



National Electric Power Regulatory Authority Islamic Republic of Pakistan

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No. NEPRA/R/LAG-454/8052-57

May 25, 2022

Mr. Khurram Javaid
Chief Executive Officer
Mughal Energy Limited
31-A Shadman-I, Lahore

Subject: **Modification Generation Licence No. SGC/152/2021 (Modification-I)
Licence Application No. LAG-454
Mughal Energy Limited, (MEL)**

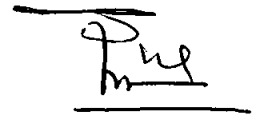
Reference: *MEL's LPM submitted vide letter No. MRL/LPM/IRM/10 dated 18.10.2021*

It is intimated that the Authority has approved Modification in Generation Licence No. SGC/152/2021 (issued on February 10, 2021) in respect of Mughal Energy Limited (MEL) pursuant to Section-26 of NEPRA Act read with Regulation 10(4) of NEPRA Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021.

2. Enclosed please find herewith determination of the Authority in the matter of Licensee Proposed Modification of MEL alongwith Modification-I in the Generation Licence No. SGC/152/2021, approved by the Authority.

Enclosure: As Above




25 05 22

(Syed Safer Hussain)

Copy to:

1. Secretary, Power Division, Ministry of Energy, 'A' Block, Pak Secretariat, Islamabad
2. Managing Director, National Transmission & Despatch Co. Ltd, 414-WAPDA House, Shakra-e-Quaid-e-Azam, Lahore
3. Chief Executive Officer, Central Power Purchasing Agency Guarantee Ltd. 73 West, A.K. Fazl-ul-Haq Road, Blue Area, Islamabad
4. Chief Executive Officer, Lahore Electric Supply Company (LESICO), 22-A, Queens Road, Lahore
5. Director General, Environmental Protection Department, Government of the Punjab, National Hockey Stadium, Ferozpur Road, Lahore

National Electric Power Regulatory Authority
(NEPRA)

Determination of the Authority
in the Matter of Licensee Proposed Modification in the
Generation Licence of Mughal Energy Limited

May 25, 2022
Case No. LAG-454

(A). Background

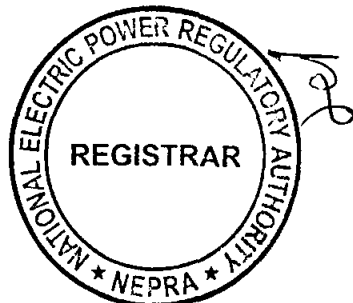
(i). The Authority granted a Generation Licence (No. SGC/152/2021 dated February 10, 2021) to Mughal Energy Limited (MEL) for its 55.00 MW local/imported coal based generation facility, located in tehsil & district Sheikupura, in the province of Punjab.

(ii). In consideration of the above, in its determination for the grant of the above licence, the Authority also allowed MEL for supplying to three (03) different Bulk Power Consumers [BPC(s)] of the Mughal Group (MG) located in the same vicinity of the above generation facility.

(B). Communication of Modification

(i). MEL in accordance with Regulation-9 &10 of the NEPRA Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021 (the "Licensing Regulations") communicated a Licensee Proposed Modification (LPM) in its above mentioned Generation Licence on November 03, 2021.

(ii). In the "text of the proposed modification", MEL submitted that it plans to reduce the installed capacity of its generation facility to 36.50 MW from the existing capacity of 55.00 MW. Regarding the "statement of the reasons in support of the modification", MEL *inter alia* submitted that the above generation facility is meant for supplying to distinct group companies of the Mughal group under the framework of Section-22 of the NEPRA Act. In this regard, the beneficiary



companies have adopted energy conservative technologies and have accordingly re-assessed their electricity requirements. In view of the said, the project company has also revisited the sizing of the project and has decided to reduce the installed capacity to 36.50 MW.

(iii). About the statement of "the impact on tariff", "Quality of Service (QoS)" and "the performance by the licensee of its obligation under the licence", MEL submitted that the proposed changes will have no impact on the tariff. Further, confirmed that the proposed modification will not have any effect on the QoS and the performance by the Licensee of its obligations under its existing Generation Licence.

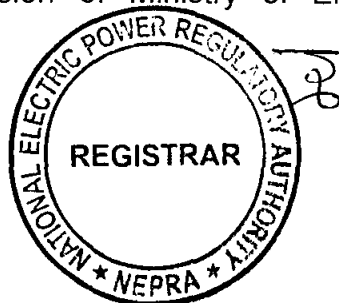
(C). Processing of Modification

(i). After completion of all the required information as stipulated under the Regulation-10(1) and 10(2) of the Licensing Regulations, the Registrar published the communicated LPM in one (01) English and one (01) Urdu daily newspaper on October 29, 2021, informing the general public, interested/affected parties and other stakeholders about the said LPM as required under Regulation-10(3) of the Licensing Regulations.

(ii). The Registrar also invited comments of the relevant Government Ministries, their attached departments, representative organizations and individual experts etc. for the assistance of the Authority, by sending separate letters to the said stakeholders on October 29, 2021, either in favour or against the communicated LPM of the company/MEL, as stipulated in Regulation-11(5) of the Licensing Regulations.

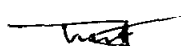
(D). Comments of Stakeholders

(i). In response to the above, the Authority received comments from five (05) stakeholders including Punjab Power Development Board Energy Department Govt. of Punjab (PPDB), Punjab Mineral Development Corporation (PbMDC), Department Mines & Minerals, Govt. of Khyber Pakhtunkhwa (DoM&MGoKPK) and Petroleum Division of Ministry of Energy (PTDMoE) and Pakistan Mineral

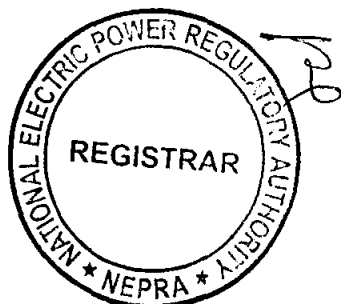


Development Corporation (PMDC). The salient points of the comments offered by the above mentioned stakeholders are summarized in the following paragraphs: -

- (a). PPDB stated that MEL wanted to reduce the generation capacity from 55.00 MW to 36.50 MW based on their latest requirement and implementing energy conservation techniques at their premises. PPDB has no objection for processing of subject LPM by MEL under the relevant regulations subject to meeting Punjab Environmental Quality Standards (PEQS) & efficiency benchmarks the Authority has prescribed in this regard;
- (b). PbMDC expressed that it has no objection for modification in the Generation Licence of MEL however, comments in the matter may be may be treated as NIL;
- (c). DoM&MGoKPK remarked that the matter may be dealt under the relevant rules and regulations. However, it is worth mentioning that province has rich deposit of coal in district Orakzai, Kohat and Karak and the same may be utilized in the project related to coal;
- (d). PTDMoE mentioned that the LPM of MEL may be allowed subject to the condition that due consideration shall be given in the design of the proposed generation facility to allow the use of indigenous coal as per availability. Further, preference should also be accorded to the utilization of the local coal and the use of imported coal may be restricted only in case of the non-availability of the indigenous fuel/coal; and
- (e). PMDC remarked that the modification of MEL may be allowed with the stipulation that the use of indigenous coal will be given preference for the electricity generation in the proposed generation facility.







(ii). The Authority considered the above mentioned comments and in view of the observations of PPDB, DoM&MGoKPK, PTDMoE and PMDC, considered it appropriate seeking perspective of MEL. On the said observations MEL confirmed that not only the required standards on efficiency and environment will be adhered but also preference will be given to the utilization of the local/indigenous coal subject to its availability.

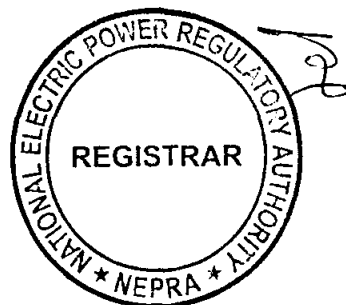
(iii). The Authority considered the above submissions of MEL and decided to proceed further in the matter as stipulated in the NEPRA Act, NEPRA Licensing (Generation) Rules 2000 (the "Generation Rules") and Licensing Regulations.

(E). Evaluation/Findings

(i). The Authority has examined the entire case in detail including the already granted Generation Licence, the communicated LPM, comments of the stakeholders and rejoinder from the Licensee. In this regard, the Authority has observed that a Generation Licence (No. SGC/152/2021 dated February 10, 2021) was granted to MEL, for setting up an indigenous/imported coal based generation facility/Thermal Power Plant.

(ii). The Generation Licence envisaged setting up a generation facility with a cumulative installed capacity of 55.00 MW consisting of one (01) steam turbine of the said capacity. Further, the generation facility also envisaged supplying to three (03) BPC(s) of the MG in the name of (a). Mughal Iron and Steel Industries Limited (MI&SIL); (b). Mughal Steel Metallurgies Corporation Limited (MSMCL); and (c). Indus Steel Mills Corporation (Pvt.) Limited (ISMCL).

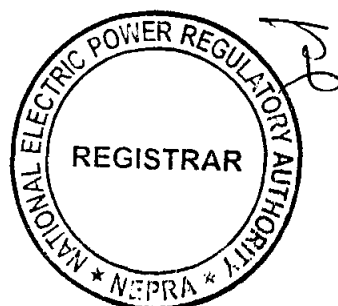
(iii). The Authority has observed that according to the communicated LPM, the company/Licensee/MEL now plans to reduce the installed capacity of the generation facility from 55.00MW to 36.50MW due to the reduction of electric power requirements of its potential BPC(s) considering the Demand Side Management (DSM) initiatives taken in this regard.



(iv). In this regard, now MEL plans to deploy two (02) Steam Turbines consisting of 1 x 31.50 MW and 1 x 5.00 MW respectively. In this regard, the Authority in terms of Section-26 of the NEPRA Act read with Regulation-9(2) of the Licensing Regulations, is empowered to modify a licence as it may deem fit if, in the opinion of the Authority, such modification (a). will not adversely affect the performance by the licensee of its obligations; (b). is reasonably necessary for the licensee to effectively and efficiently perform its obligations under the licence; (c). is likely to benefit consumers; or (d). is reasonably necessary to ensure the continuous, safe and reliable supply of electric power to consumers, keeping in view the financial and technical viability of the licensee.

(v). In consideration of the above, the Authority considers that (a). the proposed LPM will not adversely affect the performance of the licensee of its obligations under its Generation Licence considering the fact it will still be able to discharge its obligations; (b). the LPM is reasonably necessary for the Licensee to effectively and efficiently perform its obligations under the licence; (c). the LPM will be beneficial to the BPC(s) as it will be having continuous supply of reliable electric power from the Licensee; and (d).is reasonably necessary to ensure the continuous, safe and reliable supply of electric power to the proposed BPC(s), keeping in view the financial and technical viability of the licensee.

(vi). The Authority has considered the comments of stakeholders including PPDB, PbMDC, DoM&MGoKPK, PTDMoE and PMDC. In this regard, the Authority has observed that the said stakeholders have supported the LPM of reduction in capacity subject to the condition that MEL will comply with the requirement standards on environment and efficiency and preferably utilize the indigenously available local coal across the country. As explained in the preceding paragraphs, MEL has confirmed that it will complying with all the standards on environment and efficiency. Further, suitable blending of local coal and imported coal will also be carried out to operate the generation facility in an optimised manner to meet with the required standards.



(vii). In consideration of the above, the Authority directs MEL to follow all the required standards on efficiency and environment without any exception. Further, the Authority also directs MEL to accord priority to local coal and carry out suitable blending of the indigenous and imported coal to operate the plant in an optimum manner to comply with all the standards.

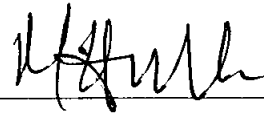
(F). Approval of LPM

(i). In view of the above, the Authority is satisfied that the Licensee has complied with all the requirements of the Licensing Regulations pertaining to the modification. Therefore, the Authority in terms Section-26 of the NEPRA Act read with Regulation-10(4) of the Licensing Regulations approves the communicated LPM without changes.

(ii). In consideration of the above, the Generation Licence (No. SGC/152/2021 dated February 10, 2021) granted to MEL is hereby modified. The changes made in the Generation Licence are attached as annexure to this determination. The approval of the LPM is subject to the provisions contained in the NEPRA Act, relevant rules framed there under, terms & conditions of the Generation Licence and other applicable documents.

Authority

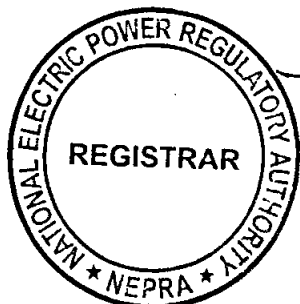
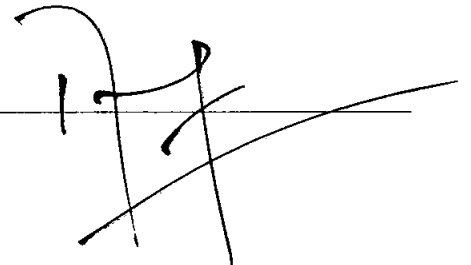
Engr. Maqsood Anwar Khan
(Member)

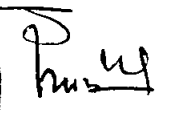


Engr. Rafique Ahmed Shaikh
(Member)



Engr. Tauseef H. Farooqi
(Chairman)




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**National Electric Power Regulatory Authority
(NEPRA)
Islamabad – Pakistan**

GENERATION LICENCE

No. SGC/152/2021

In exercise of the Powers conferred under Section-26 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (as amended from time to time), the Authority hereby modifies the Generation Licence (No. SGC/152/2021, dated February 10, 2021) granted to Mughal Energy Limited to the extent of changes mentioned hereunder: -

- (a). The expiry date of the Licence mentioned on the face sheet of the original licence may be read as **30th day of June 2054**;
- (b). The Changes made in Articles of the Generation Licence are attached as **Revised/Modified Articles of Generation Licence**;
- (c). The Changes made in Schedule-I of the Generation Licence are attached as **Revised/Modified Schedule-I**;
- (d). The Changes made in Schedule-II of the Generation Licence are attached as **Revised/Modified Schedule-II**;
- (e). The Changes made in Second Tier Supply Authorization are attached as **Revised/Modified Second Tier Supply Authorization**.

This **Modification-I** is given under my hand on this 25th day of May

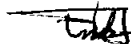
Two Thousand & Twenty-Two.



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Registrar



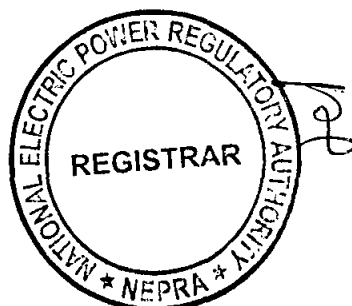
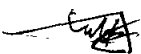




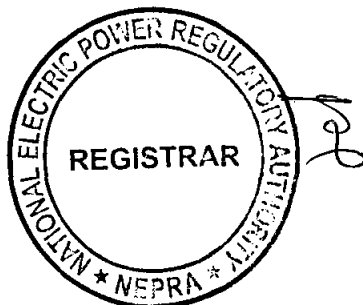
Article-1 Definitions

1.1 In this licence

- (a). "Act" means the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 as amended or replaced from time to time;
- (b). "Applicable Documents" mean the Act, the rules and regulations framed by the Authority under the Act, any documents or instruments issued or determinations made by the Authority under any of the foregoing or pursuant to the exercise of its powers under the Act, the Grid Code, the applicable Distribution Code, the Commercial Code if any, or the documents or instruments made by the Licensee pursuant to its generation licence, in each case of a binding nature applicable to the Licensee or, where applicable, to its affiliates and to which the Licensee or any of its affiliates may be subject;
- (c). "Applicable Law" means all the Applicable Documents;
- (d). "Authority" means the National Electric Power Regulatory Authority constituted under Section-3 of the Act;
- (e). "Bulk Power Consumer (BPC)" means a consumer which purchases or receives electric power, at one premises, in an amount of one (01) megawatt or more or in such other amount and voltage level and with such other characteristics as the Authority may specify and the Authority may specify different amounts and voltage levels and with such other characteristics for different areas;



- (f). "Bus Bar" means a system of conductors in the generation facility/Thermal Power Plant of the Licensee on which the electric power from all the generators is collected for supplying to the Power Purchaser;
- (g). "Commercial Code" means the commercial code under National Electric Power Regulatory Authority (Market Operator Registration, Standards and Procedure) Rules, 2015 as amended or replaced from time to time;
- (h). "Commercial Operations Date (COD)" means the day immediately following the date on which the generation facility/Thermal Power Plant of the Licensee is Commissioned;
- (i). "Commissioned" means the successful completion of commissioning of the generation facility/Thermal Power Plant for continuous operation and despatch to the Power Purchaser;
- (j). "Distribution Code" means the distribution code prepared by the concerned XW-DISCO and approved by the Authority, as may be revised from time to time with necessary approval of the Authority;
- (k). "Generation Rules" mean the National Electric Power Regulatory Authority Licensing (Generation) Rules, 2000 as amended or replaced from time to time;
- (l). "Grid Code" means the grid code prepared and revised from time to time by NTDC with necessary approval of the Authority;
- (m). "Licence" means this licence granted to the Licensee for its generation facility/Thermal Power Plant;

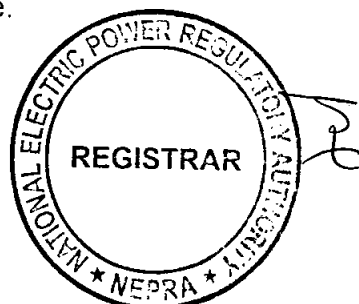


- (n). "Licensee" means **Mughal Energy Limited** or its successors or permitted assigns;
- (o). "Licensing Regulations" mean the National Electric Power Regulatory Authority Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021 as amended or replaced from time to time;
- (p). "Power Purchaser" means the BPC which will be purchasing electric power from the Licensee, pursuant to a PPA for procurement of electric power;
- (q). "Power Purchase Agreement-PPA" means the power purchase agreement, entered or to be entered into by and between the Power Purchaser and the Licensee, for the purchase and sale of electric energy generated by the generation facility/Thermal Power Plant, as may be amended by the parties thereto from time to time;
- (r). "Thermal Power Plant" means a generation facility used for production of electric power using fossil fuel";
- (s). "XW-DISCO" means an Ex-WAPDA distribution company engaged in the distribution of electric power".

1.2 The words and expressions used but not defined herein bear the meaning given thereto in the Act or Generation Rules and Licensing Regulations issued under the Act.

Article-2 **Applicability of Law**

This licence is issued subject to the provisions of the Applicable Law, as amended from time to time.



Article-3 **Generation Facilities**

3.1 The location, size (capacity in MW), technology, interconnection arrangements, technical limits, technical functional specifications and other details specific to the generation facility/Thermal Power Plant of the Licensee are set out in Schedule-I of this licence.

3.2 The net capacity of the generation facility/Thermal Power Plant of the Licensee is set out in Schedule-II of this licence. The Licensee shall provide the final arrangement, technical and financial specifications and other specific details pertaining to its generation facility/Thermal Power Plant before its COD.

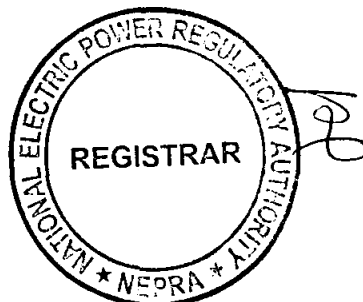
Article-4 **Term of Licence**

4.1 This Licence is effective from the date of the issuance of the original licence i.e. February 10, 2021 and will have a term of thirty (30) years from the COD of the generation facility/Thermal Power Plant of the Licensee subject to Section 14-B of the Act.

4.2 Unless suspended or revoked earlier or Licence ceases to have effect, the Licensee may apply for renewal of this Licence ninety (90) days prior to the expiry of the above term, as stipulated in the Licensing Regulations.

Article-5 **Licence fee**

The Licensee shall pay to the Authority the licence fee as stipulated in the National Electric Power Regulatory Authority (Fees) Regulation, 2021 as amended or replaced from time to time.



Article-6 **Tariff**

The Licensee is allowed to charge the Power Purchaser/BPC a mutually agreed tariff.

Article-7 **Competitive Trading Arrangement**

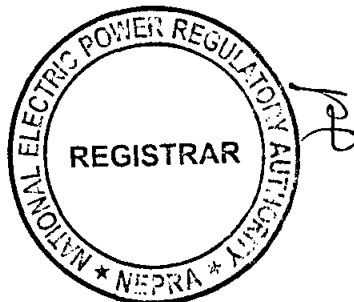
7.1 The Licensee shall participate in such manner as may be directed by the Authority from time to time for development of a Competitive Trading Arrangement.

7.2 The Licensee shall in good faith work towards implementation and operation of the aforesaid Competitive Trading Arrangement in the manner and time period specified by the Authority. Provided that any such participation shall be subject to any contract entered into between the Licensee and another party with the approval of the Authority.

7.3 Any variation or modification in the above-mentioned contracts for allowing the parties thereto to participate wholly or partially in the Competitive Trading Arrangement shall be subject to mutual agreement of the parties thereto and such terms and conditions as may be approved by the Authority.

Article-8 **Maintenance of Records**

For the purpose of sub-rule(1) of Rule-19 of the Generation Rules, copies of records and data shall be retained in standard and electronic form and all such records and data shall, subject to just claims of confidentiality, be accessible by authorized officers of the Authority.



Article-9
Compliance with Performance Standards

The Licensee shall comply with the relevant provisions of the National Electric Power Regulatory Authority Performance Standards (Generation) Rules 2009 as amended or replaced from time to time.

Article-10
Compliance with Environmental & Safety Standards

10.1 The generation facility/Thermal Power Plant of the Licensee shall comply with the environmental and safety standards as may be prescribed by the relevant competent authority from time to time.

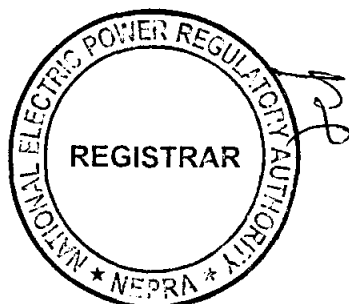
10.2 The Licensee shall provide a certificate on a bi-annual basis, confirming that the operation of its generation facility/Thermal Power Plant is in conformity with required environmental standards as prescribed by the relevant competent authority.

Article-11
Power off take Point and Voltage

The Licensee shall deliver the electric energy to the Power Purchaser at the outgoing Bus Bar of its generation facility/ Thermal Power Plant. The Licensee shall be responsible for the up-gradation (step up) of generation voltage up to the required dispersal voltage level.

Article-12
Provision of Information

In accordance with provisions of Section-44 of the Act, the Licensee shall be obligated to provide the required information in any form as desired by the Authority without any exception.



Article-13
Compliance with Applicable Law

The Licensee shall comply with the provisions of the Applicable Law, guidelines, directions and prohibitory orders of the Authority as issued from time to time.

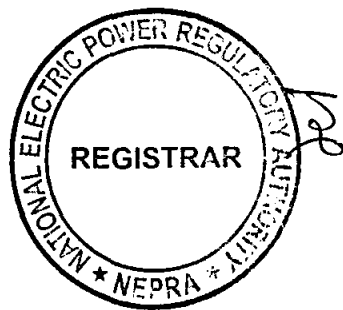
Article-14
Corporate Social Responsibility

The Licensee shall provide the descriptive as well as monetary disclosure of its activities pertaining to corporate social responsibility (CSR) on an annual basis.

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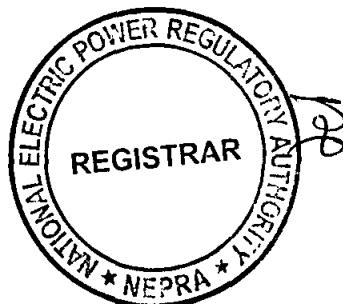
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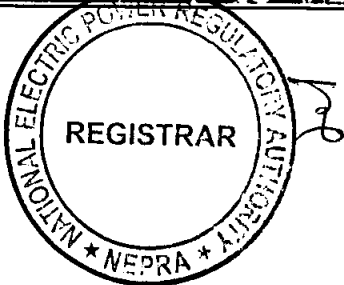
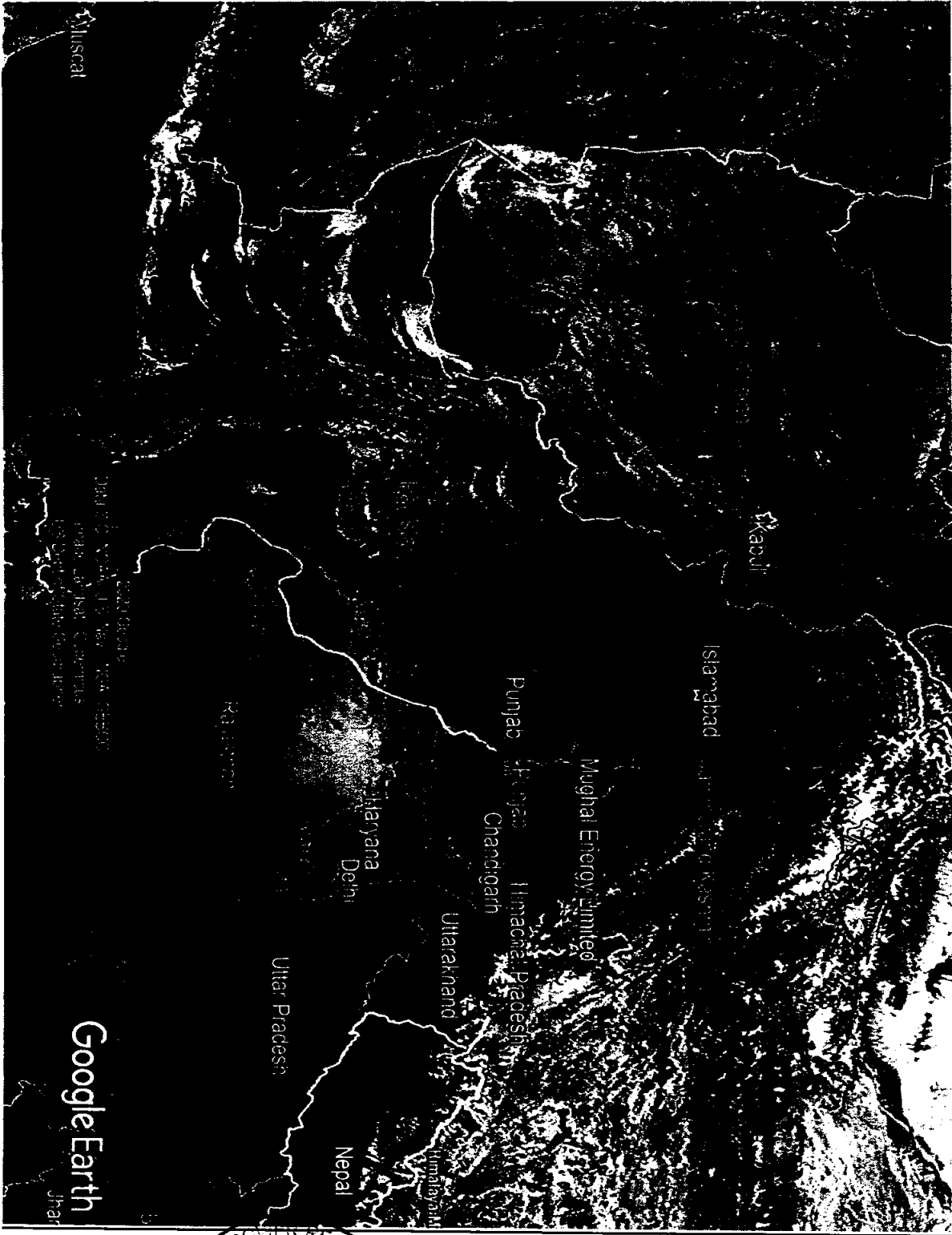


SCHEDULE-I

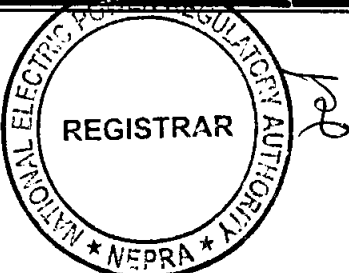
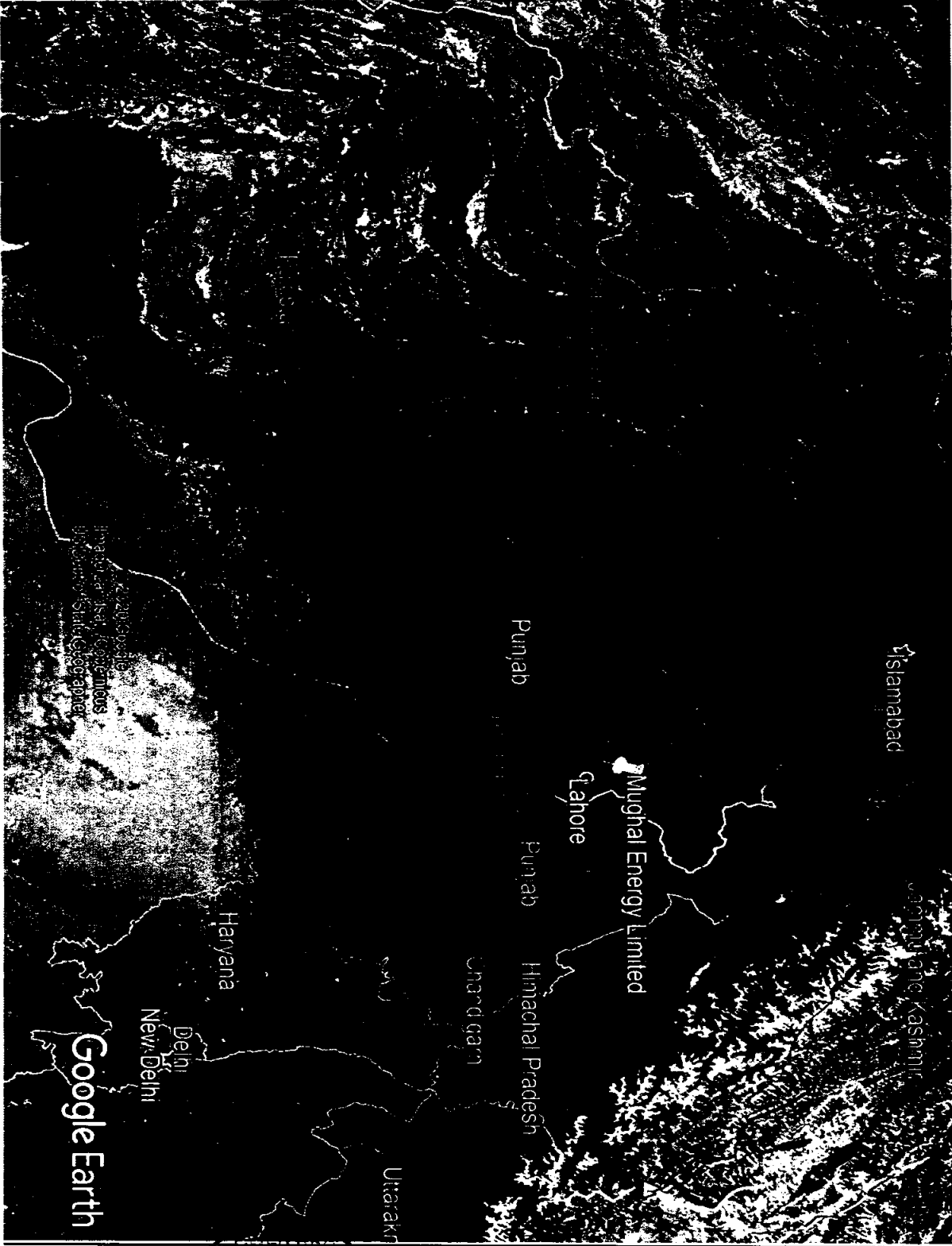
The Location, Size (i.e. Capacity in MW), Type of Technology, Interconnection Arrangements, Technical Limits, Technical/Functional Specifications and other details specific to the Generation Facilities of the Licensee are described in this Schedule.



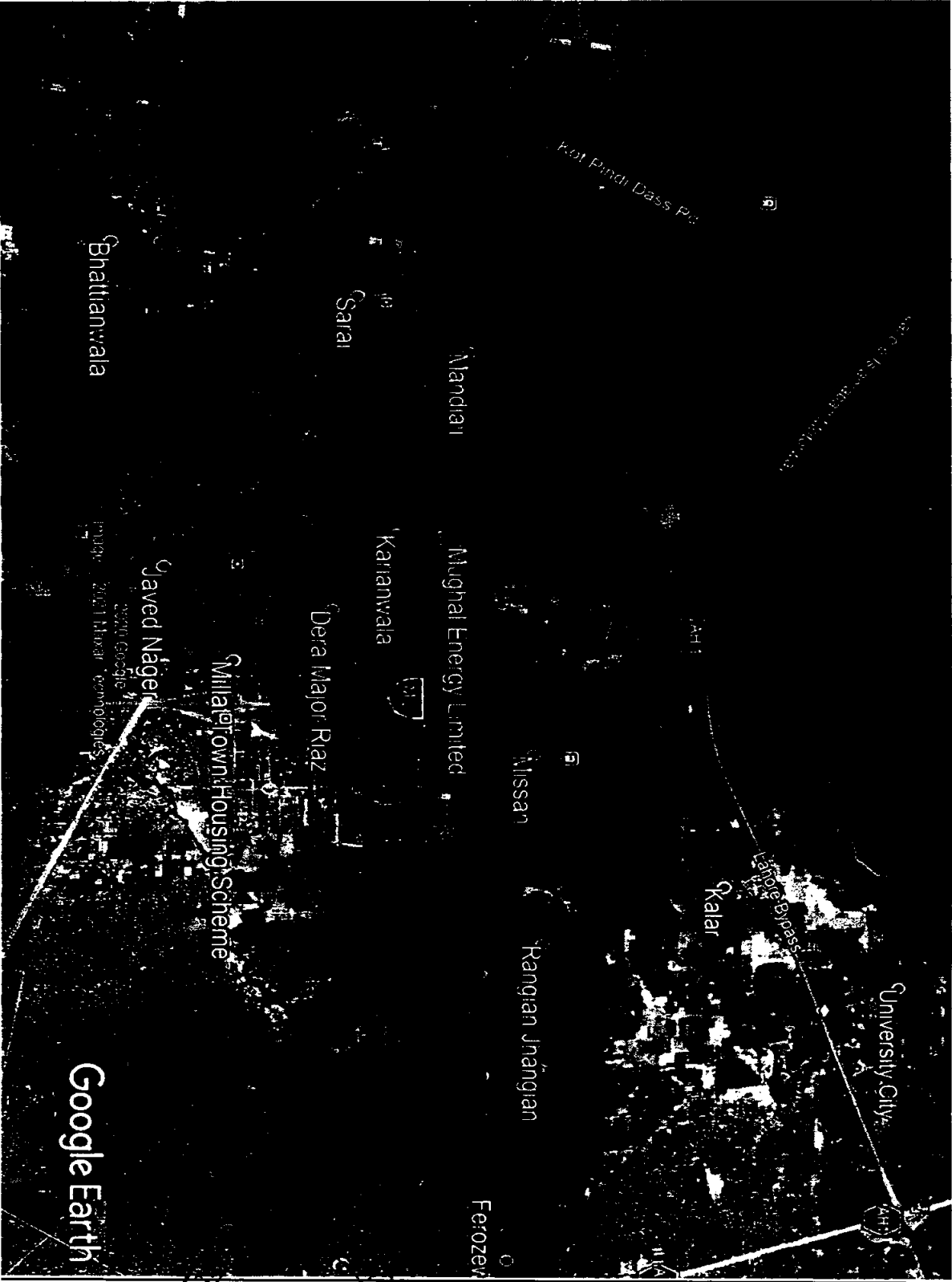
**Location of the
Generation Facility/Thermal Power Plant
of the Licensee on Map of Pakistan**



**Location of the
Generation Facility/Thermal Power Plant
of the Licensee on Map of Province of Punjab**

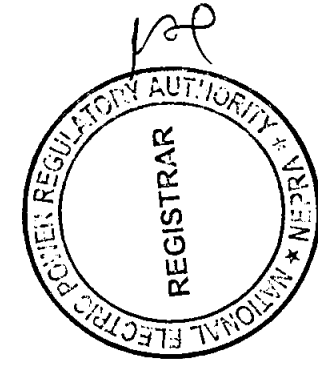
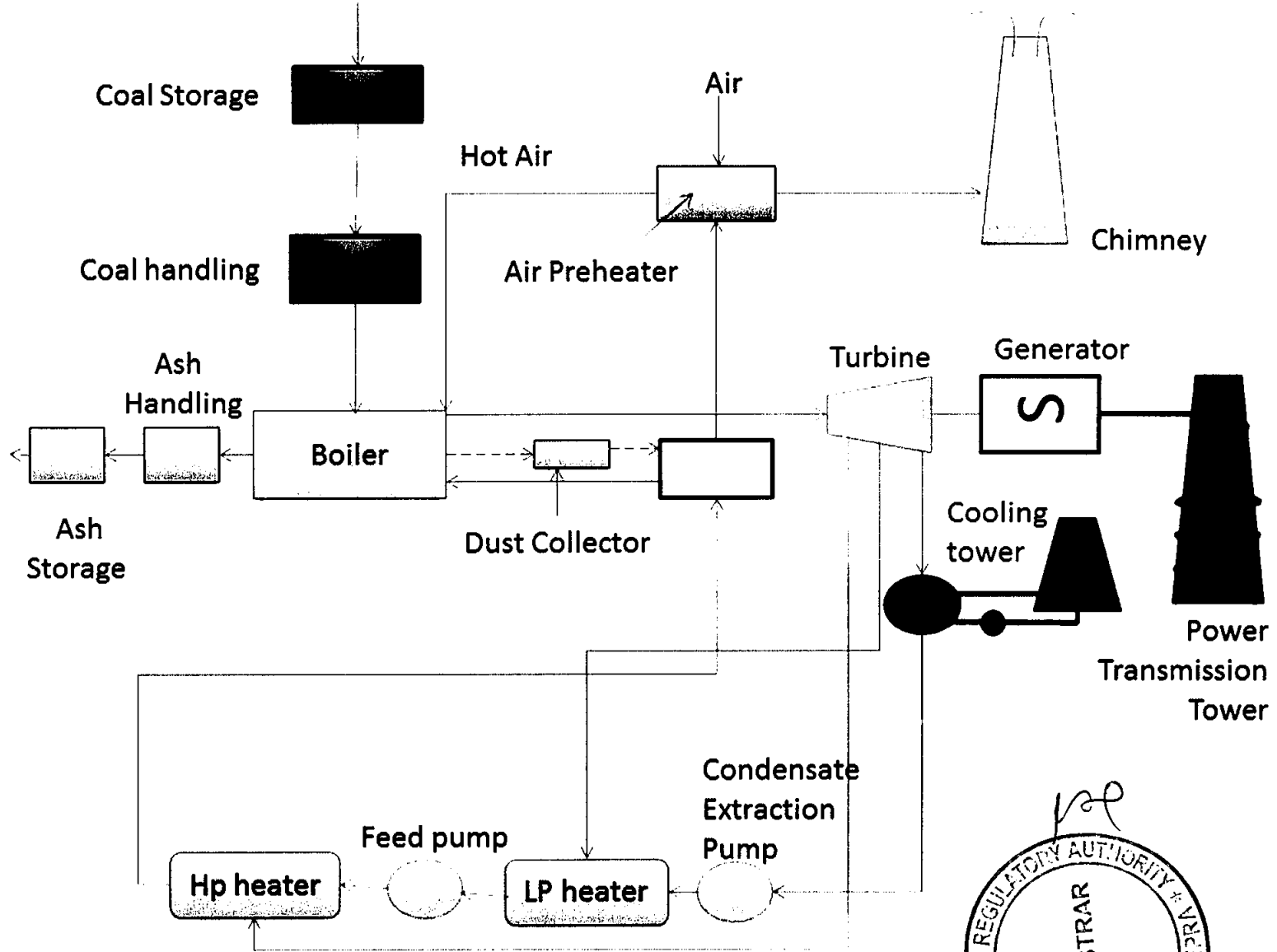


**Location of the
Generation Facility/Thermal Power Plant
of the Licensee**



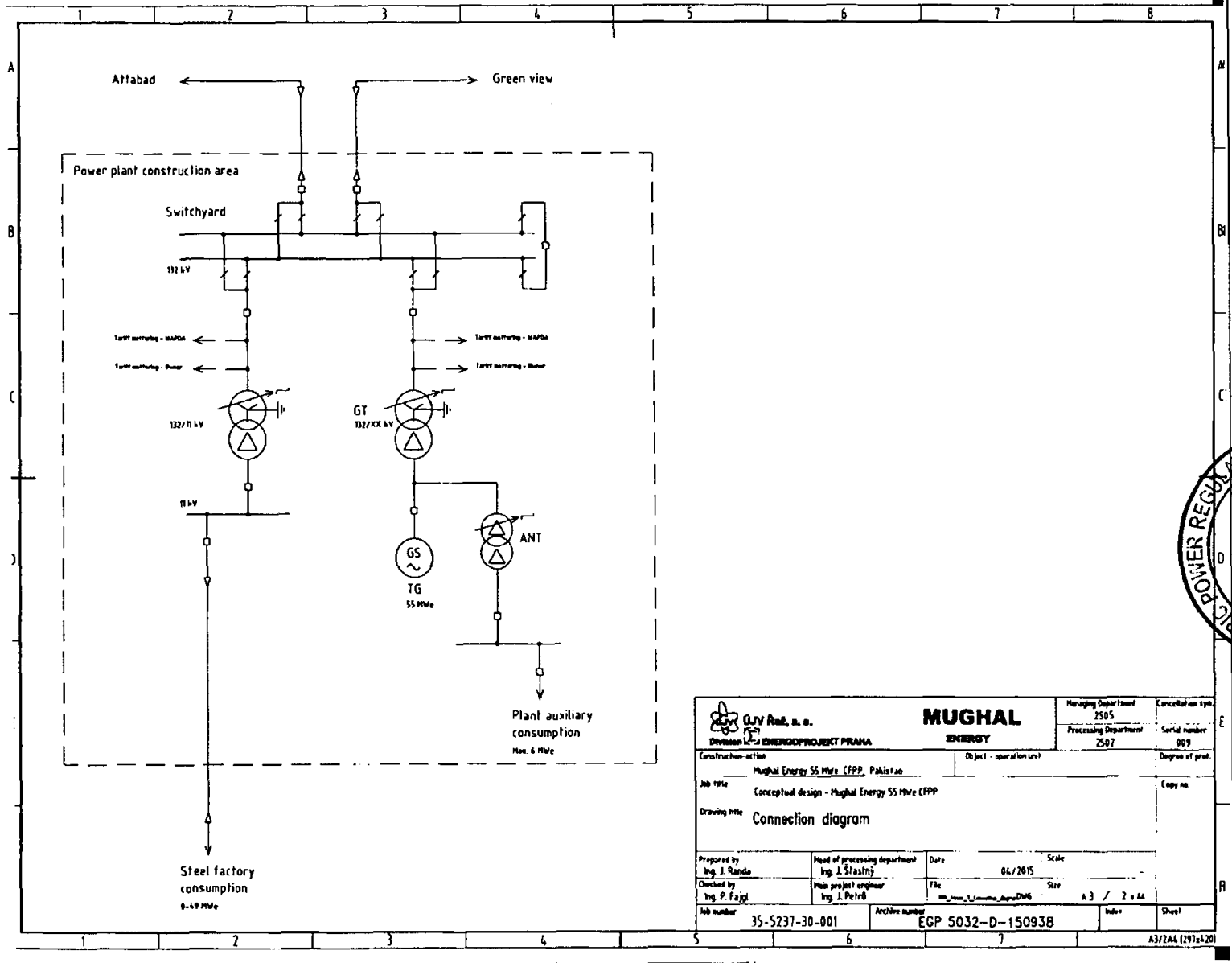
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**Layout of the
Generation Facility/ Thermal Power Plant
of the Licensee**

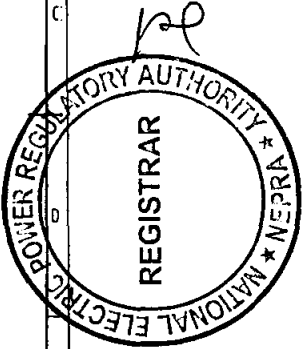


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**Single Line Diagram
 of the Generation Facility/ Land Coordinates of the
 Generation Facility/ Thermal Power Plant
 of the Licensee**



GUY PAK, s. o. Division ENERGY PROJECT PRAMA		MUGHAL ENERGY Managing Department 2505 Processing Department 2502		Cancellation type Serial number 009
Construction action Mughal Energy 55 MVA (EPPP, Pakistan)		Object - operation unit		Degree of prog.
Job title Conceptual design - Mughal Energy 55 MVA (EPPP)				Copy no.
Drawing title Connection diagram				
Prepared by Ing. J. Rando	Head of processing department Ing. J. Štašný	Date 04/2015	Scale	
Checked by Ing. P. Fajtl	Main project engineer Ing. J. Petrů	File en_ener_1_Construction_Action.DWG	Size A3 / 2 x A4	
Job number 35-5237-30-001	Archive number EGP 5032-D-150938	Index	Sheet	
A3/244 (197) x 201				



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**Interconnection Arrangement for
Dispersal of Power from the Generation Facility/ Thermal Power
Plant of the Licensee**

The electric power generated from the Generation Facility/ Thermal Power Plant of the Licensee/MEL shall only be delivered/supplied to different Bulk Power Consumers [BPC(s)].

(2). The details pertaining to the BPC(s), supply arrangement and other relating information is provided in the subsequent description of this Schedule. Any change in the said, shall be communicated to the Authority in due course of time.



Detail of
Information Pertaining to the Company/Licensee and Its
Generation Facility/Thermal Power Plant/

(A). General Information

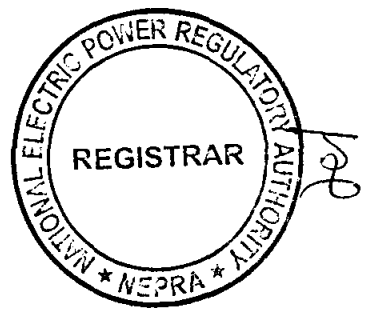
(i).	Name of the Company/ Licensee	Mughal Energy Limited
(ii).	Registered/Business Office of the Company	31 Shadman -1 Colony, Lahore, Pakistan
(iii).	Location of the Generation Facility/Thermal Power Plant	17 KM Sheikhupura Road, Lahore
(iv).	Type of Generation Facility/Thermal Power Plant	Thermal Generation Facility

(B). Plant Configuration

(i).	Installed Capacity/ Size the Generation Facility/ Coal Power Plant	36.50 MW	
(ii).	Type of Technology of the Generation Facility/ Coal Power Plant	Circulating Fluidized Bed Boiler (Subcritical Steam Parameters) and Steam Turbine Thermal Generation Facility	
(iii).	Number of Units/Size (MW)	1 x 31.50 MW + 1 x 5.00 MW	
(iv).	Unit Make/Model & Year of Manufacture	Steam Turbine	Siemens/General Electric/TGM Kanis Turbinen GmbH/Alstom/Skoda/ or Equivalent
		Boiler	Sulzer Switzerland/ Foster Wheeler/ Andritz AG/or Equivalent
(v).	Expected COD of the Generation Facility/ Coal Power Plant	July 01, 2024	

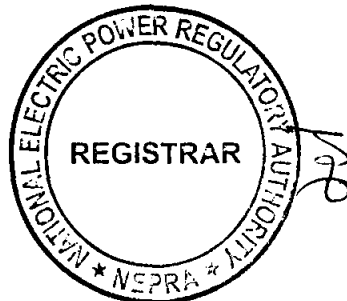
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(C). Fuel/Raw Material Details

(i).	Primary Fuel	Imported Coal or Local Coal of equivalent specification	
(ii).	Start-Up Fuel	RFO	
(iii).	Fuel Source for each of the above (i.e. Imported/Indigenous)	Primary Fuel	Start-Up Fuel
		Imported Sub-Bituminous Coal from the countries surrounding Indian Ocean, i.e. Indonesia, South Africa, Botswana or Australia, etc./Local Coal within the country from any available source	Indigenous/Imported
(iv).	Fuel Supplier for each of the above	Primary Fuel	Start-Up Fuel
		Will be provided later	Shell Pakistan/Pakistan State Oil/Any other OMC Company
(v).	Supply Arrangement for each of the above Fuels	Primary Fuel	Start-Up Fuel
		Trucks/ Conveyors/ Stacker	Through Oil Tankers
(vi).	No of Storage Bunkers/Tanks/ Open Yard	Primary Fuel	Start-Up Fuel
		Primary coal yard Secondary coal yard	1
(vii).	Storage Capacity of Sheds/Open yard/ Tanks Etc.	Primary Fuel	Start-Up Fuel
		2 x 9000 Ton	500 Tons
(ix).	Gross Storage	Primary Fuel	Start-Up Fuel
		18000 Ton	500 Tons



(D). Emission Values

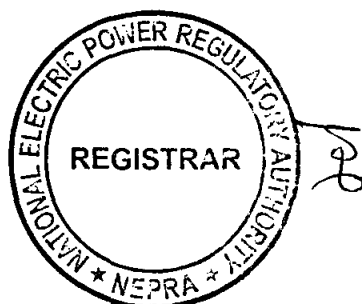
		Primary Fuel	Start-Up Fuel
(i).	SO _x (mg/Nm ³)	1700 mg/Nm ³	As Per National Standards (NEQs)
(ii).	NO _x (mg/Nm ³)	1200 mg/Nm ³	-do-
(iii).	CO ₂ (%)	1000 mg/Nm ³	-do-
(iv).	CO (mg/Nm ³)	800 mg/Nm ³	-do-
(v).	PM ₁₀	500 mg/Nm ³	-do-

(E). Cooling System

(i).	Cooling Water Source/Cycle	Wells at the site will be used as a source of the raw water for the generation facility/Thermal Power Plant/Closed Cycle
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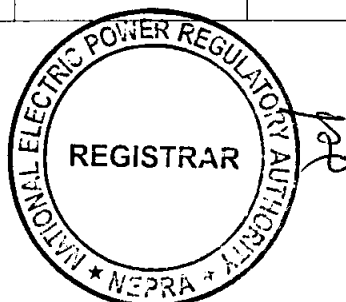
(F). Plant Characteristics

(i).	Generation Voltage	11 Kv
(ii).	Frequency	50 Hz
(iii).	Power Factor	0.85
(iv).	Automatic Generation Control (AGC) (MW control is the general practice)	No
(v).	Ramping Rate (MW/min)	Will be provided later
(vi).	Time required to Synchronize to Grid (Hrs.)	Will be provided later



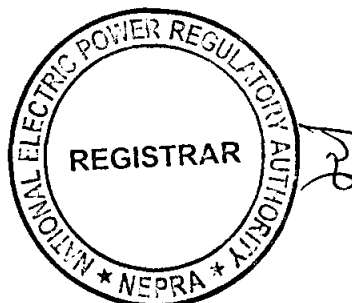
Information
Regarding Consumer(s)/ BPC(s) to be Supplied by
the Licensee i.e. MEL

(i).	Location of Consumers/Bulk Power Consumer(s)/BPC(S)	BPC-I	BPC-II	BPC-III
		Mughal Iron and Steel Industries Limited- MI&SIL	Mughal Steel Metallurgies Corporation Limited- MSMCL	Indus Steel Mills Corporation (Pvt.) Limited- ISMCPL
(ii).	Location of consumers (distance and/or identity of premises)	17-Km on Lahore-Sheikhupura Road Tehsil & District Sheikhupura in the Province of Punjab		
(iii).	Contracted Capacity	BPC-I	BPC-II	BPC-III
		22.50 MW	04.50 MW	04.50 MW
(iv).	Specify Whether:			
	(a).	The consumer is an Associate undertaking of the Licensee - If yes, specify percentage ownership of equity;	MEL and the BPC(S) are associated companies of the Mughal Steel Limited.	
	(b).	There are common directorships:	Currently, there are some common directors of MEL and BPC(S).	
	(c).	Either can exercise influence or control over the other.	Yes	
(v).	Specify nature of contractual Relationship			
	(a).	Between the consumer and the Licensee	MEL will construct, own and operate the generation facility and provide electric power to BPC(S).	
	(b).	Consumer and DISCO	BPC-I	BPC-II
B-4 Consumer			B-3 Consumer	B-3 Consumer

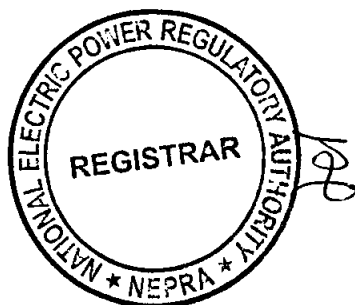


Information
Regarding Distribution Network for Supply of
Electric Power to BPC(S)

Sr. No.	Description	BPC-I	BPC-II	BPC-III
(i).	No. of Feeders	Three (03)	One (01)	One (01)
(ii).	Length of Each Feeder (Meter)	100-150 m	100-150 m	100-150 m
(iii).	Length of Each Feeder to each unit of the Licensee and its each Bulk Power Consumer			
(iv).	In respect of all the Feeders, describe the property (streets, farms, Agri land, etc.) through, under or over which they pass right up to the premises of customer, whether they cross-over.	The 11 kV feeders supplying power to the BPC(S) are mainly located on private property however, all the feeders crosses a public property of road.		
(v).	Whether owned by Licensee, Consumer or DISCO-(deal with each Feeder Separately)			
	(a). If owned by DISCO, particulars of contractual arrangement	The Feeders/Underground cables will be constructed by the Licensee or BPC(S) and will be handed over to DISCO either through sale or lease as decided mutually by the parties (i.e. Licensee/MEL, BPC(S) and LESCO)		
	(b). Operation and maintenance responsibility for each feeder	Mutually agreed terms and conditions to be decided/agreed by the parties (i.e. Licensee/MEL, BPC(S) and LESCO)		

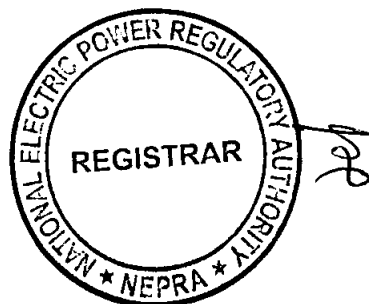
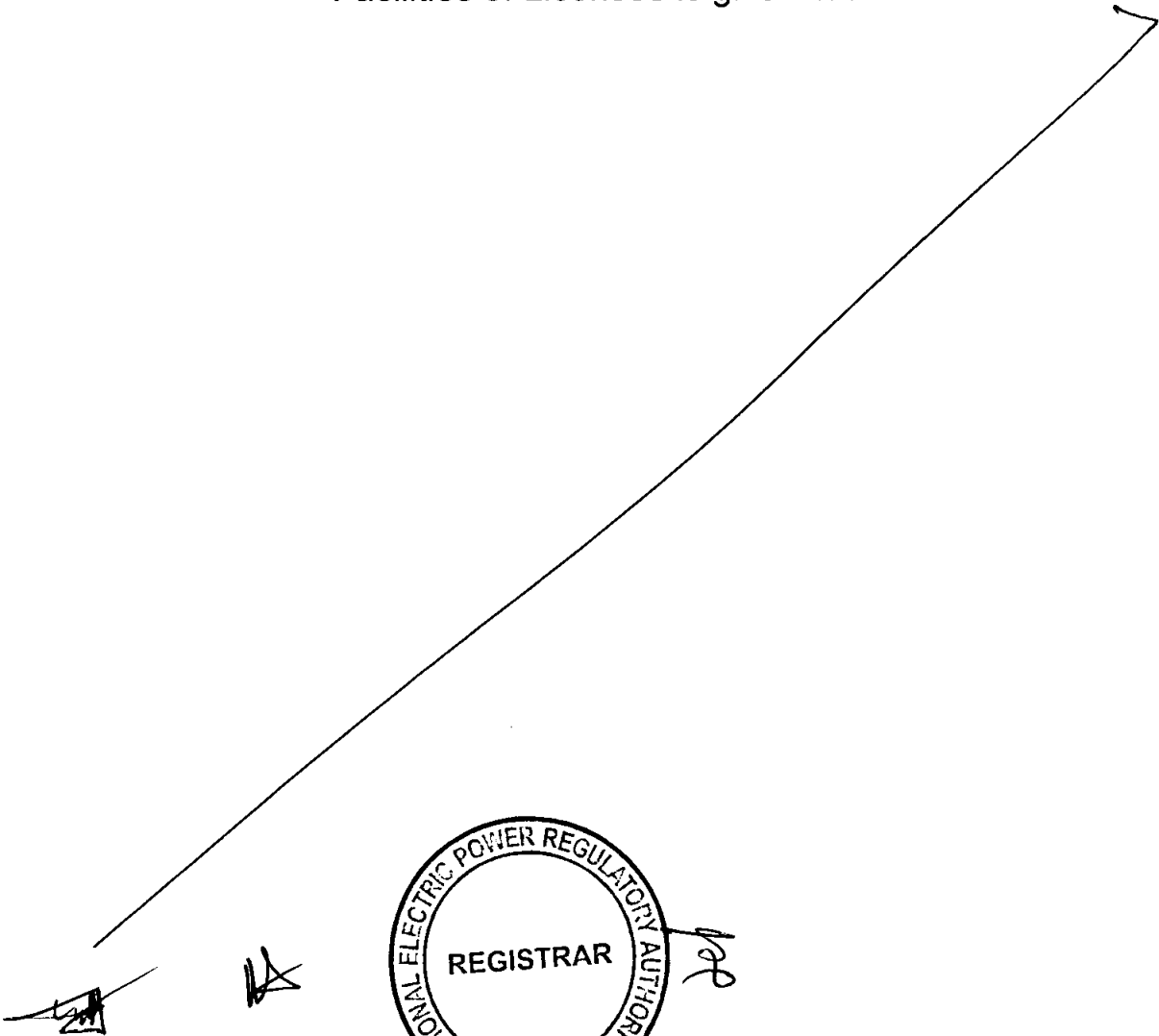


		BPC-I	BPC-II	BPC-III
(vi).	Whether connection with network of DISCO exists (whether active or not)- If yes, provide details of connection arrangements (both technical and contractual)	Yes	Yes	Yes
(vii).	Any other network information deemed relevant for disclosure to or consideration of the Authority.	NA	NA	NA



SCHEDULE-II

The Installed/ISO Capacity (MW), De-Rated Capacity At Mean Site Conditions (MW), Auxiliary Consumption (MW) and the Net Capacity At Mean Site Conditions (MW) of the Generation Facilities of Licensee is given in this Schedule

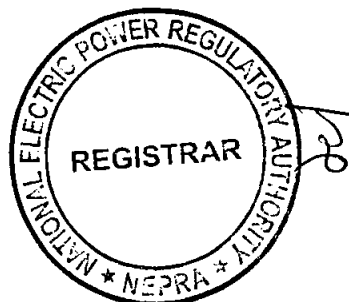


SCHEDULE-II

(1).	Total Gross Installed Capacity of the Generation Facility/Coal Power Plant	36.50 MW
(2).	De-rated Capacity of the Generation Facility/Coal Power Plant at Reference Site Conditions	36.50 MW
(3).	Auxiliary Consumption of the Generation Facility/ Coal Power Plant	03.00 MW
(4).	Total Net Capacity of the Generation Facility/ Coal Power Plant at Reference Site Condition	33.50 MW

Note

All the above figures are indicative as provided by the Licensee. The Net capacity available to Power Purchaser for dispatch will be determined through procedures contained in the Power Purchase Agreement (PPA) or the Applicable Document(s).



**Authorization of
Authority Granted to Mughal Energy Limited (MEL) for
Supplying to Bulk Power Consumers**

Incorporated Under Section-32
of the Companies Ordinance 1984 (XLVII of 1984) Having Corporate
Universal Identification No. 0080938 dated August 29, 2012

**GENERATION LICENCE No. SGC/152/2021
For
Sale to Bulk Power Consumer(s)**

Pursuant to Section-22 of the Act and Rule-7 of the Generation Rules, the
Authority hereby authorizes the MEL/(the Licensee) to engage in Second-Tier
Supply business, limited to the consumer(s) as follows:-

- (1). Mughal Iron and Steel Industries Limited-MI&SIL;
- (2). Mughal Steel Metallurgies Corporation Limited-
MSMCL;
- (3). Indus Steel Mills Corporation (Pvt.) Limited-ISMCP.

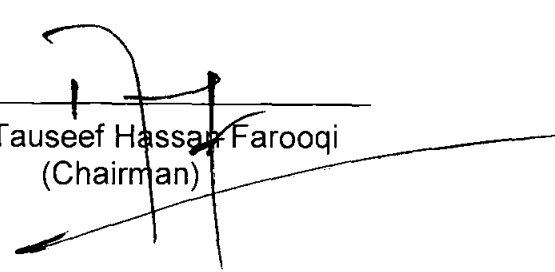
Authority



Engr. Maqsood Anwar Khan
(Member)

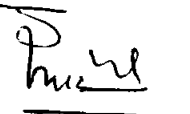


Engr. Rafique Ahmad Sheikh
(Member)



Engr. Tauseef Hassam Farooqi
(Chairman)




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