



Registrar

21.04.04

National Electric Power Regulatory Authority
Islamic Republic of Pakistan

2nd Floor, OPF Building, G-5/2, Islamabad.
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E-mail : office@nepra.isb.sdnpk.org
Direct Phone : (051) 9206500

No. NEPRA/R/LAG-43/9947-8

21-4-2004

Manager Administration
Nimir Industrial Chemicals Ltd.
51-N, Gulberg-II, Industrial Area,
Gurumanget Road,
Lahore.

Subject: **Grant of Generation Licence SGC/022/2004**
Licence Application No. RI 10-1-03.013
M/s. Nimir Industrial Chemicals Ltd.

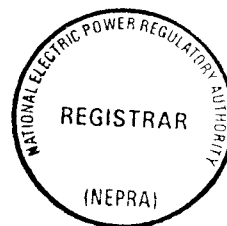
Please refer to your application No. nil dated 05-06-2000 to NEPRA for a Generation Licence.


2. Enclosed here is Generation Licence No. SGC/022/2004 granted by the Authority to M/s. Nimir Industrial Chemicals 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.




21.04.04
(Mahjoob Ahmad Mirza)

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/022/2004

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

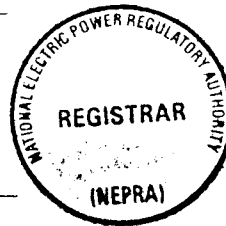
M/s Nimir Industrial Chemicals Limited
incorporated under the Companies Ordinance, 1984
under Certificate of Incorporation
No. L-06872 dated 5th March, 1998

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 21st day of April two thousand and four.

Signed

Date: 21.04.2004



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

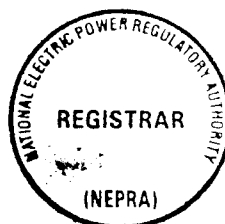
- 3.1 The location, size (capacity in MW), technology, interconnection arrangements, technical limits, technical functional specifications and other details specific to the generation facilities of the licensee are set out in Schedule I of this Licence.
- 3.2 The net capacity of the licensee's generation 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 five (5) years. Before the expiry of the term the Licensee is required to demonstrate to the satisfaction of the Authority about the useful life of its plant by carrying out due diligence report through an independent consultant.



**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 the 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**

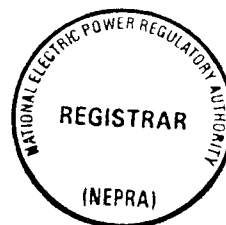
Rule 10 of the Rules shall apply only to those SPPs whose generation facilities are connected directly or indirectly at voltage of 132 kV or above

**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

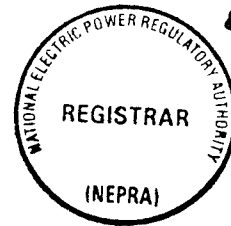
The licensee shall conform to the environmental standards as may be prescribed by the relevant competent authority.

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.

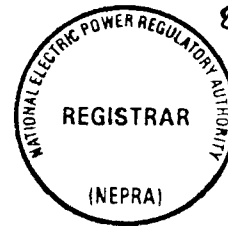
Article 13
Provision of Information

- 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.



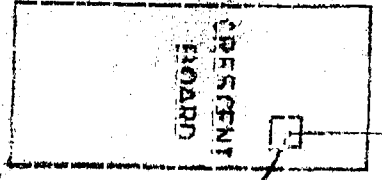
SCHEDULE - I

- 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



Attn: Mr. Humayun Zaigham
Genl. Muzammar ARIE

date 10/9-3 07



CANAL

KACHA ROAD

ROAD

FROM

SHEIKHUPURA

NIMIR CHEMICALS
PAKISTAN LIMITED
(FORMERLY DELTA PEST
PAKISTAN LTD)

PLOT

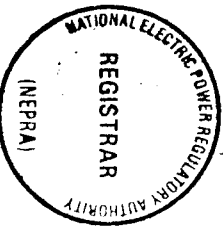
UNDER GROUND
TO NCP

OVER HEAD LINE

NIMIR INDUSTRIAL
CHEMICALS LIMITED
(FORMERLY RAVI ALKALIS LTD)

POWER HOUSE

NIMIR RESINS
LIMITED



427.58M

122.52M

33.50M

650

41

477.5

TO FAISALABAD

LOCATION MAP

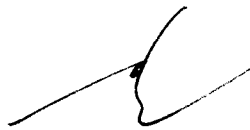
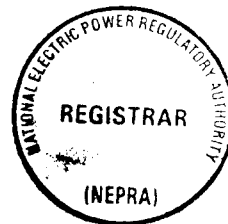
PLANT DETAILS

1.	Name of Applicant	Nimir Industrial Chemicals Limited
2.	Registered Office	51-N, Gulberg II, Lahore.
3.	Plant Location	14.8-Km Sheikhpura-Faisalabad Road, Bhikki, Sheikhpura
4.	Type of Facility	Thermal Generation

Plant Configuration

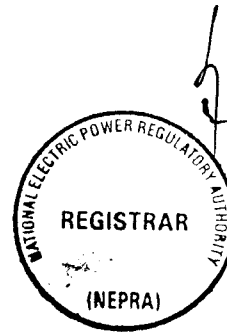
5.a	Plant size	13.0 MW		
5.b	Type of Technology	Steam Turbine Electric Generation		
5.c	Number of Units	One	One	One
5.d	Unit Size	4.50 MW	4.00 MW	4.50 MW
5.e	Unit Make and Model,	ABB	Siemens	AEG
		Dfe 30 Spez	T4545	G50 AK
5.f	Date of Manufacture	1971	1963	1972
5.g	Date of Commissioning	1996	Not yet commissioned	Not yet commissioned

	Fuel Use	(based on 9 months/year)	(based on 3 months/year)
6.a	Fuel Type	Natural Gas	HFO
6.b	Fuel (Imported/indigenous)	Indigenous	Both, depending on availability
6.c	Fuel Supplier	SNGPL	Local Market-through distributors
6.d	Supply Arrangement	Pipe Line	Road /Tankers
6.e	No. of Tanks	One	One
6.f	Storage Capacity/ Tank	700 Tons/Tank	200 Tons/Tank
6.g	Gross Storage	900 Tons	

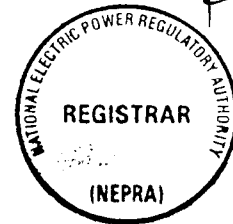
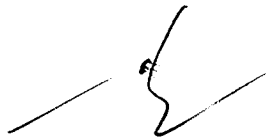
Emission Values

7.a	So2	250 PPM	[When run on fuel oil in Winter due to non-availability of Natural Gas].
7.b	Nox	280 PPM	
7.c	CO2	160 PPM	
8.	Cooling Water Source		Cooling Tower and Tube Well
9.	Installed Capacity		13.0 MW
10.	Derated Capacity		9.30 MW
11.	Expected Remaining Life of the Facility		Twenty Years
12.	Operational Record		Given in Section 16 of the Licence Application
13.	<u>Ancillary Services</u>		
13.a	Energy Imbalance Service		2.5%
13.b	Spinning reserve Service		45%
14.	<u>Project Cost</u>		
14.a	Equity (Thousand Rupees)		627,500.00
14.b	Debt (Thousand Rupees)		834,008.00
14.c	Total project Cost (Thousand Rupees)		1,461,508.00



15. Plant Characteristics

15.a	Generation Voltage (Volts)	6300 V
15.b	Frequency	50 Hz
15.c	Power Factor	0.80 lagging
15.d	Automatic Generation Control	Yes
15.e	Ramping Rate	Steam system takes 8-10 hours for boiler warm-up and 2-3 hours for steam pressure to build up
15.e.1	Cold Start	0.56% per minute after 10-13 hours of boiler warm-up and steam pressure build-up
15.e.2	Hot Start	0.83% per minute
15.f	Alternative Fuel	HFO
15.g	Auxiliary Consumption (1999)	2,955,000 kWh (as provided in Section 16 of the licence application)
15.h	Time Required to Synchronize to Grid	Not Applicable since unit is not connected to LESCO Grid.



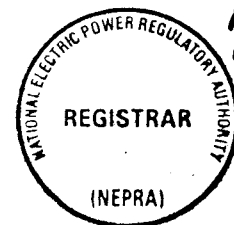
SPP Licences-Performa for Information regarding Distribution Issues

NETWROK FACTS*

PART A

Network Facts		Feeder 2		
		Feeder 1	Feeder 2	Feeder 2
A.	No. of Feeders	Three		
B.	Length of Each Feeder (meters)	1200 (approx.)	500 (Approx.)	500 (approx.)
C.	Length of Each Feeder to Each Consumer	1200 (approx.)	500 (approx.)	500 (approx.)
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 consumer's premises. Whether they cross-over or pass near the DISCO lines.	SPP-owned, Consumer-owned, other private property, CANAL. LESCO Line Crossing	SPP & Consumer owned, located adjacent, therefore, private property. N.A	SPP & Consumer owned, located adjacent, therefore, private property. N.A
E.	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 responsibility for each Feeder.	SPP-owned N.A SPP	SPP-owned N.A SPP	SPP-owned N.A SPP
F.	Whether connection with DISCO's network exists (whether active or not)- If yes, provide details of connection arrangements (both technical and contractual)	No	No	No
Any other network information deemed relevant for disclosure to or consideration by NEPRA.		SPP-owned feeders may be transferred over to consumers.		

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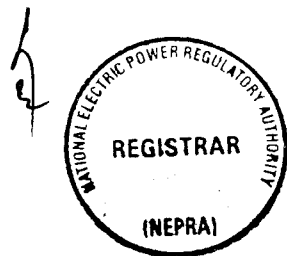
SPP Licences- Proforma for information regarding Distribution issues

Consumption Facts

Part-B

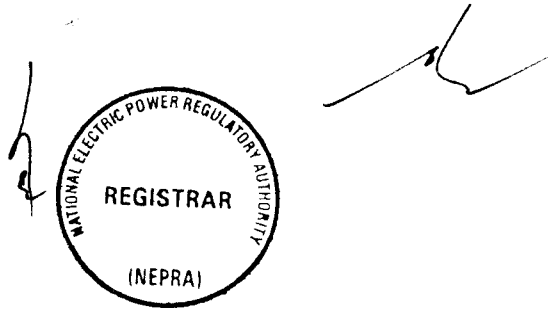
A.	No. of Consumers	Three		
B.	Location of Consumers (distance and/or identity of premises)	Crescent Board Ltd. 17 KM Sheikhpura-Faisalabad Road, Bhikki.	Nimir Chemicals Pakistan Ltd, 14.8 KM Sheikhpura-Faisalabad Road, Bhikki.	Nimir Resin Ltd, 14.8 KM Sheikhpura-Faisalabad Road, Bhikki.
C.	i) Contracted Capacity for each consumer (MW) ii) Load Factor for each Consumer.	1.80 MW Variable	1.20 MW Variable	0.25 MW Variable
D.	Specify whether i.a) the consumer is an associated undertaking of the SPP i.b) if yes, specify percentage ownership of equity	N.A N.A	Nimir Petroleum Ltd**. 75.31%.	Nimir Petroleum Ltd**. 75.31%
	ii. there are common directorships between SPP and consumers. iii. either can exercise influence or control over the other	N.A N.A	Yes Yes	Yes Yes
E.	Contracted relationship between: i. each consumer & SPP ii. each consumer & host DISCO	Firm supply of electricity to consumer on a continuous basis. B-3 Consumer	Firm supply of electricity to consumer on a continuous basis. N.A	Firm supply of electricity to consumer on a continuous basis. N.A
F.	Capacity originally sanctioned by Provincial Government- If subsequently enhanced, evidence of permissions for enhancement.	13.00 MW		
G.	Tariff arrangement and particulars with: i. WAPDA ii. Provincial Government	N.A As per provincial Govt. approval & same as WAPDA.		

** Major Share Holder, Nimir Petroleum Ltd. Is common share holder in both the SPP (shares 75.31%) and the Consumers (Shares NCPL-84.06%, NRL-72.51%).



SCHEDULE - II

- The net capacity of the licensee's generation facilities



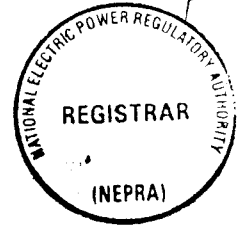
SCHEDULE II

GROSS INSTALLED CAPACITY (4.50+4.0+4.50) = **13.0 MW**
(MW) (Total of Three units)

DERATED CAPACITY (MW) = **9.30 MW**

AUXILIARY CONSUMPTION (MW) = **1.714 MW**

NET CAPACITY OF THE PLANT (MW) = **7.586 MW**



**Authorization by National Electric Power Regulatory Authority
To**

M/s Nimir Industrial Chemicals Limited

Incorporated under the Companies Ordinance, 1984

Under Certificate of Incorporation No. L-06872 of dated 5th March, 1998

NERPA Generation Licence No. SGC/ 022 /2004

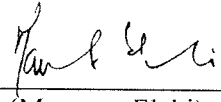
For
Sale to Bulk Power Consumers

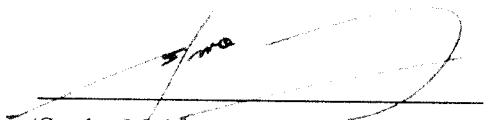
Pursuant to Section 22 of the Act and Rule 7 of the NEPRA Licensing (Generation) Rules-2000, the Authority hereby authorizes M/s Nimir Industrial Chemical Limited also mentioned in Schedule I of Generation Licence No. SGC/ 022 /2004.

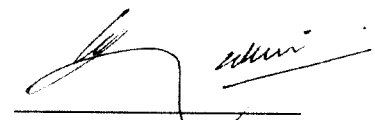
Subject to NEPRA rules and regulations, the Licensee shall charge its consumers only the second-tier supply charge at the rate of Rs. 4.00 per Kwh as determined by the Authority in its determination dated 24-11-2003 & 22.03.2004


1. Crescent Board Limited.
2. Nimir Chemicals Pakistan Limited.
3. Nimir Rosin Limited.


(Fazlullah Qureshi)
Member


(Mansoor Elahi)
Member


(Sardar Muhammad Shairf Khan T.St.,)
Member


(Abdul Rahim Khan)
Vice Chairman


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



Term of the Licence
(Article 5 of the Licence)
Nimir Industrial Chemicals 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.

Nimir Industrial Chemicals Limited, has shown in its application No. HR/00/ dated 5th June, 2000 to NEPRA for a generation licence, remaining life of its facility as 20 years.

The Licensing Group considers that the **Steam Turbine Electric Generators** normally have useful life of around 35 years. The plants of Nimir Industrial Chemicals Limited were manufactured in 1971, 1963 and 1972, and one of the units commissioned in 1996. The Group recommends that the Licence be issued to Nimir Industrial Chemicals Limited, by the Authority for five (5) years from the date of grant of this Licence by the Authority. Renewal of the term be made subject to due diligence report by independent expert.

AUTHORITY DECISION

The Authority agrees with the Licensing Group recommendations about the term of Licence. The Licence is granted for a term of five (5) years.

Authority

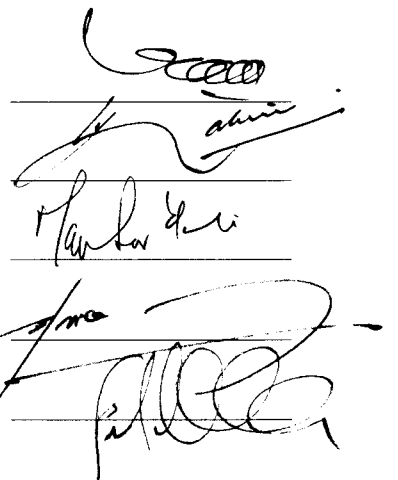
Lt. Gen. (R) Saeed uz Zafar, HI (M), Chairman

Mr. Abdul Rahim Khan, Vice Chairman

Mr. Mansoor Elahi, Member

Engr. Sardar Muhammad Sharif Khan T. St., Member

Mr. Fazlullah Qureshi, Member



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**Term of the Licence
(Article 5 of the Licence)
Nimir Industrial Chemicals Limited**

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Authority

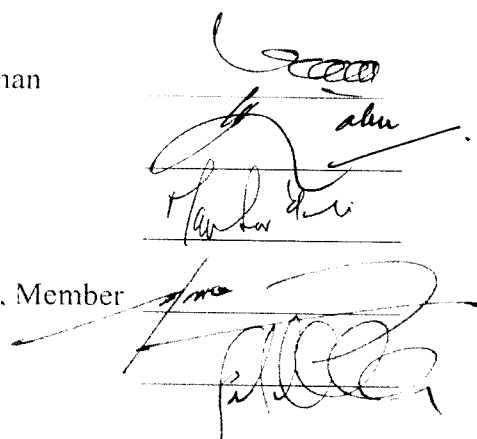
Lt. Gen. (R) Saeed uz Zafar, HI (M), Chairman

Mr. Abdul Rahim Khan, Vice Chairman

Mr. Mansoor Elahi, Member

Engr. Sardar Muhammad Sharif Khan T. St., Member

Mr. Fazlullah Qureshi, Member

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ANNEX-I

(1).	Gross Installed Capacity (in Service)	=	4.5 MW
(2).	Auxiliary Consumption (for inservice capacity) (1999)		0.77 MW
(3).	Net Capacity		3.73 MW
(4).	(i) Total Consumer Contracted Load		3.25 MW
	(ii) Diversified Load (Ref Article 9 of the Licence)	(0.85x3.25) =	2.7625 MW
(5).	Least Possible Available Generation [(3)- Largest Unit]	=	0 MW
	(6) Capacity Reserve/Short Fall [(5) - (4) ii]	[0-2.76]=	2.726 MW
(6)	Consumer Back-up Generation	Crescent Board has a B-3 connection with LESCO and 1250 KVA Gen. Nimir Chemical – 2x640 KW Nimir Resin - 1x200 KW - 1x240 KW - 1x156 KW - 1x80 KW	
(7)	Meets the Criteria Under Article 9 of Licence	Yes	





ANNEX-I

(1).	Gross Installed Capacity (in Service)	=	4.5 MW
(2).	Auxiliary Consumption (for inservice capacity) (1999)		0.77 MW
(3).	Net Capacity		3.73 MW
(4).	(i) Total Consumer Contracted Load		3.25 MW
	(ii) Diversified Load (Ref Article 9 of the Licence)	(0.85x3.25) =	2.7625 MW
(5).	Least Possible Available Generation [(3)- Largest Unit]	=	0 MW
	(6) Capacity Reserve/Short Fall [(5) - (4) ii]	[0-2.76]=	2.726 MW
(6)	Consumer Back-up Generation		Crescent Board has a B-3 connection with LESCO and 1250 KVA Gen. Nimir Chemical – 2x640 KW Nimir Resin - 1x200 KW - 1x240 KW - 1x156 KW - 1x80 KW
(7)	Meets the Criteria Under Article 9 of Licence	Yes	

