

# National Electric Power Regulatory Authority NEPRA

Registrar Office

\*\*\*\*\*

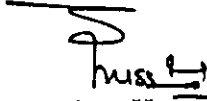
No. NEPRA/R/LAG-121/ 6773

June 29, 2011

**Subject: Modification in Generation Licence No. SGC/46/2009 Granted to Shakarganj Energy (Private) Limited on April 28, 2009**

Enclosed please find a copy of modified Generation Licence No. SGC/46/2009 issued by this office to Shakarganj Energy (Pvt.) Limited on June 29, 2011, along with determination of the Authority in the matter, for information, please.

Enclosure: As above


  
(Syed Safer Hussain)  
Registrar

**For information:**

1. Chairman
2. V. Chairman / Member (CA)
3. Member (T)
4. Member (S & P)
5. Member (L)

**Distribution:**

6. Director General (Technical)
7. Director General (Tariff)
8. Dy. Director (Licensing)
9. Dy. Director (Finance)
10. Dy. Director (Standards)
11. Deputy Director (IT)
12. Assistant Director (Library)

  
AD(B)/T.A

(Please place it on the NEPRA Website)



**National Electric Power Regulatory Authority**  
Islamic Republic of Pakistan

2nd Floor, OPF Building, G-5/2, Islamabad  
Ph: 9206500, 9207200, Fax: 9210215  
E-mail: registrar@nepra.org.pk

Registrar

June 29, 2011

No. NEPRA/R/LAG-121/4770-72

Mr. Muhammad Saifullah  
Senior Vice President  
Shakarganj Energy (Pvt.) Limited  
10-B, Block-E-II, Main Boulevard,  
Gulberg-III, Lahore  
Ph: 042-35871738

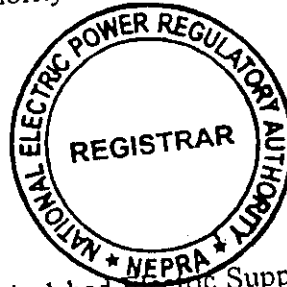
**Subject: Modification in Generation Licence No. SGC/46/2009 Granted to Shakarganj Energy (Private) Limited on April 28, 2009**

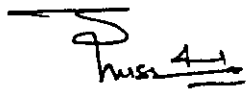
**Reference: Your letter No. nil, dated January 06, 2011.**

It is intimated that the Authority has approved "Licensee Proposed Modification" in Generation Licence No. SGC/46/2009 in respect of Shakarganj Energy (Private) Limited pursuant to Regulation 10(11) of the NEPRA Licensing (Application & Modification Procedure) Regulations, 1999.

2. Enclosed please find herewith modified Generation Licence No. SGC/46/2009 along with modified Schedule-I, Scheduled-II and 2<sup>nd</sup> Tier Supply Authorization as approved by the Authority. The determination of the Authority in the matter is also attached herewith.

Encl:/As above



  
(Syed Safer Hussain)

Copy to:

1. Chief Executive Officer, Faisalabad Electric Supply Company Limited (FESCO),  
Abdullahpur, Canal Bank Road, Faisalabad.
2. Director General, Pakistan Environmental Protection Agency, House No. 311,  
Main Margalla Road, F-11/3, Islamabad.

**National Electric Power Regulatory Authority  
(NEPRA)**

Islamabad – Pakistan

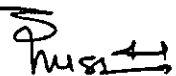
**GENERATION LICENCE**

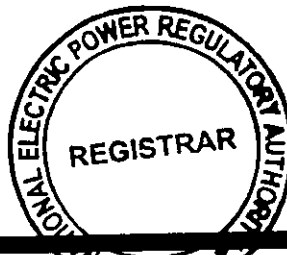
**SGC/46/2009**

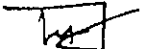
In exercise of the Powers conferred upon the National Electric Power Regulatory Authority (NEPRA) under Section-26 of the Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997), the Authority hereby modifies the Generation Licence granted to Shakarganj Energy (Private) Limited (on April 28, 2009 and expiring on October 31, 2029), to the extent of changes mentioned as here under:-

- (i). "Plant Location" mentioned on "Face Sheet" and in the Articles of the Generation Licence may be read as 56-KM Jhang-Sargodha Road, Bhone, District Jhang, Punjab;
- (ii). Changes in Schedule-I attached as Modified Schedule-I;
- (iii). Changes in Schedule-II attached as Modified Schedule-II; and
- (iv). Addition of a new Second Tier Supply Authorization (STSA) for supply of power to Bulk Power Consumer in the name of Shakarganj Mills Limited.

This **Modification-I** is given under my hand this 21<sup>st</sup> of **June Two**  
**Thousand & Eleven**

  
Registrar

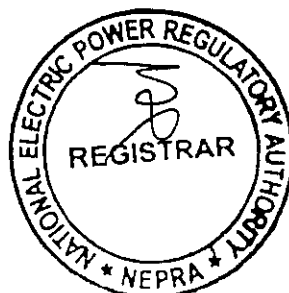




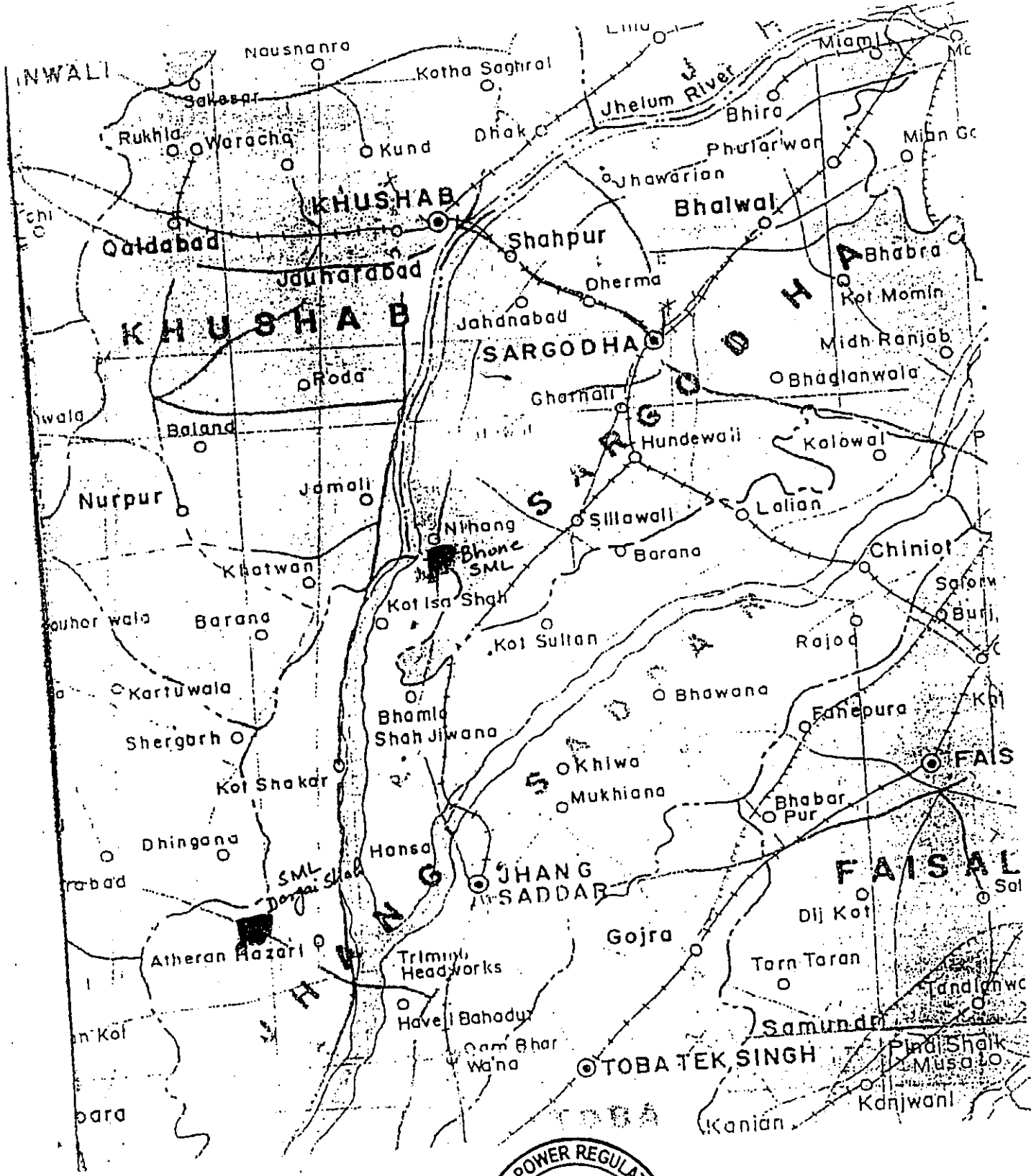


## SCHEDULE-I

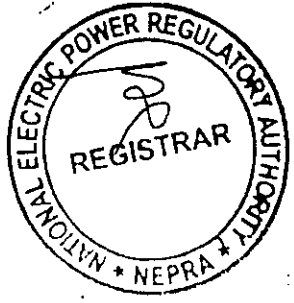
The location, size (capacity in MW) technology, interconnection arrangements, technical limits, technical functional specifications and other details specific to the Generation Facilities of the Licensee.

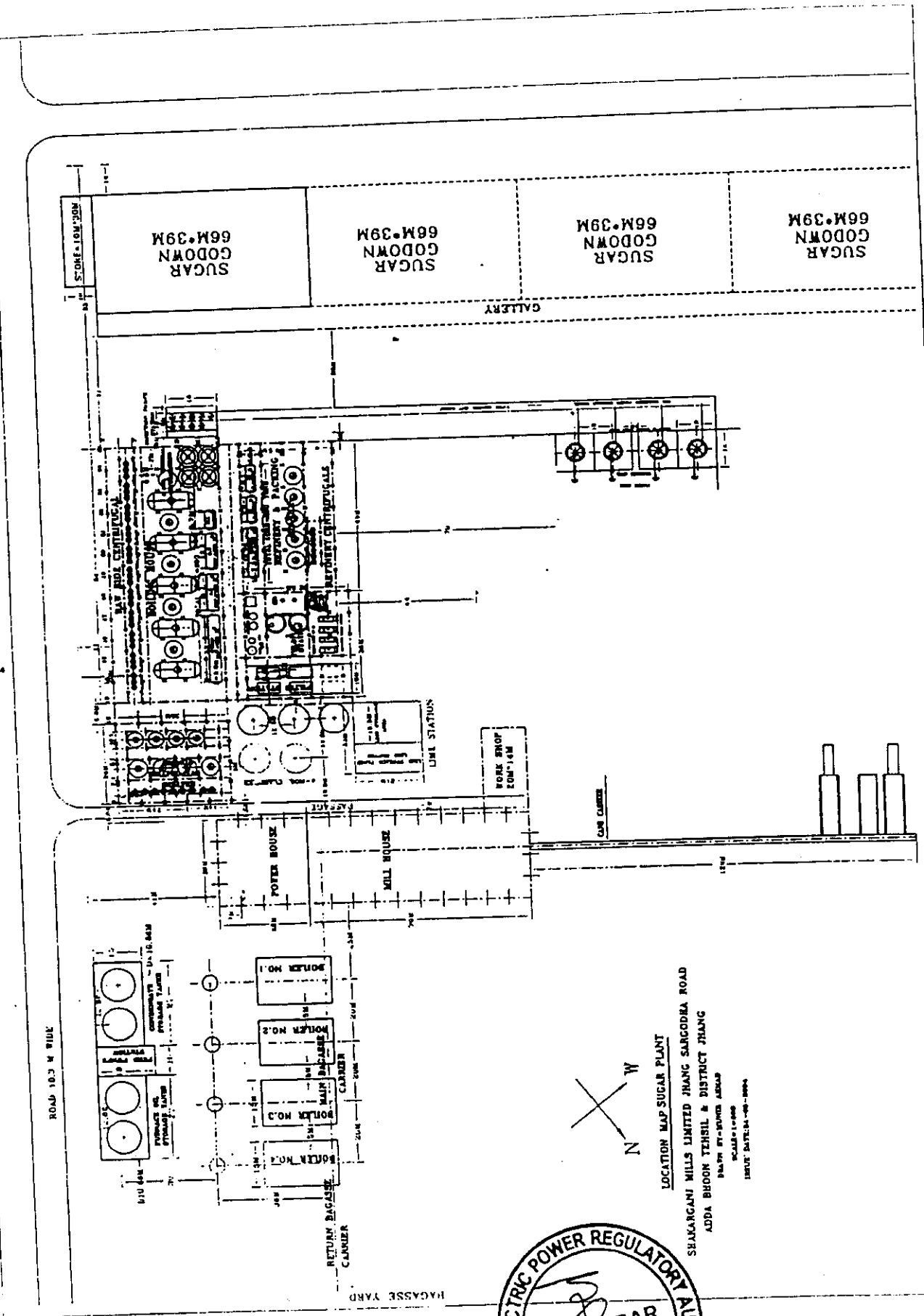


Shahangpur Energy (Private) Limited  
 56-KM Jhang-Sargodha Road,  
 Bhone  
 District Jhang  
 Punjab

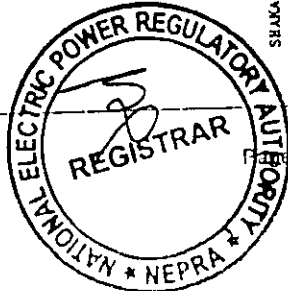


*[Handwritten signature]*





LOCATION MAP SUGAR PLANT  
 SHAKARGANJ MILLS LIMITED JHANG SARGODHA ROAD  
 ADDA BROON TENSIL & DISTRICT JHANG  
 SCALE: 1:1000  
 DRAWN BY: ENR. S. S. AHMED  
 SHEET: SATEL-100-1000

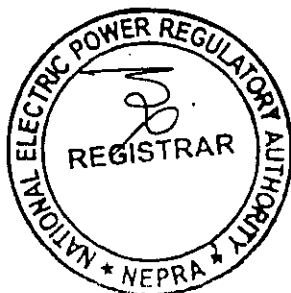


**INTERCONNECTION/TRANSMISSION  
ARRANGEMENT FOR THE DISPERSAL OF  
POWER FROM THE POWER PLANT**

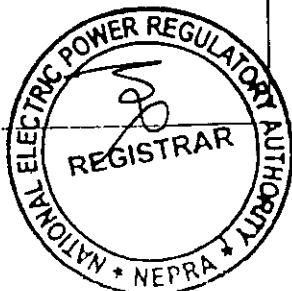
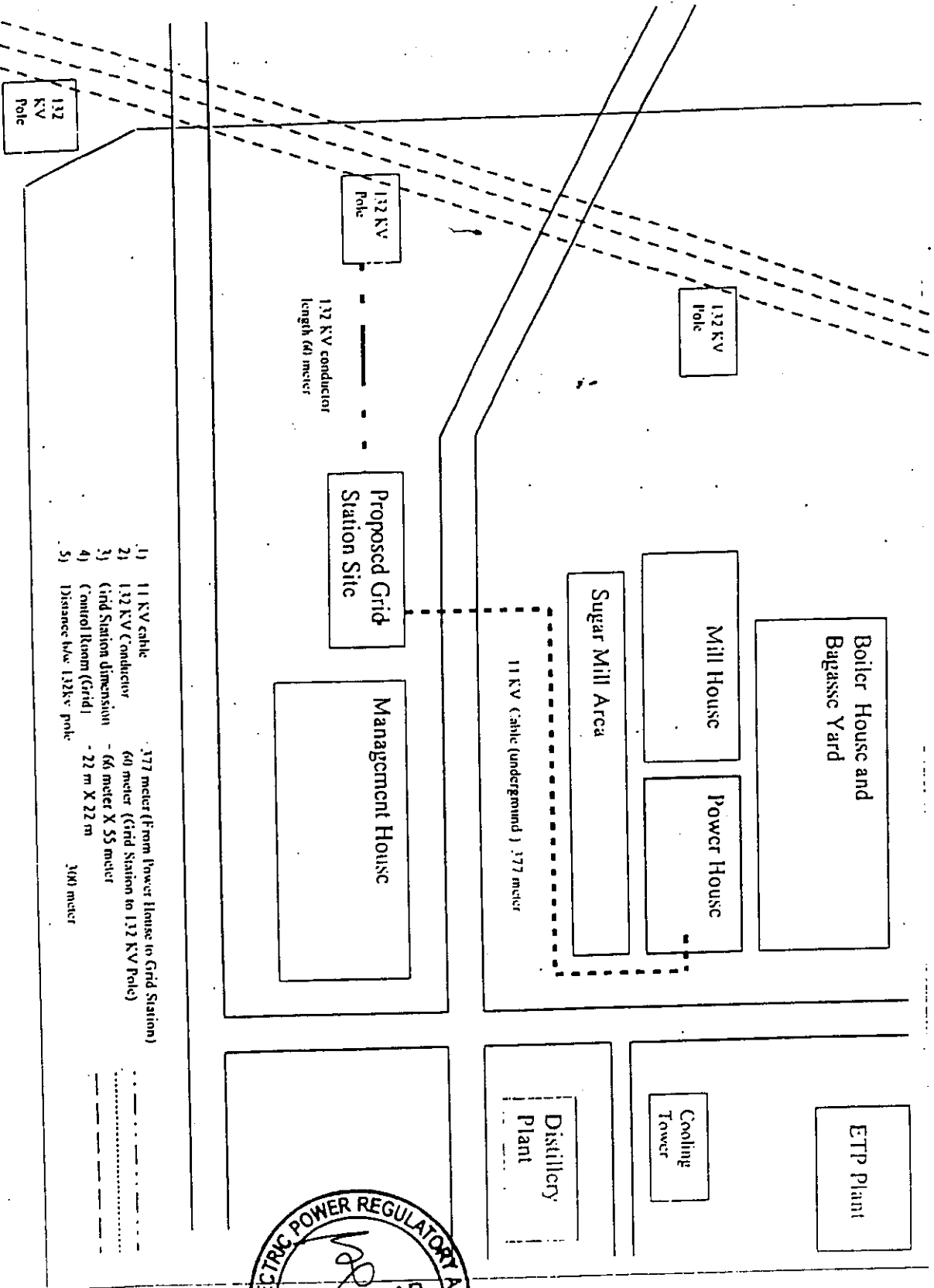
The Power generated by Shakarganj Energy (Private) Limited (SEPL) from its Bagasse based Thermal Power Generation facility shall be dispersed to the Load Center of Faisalabad Electric Supply Company Limited (FESCO).

The Interconnection/Transmission Arrangement for the above mentioned facilities will be at 11 KV or higher voltage as given in the Agreements for Power Purchase (PPA) of August 19, 2008, signed between SEPL and FESCO.

The final Interconnection and Transmission Arrangement(s), for the dispersal of power, as agreed by SEPL and FESCO shall be communicated to NEPRA in due course of time.



Grid Station Plan – Option 1, Shakarpari Energy Limited - Bhone





**Plant Details\***

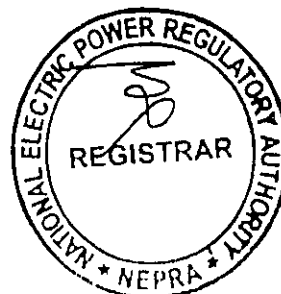
**(A). General Information**

(i).	Name of Applicant	Shakarganj Energy (Private) Limited
(ii).	Registered Office	10 <sup>th</sup> Floor, 10-B, Block E-2, Main Boulevard, Gulberg-III, Lahore
(iii).	Business Office	Chak Jhumra Road, Nishatabad, Faisalabad
(iv).	Plant Location	56-KM Jhang-Sargodha Road, Bhone, District Jhang, Punjab.
(v).	Type of Generation Facility	Bagasse Fired Thermal Generation

**(B). Plant Configuration**

(i).	Plant Size/ Installed Capacity	20.00 MW
(ii).	Type of Technology	Steam Turbine (S.T.)
(iii).	Number of Units/Size (MW)	1 x 20.00 MW S.T.
(iv).	Unit Make & Model	STAL-LAVL Sweden
(v).	Commissioning/ Commercial Operation date (at re-located Site)	March 31, 2011
(vi).	Expected Life of the Facility from Commercial Operation Date	20 Years

\* As provided by the Shakarganj Energy (Private) Limited

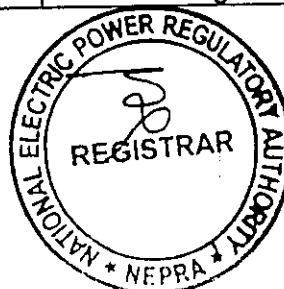


(C). Fuel/Raw Material Details

(i).	Primary Fuel	Bagasse	
(ii).	Alternate/Start-Up Fuel	Furnace Oil (FO)	
(iii).	Fuel Source (Imported/Indigenous)	Primary Fuel	Alternative Fuel
		Indigenous	To purchase from PSO/Shell
(iv).	Fuel Supplier	Primary Fuel	Alternative Fuel
		Shakarganj Mills Limited, Bhone, District Jhang	PSO/Shell
(v).	Supply Arrangement	Primary Fuel	Alternative Fuel
		Through → Conveyor Belts/Loading Trucks/Tractor Trolleys etc	Oil Tanker
(vi).	Sugarcane Crushing Capacity	8000 Tons/Day	
(vii).	Bagasse Generation Capacity	2400 Tons/Day	
(viii).	Fuel Storage facilities	Primary Fuel	Alternative Fuel
		Bulk Storage	02
(ix).	Capacity of Storage facilities	Primary Fuel	Alternative Fuel
		40,000 Tons (approximately) Bulk Storage	200 M <sup>3</sup>
(x).	Gross Storage Capacity	Primary Fuel	Alternative Fuel
		40,000 Tons (approximately) Bulk Storage	400 M <sup>3</sup>

*[Handwritten signature]*

*[Handwritten signature]*



(D). Emission Values

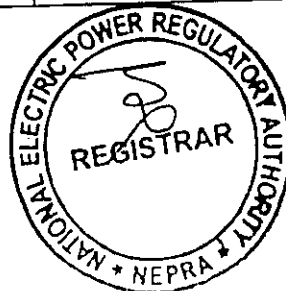
		Primary Fuel	Alternative Fuel
(i).	SO <sub>x</sub>	0.0197 p.p.m.	To be provided later on
(ii).	NO <sub>x</sub>	0.0573 p.p.m.	To be provided later on
(iii).	CO <sub>2</sub>	355 p.p.m.	To be provided later on
(iv).	CO	3.00 p.p.m.	To be provided later on
(v).	PM <sub>10</sub>	To be provided later on	To be provided later on

(E). Cooling System

(i).	Cooling Water Source/Cycle	Tube wells/Closed Loop
------	----------------------------	------------------------

(F). Plant Characteristics

(i).	Generation Voltage	11 KV
(ii).	Frequency	50 Hz
(iii).	Power Factor	0.9
(iv).	Automatic Generation Control (AGC)	Yes
(v).	Ramping Rate	1 MW/min
(vi).	Time required to Synchronize to Grid and loading the complex to full load.	20 Minutes

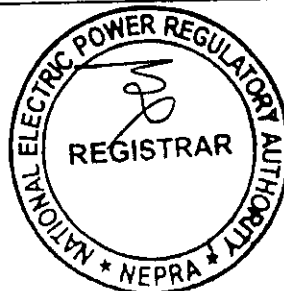


**Information Pertaining to the  
 Bulk Power Consumer (in the Name of Shakarganj Mills Limited) of the  
 Licensee [i.e. Shakarganj Energy (Private) Limited (SEPL)]**

A.	No. of Consumers	One (01)	
B.	Location of consumers (distance and/or identity of premises)	56-KM Jhang-Sargodha Road, Bhone, District Jhang, Punjab	
C.	Contracted Capacity and Load Factor for consumer	Shakarganj Mills Limited (SML)	8.00-10.00 MW
D.	Specify Whether		
	(i)	The consumer is an Associate undertaking of the SEPL- If yes, specify percentage ownership of equity;	Yes/5%
	(ii)	There are common directorships:	Yes
	(iii)	Either can exercise influence or control over the other.	Only to the extent as envisaged in the Power Purchase Agreement
E.	Specify nature of contractual Relationship		
	(i)	Between SML and SEPL.	Firm Supply of Electric Power on Continuous basis
	(ii)	Between SML and FESCO.	SML is a Consumer of FESCO under Tariff Category of B-3
F.	Any other network information deemed relevant for disclosure to or consideration by NEPRA.	N/A	

*[Handwritten signature]*

*[Handwritten signature]*

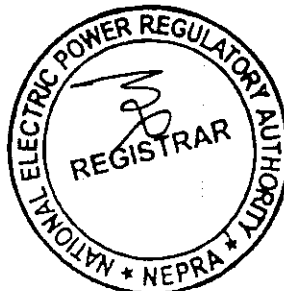


**Information Regarding Distribution Network for  
 Supply of Power to Bulk Power Consumer (in the Name of  
 Shakarganj Mills Limited-SML)**

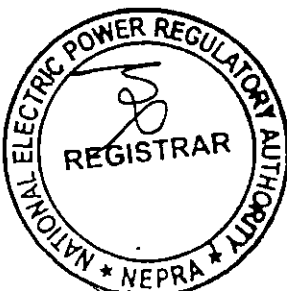
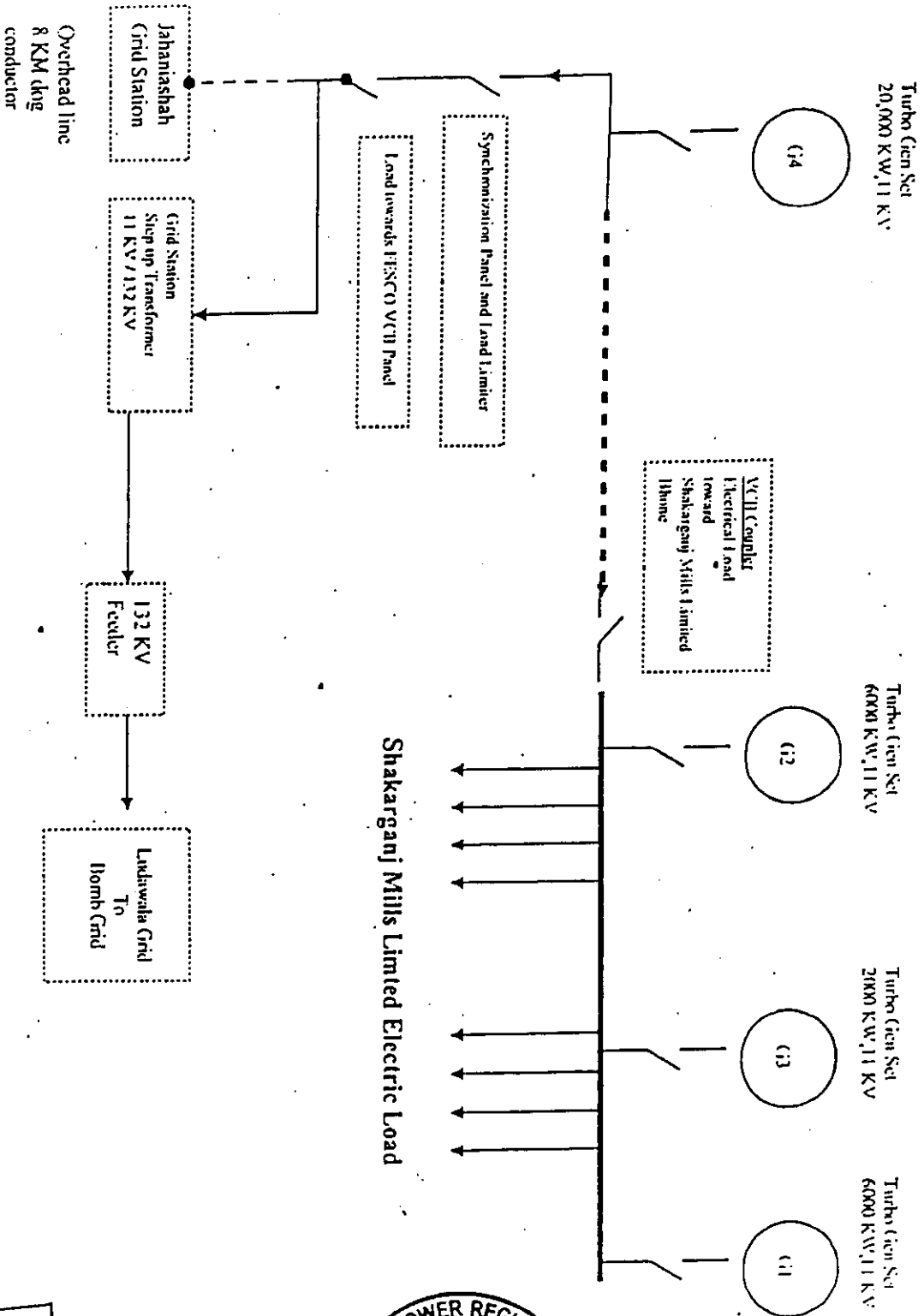
A.	No. of Feeders	One (01)
B.	Length of Each Feeder (Meter)	50 Meter
C.	Length of Each Feeder to each Consumer	-do-
D.	In respect of all the Feeders, describe the property (streets, farms, Agri land, etc.) through, under or over which they pass right up to the premises of customer, whether they cross-over or pass near the DISCO lines.	The 11 KV Underground Cable supplying power to SML is located on private property owned by itself without crossing of any property of public or third part private property etc.
E.	Whether owned by SEPL, Consumer or FESCO -(deal with each Feeder Separately)	
	- If owned by FESCO, please furnish particulars of contractual arrangement	N/A
	- Operation and maintenance responsibility for each feeder	The Operation and Maintenance is the responsibility of SML.
F.	Whether connection with network of FESCO exists (whether active or not)- If yes, provide details of connection arrangements (both technical and contractual)	A B-3 Connection (1000 KW) exists for SML. It is used for supply of power to SML during non crushing season.
G.	Any other network information deemed relevant for disclosure to or consideration by NEPRA.	N/A

*[Handwritten signature]*

*[Handwritten signature]*



Line Diagram of 20 MW Turbo Gen Set with Shakarganj Mills Limited Power House

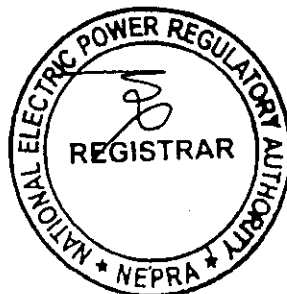


*[Handwritten signature]*

**SCHEDULE-II**

The Installed, De-Rated, Auxiliary and Net Capacity of the Licensee's  
Generation Facilities

*[The table area is mostly blank, with a large diagonal line drawn across it from the bottom-left to the top-right. There are some faint handwritten marks at the bottom left corner.]*



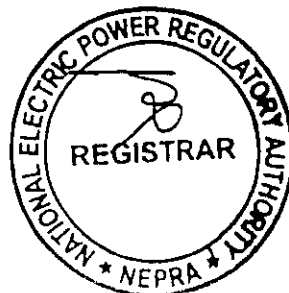
## SCHEDULE-II\*

1.	Plant Size/ Installed Capacity	20.00 MW
2.	De-rated Capacity at Mean Site Conditions	18.00 MW
3.	Auxiliary Consumption	0.50 MW
4.	Net Capacity of the Plant at Mean Site Conditions	17.50 MW

**Note**

All the above figures are indicative as provided by the Licensee. The Net Capacity available to FESCO for dispatch will be determined through procedure(s) contained in the Bi-lateral Agreement(s), Grid Code or any other applicable document(s).

\* As provided by Shakarganj Energy (Private) Limited





Authorization  
by National Electric Power Regulatory Authority (NEPRA) to  
Shakarganj Energy (Private) Limited

Incorporated under the Companies Ordinance, 1984  
Under Certificate of Incorporation

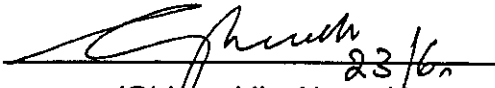
No. 0065020, dated April 2, 2008


NEPRA GENERATION LICNCE No. SGC/46/2009

For  
Sale to Bulk Power Consumer(s)

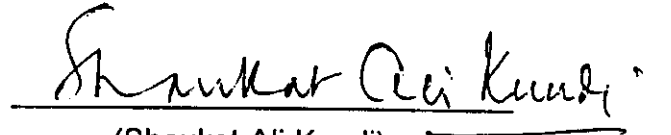
Pursuant to Section 22 of the Act and Rule 7 of the NEPRA Licensing (Generation) Rules-2000, the Authority hereby authorize Shakarganj Energy (Private) Limited (Licensee) to engage in second-tier supply business, limited to the following consumers also mentioned in Modified Schedules-I (Modification-I) of the Generation Licence No. SGC/46/2009.

(a). Shakarganj Mills Limited

  
(Ghiasuddin Ahmed)  
Member

  
(Maqbool Ahmad Khawaja)  
Member

  
(Zafar Ali Khan)  
Member

  
(Shaukat Ali Kundi)  
Member/Vice Chairman 28.06.2011

ON Leave

(Khalid Saeed)  
Chairman

