



National Electric Power Regulatory Authority

Islamic Republic of Pakistan

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

Registrar

No. NEPRA/R/LAG-93/ 3965-66

September 26, 2007

Mr. Farrukh Ifzal
Company Secretary
Nishat Chunian Power Limited (NCPL)
31-Q, Gulberg-II
Lahore

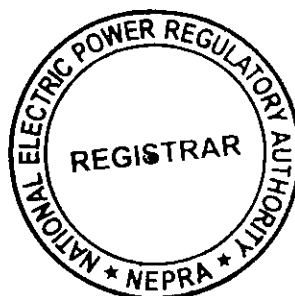
Subject: **Generation Licence No. IGSP/14/2007**
Licence Application No. LAG-93
Nishat Chunian Power Limited (NCPL)


Please refer to your letter no. nil, dated January 16, 2007 to NEPRA for a Generation Licence.

2. Enclosed here is Generation Licence No. IGSP/14/2007 granted by the Authority to Nishat Chunian Power Limited (NCPL). 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. Please quote above mentioned Generation Licence No. for your future correspondence with the Authority.

DA/as above




26.09.07.
(Mahjoob Ahmad Mirza)

Copy for information to 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. IGSPL/14/2007

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:

NISHAT CHUNIAN POWER LIMITED

Incorporated under the Companies Ordinance, 1984
Under Certificate of Incorporation

No. 00000017647/20070202, Dated February 23, 2007

For its Plant located at Jamber Kalan, 66-KM, Lahore-Multan Road
Tehsil Pattoki, District, Kasur, Punjab
(Installed Capacity: 202.179 MW Gross ISO)

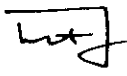
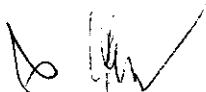

to engage in generation business subject to and in accordance with the Articles of this Licence.

Given under my hand this _____ 6th day of SEPTEMBER, Two
Thousand & Seven, and expires on 29th day of June, Two
Thousand & Thirty Five.



Registrar



 to  

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 Nishat Chunian Power Limited.
- (d) "Rules" mean the National Electric Power Regulatory Authority Licensing (Generation) Rules, 2000.

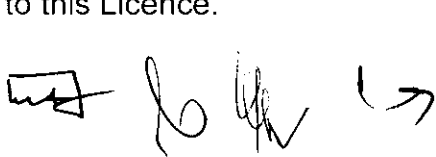
1.2 Words and expressions used but not defined herein bear the meaning given thereto in the Act or in the Rules.

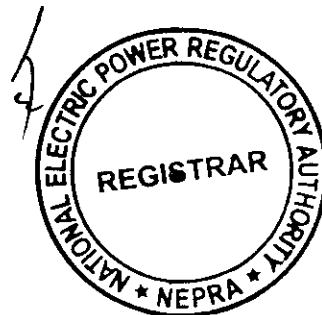
Article-2
Application of Rules

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.

3.3 The Licensee shall provide the final arrangement, technical and financial specifications and other details specific to generation facilities before commissioning of the generation facilities.

Article-4
Term of Licence

4.1 The Licence is granted for a term of twenty five (25) years after the Commercial Operation Date.

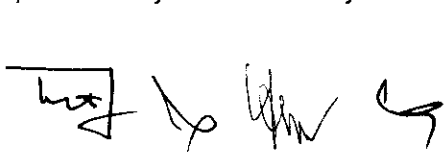
4.2 Unless revoked earlier, the Licensee may ninety days (90) days prior to the expiry of the term of the Licence, apply for renewal of the Licence under the Licensing (Application and Modification Procedures) Regulation, 1999

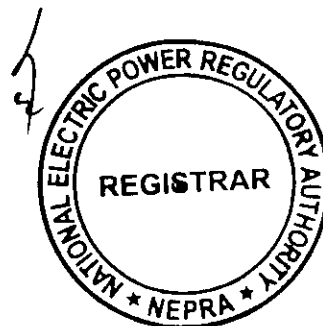
Article-5
Licence fee

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 shall charge only such tariff which has been approved or specified by the Authority.





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 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.

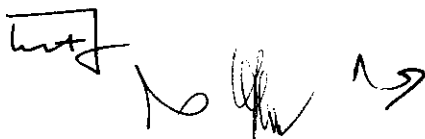
7.2 Any variation or modification in the above-mentioned contracts for allowing the parties thereto to participate wholly or partially in the Competitive Trading Arrangement shall be subject to mutual agreement of the parties thereto and such terms and conditions as may be approved by the Authority.

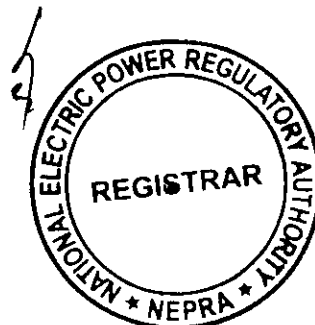
Article-8
Maintenance of Records

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.





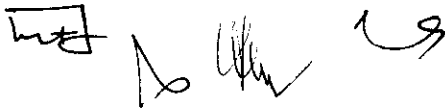
Article-10
Compliance with Environmental Standards

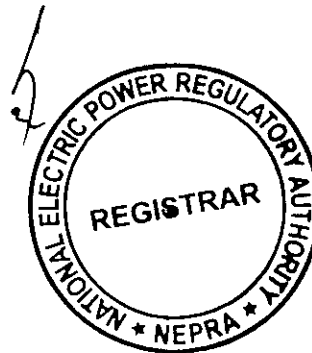
The Licensee shall conform to the environmental standards as may be prescribed by the relevant competent authority from time to time.

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.

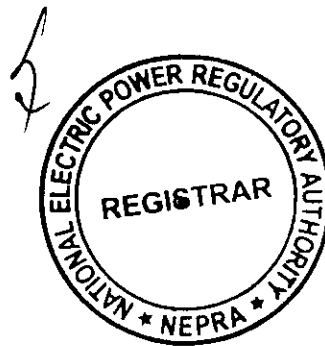




SCHEDULE-I

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.

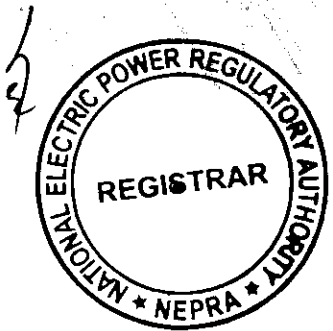
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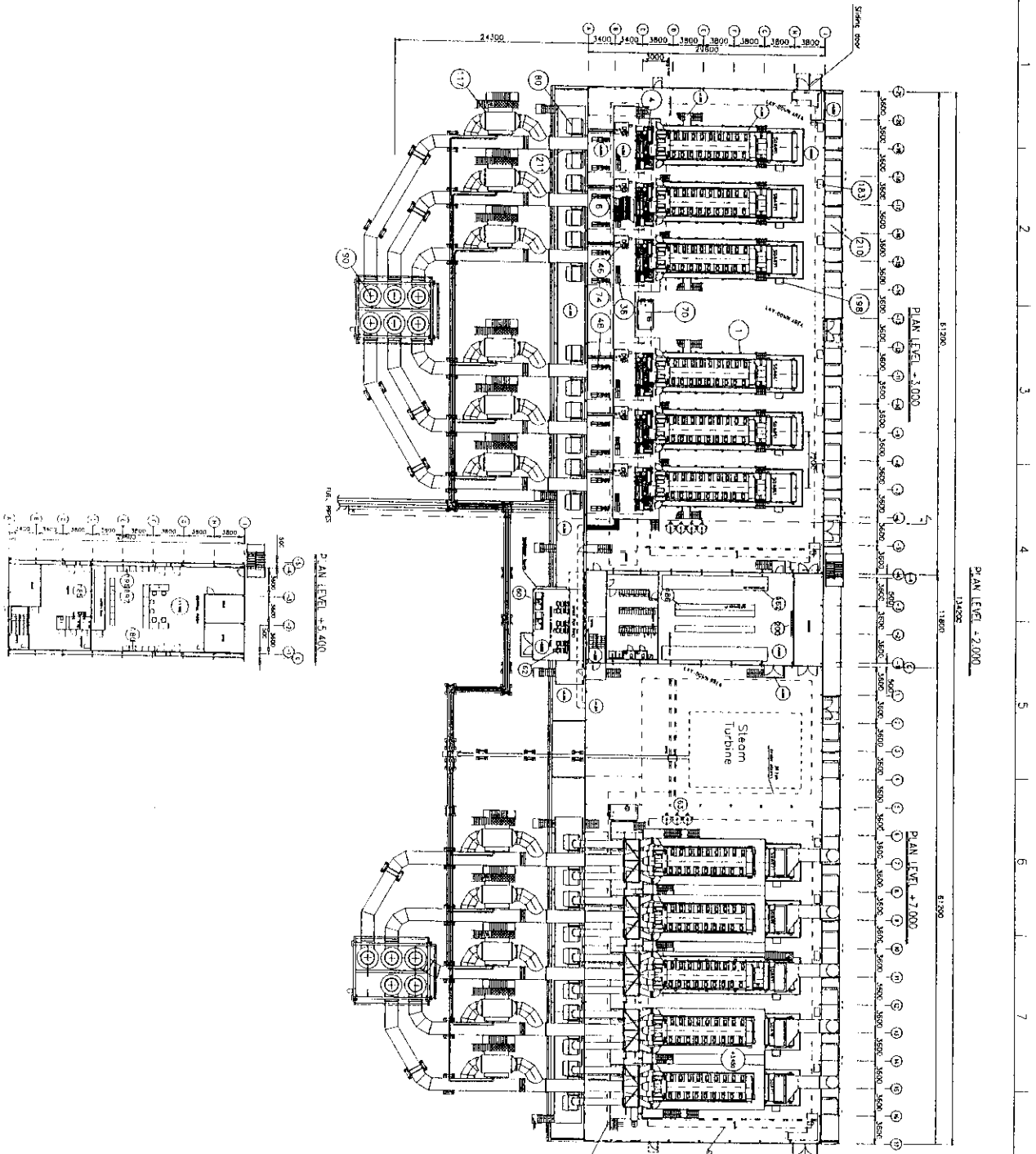


SITE MAP OF NISHAT CHUNIAN POWER LIMITED

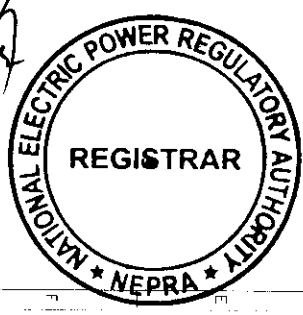


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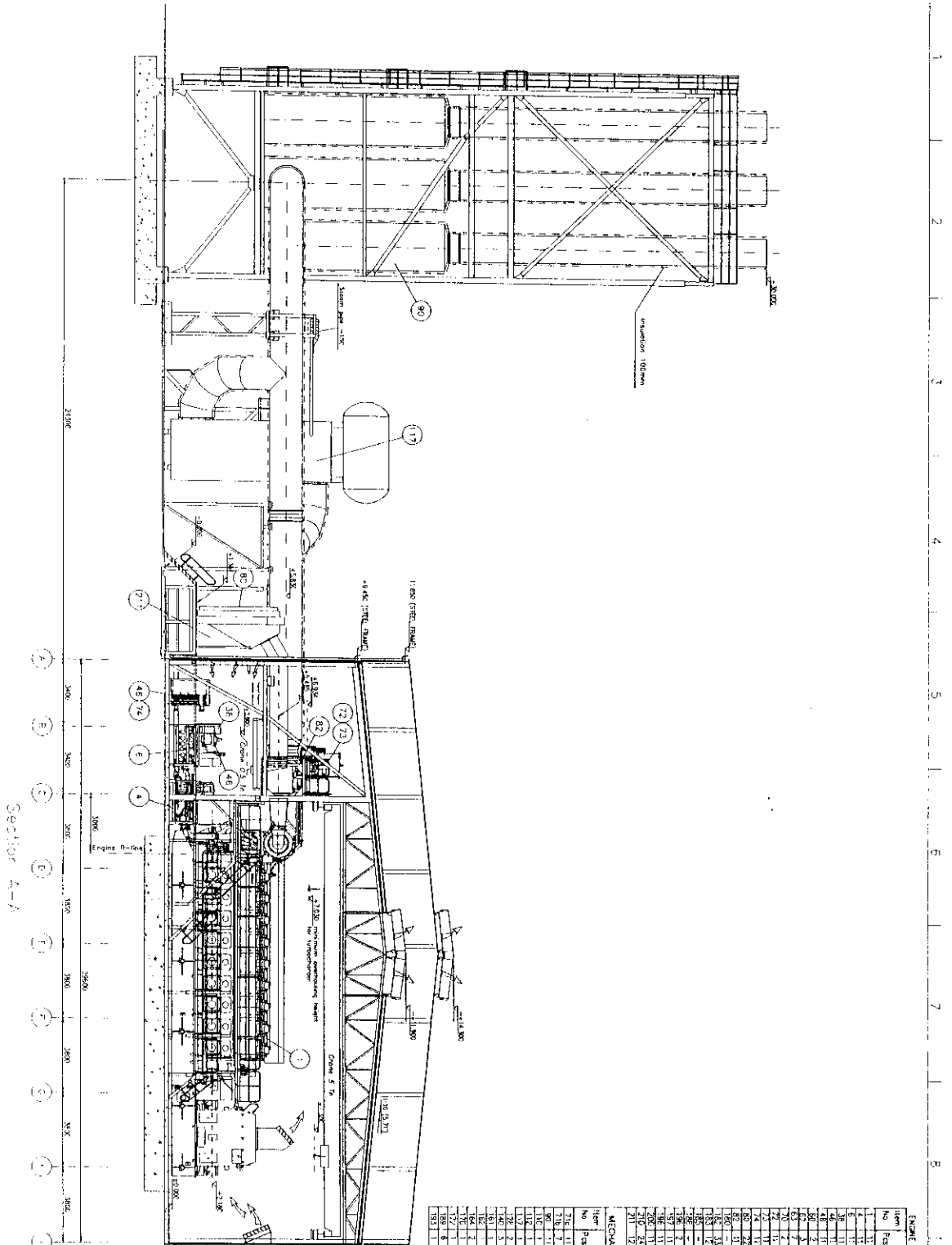




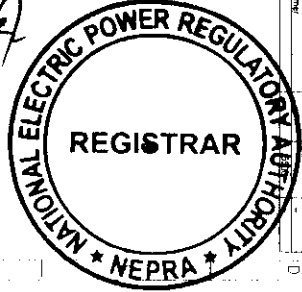
Item No.	Code	DESCRIPTION	Quantity (m ³)	MEAN/AN WORKING level (mm)
1	SEA	Engine generator set	1	5500
2	SEA	Generator set	1	5500
3	SEA	Exciter set	1	5500
4	SEA	Exciter set	1	5500
5	SEA	Exciter set	1	5500
6	SEA	Exciter set	1	5500
7	SEA	Exciter set	1	5500
8	SEA	Exciter set	1	5500
9	SEA	Exciter set	1	5500
10	SEA	Exciter set	1	5500
11	SEA	Exciter set	1	5500
12	SEA	Exciter set	1	5500
13	SEA	Exciter set	1	5500
14	SEA	Exciter set	1	5500
15	SEA	Exciter set	1	5500
16	SEA	Exciter set	1	5500
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25	SEA	Exciter set	1	5500
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27	SEA	Exciter set	1	5500
28	SEA	Exciter set	1	5500
29	SEA	Exciter set	1	5500
30	SEA	Exciter set	1	5500
31	SEA	Exciter set	1	5500
32	SEA	Exciter set	1	5500
33	SEA	Exciter set	1	5500
34	SEA	Exciter set	1	5500
35	SEA	Exciter set	1	5500
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37	SEA	Exciter set	1	5500
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39	SEA	Exciter set	1	5500
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41	SEA	Exciter set	1	5500
42	SEA	Exciter set	1	5500
43	SEA	Exciter set	1	5500
44	SEA	Exciter set	1	5500
45	SEA	Exciter set	1	5500
46	SEA	Exciter set	1	5500
47	SEA	Exciter set	1	5500
48	SEA	Exciter set	1	5500
49	SEA	Exciter set	1	5500
50	SEA	Exciter set	1	5500



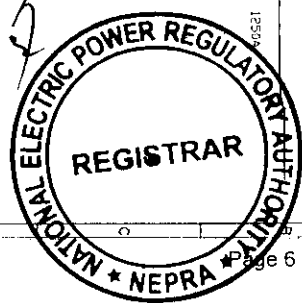
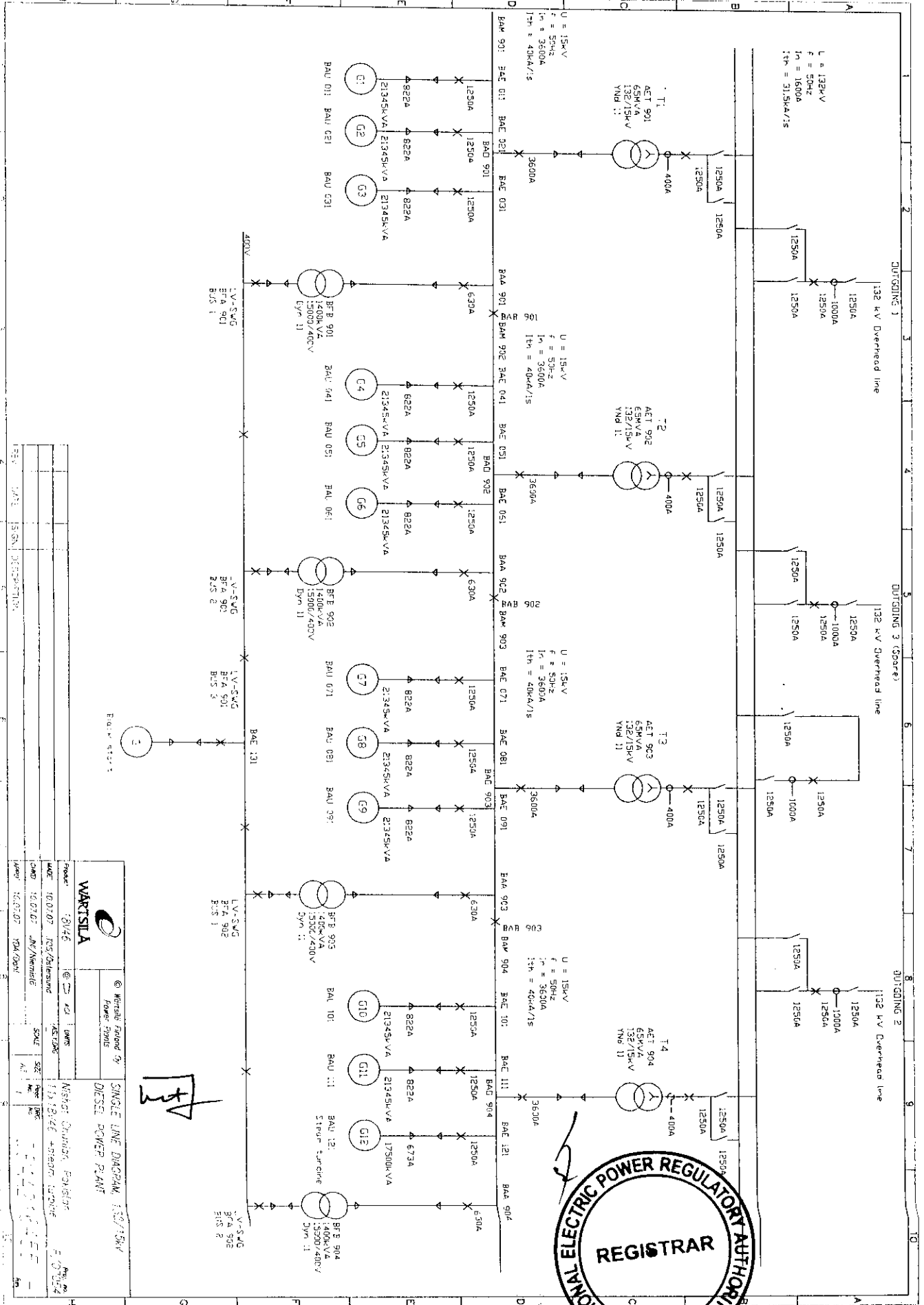
PRELIMINARY



PRELIMINARY



Item No	Code	DESCRIPTION	Volume (cu ft)	UNIT PRICE (PKR)	AMOUNT (PKR)
1	100	Excavation 100mm	200	1.50	300.00
2	101	Water pump tank	100	1.50	150.00
3	102	1/200 (FEEL) BRIDGE	100	1.50	150.00
4	103	Engine 0-100	100	1.50	150.00
5	104	Crown 5 ft	100	1.50	150.00
6	105	Ventilation 100mm	100	1.50	150.00
7	106	Water pump tank	100	1.50	150.00
8	107	Excavation 100mm	100	1.50	150.00
9	108	Water pump tank	100	1.50	150.00
10	109	Excavation 100mm	100	1.50	150.00
11	110	Water pump tank	100	1.50	150.00
12	111	Excavation 100mm	100	1.50	150.00
13	112	Water pump tank	100	1.50	150.00
14	113	Excavation 100mm	100	1.50	150.00
15	114	Water pump tank	100	1.50	150.00
16	115	Excavation 100mm	100	1.50	150.00
17	116	Water pump tank	100	1.50	150.00
18	117	Excavation 100mm	100	1.50	150.00
19	118	Water pump tank	100	1.50	150.00
20	119	Excavation 100mm	100	1.50	150.00
21	120	Water pump tank	100	1.50	150.00
22	121	Excavation 100mm	100	1.50	150.00
23	122	Water pump tank	100	1.50	150.00
24	123	Excavation 100mm	100	1.50	150.00
25	124	Water pump tank	100	1.50	150.00
26	125	Excavation 100mm	100	1.50	150.00
27	126	Water pump tank	100	1.50	150.00
28	127	Excavation 100mm	100	1.50	150.00
29	128	Water pump tank	100	1.50	150.00
30	129	Excavation 100mm	100	1.50	150.00
31	130	Water pump tank	100	1.50	150.00
32	131	Excavation 100mm	100	1.50	150.00
33	132	Water pump tank	100	1.50	150.00
34	133	Excavation 100mm	100	1.50	150.00
35	134	Water pump tank	100	1.50	150.00
36	135	Excavation 100mm	100	1.50	150.00
37	136	Water pump tank	100	1.50	150.00
38	137	Excavation 100mm	100	1.50	150.00
39	138	Water pump tank	100	1.50	150.00
40	139	Excavation 100mm	100	1.50	150.00
41	140	Water pump tank	100	1.50	150.00
42	141	Excavation 100mm	100	1.50	150.00
43	142	Water pump tank	100	1.50	150.00
44	143	Excavation 100mm	100	1.50	150.00
45	144	Water pump tank	100	1.50	150.00
46	145	Excavation 100mm	100	1.50	150.00
47	146	Water pump tank	100	1.50	150.00
48	147	Excavation 100mm	100	1.50	150.00
49	148	Water pump tank	100	1.50	150.00
50	149	Excavation 100mm	100	1.50	150.00
51	150	Water pump tank	100	1.50	150.00
52	151	Excavation 100mm	100	1.50	150.00
53	152	Water pump tank	100	1.50	150.00
54	153	Excavation 100mm	100	1.50	150.00
55	154	Water pump tank	100	1.50	150.00
56	155	Excavation 100mm	100	1.50	150.00
57	156	Water pump tank	100	1.50	150.00
58	157	Excavation 100mm	100	1.50	150.00
59	158	Water pump tank	100	1.50	150.00
60	159	Excavation 100mm	100	1.50	150.00
61	160	Water pump tank	100	1.50	150.00
62	161	Excavation 100mm	100	1.50	150.00
63	162	Water pump tank	100	1.50	150.00
64	163	Excavation 100mm	100	1.50	150.00
65	164	Water pump tank	100	1.50	150.00
66	165	Excavation 100mm	100	1.50	150.00
67	166	Water pump tank	100	1.50	150.00
68	167	Excavation 100mm	100	1.50	150.00
69	168	Water pump tank	100	1.50	150.00
70	169	Excavation 100mm	100	1.50	150.00
71	170	Water pump tank	100	1.50	150.00
72	171	Excavation 100mm	100	1.50	150.00
73	172	Water pump tank	100	1.50	150.00
74	173	Excavation 100mm	100	1.50	150.00
75	174	Water pump tank	100	1.50	150.00
76	175	Excavation 100mm	100	1.50	150.00
77	176	Water pump tank	100	1.50	150.00
78	177	Excavation 100mm	100	1.50	150.00
79	178	Water pump tank	100	1.50	150.00
80	179	Excavation 100mm	100	1.50	150.00
81	180	Water pump tank	100	1.50	150.00
82	181	Excavation 100mm	100	1.50	150.00
83	182	Water pump tank	100	1.50	150.00
84	183	Excavation 100mm	100	1.50	150.00
85	184	Water pump tank	100	1.50	150.00
86	185	Excavation 100mm	100	1.50	150.00
87	186	Water pump tank	100	1.50	150.00
88	187	Excavation 100mm	100	1.50	150.00
89	188	Water pump tank	100	1.50	150.00
90	189	Excavation 100mm	100	1.50	150.00
91	190	Water pump tank	100	1.50	150.00
92	191	Excavation 100mm	100	1.50	150.00
93	192	Water pump tank	100	1.50	150.00
94	193	Excavation 100mm	100	1.50	150.00
95	194	Water pump tank	100	1.50	150.00
96	195	Excavation 100mm	100	1.50	150.00
97	196	Water pump tank	100	1.50	150.00
98	197	Excavation 100mm	100	1.50	150.00
99	198	Water pump tank	100	1.50	150.00
100	199	Excavation 100mm	100	1.50	150.00



WARTSILA

© Wartsila Finland Oy
 Power Plants
 DIESEL POWER PLANT

Single Line Diagram 1507/15kV

Nishat Chunian Division
 Diesel Power Plant

Project No: 1507/15kV
 Date: 10.07.07
 Rev: 15.07.07
 15.07.07

Plant Details*

1. General Information

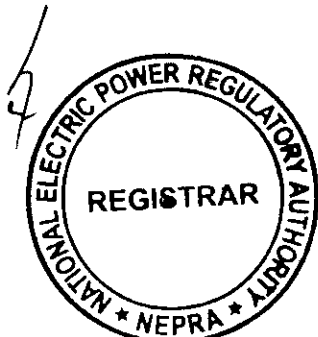
i.	Name of Applicant	Nishat Chunian Power Limited
ii.	Registered/Business Office	31-Q, Gulberg II, Lahore
iii.	Plant Location	66-kM, Multan Road, Jambar Kalan, District Kasur
iv.	Type of Generation Facility	Thermal Generation (Combined Cycle)

2. Plant Configuration

i.	Plant Size Installed Capacity (Gross ISO)	202.179 MW
ii.	Type of Technology	Reciprocating Engines
iii.	Number of Units/Size (MW)	Reciprocating Engines : 11 x 17.076 MW
		Steam Turbine : 1x 14.343 MW
iv.	Unit Make & Model	Reciprocating Engines – Wartsila 18V46
		Steam Turbine – GE or Peter Brotherhood Ltd
v.	De-rated Capacity at Mean Site Conditions	200.00 MW
vi.	Auxiliary Consumption	4.74 MW
vii.	Commissioning and Commercial Operation date	June 30, 2010
viii.	Expected Life of the Facility from Commercial Operation Date	25 Years

* As provided by the Applicant

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3. Fuel Details

i.	Primary Fuel	RFO (Residual Fuel Oil)	
ii.	Back-up Fuel	High Speed Diesel (HSD)	
iii.	Fuel Source (Imported/Indigenous)	Both Local & Imported	
iv.	Fuel Supplier	Pakistan State Oil (PSO)/Shell, Pakistan	
v.	Supply Arrangement	Through Oil Tankers	
vi.	No of Storage Tanks	Primary Fuel (RFO)	Back-up Fuel (HSD)
		3	1
vii.	Storage Capacity of each Tank	Primary Fuel (RFO)	Back-up Fuel (HSD)
		10,000 M.Tons	2,000 M.Tons
viii.	Gross Storage	Primary Fuel (RFO)	Back-up Fuel (HSD)
		30,000 M.Tons	2,000 M.Tons

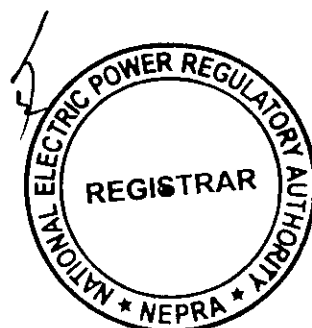
4. Emission Values

i.	SO _x	Primary Fuel (RFO)	Back-up Fuel (HSD)
		Max. 2030 mg/Nm ³	n.a.
ii.	NO _x	Max. 2000 mg/Nm ³	n.a.
iii.	CO	Max. 100 mg/Nm ³	n.a.
iv.	PM ₁₀	Max. 110 mg/Nm ³	n.a.

5. Cooling System

i.	Cooling Water Source/Cycle	Water From Tube Wells/Closed Loop for main cooling system
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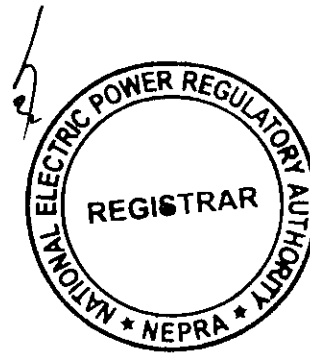
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6. Plant Characteristics

i.	Generation Voltage	15 kV
ii.	Frequency	50 Hz
iii.	Power Factor	0.8 lagging to 0.95 leading
iv.	Automatic Generation Control	Yes
v.	Ramping Rate	50 minutes cold/ 35 minutes hot/ STG to full power output maximum 2 hours after all Gen. sets achieve full load
vi.	Time required to Synchronize to Grid and loading the complex to full load.	As per Dispatch Instruction

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SCHEDULE-II

The net capacity of the Licensee's Generation Facilities

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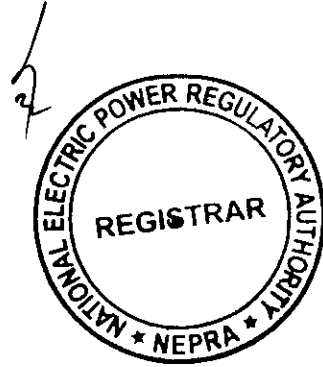
SCHEDULE-II*

1.	Installed Capacity Gross ISO	202.179 MW
2.	De-rated Capacity at Mean Site Conditions	200.00 MW
3.	Auxiliary Consumption	4.74 MW
4.	Net Capacity of the Plant at Site Conditions	195.26 MW

Note

All the above figures are indicative as provided by the Licensee. The Net Capacity available to NTDC for dispatch and other purchasers will be determined through procedures contained in the Agreements or Grid Code.

htj No 69

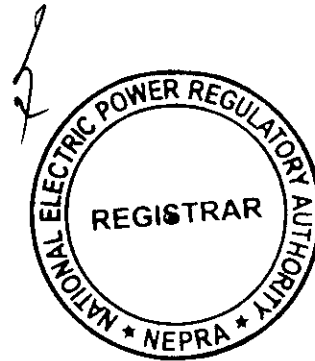


* As provided by the applicant

INTERCONNECTION SCHEME FOR THE POWER DISPERSAL OF THE PLANT*

The Power of the Power Plant shall be dispersed to system directly within LESCO load center at 132 KV voltage level as follows:-

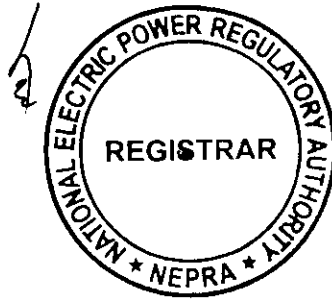
- 132 KV D/C Transmission Line about 0.5 KM long on Rail Conductor for making In-Out of 132 KV Pattoki - C.P.Mill S/C Transmission Line at Nishat Chunian Power Limited.
- 132 KV SDT Transmission Line about 18.5 KM long on Rail Conductor from Nishat Chunian Power to Chunian Sub-Station.



* As provided in the Interconnection Study provided by Nishat Chunian Power Limited.

National Electric Power Regulatory Authority
NEPRA

Determination in the Matter of Grant of Generation
Licence to Nishat Chunian Power Limited



September 6, 2007
Application No. LAG-93

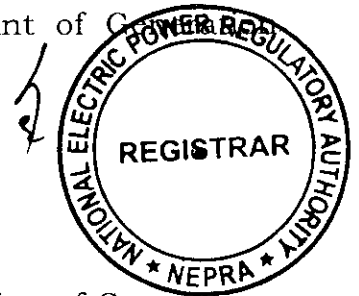
Background

A number of Independent Power Generation Projects (IPPs) were initiated under "Policy for Power Generation 2002". The potential IPPs being set up under the Policy of 2002, based on indigenous fuel resource (i.e. Natural Gas) include Orient Power Limited (Balloki, Punjab), Star Power Limited (Dharki, Sindh), Saif Power Limited (Sahiwal, Punjab), Sapphire (Muridkee, Punjab), Foundation Power Limited (Dharki, Sindh), Halmore Power Limited (Bhakhi, Punjab). Tariff has been determined and Licences granted in respect of these IPPs.

2. Shortage of committed Gas expected for future projects and unusual growth in demand for electricity was creating a gap between supply and demand for electricity during 2007 to 2009. Government of Pakistan (GoP), consequently allowed the gap to be met through Furnace Oil based projects for expeditious acquisition of generation capacity to cover the anticipated shortage.

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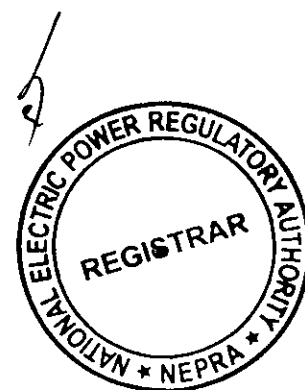
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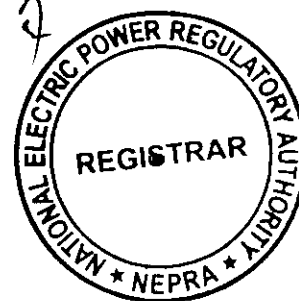
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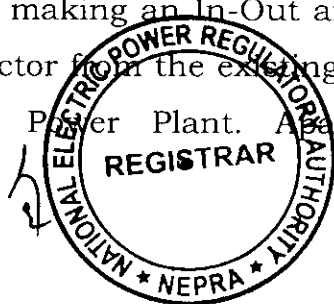
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14. NCPL further elaborated that installed capacity of the power plant at ISO conditions would be 202.179 MW which would be de-rated to 200.00 MW at mean site conditions and the net capacity of the plant would be 195.26 MW after allowing the auxiliary consumption of 4.74 MW. It was also explained that that Annual Plant availability for this plant would be 88% which was in line with the decision of August 2, 2007 of the Authority.

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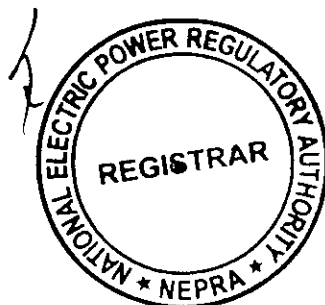
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Comments of Applicant on Draft Gen. Licence.

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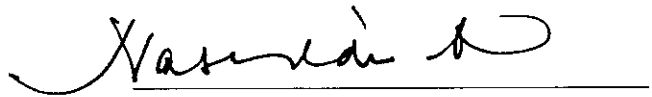
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Mean site conditions of 200.00 MW and auxiliary consumption of 4.74 MW from an Installed Capacity Gross ISO of 202.179 MW.

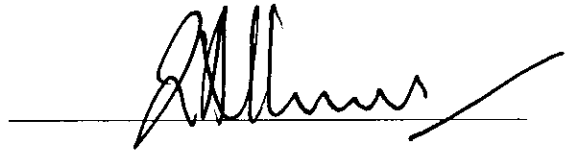
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Authority

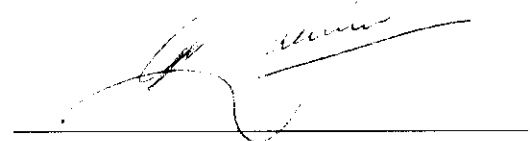
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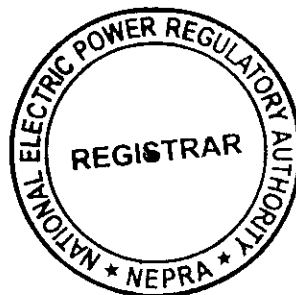
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Abdul Rahim Khan
Member/Vice Chairman

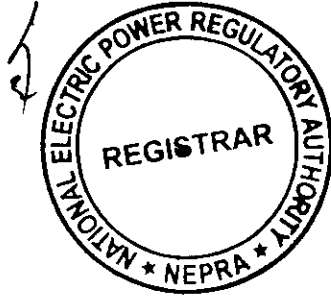


Lt. Gen. (R) Saeed uz Zafar
Chairman



National Electric Power Regulatory Authority
NEPRA

Determination in the Matter of Grant of Generation
Licence to Nishat Chunian Power Limited



September 6, 2007
Application No. LAG-93

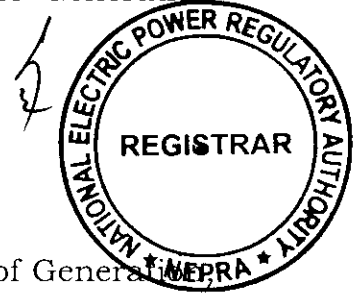
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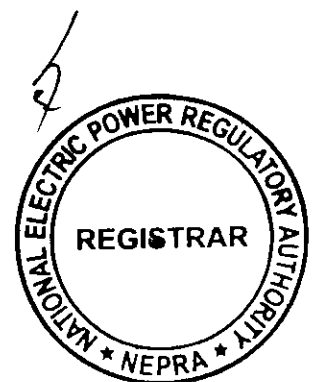
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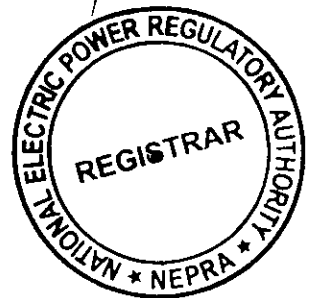
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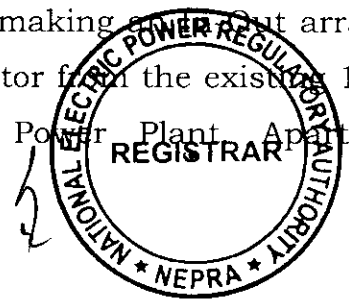
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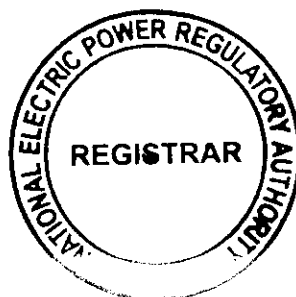
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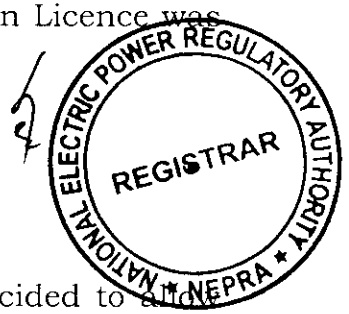
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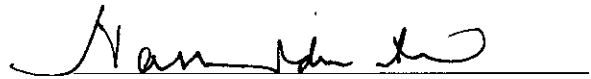
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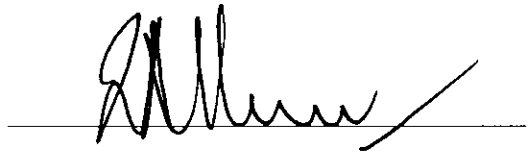
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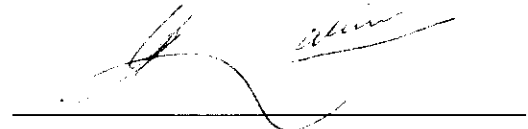
Nasiruddin Ahmed
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Zafar Ali Khan
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Lt. Gen. (R) Saeed uz Zafar
Chairman

