



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

No. NEPRA/R/LAG-119/2245-47

May 12, 2009

Mr. Khalil Ahmed Baloch
General Manager (Admn)
Sapphire Textile Mills Limited
149-Cotton Exchange Building,
I.I. Chundrigar Road,
Karachi

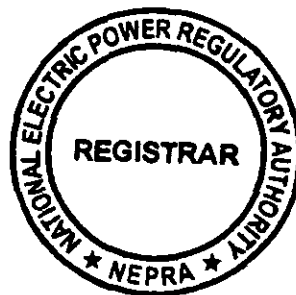
Subject: Generation Licence No. SGC/47/2009
Licence Application No. LAG-119
Sapphire Textile Mills Limited (STML)

Reference: Your letter No. nil, dated August 05, 2008

Enclosed please find herewith Generation Licence No. SGC/47/2009 granted by the Authority to Sapphire Textile Mills Limited (STML) pursuant to Section 15 of the Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997).

2. Please quote above mentioned Generation Licence No. for future correspondence.

Enclosure: Generation Licence
(No. SGC/47/2009)




(Engr. Arshad Mehmood)

Copy to:

1. Chief Executive Officer, Hyderabad Electric Supply Company Limited (HESCO), WAPDA Offices Complex, Hussainabad, Hyderabad
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

No. SGC/47/2009

In exercise of the Powers conferred upon the National Electric Power Regulatory Authority (NEPRA) under Section 15 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (XL of 1997), the Authority hereby grants a Generation Licence to:

Sapphire Textile Mills Limited
Incorporated under the Companies Act, 1913
Under Certificate of Incorporation

No. KAR-2626 of 1968-69, dated March 11, 1969

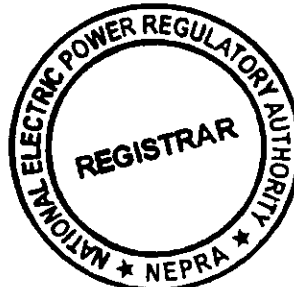
For its Plant located at Plot No. D-15, SITE KOTRI, District Dadu, Sindh

(Installed Capacity: 5.01 MW Gross ISO)

to engage in generation business subject to and in accordance with the Articles of this Licence.

Given under my hand this 12th day of May, Two Thousand & Nine, and expires on 12th day of May, Two Thousand & Twenty One.


Registrar



Article-1
Definitions

1.1 In this Licence

- (a) "Act" means the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (XL of 1997);
- (b) "Authority" means the National Electric Power Regulatory Authority constituted under Section 3 of the Act;
- (c) "Licensee" means Sapphire Textile Mills Limited;
- (d) "Power Purchaser" means a Distribution Licensee or a Bulk Power Consumer who purchases electricity from the Licensee, pursuant to a power purchase agreement for procurement of electricity;
- (e) "Rules" mean the National Electric Power Regulatory Authority Licensing (Generation) Rules, 2000.

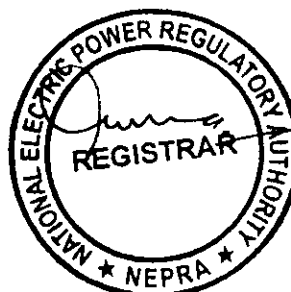
1.2 Words and expressions used but not defined herein bear the meaning given thereto in the Act or in the Rules.

Article-2
Application of Rules

This Licence is issued subject to the provisions of the Rules, 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 power generation facilities of the Licensee are set out in Schedule-I to this Licence.

3.2 The net capacity of the Licensee's generation facilities is set out in Schedule-II hereto.

Article-4
Term of Licence

4.1 The Licence is granted for a term of twelve (12) years.

4.2 Unless revoked earlier, the Licensee may apply ninety days (90) days prior to the expiry of the term of the Licence, for renewal of the Licence under the Licensing (Application and Modification Procedures) Regulation, 1999

Article-5
Licence Fee

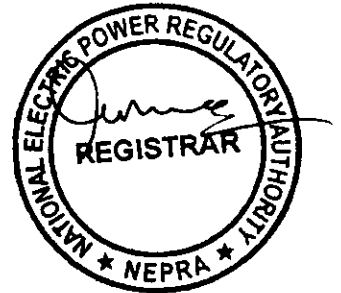
After the grant of the Generation Licence, the Licensee shall pay to the Authority the Licence Fee, in the amount and manner and at the time set out in National Electric Power Regulatory Authority (Fees) Rules, 2002.

Article-6
Tariff

The Licensee is allowed to charge such tariff which has been agreed between the Licensee and the Power Purchaser, pursuant to a power purchase agreement.

Article-7
Competitive Trading Arrangement

7.1 The Licensee shall participate in such measures as may be directed by the Authority, from time to time, for the development of a Competitive Trading Arrangement. 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 between the Licensee and another party with the approval of the Authority.

7.2 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 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 conform to the relevant NEPRA rules on Performance Standards as may be prescribed by the Authority from time to time.

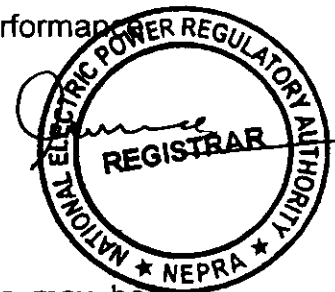
Article-10
Compliance with Environmental Standards

The Licensee shall conform to the environmental standards as may be prescribed by the relevant competent authority from time to time.

Article-11
Provision of Information

11.1 The obligation of the Licensee to provide information to the Authority shall be in accordance with Section 44 of the Act.

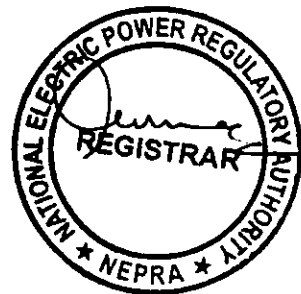
11.2 The Licensee shall be subject to such penalties as may be specified in the relevant rules made by the Authority for failure to furnish such information as may be required from time to time by the Authority and which is or ought to be or has been in the control or possession of the Licensee.

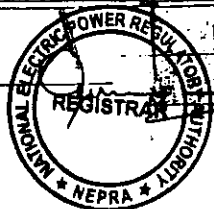


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SCHEDULE-I

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.





POWER DISTRIBUTION LAYOUT PLAN

CAT# 5 (1110 KW)
(SINCE 2004)

CAT# 4 (965 KW)
(SINCE 1995)

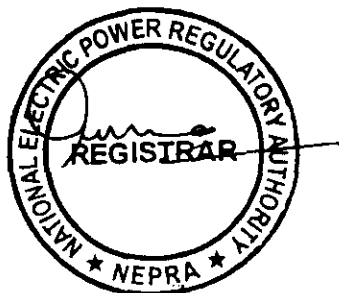
CAT# 3 (965 KW)
(SINCE 1996)

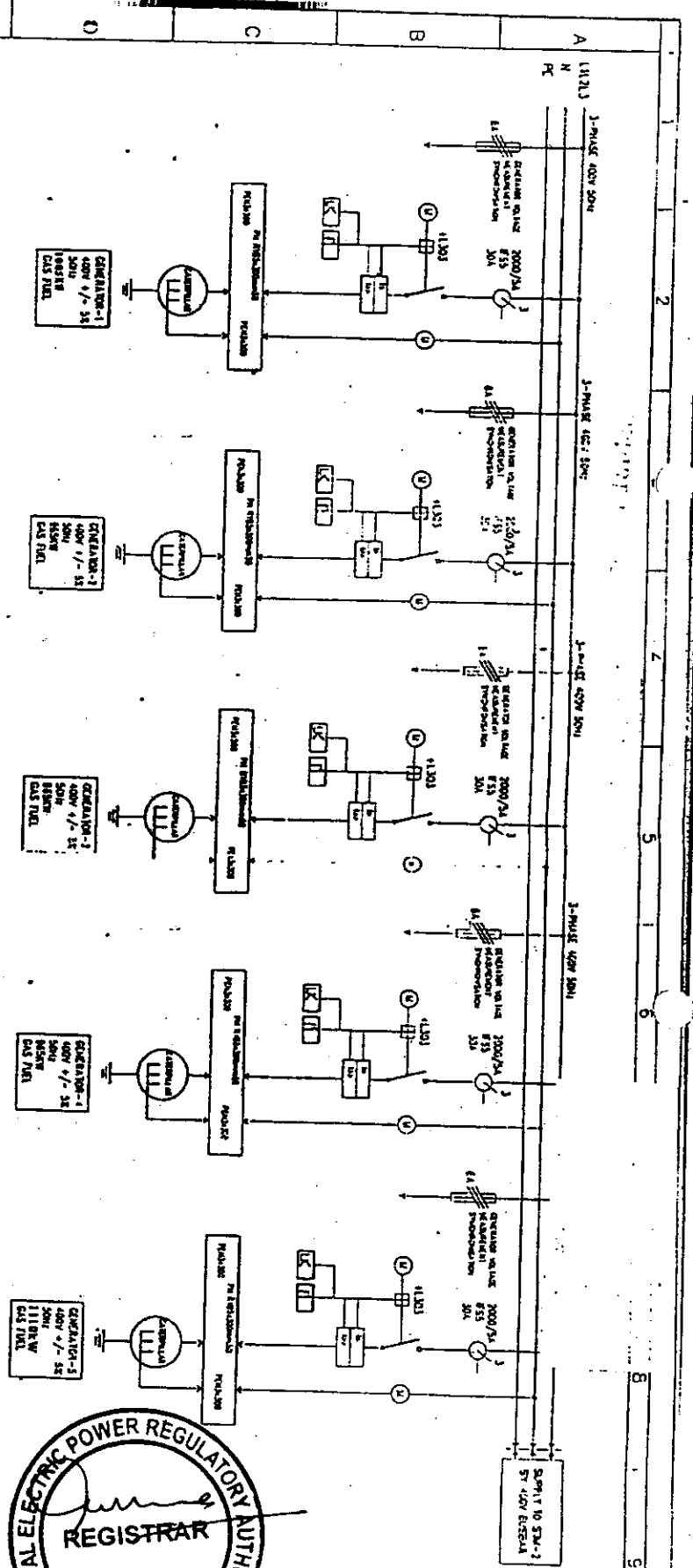
CAT# 2 (965 KW)
(SINCE 1996)

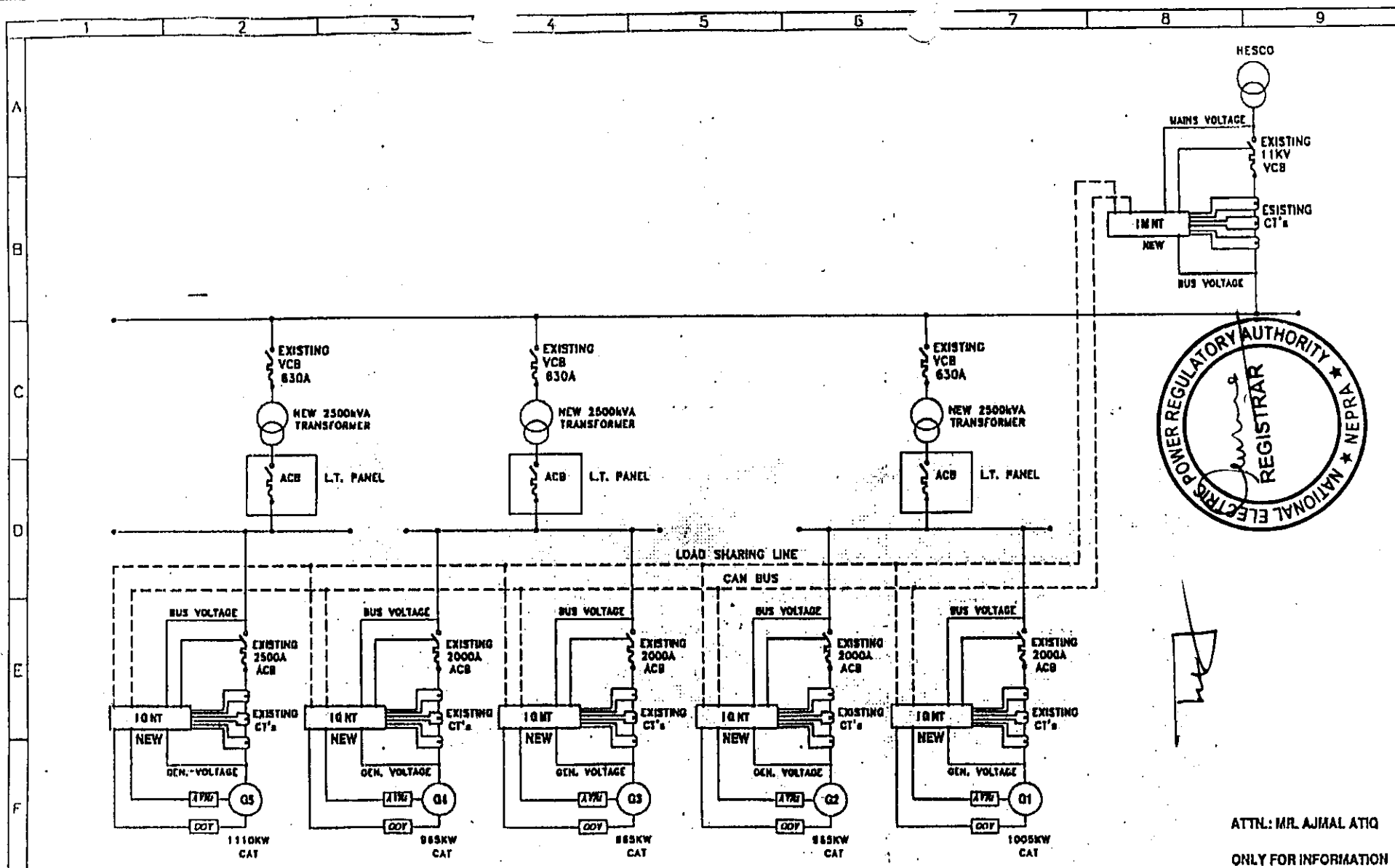
CAT# 1 (1005 KW)
(SINCE 2003)

CB 2000 CAT#4	CB 2000 CAT#3	CB 2000 CAT#2	CB 2000 CAT#1	CB 2000 CAT#5
			400 V	400 V
	400 V			

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Page 4 of 9 of Schedule -1



ATTN: MRL AJMAL ATIQ

ONLY FOR INFORMATION

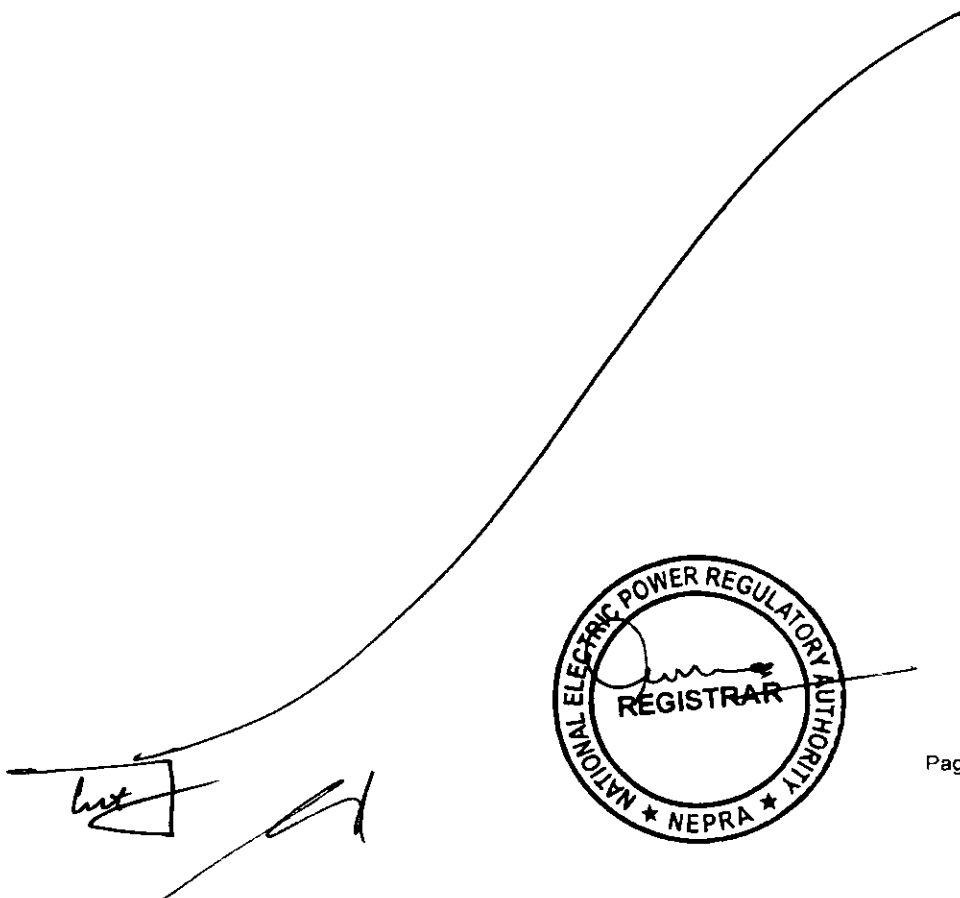
Rev.3	Project	Scale	N.T.S.	Client	W/s SAPPHIRE TEXTILE MILLS - KOTRI	Title : SINGLE LINE DIAGRAM FOR SYNCHRONIZING SYSTEM		
Rev.2	SYNCHRONIZING WITH HESCO	Date	26-01-2008	R.A. ENGINEERING & SERVICES		Quantity :	01	Sheet : 1/1 Rev. : 0
Rev.1	Consultant	Worked by	BM			Drawings # :	SLINE-1	Work Order # : SAPPHIRE KOTRI
		Checked by	QMR					

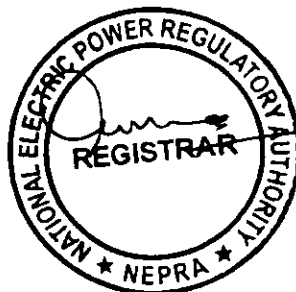
**INTERCONNECTION/TRANSMISSION
ARRANGEMENT FOR THE DISPERSAL OF
POWER FROM THE POWER PLANT**

The Power generated by Sapphire Textile Mills Limited (STML) from its Thermal Power Generation facility, shall be dispersed to the Load Center of Hyderabad Electricity Supply Company Limited (HESCO).

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 December 17, 2008, signed between STML and HESCO.

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





Plant Details*

1. General Information

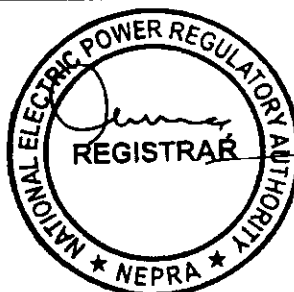
(i).	Name of Applicant	Sapphire Textile Mills Limited
(ii).	Registered/Business Office	313, Cotton Exchange Building I.I. Chundrigar Road Karachi.
(iii).	Plant Location	Plot No. D-15, Site Kotri, District Dadu, Sindh
(iv).	Type of Generation Facility	Thermal Generation

2. Plant Configuration

(i).	Plant Size Installed Capacity (Gross ISO)	5.01 MW		
(ii).	Type of Technology	Gas Engines		
(iii).	Number of Units/Size (MW)	Unit-1~3	Unit-4	Unit-5
		0.965 MW	1.005 MW	1.110 MW
(iv).	Unit Make & Model	Unit-1~3	Unit-4	Unit-5
		Caterpillar 3516 4EK	Caterpillar 3516 CSZ	Caterpillar 3516 B
(v).	De-rated Capacity at Mean Site Conditions	4.509 MW		
(vi).	Auxiliary Consumption	0.105 MW		
(vii).	Date of Commissioning /Operation	Unit-1~3	Unit-4	Unit-5
		1995/1996	2003	2004
(viii).	Expected Life of the Facility from Commissioning/ Operation Date	25 Years		

* As provided by the Applicant



	(Average)	
(ix).	Remaining Useful Life of the Facility	12 Years

3. Fuel Details

(i).	Fuel	Natural Gas
(ii).	Fuel Source (Imported/Indigenous)	Indigenous
(iii).	Fuel Supplier	Sui Southern Gas Company (SSGC)
(iv).	Supply Arrangement	Through Pipeline

4. Emission Values

(i).	SO _x	N/A
(ii).	NO _x	<650 mg/Nm ³
(iii).	CO	<986 mg/Nm ³
(iv).	PM ₁₀	N/A

5. Cooling System

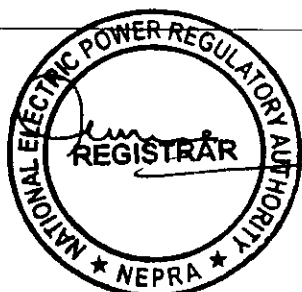
(i).	Cooling Water Source/Cycle	Canal Water supplied by SITE Association Kotri after necessary treatment/Closed Loop
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6. Plant Characteristics

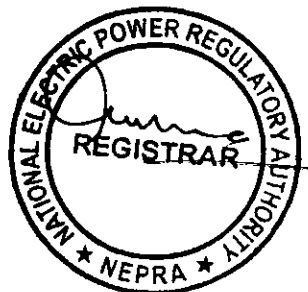
(i).	Generation Voltage	400 Volt
(ii).	Frequency	50 Hz

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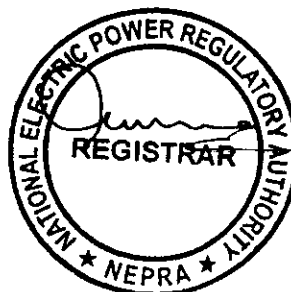


(iii).	Power Factor	0.80 Lagging
(iv).	Automatic Generation Control (AGC)	AVR Control
(v).	Ramping Rate	0-180 Second
(vi).	Time required to Synchronize to Grid and loading the complex to full load.	30 Second (max)



SCHEDULE-II

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



SCHEDULE-II*

1.	Installed Capacity Gross ISO	5.01 MW
2.	De-rated Capacity at Mean Site Conditions	4.509 MW
3.	Auxiliary Consumption	0.105 MW
4.	Net Capacity of the Plant at Mean Site Conditions	4.404 MW

Note

All the above figures are indicative as provided by the Licensee. The Net Capacity available to HESCO 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 the applicant

