



National Electric Power Regulatory Authority
Islamic Republic of Pakistan

Registrar

2nd Floor, OPF Building, G-5/2, Islamabad.
Ph : 9207200 Ext : 330 — Fax : 9210215
E-mail : office@nepra.isb.sdnpk.org
Direct Phone : (051) 9206500

No. NEPRA/R/LAG-45/ 8889

27-01-2004

Chief Executive,
M/s. Genertech Pakistan Ltd.
31/C-1, Ghalib Road,
Gulberg III
Lahore

Subject: **Grant of Generation Licence SGC/016/2004**
Licence Application No. RI 10-1-03.015
M/s. Genertech Pakistan Ltd.

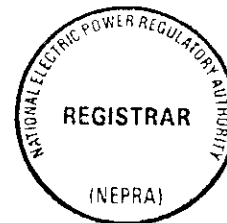
Please refer to your application No. DF/GPLNEPRA/01, dated 25-05-2000 to NEPRA for a Generation Licence.

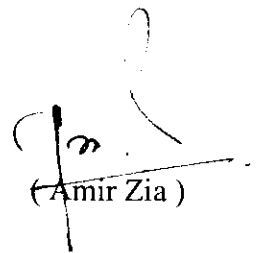
2. Enclosed here is Generation Licence No. SGC/016/2004 granted by the Authority to M/s. Genertech Pakistan Ltd. The Licence is granted to you pursuant to Section 15 of the Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997).

3. Also enclosed here is the 'Authorization' pursuant to Section 22 of the Act and Rule 7 of NEPRA Licensing (Generation) Rules - 2000 for sale to bulk power consumers.

4. Please quote above mentioned Generation Licence No. in your future correspondence with the Authority.

DA/As above.




(Amir Zia)

Copy for information to Director General, Pakistan Environmental Protection Agency, 44-E, Office Tower, Blue Area, Islamabad.

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

GENERATION LICENCE

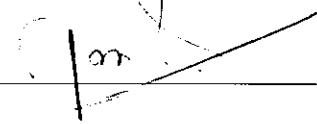
NO. SGC/016/2004

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

M/s Genertech Pakistan Limited
incorporated under the Companies Ordinance, 1984
under Certificate of Incorporation
No.L-02460 dated 24th May, 1990

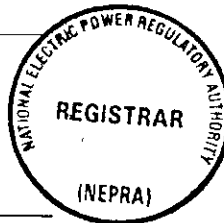
to engage in the generation business for delivery and sale to the consumers mentioned in schedule I subject to and in accordance with the terms and conditions of the Licence

Issued under my hand at Islamabad this 27th day of January two thousand and four.



Signed

Date: 27-01-04





Article 1
Application of Rules

Save as expressly provided otherwise, the provisions of the National Electric Power Regulatory Authority Licensing (Generation) Rules, 2000 as amended from time to time shall apply to this Licence.

Article 2
Definitions

Unless there is anything repugnant in the subject or context and save as expressly defined hereinafter, words and expressions used in this Licence bear the respective meanings given thereto in the Act or in the Rules.

Article 3
Grant of Licence

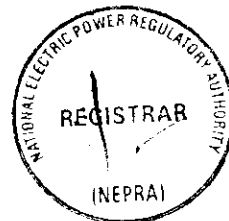
- 3.1 The location , size (capacity in MW) , technology, interconnection arrangements , technical limits, technical functional specifications and other details specific to the generation facilities of the licensee are set out in Schedule I of this Licence.
- 3.2 The net capacity of the licensee's generation facilities is set out in Schedule II hereto.

Article 4
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 5
Term and Renewal of Licence

This Licence is granted for a term of fourteen (14) years.



**Article 6
Tariff**

The licensee shall charge from its consumers only such tariff which is either approved or specified by the Authority.

**Article 7
Distribution Facilities of licensee.**

The licensee may hand over ownership and control of its distribution facilities to the DISCO in whose service territory the licensee is operating on terms and conditions as approved by NEPRA; in the event, it wishes to retain ownership and control of its distribution facilities, it shall apply for a distribution licence within one month from the grant of this generation licence, in accordance with the relevant NEPRA Rules.

**Article 8
Connection to Transmission System,
Compliance with Grid Code,
Pooling and Settlement Arrangement**

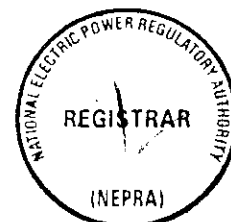
Rule 10 of the Rules shall apply only to those SPPs whose generation facilities are connected directly or indirectly at voltage of 132 kV or above.

**Article 9
Generating Capacity Reserve Requirements**

The installed generating capacity of the licensee shall not fall below 85% (95% in the case of a single consumer on a distribution feeder) of the connected load and generating capacity of the largest installed unit at the time of application for generation licence.

**Article 10
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 11
Compliance with Environmental Standards

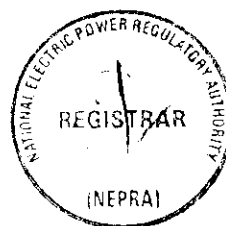
The licensee shall conform to the environmental standards as may be prescribed by the relevant competent authority.

Article 12
Maintenance of Record

- 12.1 The licensee shall keep complete and accurate record and data in respect of all aspects of the generation business and the second-tier supply business, in their original as well as in electronic form.
- 12.2 Without prejudice to the provisions of Rule 15(3) of the Rules, unless provided otherwise under the law or the applicable documents, all record and data shall be maintained for a period of five (5) years after the creation of such record or data. The licensee shall not destroy or dispose off any such record or data after the aforesaid period without thirty days prior written notice to the Authority. The licensee shall also not dispose off or destroy any record or data which the Authority directs the licensee to preserve.
- 12.3 All record and data maintained in an electronic form shall, subject to just claims of confidentiality, be accessible to the staff authorized by the Authority.

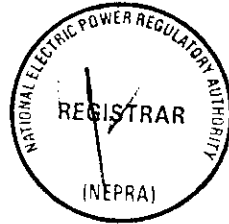
Article 13
Provision of Information

- 13.1 The obligation of the licensee to provide information to the Authority shall be in accordance with Section 44 of the Act.
- 13.2 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 have been in the control or possession of the licensee.



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



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PLANT DETAILS

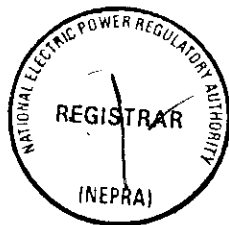
- | | | |
|----|-------------------|---|
| 1. | Name of Applicant | Genertech Pakistan Limited |
| 2. | Registered Office | 31/C-I, Ghalib Market, Gulberg-III, Lahore |
| 3. | Plant Location | 49 Km, Multan Road, Adda Saran, Near Bhai Pheru |
| 4. | Type of Facility | Thermal Generation |

Plant Configuration

- | | | |
|-----|--|---|
| 5. | Total Plant Installed Capacity | 27.52 MW |
| 6. | Type of Technology | Diesel Electric |
| 7.a | Number of Units | Five |
| | Unit Size | 5.30 MW |
| | Unit Make and Model, Date of Manufacture | Niigata 16 V 32 CLX
Unit # 1-4 in 1994
Unit # 5 in 1995 |
| | Date of Commissioning | Unit # 1-4 in 1994
Unit # 5 in 1995 |
| 7.b | Number of Units | One |
| | Unit Size-MW | 1.02 MW |
| | Unit make & Model | Caterpillar 3512 |
| | Date of Manufacture | 1994 |
| | Date of Commissioning | 1994 |

Fuel Use

- | | | | |
|-----|-----------------------------|---------------------------------|-----------|
| 8.a | Fuel Type | HFO | |
| 8.b | Fuel (Imported/indigenous) | Both, depending on availability | |
| 8.c | Fuel Supplier | Shell/Caltex/PSO | |
| 8.d | Supply Agreement | Road /Tankers | |
| 8.e | No. of Tanks | Two | One |
| 8.f | Storage Capacity/Tank | 1800 Tons | |
| 8.g | Gross Storage | 3600 Tons | 2500 Tons |
| 8.h | Total Gross Storage | 6100 Tons | |

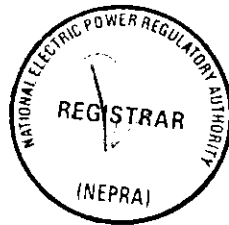


Emission Values

9.a	So ₂	950 PPM (8.78 Tonnes/day)
9.b	Nox	1200 PPM
9.c	CO	6 %
9.d	Particulate	Not applicable
10.	Cooling Water Source	Tube Well
11.	Installed Capacity	27.52 MW
12.	Derated Capacity	27.52 MW
13.	Expected Remaining Life of the Facility	Twenty-Five Years
14.	Operational Record	Included in Section 16 of the Licence Application

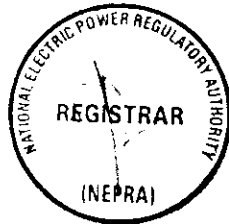
Project Cost

			Total	
15.a	Equity (Thousand Rupees)	235,229.641	-	235,229.641
15.b	Debt (Thousand Rupees)	477,636.354	104,313.251	581,949.605
15.c	Total project Cost (Thousand Rupees)	712,865.995	101,313.251	817,179.246



Plant Characteristics

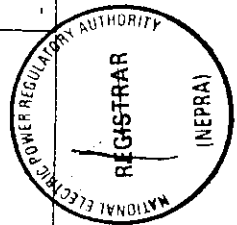
16.a	Generation Voltage (Volts)	11000 V
16.b	Frequency	50 Hz
16.c	Power Factor	0.8 lagging
16.d	Automatic Generation Control	Provided
16.e	Ramping Rate	0.10 % Per second
16.f	Alternative Fuel	LDO/HSD
16.g	Auxiliary Consumption	3,840,000 kWh during 1999
16.h	Time Required to Synchronize to Grid	Not Applicable since unit is not connected to LESCO Grid.



Genertech Pakistan Limited (GPL)
SPP Licenses – Performance Information Regarding
Distribution issues

(Part A)

A	B	C	D	E	F
No. of Feeders	Length of Each Feeder (mtrs)	Length of Each Feeder to Each Consumer	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 customer's premises, and whether they cross-over or pass near the DISCO lines.	Whether owned by SPP, consumer or DISCO – (deal with each Feeder separately) - If owned by DISCO, please furnish particulars of contractual arrangement. - Operation and maintenance responsibilities for each Feeder	Whether connection with DISCO's network exists (whether active or not) – If yes, provide details of connection arrangements (both technical and contractual)
Feeder No. 1	210	210	- Consumer & GPL land	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --
Feeder No. 2	2500	2500	- Consumer & GPL land	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --
Feeder No. 4	800	800	- Consumer & GPL land	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --
Feeder No. 5	700	700	- Consumer & GPL land	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --
Feeder No. 6	2400	2400	- Other privately owned land - Over head line - LESCO line Crossing with insulated conductors - Road crossings	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --



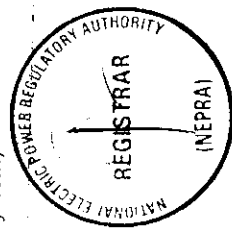
A	B	C	D	E	F
No. of Feeders	Length of Each Feeder (mtrs)	Length of Each Feeder to Each Consumer	In respect of all the Feeders, describe the property (streets, farms, agri land, etc.) through under or over which they pass right up to the customer's premises, and whether they cross-over or pass near the DISCO lines.	Whether owned by SPP, consumer or DISCO - (deal with each Feeder separately) - If owned by DISCO, please furnish particulars of contractual arrangement. - Operation and maintenance responsibilities for each Feeder	Whether connection with DISCO's network exists (whether active or not) - If yes, provide details of connection arrangements (both technical and contractual)
Feeder No 7	441	441	- Consumer & GPL land	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --
Feeder No 8	441	441	- Consumer & GPL land	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --
Feeder No 9	500	500	- Consumer & GPL land	- Owned by GPL - GPL responsible for maint. And operation of feeder	-- No --



2

(Part B)

A	B	C		D			E	F	G			
No. of	Location of Consumers	Connected	Load	Specify whether the consumer is an associated undertaking of the SPP* - if yes, specify percentage ownership of equity:			Specify of nature of contractual relationship b/w each consumer and the SPP; and	Capacity originally sanctioned by Provincial Govt.	Tand with Provincial Govt.			
Cons.	Intensity of Premises	Capacity (MW)	Factor	i.	ii.	iii.	I)	II)	III)			
1.	Nislat Chuman #1 (adjacent)	2.4	Variable	NA	NA	NA	Firm supply of electricity on continuous basis	I	II	III	B3	As per Provincial Govt. Approval and same as WAPDA
2.	Umer Fabrics #1 (adjacent)	2.5	Variable	NA	NA	NA	Firm supply of electricity on continuous basis	I	II	III	B3	As per Provincial Govt. Approval and same as WAPDA
3.	Umer Fabrics #2 (adjacent)	1.8	Variable	NA	NA	NA	Firm supply of electricity on continuous basis	I	II	III	B3	As per Provincial Govt. Approval and same as WAPDA
4.	Taj Textile #1 (adjacent)	1.8	Variable	YES 6.67%	YES	YES	Firm supply of electricity on continuous basis	I	II	III	B3	As per Provincial Govt. Approval and same as WAPDA
5.	Taj Textile #2 (adjacent)	2.0	Variable	YES 6.67%	YES	YES	Firm supply of electricity on continuous basis	I	II	III	B3	As per Provincial Govt. Approval and same as WAPDA
6.	Taj Textile #3 (Elahi Weav.) (adjacent)	1.0	Variable	YES 6.67%	YES	YES	Firm supply of electricity on continuous basis	I	II	III	B3	As per Provincial Govt. Approval and same as WAPDA



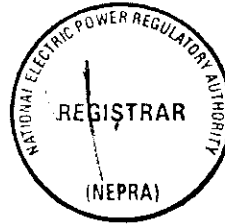
7.	Nishat Churahi (Warning)	2-100 meters.	2.8	Variable	NA	NA	NA	Firm supply of electricity on continuous basis	Nil
8.	Nishat Chumra (#1)		2.0	Variable	NA	NA	NA	Firm supply of electricity on continuous basis	Nil
9.	Ramzan Bakhsh (Warning)		1.8					Firm supply of electricity on continuous basis	B+
10.	Khalid Sany (adjacent)	2500 meters.	1.7	Variable	NA	NA	NA	Firm supply of electricity on continuous basis	B+
11.	Barkat Textile (adjacent)		0.7					Firm supply of electricity on continuous basis	B+

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SCHEDULE - II

- The net capacity of the licensee's generation facilities



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SCHEDULE II

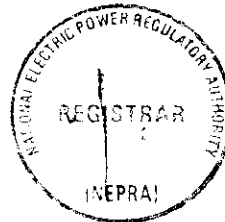
GROSS INSTALLED CAPACITY (MW)

$$(5 \times 5.30) + (1 \times 1.02) = 27.52 \text{ MW}$$

DERATED CAPACITY (MW) = 27.52 MW

AUXILIARY CONSUMPTION (MW) = 0.59 MW

NET CAPACITY OF THE PLANT (MW) = 26.93 MW



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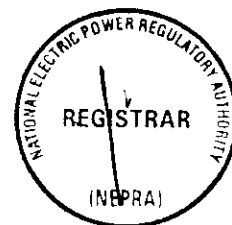
Authorization by National Electric Power Regulatory Authority
To
M/s Genertech Pakistan Limited
Incorporated under the Companies Ordinance, 1984
Under Certificate of incorporation No. L-02460 dated 24th May, 1990
NEPRA Generation Licence No. SGC/016/2004
For
Sale to Bulk Power Consumers

Pursuant to Section 22 of the Act and Rule 7 of the NEPRA Licensing (Generation) Rules – 2000, the Authority hereby authorizes M/s Genertech Pakistan Limited (Licensee) to engage in second-tier supply business, limited to the following consumers also mentioned in Schedule I of Generation Licence No. SGC/ 016 / 2004 .

Subject to NEPRA rules and regulations, the Licensee shall charge its consumers only the second-tier supply charge at the rate of Rs. 4.00 per Kwh as determined by the Authority in its determination dated 24-11-2003, ~~as per resolution of the Director General~~


- 1) Nishat Chunian # 1 (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 2) Umer Fabrics # 1 (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 3) Umer Fabrics # 2 (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 4) Taj Textile # 1 (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 5) Taj Textile # 2 (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 6) Taj Textile # 3 (Elahi Weav.) (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 7) Nishat Chunian (Weaving), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 8) Nishat Chunian (# 2), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 9) Ramzan Bakush (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru
- 10) Khalid Siraj (adjacent), 49Km, Multan Road, Adda Saran, Near Bhai Pheru

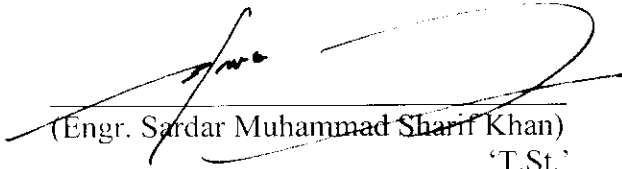


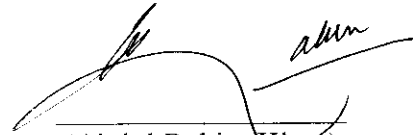


11) Barkat Textile (adjacent), 49Km, Multan Road, Adda Saran, Near
Bhai Pheru


(Fazlullah Qureshi)
Member


(Mansoor Elahi)
Member

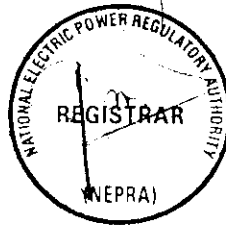

(Engr. Sardar Muhammad Sharif Khan)
'T.St.'
Member


(Abdul Rahim Khan)
Vice Chairman



Lt. Gen.(R) Saeed uz Zafar, HI (M)
Chairman

Page (2).



**Term of the Licence
(Article 5 of the Licence)
Genertech Pakistan Limited**

The rule 5 of the Licensing (Generation) Rules - 2000 stipulates that the term of Licence shall be commensurate with the maximum expected useful life of the units comprised in a generation facility demonstrated to the satisfaction of the Authority unless the applicant consents to a shorter period.

Genertech Pakistan Limited, has shown in its application No.DF/GPLNEPRA/01 dated 25th May, 2000 to NEPRA for a generation licence, remaining life of its facility as 25 years.

The Licensing Group considers that the Diesel Electric Generators normally have useful life of around 20 years. Since the plants of Genertech Pakistan Limited, were manufactured in 1994/1995 and commissioned in 1994/1995, therefore the Group recommends that the Licence be issued to Genertech Pakistan Limited, by the Authority for fourteen (14) years from the date of grant of Licence by the Authority.

AUTHORITY DECISION

The Authority agrees with the Licensing Group recommendations about the term of Licence. The Licence is granted for a term of fourteen (14) years.

Authority

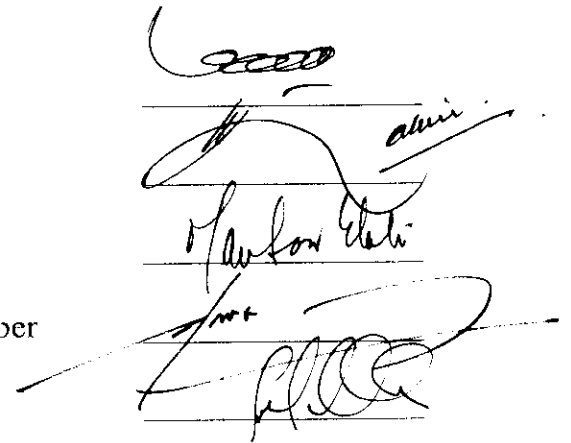
Lt. Gen. (R) Saeed uz Zafar, HI, Chairman

Mr. Abdul Rahim Khan, Vice Chairman

Mr. Mansoor Elahi, Member

Sardar Muhammad Sharif Khan T. St., Member

Mr. Fazlullah Qureshi, Member



The image shows four handwritten signatures, each written over a horizontal line. The signatures are in black ink and appear to be cursive. The first signature is at the top, followed by the second, third, and fourth signatures below it. The signatures are positioned to the right of the names listed in the 'Authority' section.

**Term of the Licence
(Article 5 of the Licence)
Genertech Pakistan Limited**

The rule 5 of the Licensing (Generation) Rules - 2000 stipulates that the term of Licence shall be commensurate with the maximum expected useful life of the units comprised in a generation facility demonstrated to the satisfaction of the Authority unless the applicant consents to a shorter period.

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Authority

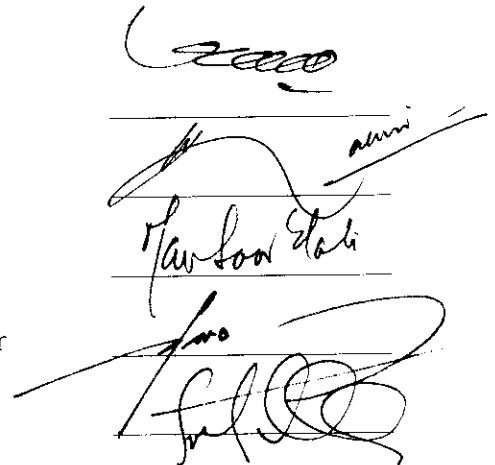
Lt. Gen. (R) Saeed uz Zafar, HI, Chairman

Mr. Abdul Rahim Khan, Vice Chairman

Mr. Mansoor Elahi, Member

Sardar Muhammad Sharif Khan T. St., Member

Mr. Fazlullah Qureshi, Member



The image shows four handwritten signatures corresponding to the members of the Authority listed on the left. The signatures are written in black ink on a white background. The first signature is for Lt. Gen. (R) Saeed uz Zafar, HI, Chairman. The second signature is for Mr. Abdul Rahim Khan, Vice Chairman. The third signature is for Mr. Mansoor Elahi, Member. The fourth signature is for Sardar Muhammad Sharif Khan T. St., Member. The fifth signature is for Mr. Fazlullah Qureshi, Member.