/or "arwani gas fields. Under the swap neotigement, initiaal pay supplied to the Buyer index this Agreement shull be in lieu of supply of RUNCL.
- At This and tick of IRI NO or awapped inhural gas, to be supplied to the Ruyer benounder, chall pass them NNOPL to the Ruyer at the Delivery Point is the point or point at a lifetithe infor though of the Puver's expedition uncertain popular of WOPL at a fulling moder orthogonal interests ingler, or such other points at or near the boundary of the firetity, we may be agreed in vertice by the Huyer and SNOPL.
- AN NO and or xwapped mineral gav supplied by the Soller to the Hayer shall be measured at the metering station, concluding of ordice or ultravoide meter, flow computer and online chromatograph, shall be calibrated by the Soller, in the prosence of Huyer, on a monthly basis, or at an interval immally agreed by the Parties Any calibration error shall be corrected and the same beyond 17-1% of true value shall be adjusted in the subsequent invoice.
- De Duver shall make payment of RENG or swapped natural gas supplied in few thereor, by SNGP in accordance with the RENG price as determined by Oil and Gas Regulatory Authority (\*\*OGRA\*\*) from time to time (the "Notified Price"), and In case there is any delay in determining the price of RENG by OGRA, the price infinited by PSO to OGRA for its onward determination would be considered provisional pricing used for billing and payment purposes until final price determination by OGRA, subject to any future adjustment upon becomes of delayed price determination.
- 6) The Seller shall raise bill for supplies made under this Agreement to the Buyer every seven (7) days ("Billing Cycle") and the Buyer shall make all payments pursuant to such bill within three (3) days of issuance of such bill. All such bills of the Seller will be paid without any deduction or set off or adjustment; provided however, the Buyer shall have the right to dispute any bill after full payment of the same and the dispute shall be resolved in necordance with the provisions of relevant clause of this Agreement.
- 2) If the payment of any bill rendered by the Seller to the Buyer is not made within three (3) days from the date of issuance of invoice, the Buyer shall pay delayed payment charges to the Seller at the rate of one (1) month KIBOR plus two percent (2%) ("Delayed Payment Charges") from such date up to (but not including) the date when payment is made by the Buyer.
- The Buyer shall provide to the Seller Security Deposit in the form of cash or standby letters of credit ("SBLC") before or at the time of signing of this Agreement for the amount of Rs. 631 Million (Pakistan Rupees Six Hundred and Thirty One Million) equivalent to 15 days RLNG supplies of 28 MMCFD. In the event that the Buyer fails to pay any due amount to the Seller within due date (i.e. 7+3 days), the Seller reserves the right to encash the SBLC and/or adjust the cash security as the case may be, and suspend RLNG supplies without any notice. In such an eventuality, RLNG supplies shall only be recommenced subject to clearance of all outstanding dues and replenishment of SBLC/ Cash Deposit. The Buyer undertakes to pay to the Seller all arrears payable prior to the execution of this agreement in respect of system gas on argent basis.
- The Security Deposit shall (i) be maintained during the term of this Agreement; and (ii) the amount of the Deposit may be reviewed from time to time with the first review to take place on the expiry of three (03) months after the provision of the Security Deposit. Provided that the aforesaid review shall only take place if there has been a variation of 1/- 10% of RLNG Tariff notified by OGRA from the previous review. For avoidance of doubt, the amount of Security Deposit shall be adjusted proportionately to the variation in the RLNG Tariff; provided that there has been a variation of at least 1/- 10% of the RLNG Tariff notified by OGRA from the previous review and any variation less than 1/- 10% shall not lead to adjustment of amount of Security Deposit.

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- 10) In the event of draw down of the Security Deposit by the Seller, the Security Deposit shall be replenished to the original amount before recommencement of RLNG supplies. There shall be no obligation to supply RLNG/swapped gas unless a Cash Deposit / SBLC of the amount contemplated herein is in place.
- 11) The Agreement shall be governed by the laws of Pakistan
- 12) In the event of a dispute arising pursuant to the provisions of this Agreement, which remained unresolved by mutual discussion, the Parties shall settle such dispute in accordance with the provisions of Arbitration Act, 1940 as amended from time to time by two arbitrators, one to be appointed by each party, at Lahore.
- 13) This Agreement shall be deemed to have come into force and effect from the date of first supply of RLNG/ swapped gas in lieu thereof ("Effective Date").
- 14) This Agreement shall be valid for a period of one (1) year from the Effective Date or for any extended period as mutually agreed by the Parties in writing. This agreement may be replaced with the Gas Supply Agreement to be entered into by the Parties within a period of one (1) year or any extended period, as mutually agreed by the Parties, from the Effective Date.
- 15) This Agreement shall be executed in two (2) counterparts; one to be retained by each Party and the each instrument shall be considered as original and duly executed between the Parties.

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)	NORTHERN POWER GENERATION COMPANY LIMITED
Ву:	By: A
Name:	Name: AL) ASGHAR
Title:	Tille: LEO MPGCL
Date:	Date: 10-05-2-018.
Witnesses:	Witnesses:
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#### INTERIM RING SUPPLY AGREEMENT

THIS AGREEMENT is made at Lahore on the _	day of	, 2018.
BY AND BETWEEN		
Sul Northern Cas Pipelines Limited, a public and having its office at Gas House, 21 Kashmi "Seller" or "SNGPL" which expression shall, wh in interest and assigns) of the first part;	ir Road, Lahore, Pakis	stan (hereinafter referred to as the
AND		
Northern Power Generation Company Limited is owned by the Government of Pakistan and he Quaid-e-Azam Lahore, Pakistan (hereinaster rescontext so admits, mean and include its successors	aving its registered offerred to as "Buyer",	fice at WAPDA House Shahrah-e- which expression shall, where the
(SNGPL and Buyer collectively referred to as "Par	ties" and individually a	ıs "Party")
RECITALS -		
A. The Buyer owns and operates, among oth (derated 1184.54 MW) at Muzaffargarh, which is operated on various fuels including	Province of Punjab,	Pakistan ("TPS Muzaffargarh"),

- There is cut in supply of HSFO while shortage of the gas in the system. The above mentioned capacity can be better utilized by improving supply of the fuel with certainty.
- Due to shortage of natural gas in Pakistan, the Government of Pakistan ("GOP") is importing Regasified Liquefied Natural Gas ("RLNG") to meet the local requirements, particularly of the gas based power plants. In this regard LNG Sale and Purchase Agreements have been executed by foreign supplier(s) with Pakistan State Oil Company Limited ("PSO") and/or other designated buyer (s) of the GOP. SNGPL is eventually the downstream buyer for onward transmission and distribution
- After considering the request of NPGCL, in line with its earlier approvals, National Electric Power C. Regulatory Authority ("NEPRA") allowed for immediate application of RLNG as alternative fuel vide determination dated 12th April 2018.
- D. The Parties acknowledge that the GOP has allocated to the Buyer 200 MMCFD (the "Buyer Allocation") pursuant to Ministry of Energy (Petroleum Division) letter dated 2nd May 2018.
- For the stated reasons, it is mandatory that the Gas Supply Agreement ("GSA"), on interim basis, E. should be executed with SNGPL, which is to supply RLNG being solely authorized and licensed to transmit and distribute gas in the north of Pakistan.
- F. Subject to the terms hereof Seller has agreed to supply up to 200 MMCFD RLNG or any additional available quantity of RLNG or swapped natural gas on as and when available basis to the Buyer and the Buyer has agreed to purchase the same from Seller on the terms set forth herein.

NOW, THEREFORE, in consideration of the mutual benefits to be derived, the Parties have agreed to enter into this binding Interim Agreement, on the following terms and conditions:

- The Seller shall supply up to <u>200 MMCFD RUNG</u>, or any additional available quantity, of RUNG or swapped natural gas in lieu thereof on as and when available basis to the Buyer in accordance with the terms of this Interim Agreement. Gas specifications attached as Annexure "A".
- The Seller may swap RLNG with natural gas with SSGC, at Zamzama, Sui and/or Sawan gas fields.
  Under the swap attangement, natural gas supplied to the Buyer under this Agreement shall be in lieu of supply of RLNG.
- 3) Title and risk of RLNG or swapped natural gas, to be supplied to the Buyer hereunder, shall pass from SNGPL to the Buyer at the Delivery Point i.e. the point or points at which the inlet flange of the Buyer's pipelines meet the pipeline of SNGPL at a billing meter orifice/ ultrasonic meter, or such other point or points at or near the boundary of the facility, as may be agreed in writing by the Buyer and SNGPL.
- 4) RLNG and/or swapped natural gas supplied by the Seller to the Buyer shall be measured at the metering station installed at the Delivery Point. Such metering station, consisting of orifice or ultrasonic meter, flow computer and online chromatograph, shall be calibrated by the Seller, in the presence of Buyer, on a monthly basis, or at an interval mutually agreed by the Parties. Any calibration error shall be corrected and the same beyond +/- 1% of true value shall be adjusted in the subsequent invoice.
- 5) The Buyer shall make payment of RLNG, or swapped natural gas supplied in lieu thereof, by SNGPL in accordance with the RLNG price as determined by Oil and Gas Regulatory Authority ("OGRA") from time to time (the "Notified Price"); and in case there is any delay in determining the price of RLNG by OGRA, the price intimated by PSO to OGRA for its onward determination would be considered provisional pricing used for billing and payment purposes until final price determination by OGRA, subject to any future adjustment upon issuance of delayed price determination.
- 6) The Seller shall raise bill for supplies made under this Agreement to the Buyer every seven (7) days ("Billing Cycle") and the Buyer shall make all payments pursuant to such bill within three (3) days of issuance of such bill. All such bills of the Seller will be paid without any deduction or set off or adjustment; provided however, the Buyer shall have the right to dispute any bill after full payment of the same and the dispute shall be resolved in accordance with the provisions of relevant clause of this Agreement.
- 7) If the payment of any bill rendered by the Seller to the Buyer is not made within three (3) days from the date of issuance of invoice, the Buyer shall pay delayed payment charges to the Seller at the rate of one (1) month KIBOR plus two percent (2%) ("Delayed Payment Charges") from such date up to (but not including) the date when payment is made by the Buyer.
- The Buyer shall provide to the Seller Security Deposit in the form of cash or standby letter of credit ("SBLC") before or at the time of signing of this Agreement for the amount of Rs. 4.173 Billion (Pakistan Rupees Four Billion One Hundred and Seventy Three Million) equivalent to 15 days RLNG supplies of 200 MMCFD. In the event that the Buyer fails to pay any due amount to the Seller within due date (i.e. 7+3 days), the Seller reserves the right to encash the SBLC and/or adjust the cash security as the case may be, and may suspend RLNG supplies without any notice. In such an eventuality, RLNG supplies shall only be recommenced subject to clearance of all outstanding dues and replenishment of SBLC/ Cash Deposit. The Buyer undertakes to pay to the Seller all arrears payable prior to the execution of this agreement in respect of system gas on urgent basis.
- 9) The Security Deposit shall (i) be maintained during the term of this Agreement; and (ii) the amount of the Deposit may be reviewed from time to time with the first review to take place on the expiry of three (03) months after the provision of the Security Deposit. Provided that the aforesaid review shall only take place if there has been a variation of +/- 10% of RLNG Tariff notified by OGRA from the

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previous review. For avoidance of doubt, the amount of Security Deposit shall be adjusted proportionately to the variation in the RLNG Tariff, provided that there has been a variation of at least +/- 10% of the RUNG Tariff notified by OGRA from the previous review and any variation less than +/- 10% e shall not lead to adjustment of amount of Security Deposit.

- 10) In the event of draw down of the Security Deposit by the Seller, the Security Deposit shall be replenished to the original amount before recommencement of RLNG supplies. There shall be no obligation to supply RLNG/swapped gas in lieu thereof, unless a Cash Deposit / SHLC of the amount contemplated herein is in place.
- 11) The Agreement shall be governed by the laws of Pakistan.
- 12) In the event of a dispute arising pursuant to the provisions of this Agreement, which remained unresolved by mutual discussion, which remained unresolved by mutual discussion, the Parties shall settle such dispute in accordance with the provisions of Arbitration Act, 1940 as amended from time to time by two arbitrators, one to be appointed by each party, at Lahore.
- 13) This Agreement shall be deemed to have come into force and effect from the date of first supply of RLNG/ swapped gas in lieu thereof ("Effective Date").
- 14) This Agreement shall be valid for a period of one (1) year from the Effective Date or for any extended period as mutually agreed by the Parties in writing. This agreement may be replaced with the Gas Supply Agreement to be entered into by the Parties within a period of one (1) year or any extended period, as mutually agreed by the Parties, from the Effective Date.
- 15) This Agreement shall be executed in two (2) counterparts; one to be retained by each Party and the each instrument shall be considered as original and duly executed between the Parties.

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)	NORTHERN POWER GENERATION . COMPANY LIMITED
By:	By: ASCHAD
Title:	Title: UED NP6 ((
Witnesses:	Witnesses:
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2.	2

Ref: GMS: 938 (LNG)

February 3, 2021

Chief Executive Officer
Northern Power Generation Company Ltd,
Thermal Power Station, MUZAFFARGARH

Atten: Plant Manager, CCPP, Nandipur Gujranwala

#### REVALIDATION OF INTERIM RING AGREEMENT

Dear Sir,

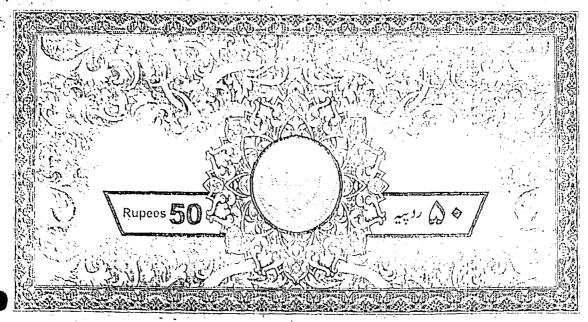
Reference your letter No. PM/NP/SNGPL/1635-37 dated 20.09.2019 regarding the subject cited above.

We are pleased to inform that OORA vide its letter No. OORA-9(459)/2017 dated 11.01.2021 has approved First Addendum to 2<sup>nd</sup> Interim RLNG Supply Agreement for supply of RLNG to Nandipur Power Plant.

One (1) set of Addendum in original, duly signed by SNGPL, is enclosed for your record. As per terms of the agreement NPGCL is requested to furnish requisite Security Deposit Rs. 2.087 Billion (i.e additional amount of Rs. 1.144 billion to make up requisite amount) in accordance with clause 8 of the Interim Agreement executed between SNGPL and Northern Power Generation Company Limited for ensuring RLNG supply per terms of Agreement.

Meanwhile, assuring you of our best services and cooperation at all times.

10 10 10 10 10 10 10 10 10 10 10 10 10 1		Yours faithfully, SUI NORTHERN GAS PIPELII	NES LIMITED
Siste 10-2-2021		MAJID HUSSAI	N Office of the FD. N
MPGCL (GENCO-III) TPS. Muzaifaryarh	FD /	General Manager (BD-Cofor MANAGING DIR	ECTOR M.F (CA)
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208for/2)	)	Ps discuss & 10	Jahan.
Telaphones Exch: (+(92-42)0		Fax: 042.99201209 www.angpl.com.ph	UKS (\$)



NOW, THEREFORE, In consideration of the mutual benefits to be derived the Parties hereby enter into this First Addendum to the Agreement and intending to be legally bound and the Seller and the Buyer hereby agree as follows:

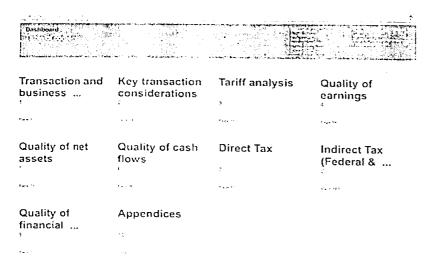
1) Clause 14 of the Agreement shall be amended to read as follow:-

#### "This Agreement shall be valid till execution of detailed RLNG Supply Agreement between the Parties".

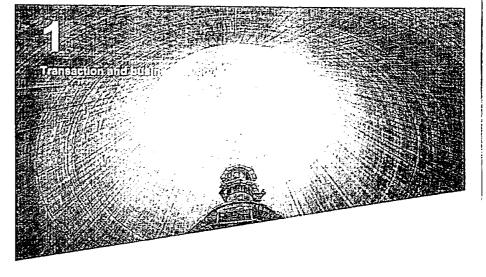
- This Addendum shall come into force with effect from the date of expiry of 2<sup>nd</sup> 2) Interim RLNG Supply Agreement and shall be construed as part of the Agreement.
- 3) The Parties hereby acknowledge and agree that the execution of this Addendum shall be limited only to the extent of amendment in Clause 14 of the Agreement and shall have no bearing on the remaining terms and conditions of the Agreement executed earlier between the Parties, which shall remain unchanged.
- 4) This Addendum shall be signed in two (2) counterparts; one (1) to be retained by each Party and each instrument shall be considered as original and duly executed between the Parties.
- IN WITNESS WHEREOF, the representatives of the Parties being duly authorized hereto have signed, sealed and stamped these presents on the day, month and year first mentioned herein above.

SUI NORTHERN GAS PIPELINES	NORTHERN POWER GENERATION
L1MITED (SNGPL)	COMPANY LIMITED
Ву:	By: Stury A
Name: AMER TUFAIL	Name: Sabeel 112 Faman Farangi ( 1800) E
Title: MANASias DIRECTOR	Title: Chief Executive Office Journal
Date:in	Date:in
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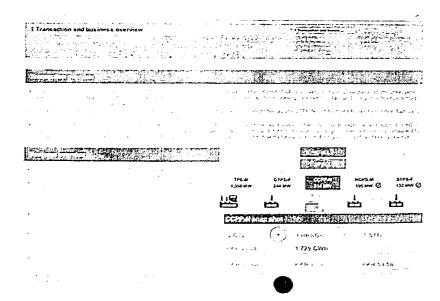
## **DUE DILIGENCE REPORT**

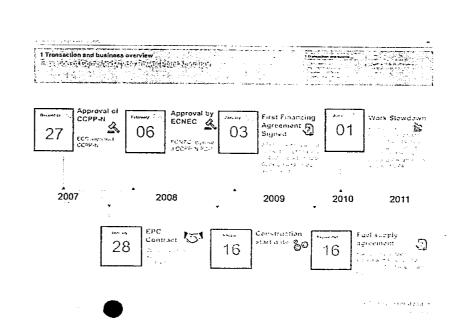


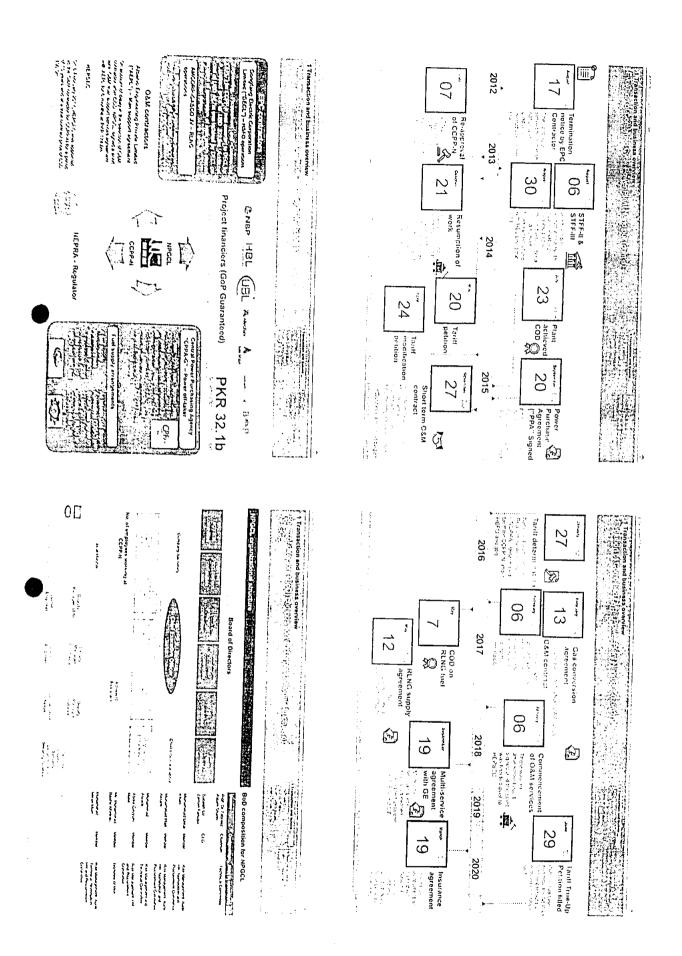
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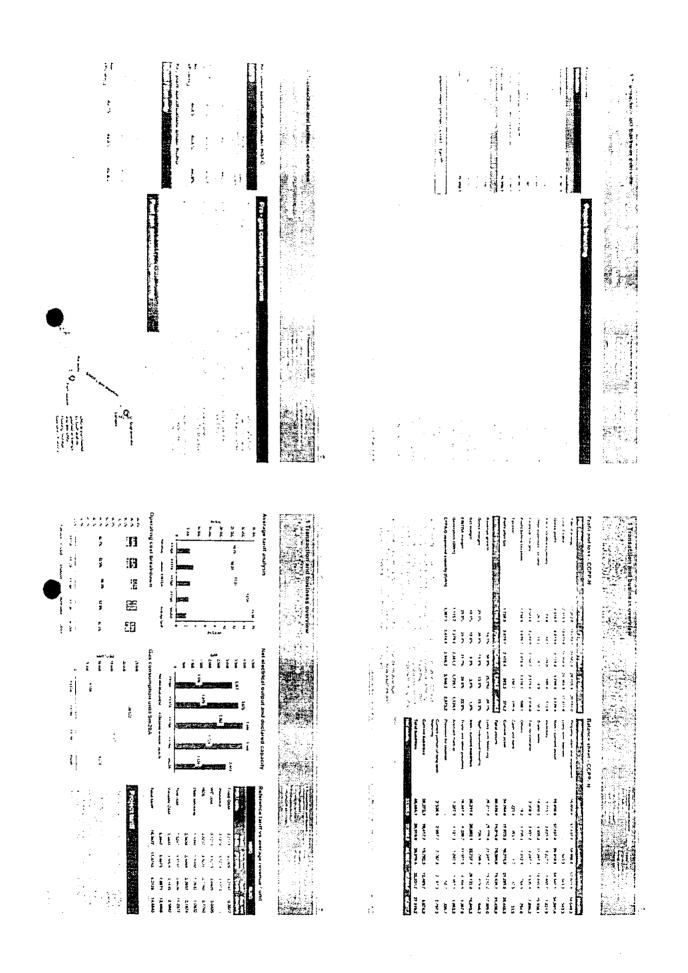


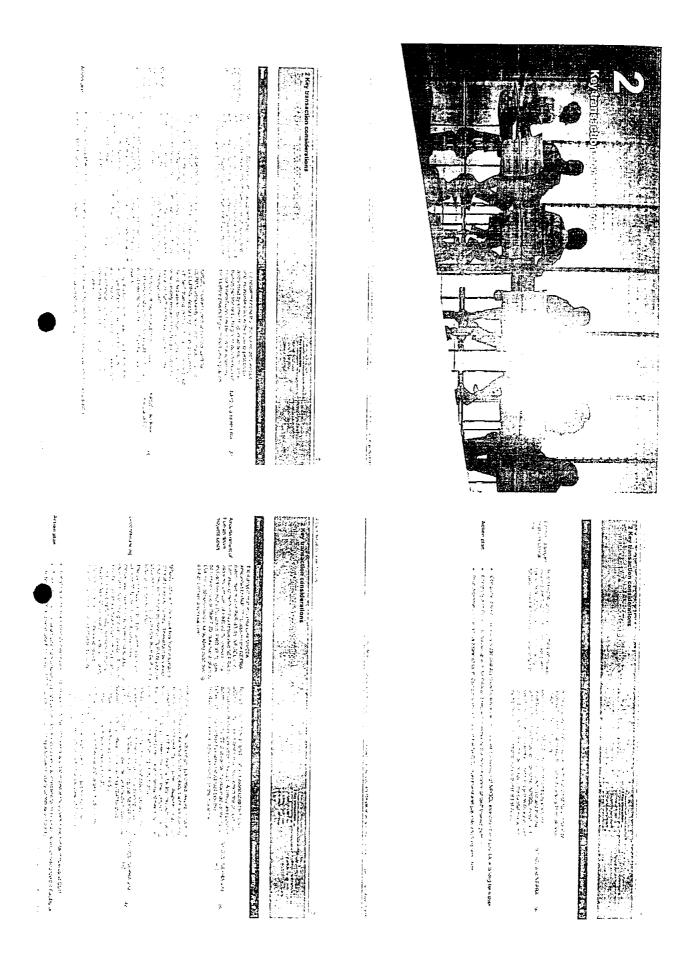
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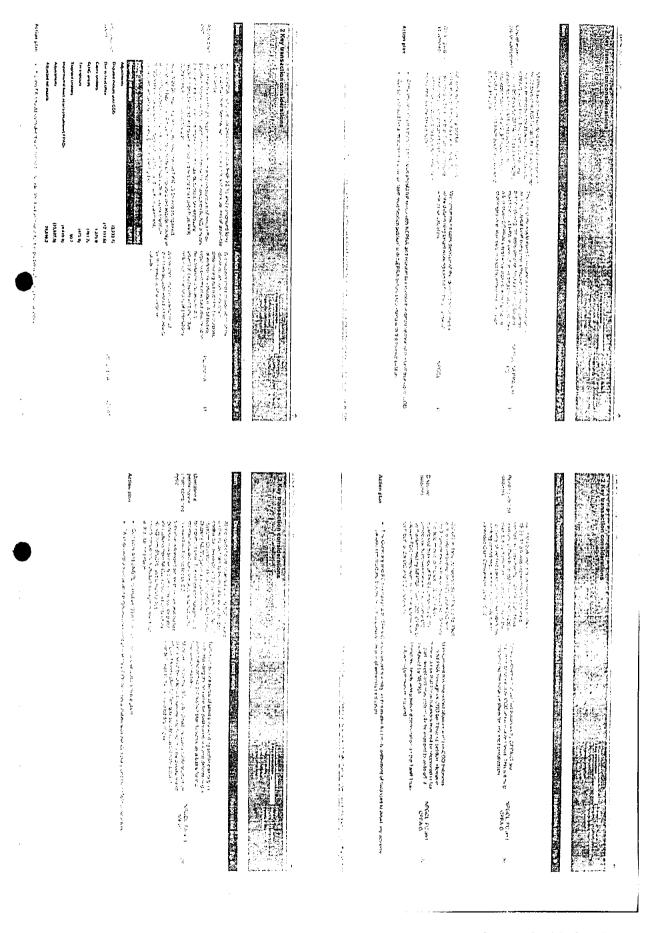








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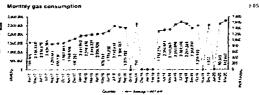
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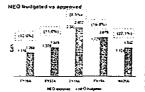


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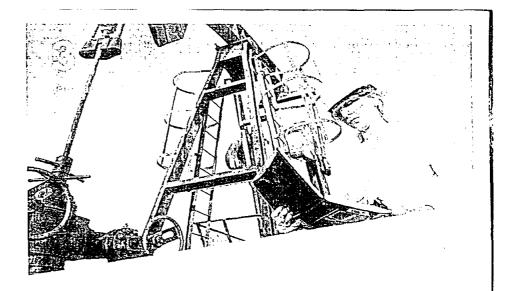
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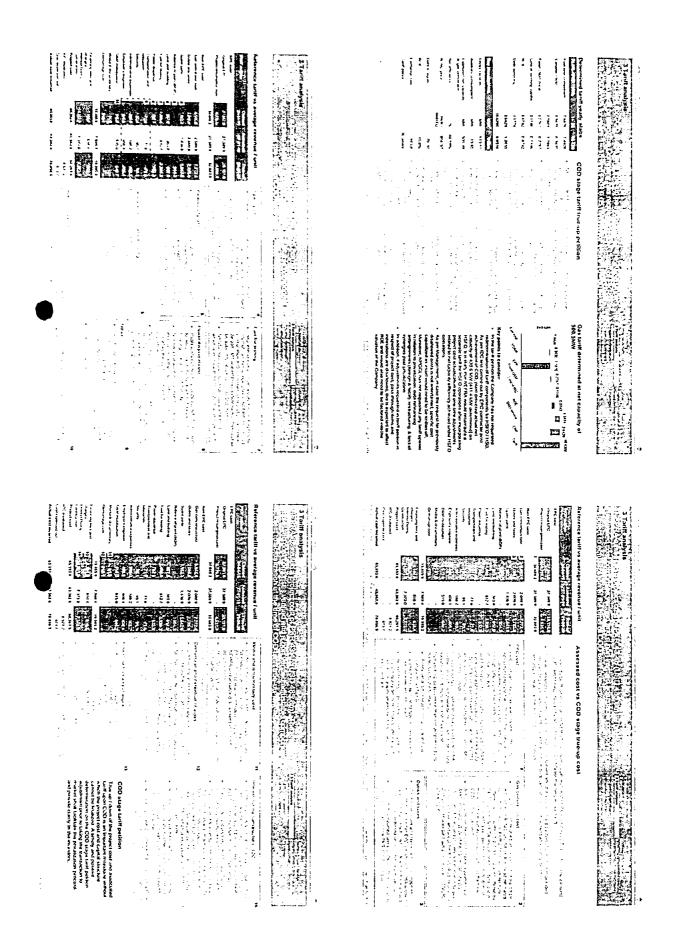
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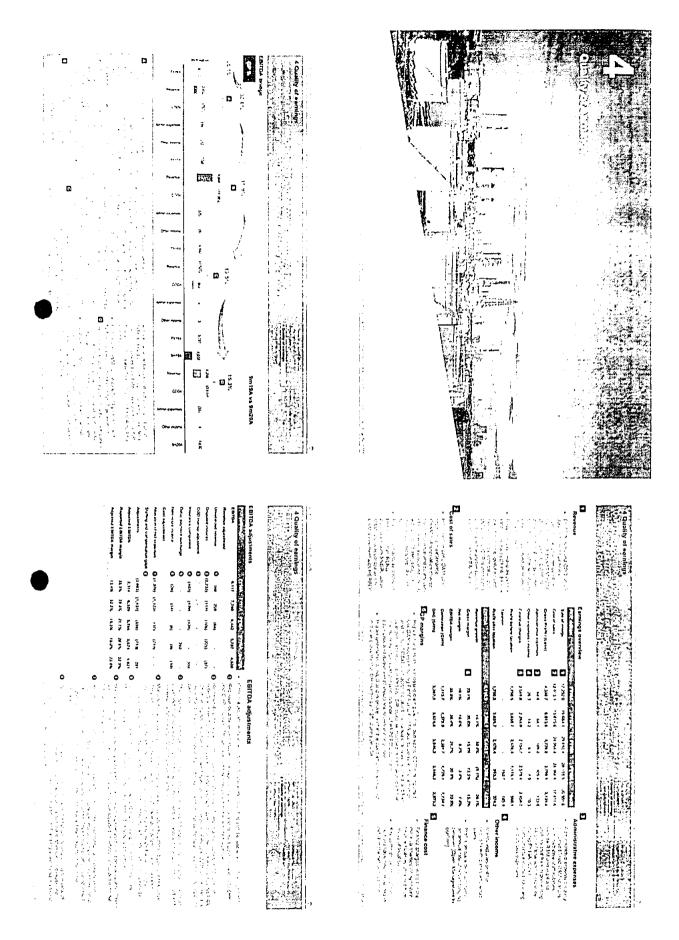


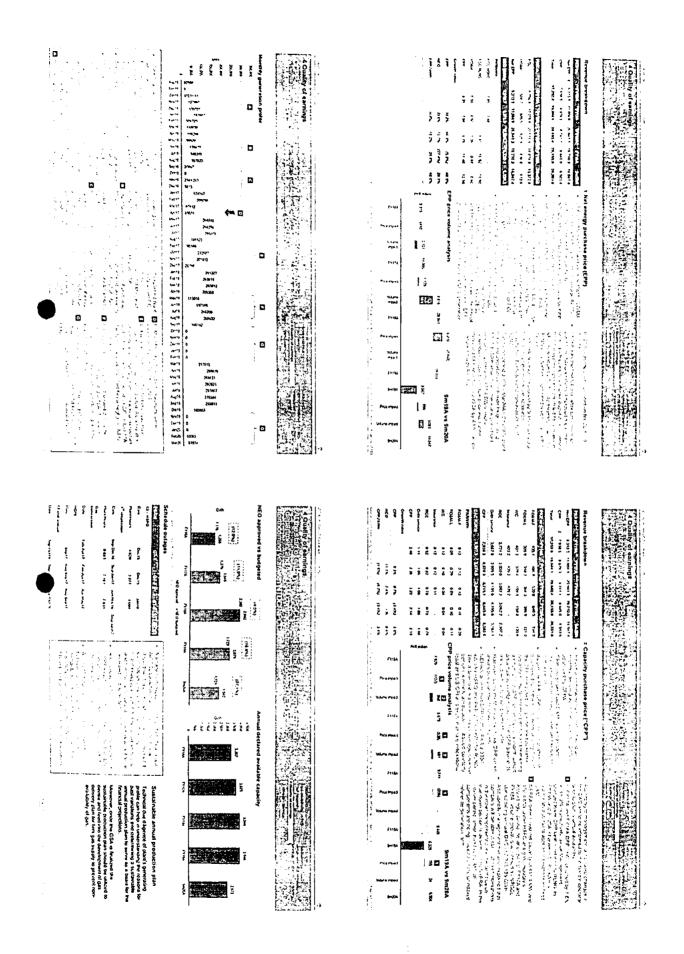
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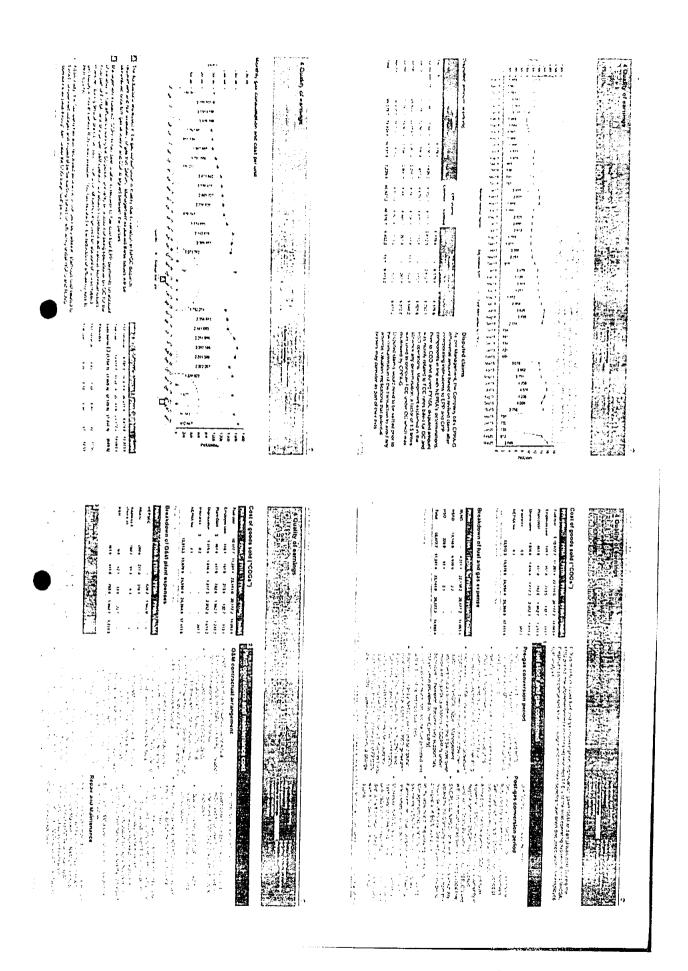
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#### Employee cost

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#### Human resource function

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Administrative appearant



#### Budgeted vs actual earnings summary - FY16A

Net pereroses (GMH)	1,364	1,114	(152)	(12.5%)
NP BLESH	7.6%	10 15.	2.5%	
Net profe	1,263	1,721	444	24.5%
Taurius	•			
Printery M	2,166	2 500	-	. %
C)Bare increase	-		>6	٠.
Operating expenses	754	1.50	-	1.8%
Fuel Cast	10,497	10 413	19	474
	10,075	17,357	327	27%
Abri autos		9477/33	128	473.8

-				1,263	1,721		444	34.37
-				7.64	10 Ft.		234	
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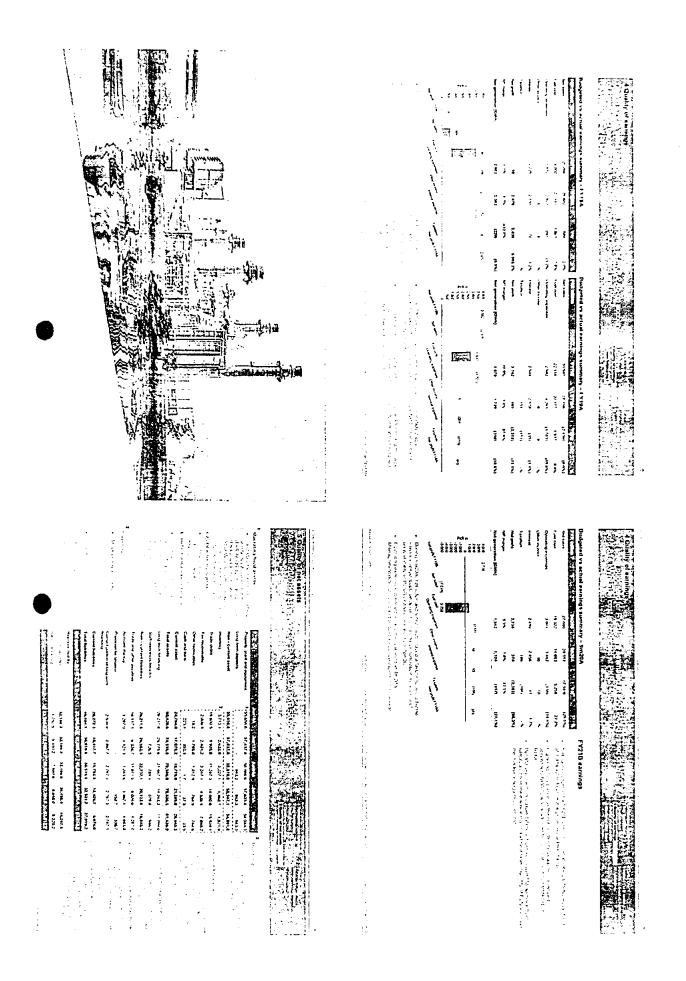
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#### Budgeted vs actual earnings summany. CVSTA

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	Part reason	145	1445	307.4%	
ŧ	and developed Kincel	1,546	1,379	(170)	(11,8%)
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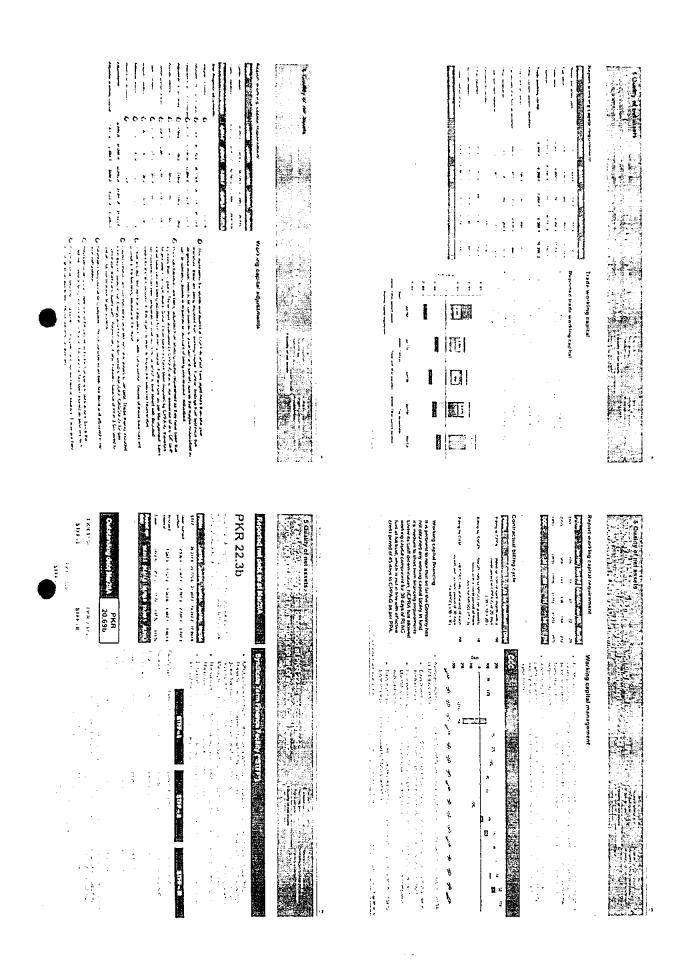
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PKR 46.7b

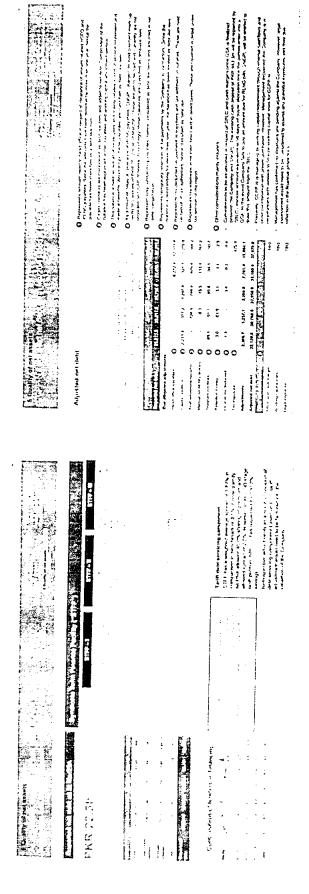
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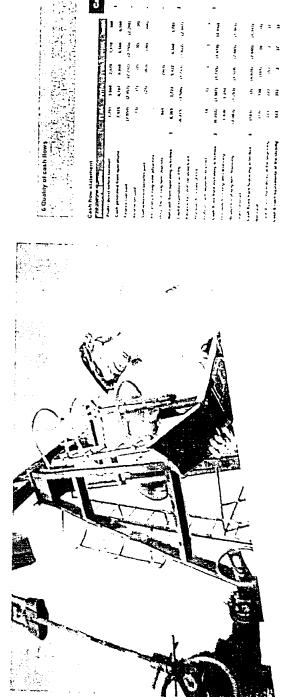
# PKR 15.9b Other current liabilities SHIVE ITTHE BATHE CLITE

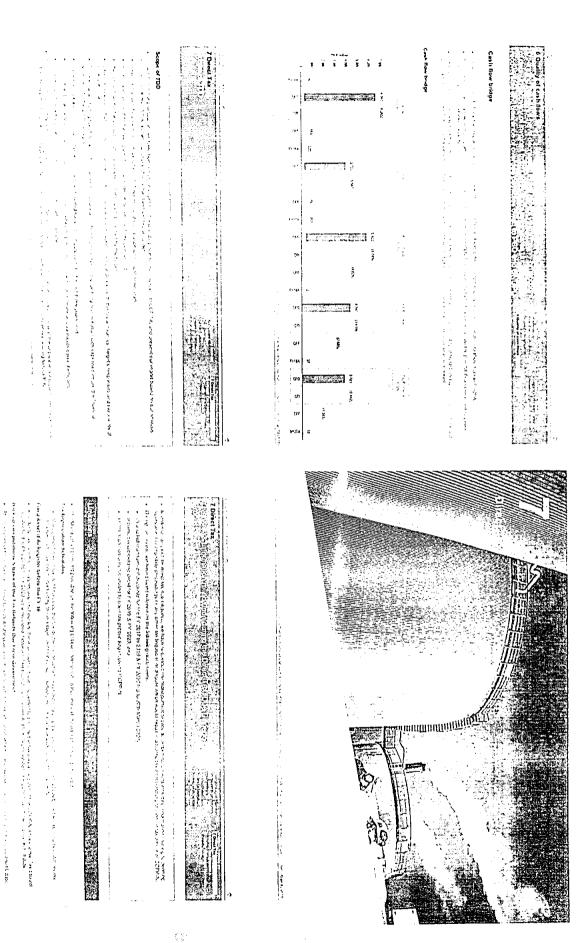


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# The provisions - FY 2016 to 2010 & FY 2020 (up to March 2020)

# Admissibility of tax credit is conditional

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Minimum to (g. 1% 1% 1.25%) 25% 1.25%	173	197	371	352	30
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7 Direct Tax	A Company of the Comp	

## Key considerations for reviewing the compliance with tax withholding provisions

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Less Amounts that may not be subject to IT WHT	 	
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Francia cost	 (2.575)	(2,456)
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	 	1,3451
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Depression	 , 2 04.7 1	,1 614
1 Tatas	 24.44	(19,413)
Remarking amount that may be subject to IT WHY	 3754	1,310
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# PKR 188m

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	2.74.7				.7%	
Cocce	1 316	42	53	250	4%	10
S	131€	و٠.	105	252	8**	20
Total	2.031		158	365		30

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- Key assumption to compute tay expenses on account of non-withholding / shortwithholding
- We understand that following payments may not attract WHT provisions of PLOT 2001:
- · Payments made on account of fuel stock and gas consumption;
- Payments made to approved universent plans.
- . I mance cost incurred during the year,
- Income taxes noid as ner Cash Flow
- Depreciation expense bring non-cash item

	<u> </u>					
	4.74.7		3.00		-275	
Locos	1 316	42	53	252	4%	10
	13:€	er.	105	252	8**	20
Total	2,639		158	565		30

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fram; funt & towners	57.436	54.847	37.664	Ş4 (419
Tap Rate				
Pricery Park & Contract	22.324	26,516	25 A53	21.221
Terabia temporary arteraras (TTD;	28.911	21,951	32,151	36,626
Enducate Temperary Commences (CTO): United Tax Linears	14,849	16,121	18,402	19,729
Cortesanca DTL as par forancia statumanta	12,563	15,830	13,749	11,699
DTL unconstated				3,215

# PKR 3.216m

## Deferred lax Hability

The management has not recorded any Deferred Tax Liability or Asset (DTUDTA) in the unauditor management accounts of CCPP-N. However, we understand that deferred tax hebity will arise due to deductible temporary differences.

If is partitional to mention here that according to the provisions of Cl. 122, Part I, 2nd Sch to the ITO 2001, profit & gains derived by a lappayer from an electric power generation project salup in Pakistan on or after the 1st day of July, 1988 is exempt from scome tar, subject to the condeon interests that it is not formed by the splitting up, of the reconstruction or reconstruction, of a business strengy in existence, however, the aloresaid condition is not appricable where electric power generation project formed by the spelling up, or the reconstruction of the reconstitution of an existence and avalling exemption uniter this dayes.

Keeping in view of allowe, in case of carwing out of CCPP-N, the aloresand examplion may not be available due to the fact that a may be treated as epideng up / reconstruction / reconstruitation of business obtainly in personne & NPGCL was not explore exception under the always of CL 132. to since of stone thought on the understand that CI 132 may not expend the temporary differences reliating to CCPP-N

# 7 Direct Tax 7 Direct Tax Service Codes Codes

# Object Control of the

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- Between the control of The second of th my of a compatible time.
- A little of the little of the many transfer and action of the CVT, which is not contained the CAPM 2015 in a minimistration of page of the factors of the property of the contract of After a constructe are

# Provide the provided by the control of the control

# PKR 143.5m

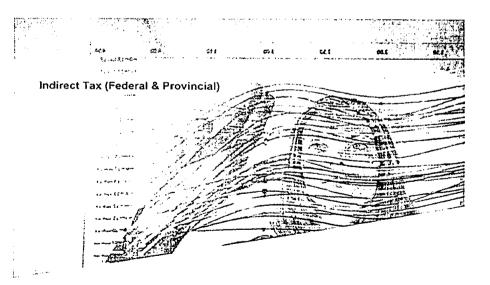
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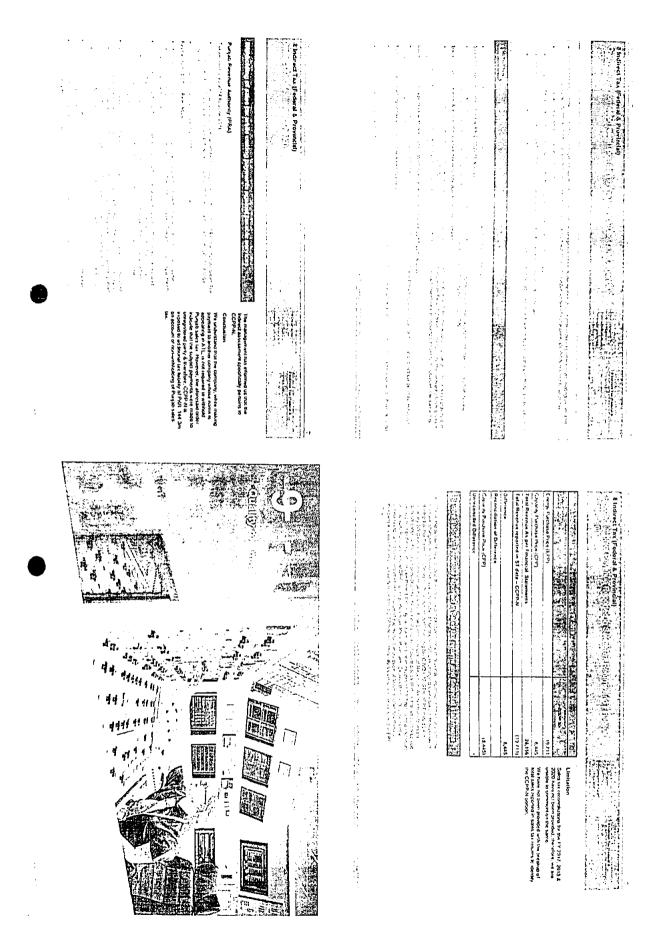
## Conclusion

We understand that every withholding agent making a payments in lut or part including a payment in lut or part including a payment by way of advance is required to deduct and depose shoome but by following the promisions of the ITO 2001, Further, we are of the view that the payments on account of cannot expenses are also subject to within provisions of the ITO' 2001 unless specific exemption is provided therein. Keeping this in view & on the basis of available information, we are in consonance with the treatment meted out by the taxation officer and therefore CCPP-N is exposed to tax liability of PKR, 143.5m.

However, it is imperative to highlight here that is case CCPP-N had withheld the income tax at the time of recording this as expenses, then the tax exposure would be limited to default surcharge under section 205 of the ITO' 2001, in such a acenario, the taxpayer can argue that it has available ST refunds and therefore the default surcharge u/s 205 of the IYO' 2001 may not be Abouthulass up have not been wided with any such information.

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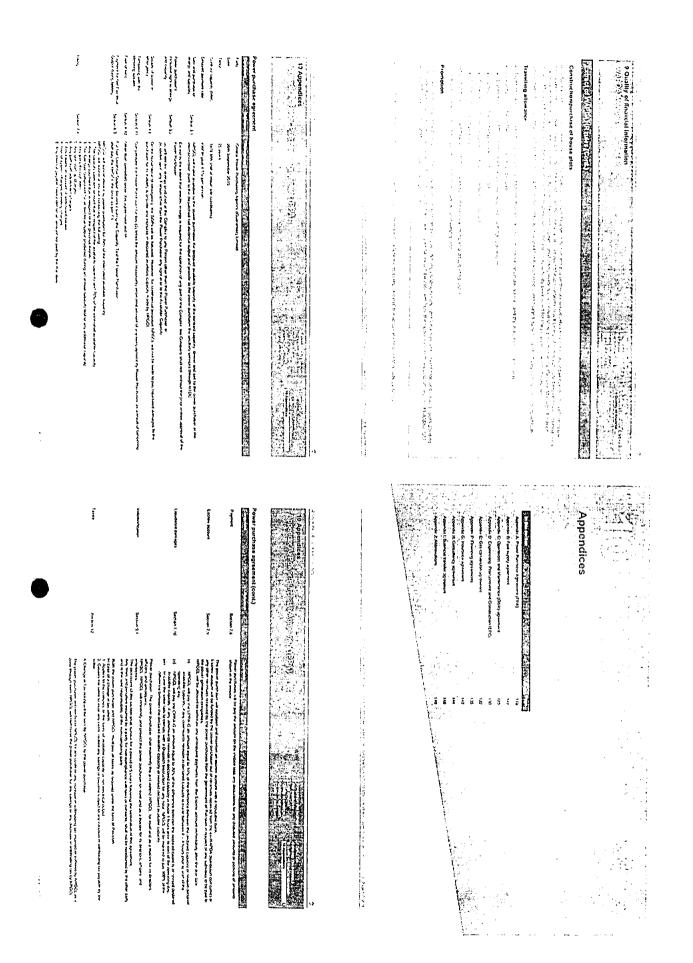
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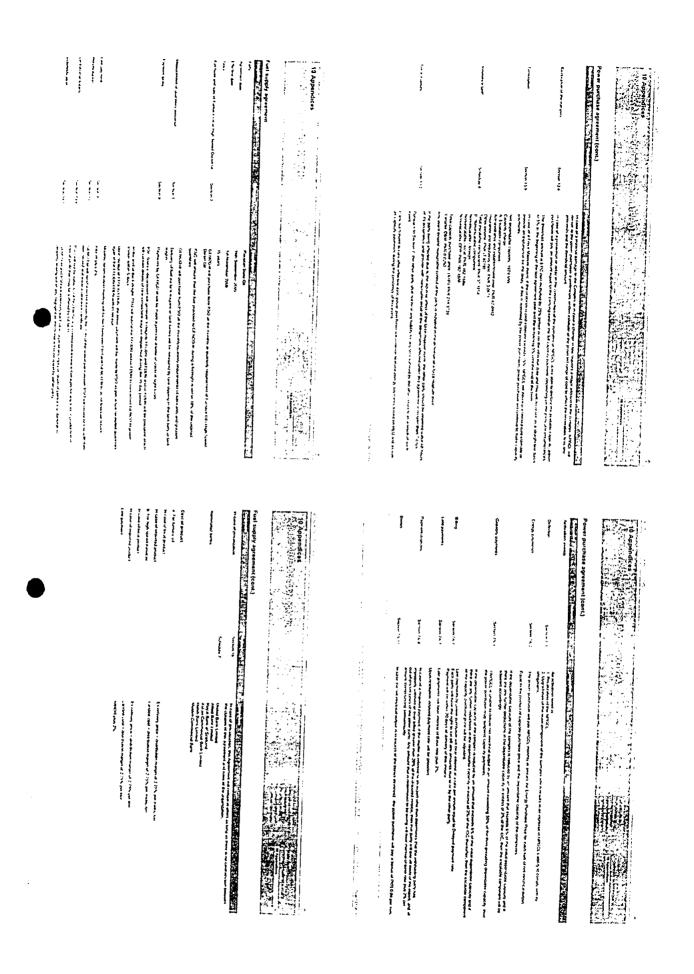
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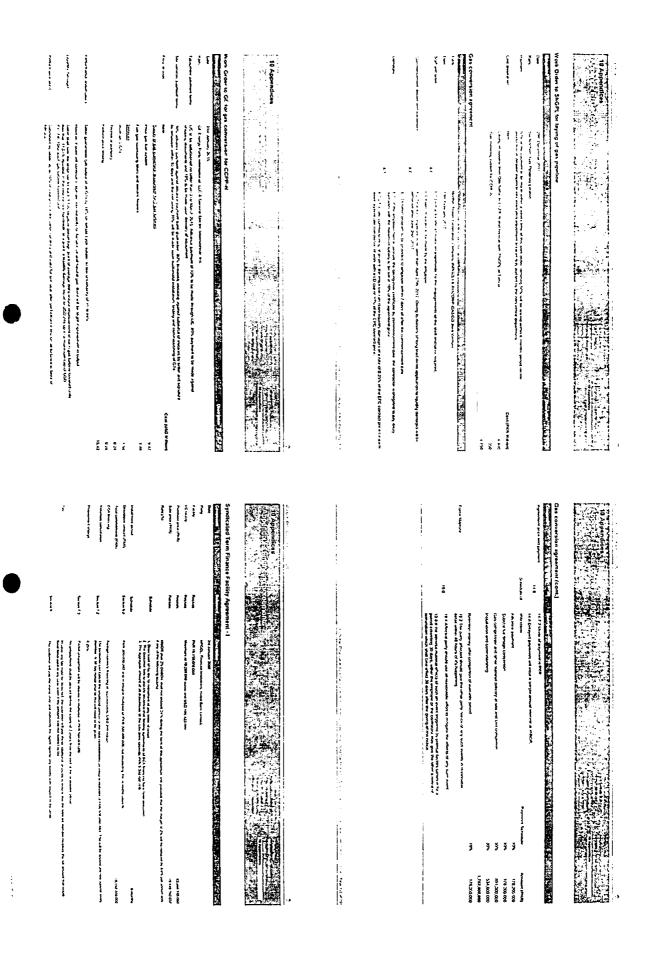
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# Syndicated Term Finance Facility Agreement — II

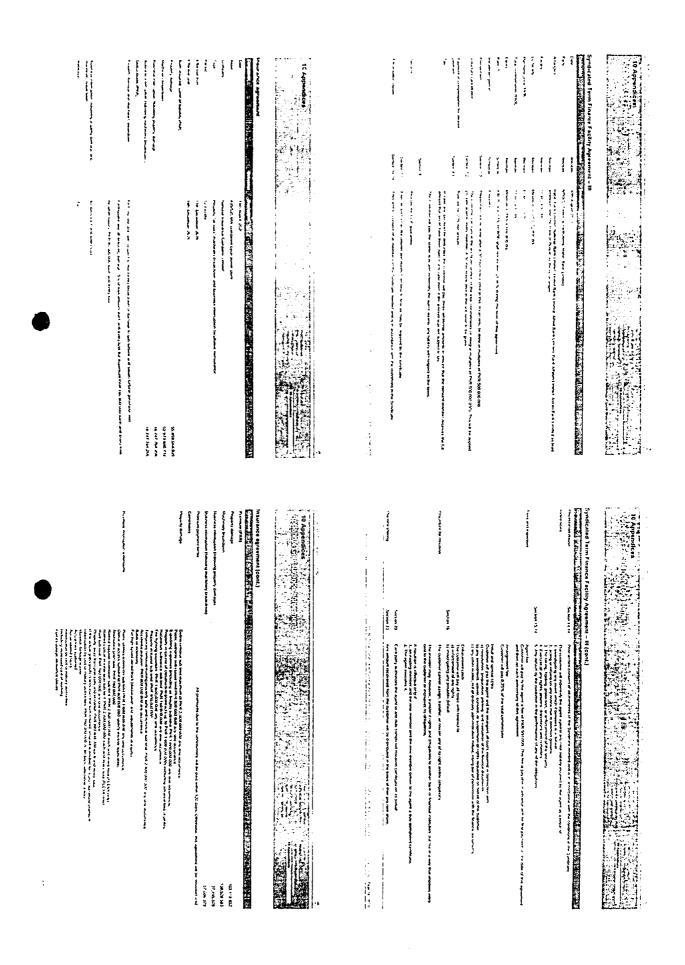
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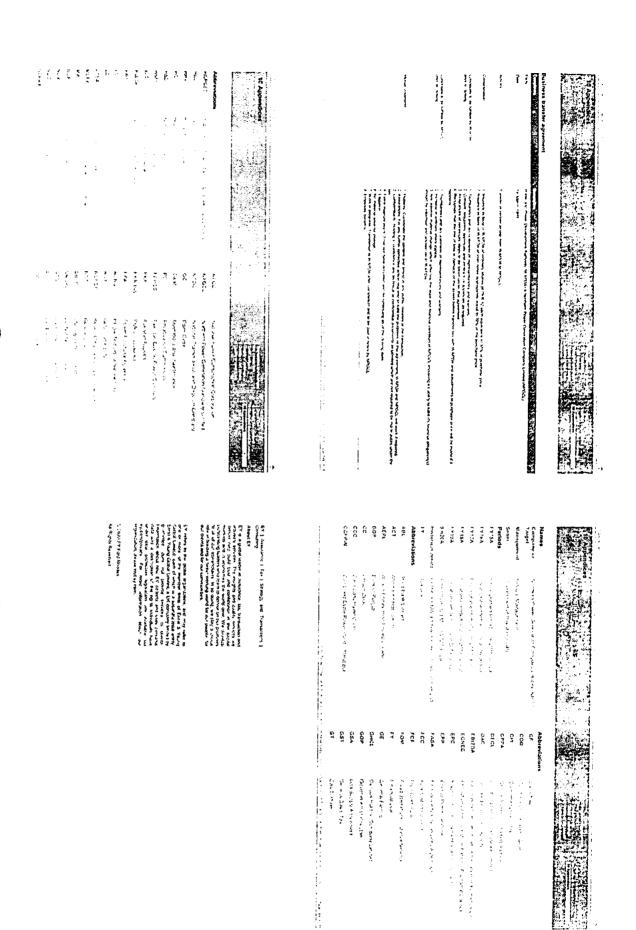
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# 10 Appendices

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# Appendix E (Form E-IV)

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# **OPERATIONAL RECORDS**

Year	Gross Generation KWH	Net Generation KWH	Efficinecy %	Availibility Factor %	Utilization Factor %	Load Factor %
2016-17	1,433,929,645	1,378,366,000	39.62	52.39	38.52	35.82
2017-18	2,463,947,345	2,381,701,000	43.95	88.44	61.15	53.47
2018-19	1,784,286,981	1,729,245,000	46.02	90.81	39.1	36.31
2019-20	1,527,659,779	1,475,569,000	46.87	95.31	33.38	32.15
2020-21	1,539,492,515	1,481,980,000	46.53	95.03	33.73	32.48

# INSTALLED AND DE RATED CAPACITY AND EXPECTED REMAINING LIFE

# INSTALLED CAPACITY AND DE RATED CAPACITY

Power Station	Unit Detail	Installed Capacity (MW)	De-Rated capacity (MW)	Auxiliary Consumption (% age of De Rated Capacity)	Net Capacity after Auxiliary Consumption (MW)
ССРР	Unit No. 1-3	366.30	331.51	2.419	323.49
Nandipur /Plant-III	Unit No. 4	199.35	182	2.747	177
// turk-iti	Total	565.65	513.51	2.53	500.49

# **EXPECTED USE FULL LIFE OF CCPP NANDIPUR**

	Expected useful life of the Generation	Unit No. 1	Unit No. 2	Unit No. 3	Unit No. 4
i.	Facility from Commercial Operation Date 23-07-2015	30 Years	30 Years	30 Years	30 ears
ii.	Expected Useful Life of the Generation Facility at the time of Modification III of Generation License May 05, 2018)	27 Years	27 Years	27 Years	27 Years
iii.	Expected Useful Life of the Generation Facility at the time of submitting application for the grant of separate Generation License 19-01- 2022	23 Years	23 Years	23 Years	23 Years

# **MAINTENANCE PLANS**

# SCHEDULE T: AGREEMENT PRICE AND PAYMENT TERMS

If the Complex operates on HSFO for longer than one year from the Comment Date, the Operator shall continue to receive fixed and Event Based If the Complex operates on HSLO for longer comment of the Contractor of the Operator shall continue to receive fixed and Event Based Payments applicable during the HFSO Payment period, however the Contractor of Case operations on Gas and from the date on which the Complex shall receive fixed and Event Based payments applicable to Gas operations Payments applicable during the Hrao rayment  $r_{\rm ayment}$  when the Complex is operating on Gas and from the date on which the  $c_{\rm omple_{\rm X}}$  starts operating on Gas.

The Revised Schedule of Prices attached with the Agreement as Annexure 'C' shall be read as an integral part of this Schedule T.

Notes:

Caps for Unplanned Maintenance:

As per Schedule-K.

Basis for Fee for Unplanned Maintenance:

Refer Clause 4.1.3.3 and Schedule-K.

Note on USD Payment:

All payment denominated in USD hereinabove shall be acknowledged in USD, but shall be paid to the Operator in equivalent PKR by applying the exchange

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# **PROJECT COST INFORMATION**

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# **PROJECT COST**

# **SOURCES AND AMOUNTS OF EUITY AND DEBT**

Equity Capitalized = 31,288.738 M. Rs

Debt from Local Banks' Syndicate = 32,118.290 M. Rs

Total Project Cost = 63,407.08 M.Rs

Note: The amount capitalized is as per Financial Statement year ended June 2021.

# TRAINING AND DEVELOPMENT

by the facility Completion Contractors, during the latent defects notification period under the relevant contract.

# 4.1.4 Deputation & Training

- 4.1.4.1 To ensure and Implement an exit strategy, the Operator shall induct twenty five Percent (25%) of its overall personnel requirement for the Operation & Maintenance of the Complex from the Owner's staff, which, shall be deputed by the Owner to Operator.
- 4.1.4.2 The Owner and the Operator shall jointly select the personnel to be deputed by the Owner to the Operator from a list of suitably qualified personnel prepared and submitted by the Owner, however, once a staff member has been deputed by the Owner to the Operator, the Owner shall not have the right to remove such member from the Operator's team without the prior written consent of the Operator, which shall not be unreasonably withheld.
- 4.1.4.3 Unless otherwise agreed to by the Owner, a deputed staff member shall serve on deputation with the Operator for a term of three (03) years provided however that such term for any individual deputed staff member may be extended for such period as the Owner and the Operator may mutually agree. The deputed staff member shall report to and be bound by the instructions of the Operator and shall be bound by the Operator's human resource policies including matters relating to work hours, discipline, reporting lines, promotion, demotions, holidays and leave.
- 4.1.4.4 The Operator shall have the right to repatriate such seconded staff back to the Owner if such deputed staff member merits dismissal in accordance with the Operator's human resource policy.
- 4.1.4.5 The Operator shall pay the seconded staff members their salary, benefits and any dues under labour laws or any other law at par with the Operator's similarly placed staff members, however, in the event of dismissal or retirement the Owner shall be fully responsible for all future payments due to the seconded staff member and shall indemnify and hold the Operator harmless from all claims, damages, losses and suits in relation to such seconded staff member.
- 4.1.4.6 The Operator shall ensure adequate training and development of such deputed staff members. Furthermore, the Operator shall

Operations and Maintenance Agreement

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ensure that at the end of the Term adequate numbers of the Owner's staff are trained to operate and maintain the Complex. Such training shall be provided at the Site and shall be for a period of no longer than two (2) months.

4.1.4.7 The Parties acknowledge that the Operator will be subcontracting part of the Works and therefore in order to comply with the provisions of this sub-clause the Operator shall procure that its subcontractor(s) employ the relevant members of the Owner's staff where required. In such an event all references to the Operator shall be read as the sub-contractor in this clause.

# 4.1.5 Safety or Alert Works

The Operator shall be responsible for and shall perform the Safety or Alert Works.

# 4.1.6 Parts, Consumables and Spare Parts

The Operator shall, at its own costs, be responsible for the procurement, transportation, delivery, supply and maintenance of all Parts and Consumables required to carry out the Works, other than Extra Works.

Prior to expiry of the Operating Period the Operator shall replenish all parts used and consumed from the Owner's Initial Spare Parts by the Operator. Such replenished parts shall be in as nearly as possible the equivalent condition as the Initial Spare Part when the Operator received it from the Employer.

# 4.1.7 Extra Works

The Operator shall perform the Extra Works in accordance with Section18 (Extra Works).

# 4.2 OPERATOR PERMITS

The Operator shall be responsible for obtaining and maintaining, at its own cost, all Operator Permits (whether within Pakistan or outside Pakistan). The Operator shall obtain all Operator Permits in reasonable time taking account of the Applicable Laws and the timelines set out in this Agreement for (i) performance of its obligations under this Agreement and (ii) the completion of the Works. The Owner shall provide all reasonable assistance to the Operator in the procurement of the Operator Permits in accordance with this Section 4.2, provided such assistance shall not

Operations and Maintenance Agreement

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