



Registrar

National Electric Power Regulatory Authority

Islamic Republic of Pakistan

NEPRA Tower, Attaturk Avenue (East), G-5/1, Islamabad
Ph: +92-51-9206500, Fax: +92-51-2600026
Web: www.nepra.org.pk, E-mail: registrar@nepra.org.pk

No. NEPRA/R/DL/LAG-318/SC 56-58

April 14, 2016

Mr. Shahzad Saleem
Chief Executive Officer
NC Electric Company Limited
31-Q, Gulberg II,
Lahore, Pakistan.

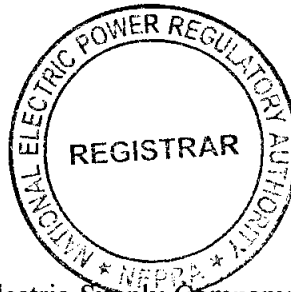
Subject: Grant of Generation Licence No. SGC/115/2016
Licence Application No. LAG-318
NC Electric Company Limited (NCECL)

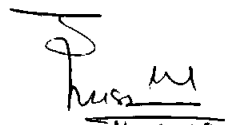
Reference: Your application vide letter No. nil, dated July 14, 2015 (received on July 15, 2015).

Enclosed please find herewith Determination of the Authority in the matter of Application of "NC Electric Company Limited (NCECL)" for the "Grant of Generation Licence" along with Generation Licence No. SGC/115/2016 annexed to this determination granted by the National Electric Power Regulatory Authority (NEPRA) to "NC Electric Company Limited (NCECL)" for its "46.00 MW Imported/Local Coal based Generation Facility located on 49-KM Lahore-Multan Road, Moza Gagga Phoolnagar, Tehsil Pattoki, District Kasur in the Province of Punjab" 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
(SGC/115/2016)




14.04.16
(Syed Safeer Hussain)

Copy to:

1. Chief Executive Officer, Lahore Electric Supply Company Limited, 22-A, Queens Road, Lahore.
2. Director General, Environment Protection Department, Government of Punjab, National Hockey Stadium, Ferozpur Road, Lahore.

National Electric Power Regulatory Authority
(NEPRA)

Determination of the Authority
in the Matter of Application of NC Electric Company Limited for
the Grant of Generation Licence

April 08, 2016
Case No. LAG-318

(A). Background

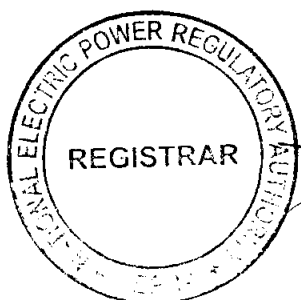
(i). The Electric Power Sector of the country is experiencing a Supply-Demand gap. Due to the shortage of electricity the utilities are finding it hard to meet with the requirements of its consumers especially Industrial concerns.

(ii). In order to cope with the above mentioned situation, various Industrial groups are contemplating to set up generation facilities using cheaper resources for supplying to their Industrial concerns. Nishat Chunian Group has planned to set up a 46.00 MW Imported/Indigenous Coal based Generation Facility/Thermal Power Plant at 49-KM Lahore-Multan Road, Moza Gagga Phoolnagar, Tehsil Pattoki, District Kasur in the Province of Punjab.

(iii). In order to implement the project, the sponsors incorporated a Special Purpose Vehicle in the name of NC Electric Company Limited (NCECL), under Section-32 of the Companies Ordinance 1984.

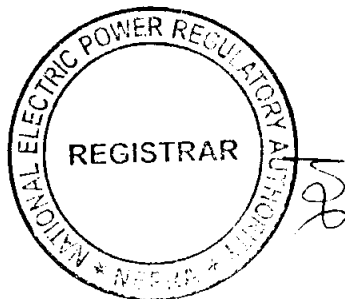
(B). Filing of Application

(i). NCECL, submitted an application on July 15, 2015 in accordance with Section-15 of Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 ("the NEPRA Act"), requesting for the grant of Generation Licence.



(ii). The Registrar examined the submitted application to confirm its compliance with the NEPRA Licensing (Application and Modification Procedure) Regulations, 1999 ("the Regulations"). The Registrar found the same non-compliant with the Regulations and directed the company/NCECL for submitting the missing information/documents etc. NCECL completed the missing information/documentation on August 31, 2015. The Registrar examined the submitted application and found the same compliant with the Regulations. Accordingly, the Registrar submitted the matter for the consideration of the Authority for admission of the application or otherwise. The Authority considered the matter in its Regulatory Meeting (RM-15-742), held on November 03, 2015 and found the form and content of the application in substantial compliance with Regulation-3 of the Regulations. Accordingly, the Authority admitted the application for consideration of the grant of the Generation Licence as stipulated in Regulation-7 of the Regulations. The Authority approved the advertisement [containing (a). the prospectus of the company; and (b). a notice to the general public about the admission of the application of NCECL], inviting the general public for submitting their comments in the matter as stipulated in Regulation-8 of the Regulations. The Authority also approved the list of the stakeholders for providing their comments or otherwise to assist the Authority in the consideration of the above mentioned application of NCECL under Regulation-9 of the Regulations.

(iii). Accordingly, the advertisement was published in one Urdu and one English National Newspaper on November 07-08, 2015. Apart from the said, separate letters were also sent to Government Ministries, their Attached Departments, Representative Organizations and Individual Experts etc. on November 10, 2015. The said stakeholders were directed to submit their views/comments for the assistance of the Authority.

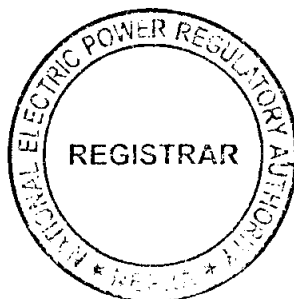


(C). Comments of Stakeholders

(i). In response to the above, the Authority received comments from five (05) stakeholders. These included Punjab Mineral Development Corporation (PbMDC), Board Of Investment (BOI), Energy Department Government of Sindh (EDGoS), Port Qasim Authority (PQA), Ministry of Petroleum & Natural Resources (MoP&NR) and Pakistan Mineral Development Corporation (Pvt.) Limited (PMDCL). The comments of the said stakeholders are summarized below:-

- (a). PbMDC expressed no objection to the request of NCECL for the grant of Generation Licence;
- (b). BOI submitted that energy sector is the priority sector of the Government to cater the short fall in the country. Smooth and affordable supply of energy is the backbone for industrial growth as well as attracting Foreign Direct Investment in the country. In view thereof, BOI supports the grant of Generation Licence to NCECL.
- (c). EDGoS commented that it supports the coal based power generation however, indigenous coal should be given preference to support the mining industry and to save the foreign exchange of the country. EDGoS also commented that it is not clear which source of coal will be used and how it will be transported to site? Further, EDGoS raised observation that the proposed power plant is not a mine mouth facility and transportation of coal by open self-unloading trucks will cause air pollution. Therefore, a separate Environmental Social Impact Assessment for such projects may be carried

out;



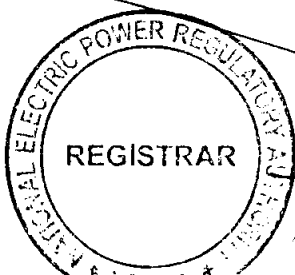
(d). PQA supported the grant of Generation Licence to NCECL;

(e). MoP&NR communicated its No Objection for the grant of Generation Licence; and

(f). PMDCPL stated that request of NCECL for the grant of Generation Licence is agreeable to overcome lasting energy crisis. The indigenous coal reserves have proved cheaper for electricity generation than other fossil fuels. PMDCPL offered its interest in supply of indigenous coal for the proposed project of NCECL.

(ii). The Authority considered the above comments of the stakeholders and found the same in favor of the grant of Generation Licence, except certain observations/comments raised by the EDGoS and PMDCPL. Accordingly, the Authority considered it appropriate seeking perspective of NCECL on the observations of EDGoS and PMDCPL.

(iii). In its rejoinder to the comments of EDGoS, the company submitted that the boiler is designed to utilize imported coal from South Africa, Indonesia and Afghanistan etc. The coal from these countries contains low percentage of sulfur (typically less than 1%) making it one of the best choice with respect to environmental concerns. NCECL also informed that imported coal will be routed through Karachi Port Trust. Regarding the environmental impact of the coal transportation, NCECL clarified that its plant is not based on pulverized coal technology, instead the coal used in this plant will be in the form of chunks/cakes and these chunks/cakes have recognizable weight, which prevents it from blowing during transportation. Further, the coal will be transported using bodied trucks having walls to surround the cargo from all four sides, the top side is sprinkled throughout the trip to make sure that no dust particle; if any is released. This type of transportation is already being used by cement and other industries having similar type of technology and supply pattern. On the observations of PMDCPL, it



was submitted that although the boiler is designed to utilize imported coal however, efforts would be made to utilize local coal by mixing it with imported coal to the extent that efficiency of the generation facility is not affected.

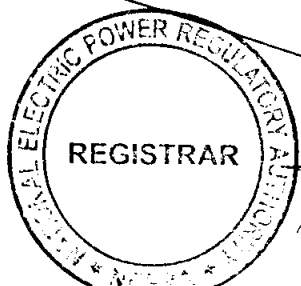
(iv). The Authority considered the above submissions of NCECL and found the same plausible. Therefore, the Authority considered it appropriate to process the application of NCECL for the consideration of grant of the Generation Licence as stipulated in the Regulations and the NEPRA Licensing (Generation) Rules 2000 ("the Rules").

(D). Grant of Generation Licence

(i). Electricity is a fundamental element for the economic growth of any country. The electricity consumption per capita has a strong correlation to the Social Development Indices (Human Development Index-HDI, life expectancy at birth, infant mortality rate, and maternal mortality) and Economic Indices (such as GDP per capita etc.).

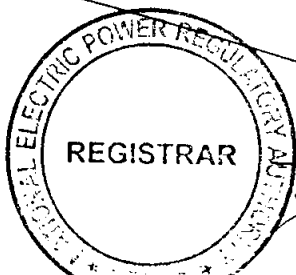
(ii). Increasing electricity consumption per capita can directly stimulate faster economic growth and indirectly achieve enhanced social development. In short, the Economic Growth of any country is directly linked with the availability of safe, secure, reliable and cheaper supply of electricity. The Authority is well aware of the fact that presently there is severe shortage of electricity in the country and that as a result of huge Supply-Demand gap the Distribution Companies are facing difficulties in serving their consumers. Due to the prevailing situation, the Industrial Units are forced to make their own arrangements to meet their electricity requirements.

(iv). The present case pertains to request of NCECL for the grant of Generation Licence for a coal based generation facility to be located at 49-KM Lahore-Multan Road, Moza Gagga Phoolnagar, Tehsil Pattoki, District Kasur in the Province of Punjab. The said generation facility is being set up primarily to meet with the electric power requirements of the group companies of Nishat Chunian Group however, some of the available surplus will also be supplied to



nearby located Industrial Units. In this regard, NCECL has informed that it will be supplying to two complexes of Nishat Chunian Limited-NCL housing different units. Further surplus electric power will also be supplied to Abu Bakar Textile Mills Limited-ABTML (4.00 MW), Marrat Textile Mills Limited-MTML (2.00 MW), Hussain Mills Limited-HML(1.80 MW) and Azam Textile Mills Limited-ATML(4.50 MW). In this regard, it is clarified that pursuant to Section-21 of the NEPRA Act, the Authority is empowered allowing a Generation Company to sell to a Bulk Power Consumer (BPC). In terms of Section-2(ii) of the NEPRA Act, a BPC is a consumer which purchases or receives electric power at one premises, in an amount of one (01) megawatt or above. As explained above, all the Industrial units interested in obtaining electric power from NCECL will have a load of more than 1.00 MW. In consideration of the said, the Authority declares all the above mentioned affiliated and external Industrial Units as BPCs of NCECL under Section-21 of the NEPRA Act.

(v). NCECL has informed that the supply of electric power to the above mentioned BPCs will be made through six (06) Feeders at 11 KV voltage. NCECL has confirmed that the proposed 11 KV Feeders will be mostly located on private property either owned by Nishat Chunian Group or the prospective BPC however, portion of some the feeders will also be crossing road (i.e. public property) at different locations. In this regard, it is clarified public property is part of the exclusive territory of the host Distribution Company i.e. LESCO and cannot be intruded. In consideration of said, it is pertinent to mention that according to Section-2(v) of the NEPRA Act, wherein the ownership, operation, management and control of distribution facilities located on private property and used solely to move or deliver electric power to the person owning, operating, managing and controlling those facilities or to tenants thereof is not included in the definition of "distribution". Therefore, to facilitate the supply of BPCs without impairing the exclusivity service territory of LESCO, the Authority considers that either generation company or the concerned BPC may construct distribution lines located at public property at own cost and hand over the same to DISCO, either on lease basis or through outright sale. Further, Operation and maintenance of the facilities may be carried out by the generating company, BPC or DISCO on mutually agreed terms and conditions. In view of the said, the supply of electric

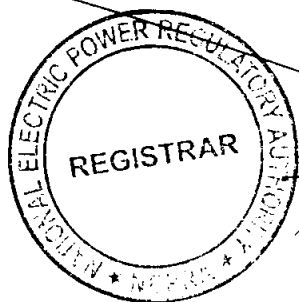


power from NCECL will not only be within the ambit of Section-2(v) of the NEPRA Act but will also not cause any infringement of the service territory of LESCO.

(iii). The term of a Generation Licence under the Rule-5 (1) of the Rules, is to be commensurate with the maximum expected useful life of the units comprised in a generating facility except where an applicant consents to a shorter term. The proposed Generation Facility/Thermal Power Plant of NCECL will be consisting of one (01) Steam Turbine Unit of 46.00 MW. According to the International benchmarks available, the useful life of a Steam Turbine is normally taken at least thirty (30) years from its Commercial Operation Date (COD). In this regard, NCECL has also requested that the term of its proposed Generation Facility may be fixed as per the available benchmarks. In consideration of the said, the Authority fixes the term of the proposed Generation Licence to thirty (30) years from the COD of the Project.

(iv). Regarding the Tariff of Generation Facility that the company will be charging from the Power Purchaser, it is clarified that NCECL will be supplying to designated BPCs only. As the matter of charges between NCECL and its BPCs is a bilateral issue and does not affect any third party. Therefore, the parties i.e. NCECL and its BPCs may agree the same mutually and approach the Authority for its approval.

(v). As explained above, the proposed Generation Facility/Thermal Power Plant for which Generation Licence has been sought is based on Imported Coal. The Coal based Generation Facility/Thermal Power Plant may be harmful to environment because of emission of Green House Gases (GHG) and production of ash and other effluents. In this regard, NCECL confirmed that proposed Generation Facility/Thermal Power Plant will meet local regulatory emissions limits and has also provided the No Objection Certificate from the Environmental Protection Department of Government of Punjab (EPDGoPb). However, to ensure that the Generation Facility/Thermal Power Plant conforms to the environment, a separate article has been included in the Generation Licence along with other terms and conditions that the Licensee will comply with relevant environmental



standards. Further, the Authority also directs NCECL to submit a Bi-Annual report confirming that operation of its proposed Generation Facility/Thermal Power Plant TPP is compliant with required Environmental Standards prescribed by EPDGoPb

(vi). In view of the above, the Authority hereby decides to approve the grant of Generation Licence to NCECL on the terms and conditions set out in the Generation Licence annexed to this determination. The grant of Generation Licence will be subject to the provisions contained in the NEPRA Act, relevant rules, regulations framed there under and the other applicable documents.

Authority

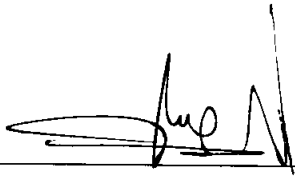
Syed Masood-ul-Hassan Naqvi
(Member)


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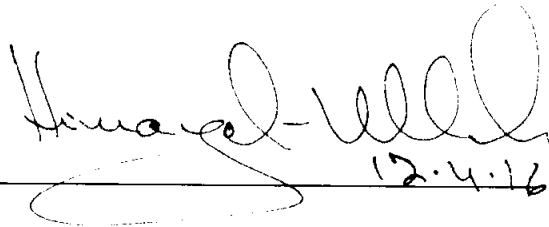
Maj. (R) Haroon Rashid
(Member)


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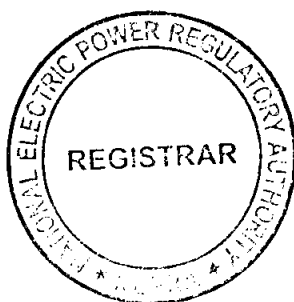
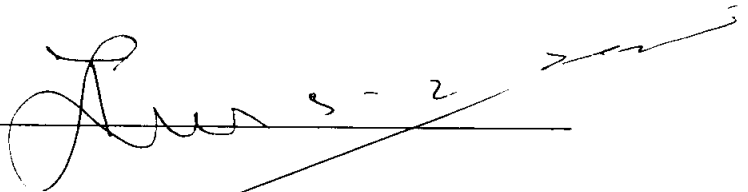
Khawaja Muhammad Naeem
(Member)



Himayat Ullah Khan
(Member)/(Vice Chairman)


12.4.16

Brig. (R) Tariq Saddozai
(Chairman)



15
May
14.04.16

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

GENERATION LICENCE

No. SGC/115/2016

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, the Authority hereby grants a generation licence to:

NUKLEONIC COMPANY LIMITED

Incorporated under the Companies Act, 1947 of Pakistan. Identification No. 000793. Dated April 1, 2016.

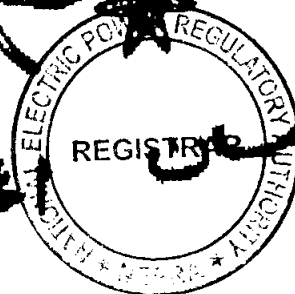
for its Imported/Local Coal Based Generation Facility/Co-Generation Power Plant located at 49-KM Lahore-Multan Road, Moza Gagga Phoolnagar, Taluka Pattoki, District Kasur in the Province of Punjab

(Total Installed Capacity: 46.00 MW Gross)

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

Given under my hand on 17th day of April Two Thousand & Sixteen and expires on 17th day of May Two Thousand & Forty Six.

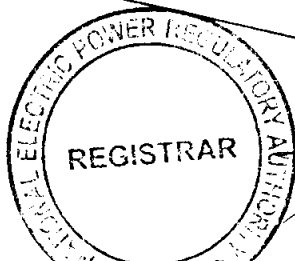
Registrar



Article-1
Definitions

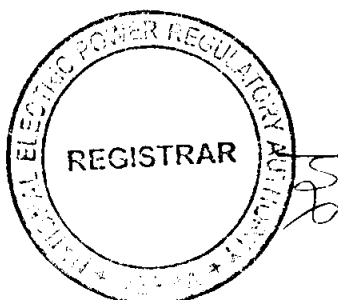
1.1 In this Licence

- (a).** "Act" means "the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997";
- (b).** "Applicable Documents" have the same meaning as defined in the Rules;
- (c).** "Authority" means "the National Electric Power Regulatory Authority constituted under Section-3 of the Act";
- (d).** "Bulk Power Consumer-BPC" means a consumer who purchases or receives electric power at one premises, in an amount of one megawatt or more or any other amount and any voltage level as may be specified by the Authority;
- (e).** "Bus Bar" means a system of conductors in the generation facility/Co-Generation Power Plant of the Licensee on which the electric power of all the generators is collected for supplying to the Power Purchaser;
- (f).** "Co-Generation Power Plant" means the generation facility for simultaneous production of both electric power and heat or steam for industrial processes from a common fuel source;
- (g).** "Commercial Operations Date (COD)" means the day immediately following the date on which the generation facility/Co-Generation Power Plant of the Licensee is commissioned and starts supplying to the Power Purchaser;



- (h). "Law" means all the Act, relevant rules and regulations made there under and all the Applicable Documents;
- (i). "Licensee" means "**NC Electric Company Limited**" and its successors or permitted assigns;
- (j). "Power Purchase Agreement" means the Power Purchase Agreement, entered or to be entered into by and between the Power Purchaser and the Licensee, for the purchase of electric power/energy generated by the generation facility/Co-Generation Power Plant of the Licensee, as may be amended by the parties thereto from time to time;
- (k). "Power Purchaser" means a BPC which has entered or be entering into a Power Purchase Agreement with the Licensee, for the purchase of electric power/energy generated by the generation facility/Co-Generation Power Plant of the Licensee, as may be amended by the parties thereto from time to time;
- (l). "Regulation" means "the National Electric Power Regulatory Authority Licensing (Application & Modification Procedure) Regulations, 1999" as amended or replaced from time to time;
- (m). "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 Rules and regulations issued under the Act.



Article-2
Applicability of Law

This licence is issued subject to the provisions of the Law as amended or replaced from time to time.

Article-3
Generation Facilities

3.1 The location, size (capacity in MW), technology, interconnection arrangements, technical limits, technical and functional specifications and other details specific to the generation facility/Co-Generation Power Plant of the Licensee are set out in Schedule-I of this licence.

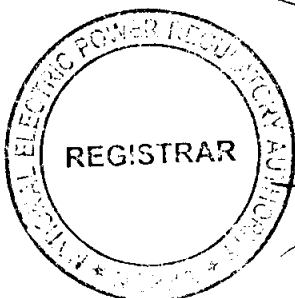
3.2 The net capacity of the generation facility/Co-Generation Power Plant of the Licensee is set out in Schedule-II hereto.

3.3 The Licensee shall provide the final arrangement, technical and financial specifications and other specific details pertaining to its generation facility/Co-Generation Power Plant before its COD.

Article-4
Term of Licence

4.1 The Licence is granted for a term of thirty (30) years after the COD of the generation facility/Co-Generation Power Plant.

4.2 Unless suspended or revoked earlier, the Licensee may apply for renewal of the Licence within ninety (90) days prior to the expiry of the term of the licence, as stipulated in the Regulations.



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 the National Electric Power Regulatory Authority (Fees) Rules, 2002.

Article-6
Tariff

The Licensee shall charge only such tariff which has been determined, approved or specified by the Authority.

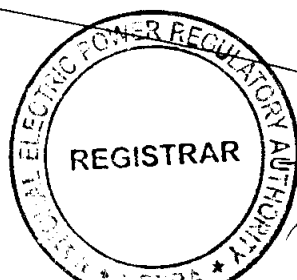
Article-7
Competitive Trading Arrangement

7.1 The Licensee shall participate in such manner 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 into 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 comply with the relevant provisions of the National Electric Power Regulatory Authority Performance Standards (Generation) Rules 2009 as amended from time to time.

Article-10
Compliance with Environmental Standards

10.1 The Licensee at all times shall comply with the environmental standards as may be prescribed by the relevant competent authority as amended from time to time.

10.2 The Licensee shall provide a certificate on a bi-annual basis, confirming that the operation of its generation facility/Co-Generation Power Plant is in line with environmental standards as prescribed by the relevant competent authority.

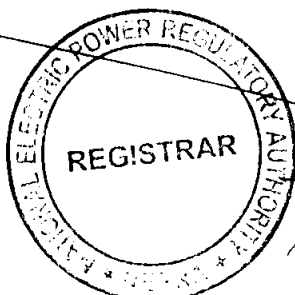
Article-11
Power off take Point and Voltage

The Licensee shall deliver power to the Power Purchaser at the outgoing bus bar of its grid station. The up-gradation (step up) of generation voltage up to the required Interconnection voltage level will be the responsibility of the Licensee.

Article-12
Provision of Information

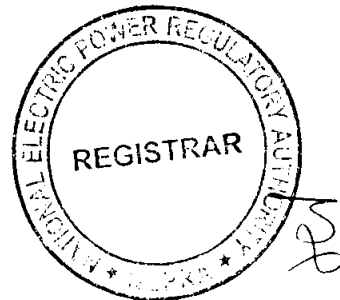
12.1 The obligation of the Licensee to provide information to the Authority shall be in accordance with Section-44 of the Act.

12.2 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.



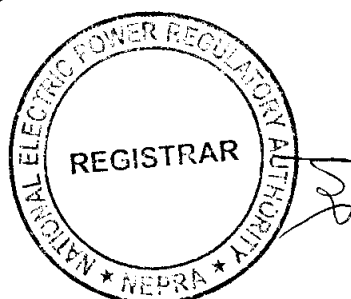
Article-13
Generating Capacity Reserve Requirements

The Licensee shall comply with the minimum and maximum capacity requirements as stipulated and agreed in the Power Purchase Agreement signed between the Licensee and the Power Purchaser(s).

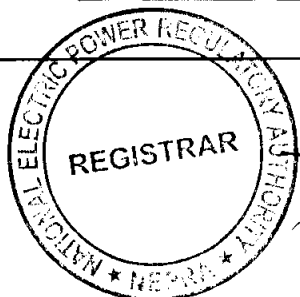


SCHEDULE-I

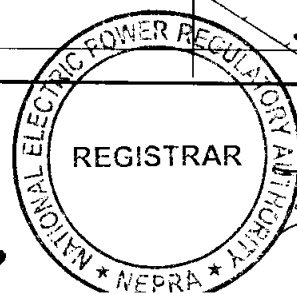
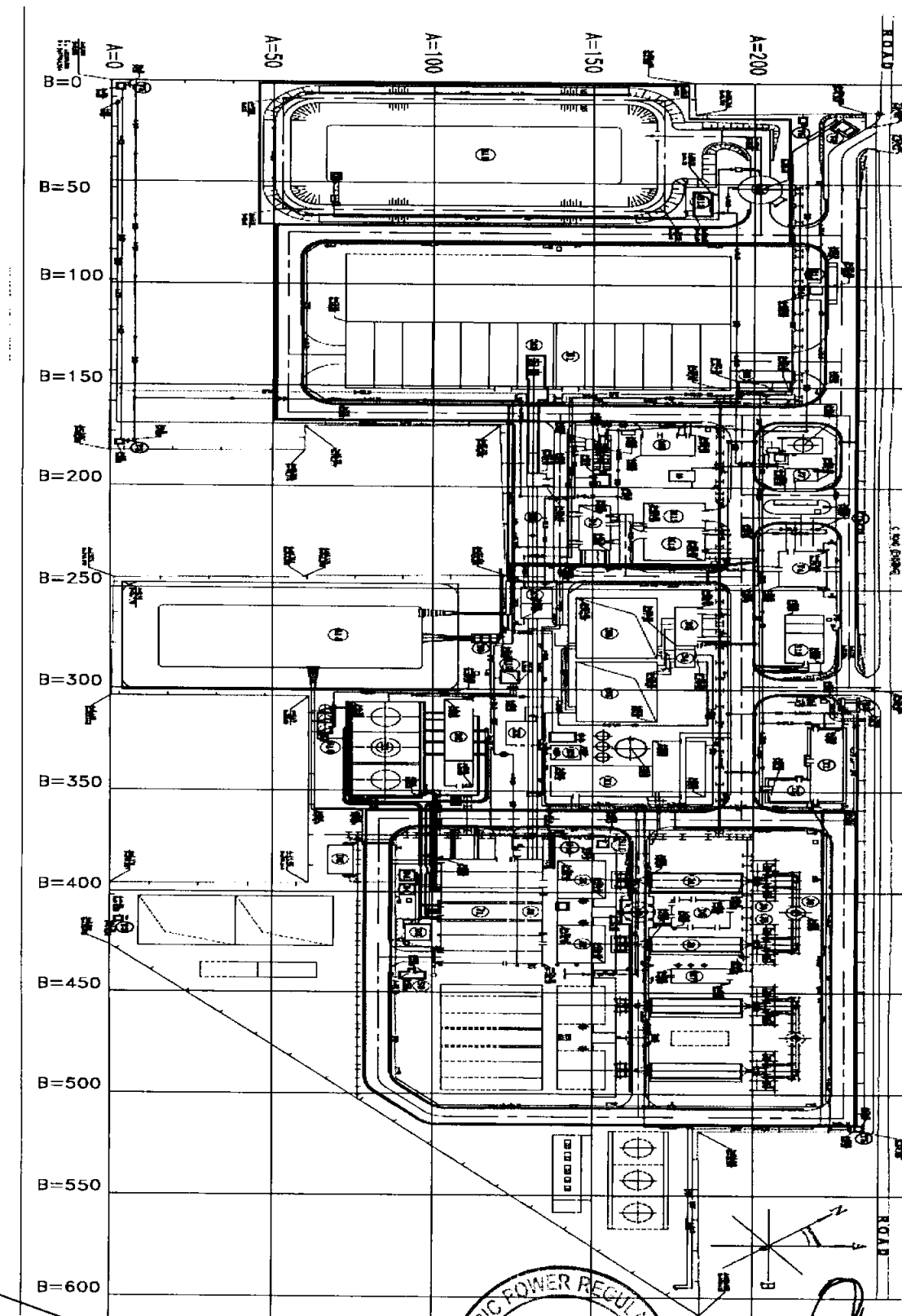
The Location, Size (i.e. Capacity in MW), Type of Technology, Interconnection Arrangements, Technical Limits, Technical/Functional Specifications and other details specific to the Generation Facility of the Licensee are described in this Schedule



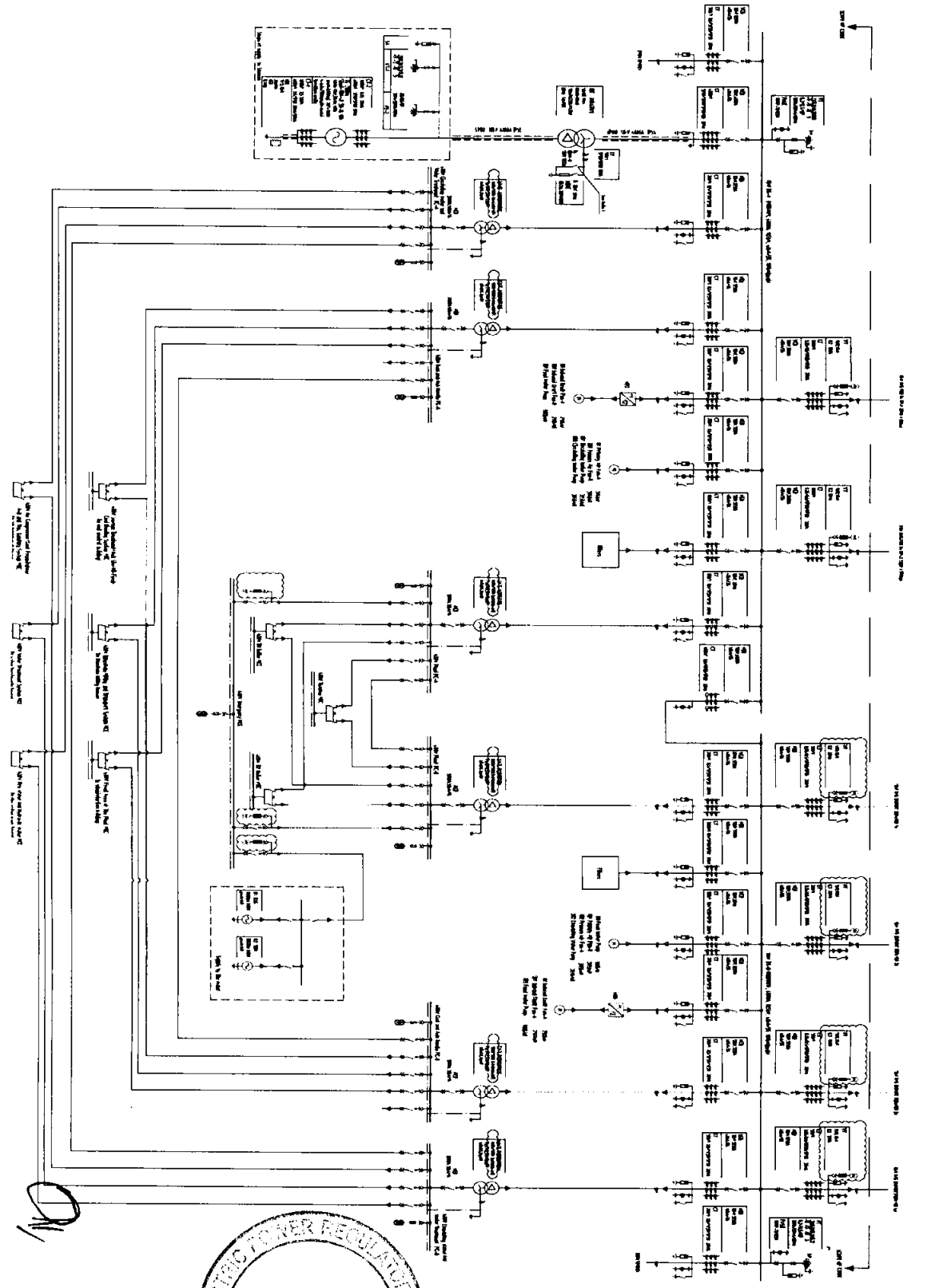
Location of the Generation Facility/Co-Generation Power Plant



Layout of the Generation Facility/Co-Generation Power Plant



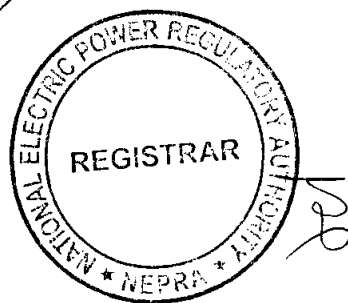
Single line of the Generation Facility/Co-Generation Power Plant



**Interconnection Facilities/
Transmission Arrangements for Dispersal of Power from the
Generation Facility/Co-Generation Power Plant**

The electric power from the Imported/Indigenous Coal based generation facility/power plant of the Licensee/NC Electric Company Limited (NCECL) will be supplied to different Bulk Power Consumers (BPCs).

(2). The Interconnection Facilities (IF)/Transmission Arrangements (TA) for supplying to BPCs from the above mentioned generation facility shall be at 11 kV level as described in the subsequent details given in this Schedule.




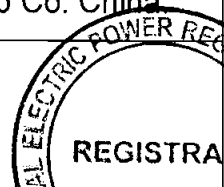
Detail of Generation Facility/Co-Generation Power Plant

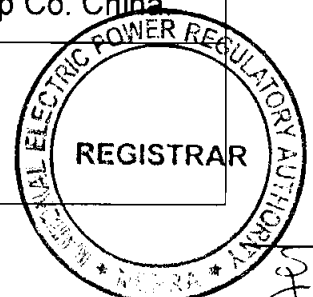
(A). General Information

(i).	Name of the Company/ Licensee	NC Electric Company Limited
(ii).	Registered /Business Office the Company/ Licensee	31-Q, Gulberg II, Lahore
(iii).	Location of the Generation Facility/ Co-Generation Power Plant	49-KM Lahore-Multan Road, Moza Gagga Phoolnagar, Tehsil Pattoki, District Kasur in the Province of Punjab
(iv).	Type of the Generation Facility/ Co-Generation Power Plant	Thermal Generation Facility

(B). Plant Configuration

(i).	Installed Capacity/ Size of the Generation Facility/Co-Generation Power Plant	46.00 MW	
(ii).	Type of Technology of the Generation Facility/ Co-Generation Power Plant	Circulating Fluidized Bed Boiler (Subcritical parameters) and Steam Turbine Thermal Generation Facility	
(iii).	Number of Units/Size (MW)	1 x 46.00 MW	
(iv).	Unit Make/Model & Year of Manufacture	Steam Turbine	Condensing cum extraction Steam Turbine Manufactured in Germany of Siemens AG, Germany.
		Boiler	Circulating Fluidized Bed (CFB) Boiler , with subcritical steam parameters, of Hangzhou Boiler Group Co. China
(v).	Expected COD of the Generation Facility/ Co-Generation Power Plant	May 15, 2016 (Expected) 	

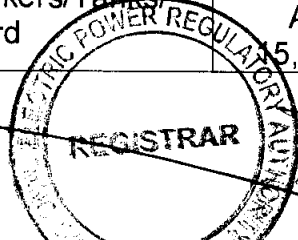




(vi).	Expected Useful Life of the Generation Facility/ Co-Generation Power Plant from COD	30 Years (Minimum)
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(C). Fuel/Raw Material Details

(i).	Primary Fuel	Imported Coal from Indonesia/South Africa etc.		
(ii).	Alternative Fuel	Imported + Local coal from Baluchistan etc. (Upto a Max. of 30 %)		
(iii).	Start-Up Fuel	Light Diesel Oil (LDO)		
(iv).	Fuel Source for each of the above (i.e. Imported/ Indigenous)	The main fuel source is imported coal from South Africa/Indonesia and will be supplied to the site by various suppliers.		
(v).	Fuel Supplier for each of the above	Primary Fuel	Alternative Fuel	Start-Up Fuel
		Imported from Indonesia/ South Africa	Local coal suppliers	Any Oil Marketing Company including PSO, Shell or Total Etc.
(vi).	Supply Arrangement for each of the above	Primary Fuel	Alternative Fuel	Start-Up Fuel
		Approx. 178,000 MT per annum Required capacity to be supplied via trucks from port	Required capacity to be supplied from local mines	Approx. 40 m ³ per annum to be supplied from local suppliers
(vii).	No of Storage Bunkers/Tanks/ Open Yard	Primary Fuel	Alternative Fuel	Start-Up Fuel
		One coal stockyards at Site of the Generation Facility	Power Plant stockyard will be used	one LDO tank
(viii).	Storage Capacity of each Bunkers/Tanks/ Open Yard	Primary Fuel	Alternative Fuel	Start-Up Fuel
		Approx. 15,000 Tons	Approx. 15,000 Tons	50m ³



(ix).	Gross Storage	Primary Fuel	Alternative Fuel	Start-Up Fuel
		Approx. 20,000 Tons	Approx. 20,000 Tons	50m ³

(D). **Emission Values**

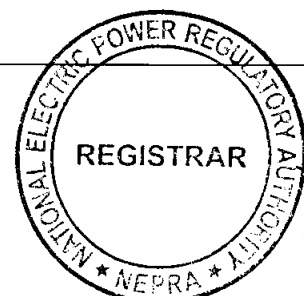
		Primary Fuel	Alternative Fuel	Start-Up Fuel
(i).	SO _x (mg/Nm ³)	<300	<850	<850
(ii).	NO _x (mg/Nm ³)	<510	<635	<510
(iii).	CO ₂ %	14%	14.1%	-

(E). **Cooling System**

(i).	Cooling Water Source/Cycle	Underground through Bore Well Water Cycle/Close Cycle cooling system
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(F). **Plant Characteristics**

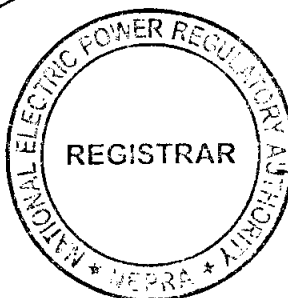
(i).	Generation Voltage	11 KV		
(ii).	Frequency	50Hz		
(iii).	Power Factor	0.8 (lagging) /0.95(leading)		
(iv).	Automatic Generation Control (AGC) (MW control is the general practice)	Yes		
(v).	Ramping Rate (MW/min)	Cold Start	Warm Start	Hot Start
		0.30MW/Min	0.40MW/Min	1.35MW/Min
(vi).	Time required to Synchronize to Grid (Hrs.)	0.5 Hours		



**Information Regarding
Bulk Power Consumers-BPCs being supplied Electric Power from the Generation
Facility/Co-Generation Power Plant of the Licensee-NCECL**

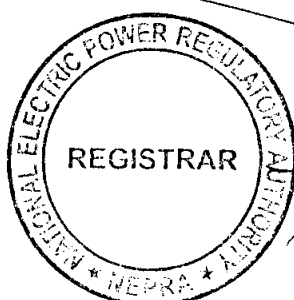
(i).	Total Number of BPCs	Six (06)		
(ii).	Name of the BPCs	BPC-I	Nishat Chunian Limited (Zone-I)	
		BPC-II	Nishat Chunian Limited (Zone-II)	
		BPC-III	Abu Bakar Textile Mills Limited	
		BPC-IV	Marral Textile Mills Limited	
		BPC-V	Hussain Mills Limited	
		BPC-VI	Azam Textile Mills Limited	
(iii).	Location of each of the BPC (distance and/or identity of premises)	BPC-I	49-KM Lahore-Multan Road, Moza Gagga Phoolnagar, Tehsil Pattoki, District Kasur.	
		BPC-II		
		BPC-III		
		BPC-IV		
		BPC-V		
		BPC-VI		
(iv).	Contracted Capacity (MW) and Load Factor (L.F.) for Each of the BPC	Identity	Contracted Load	Load Factor
		BPC-I	13.00 MW	0.85%-0.90%
		BPC-II	16.00 MW	0.85%-0.90%
		BPC-III	04.00 MW	0.80%-0.85%
		BPC-IV	02.00 MW	0.80%-0.85%
		BPC-V	01.80 MW	0.70%-0.80%
		BPC-VI	04.50 MW	0.85%-0.90%
(v).	Specify Whether			
	(a).	Each BPC is an Associate undertaking of the NCECL -If yes, specify percentage ownership of equity;	BPC-I & II (i.e. Nishat Chunian Limited Zone-I & Nishat Chunian Limited Zone-II) are associated undertakings of the Licensee/NCECL whereas other BPCs are not associated in any way.	

	(b).	There are common directorships:	Only BPC-I, II and NCECL have common directors.
	(c).	Either can exercise influence or control over the other.	Yes
(vi).	Specify nature of contractual Relationship		
	(a).	Between NCECL and BPCs	Supplying Electric Power on a continuous basis
	(b).	Between BPCs and LESCO.	All BPCs are also consumers of LESCO
(vii).	Any other network information deemed relevant for disclosure to or consideration of the Authority		N/A 

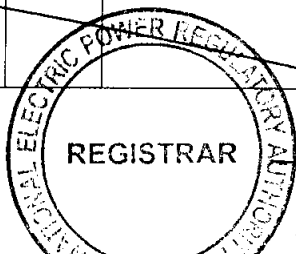


Information Regarding
Distribution Network for Supply of Electric Power to Different BPCs By the
Licensee [(i.e. NC Electric Company Limited -NCECL)]

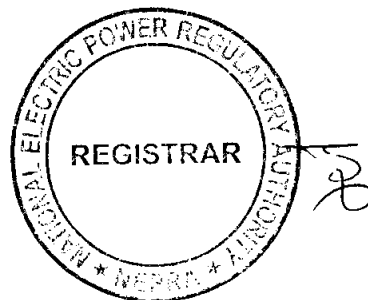
(i).	No. of Feeders	06 (Six)		
(ii).	Length of Each Feeder (Meter)	Identity	Feeder No.	Feeder Length
		BPC-I	F-I	1.90 KM
		BPC-II	F-II	0.80 KM
		BPC-III	F-III	0.50 KM
		BPC-IV	F-IV	1.00 KM
		BPC-V	F-V	1.20 KM
		BPC-VI	F-VI	2.00 KM
(iii).	Length of Each Feeder to each Consumer	As Above		
(iv).	In respect 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.	F-I	The feeder is located mostly on the private property owned by BPC itself. However, the Feeder crosses a Public Property i.e. Saran Road while connecting to BPC-I	
		F-II	The feeder is located on the private property owned by BPC itself	
		F-III	-Do-	
		F-IV	-Do-	
		F-V	-Do-	
		F-VI	The feeder is located mostly on the private property. However, the Feeder crosses a Public Property i.e. Saran Road while connecting to BPC-VI	



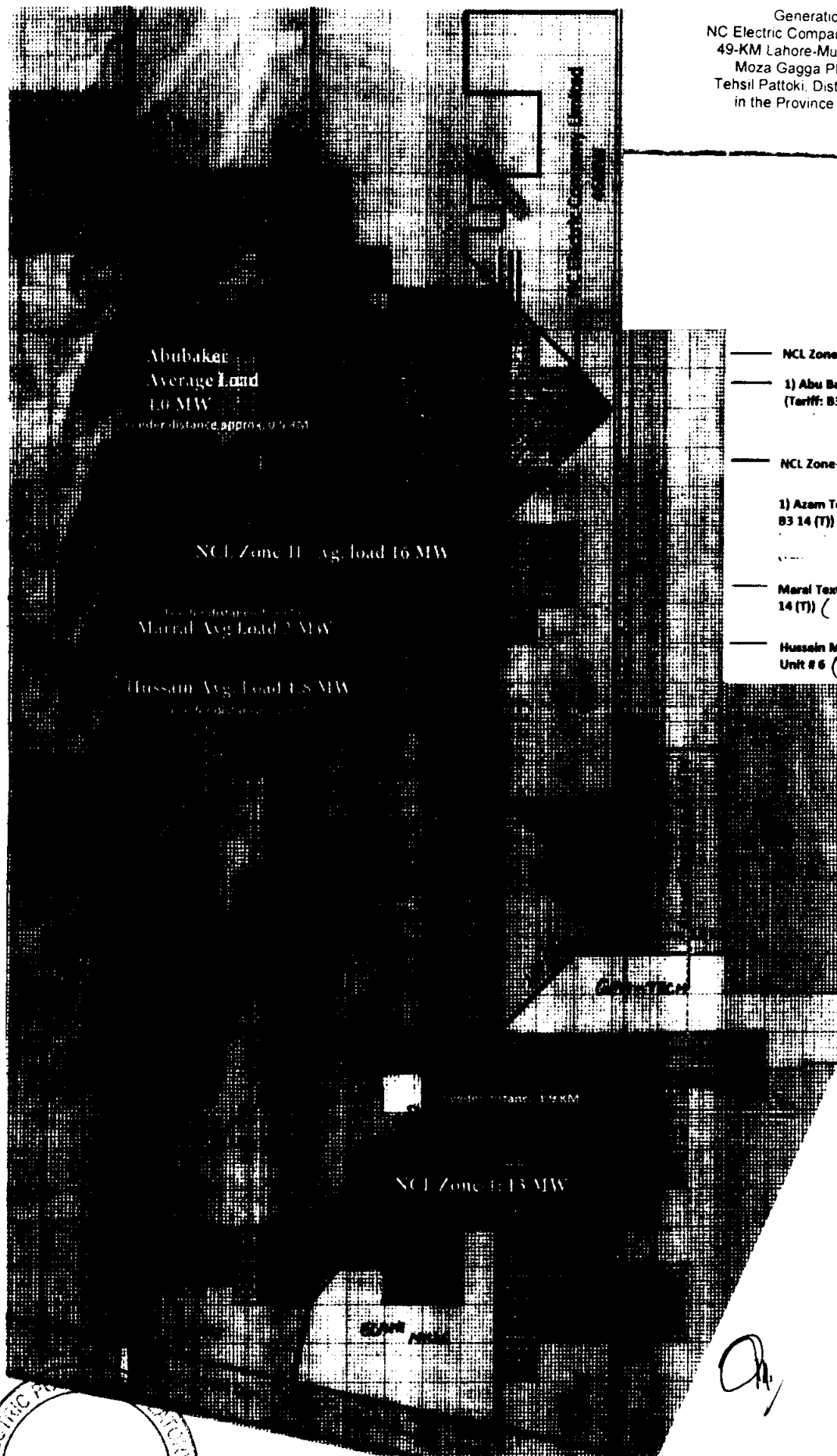
(v).	Whether owned by NCECL, BPC or LESCO-(deal with each Feeder Separately)			
	(a).	If owned by LESCO, please furnish particulars of contractual arrangement		
			F-I	The complete Feeder will be constructed by the BPC itself. The portion of the feeder crossing the public property (i.e. crossing of the Road) will be handed over to LESCO either through sale or lease as decided mutually by the parties (i.e. BPC, NCECL and LESCO)
			F-II	Owned by BPC itself
			F-III	-Do-
			F-IV	-Do-
			F-V	-Do-
			F-VI	The complete Feeder will be constructed by the BPC itself. The portion of the feeder crossing the public property (i.e. crossing of the Road) will be handed over to LESCO either through sale or lease as decided mutually by the parties (i.e. BPC, NCECL and LESCO)
			F-I	The O&M of the Feeder will be done by BPC itself except the portion of crossing of the public property (i.e. Saran Road), whose O&M will be done either by BPC, NCECL or LESCO on mutually agreed terms and conditions.
			F-II	BPC itself
			F-III	-Do-
			F-IV	-Do-
			F-V	-Do-
		Operation and maintenance (O&M) responsibility for each feeder	F-VI	The O&M of the Feeder will be done by BPC itself except the portion of crossing of the public property (i.e. Saran Road), whose O&M will be done either by BPC, NCECL or LESCO on mutually agreed terms and conditions.



(vi).	Whether connection with network of LESCO exists (whether active or not)- If yes, provide details of connection arrangements (both technical and contractual)	Yes, all BPC(s) are also Consumer of LESCO
(vii).	Any other network information deemed relevant for disclosure to or consideration of the Authority.	N/A



Schematic Diagram for Supply of Electric Power to Bulk Power
from the Generation Facility/Co-Generation Power Plant



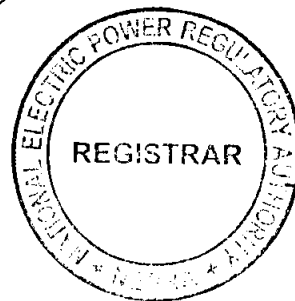
Generation Licence
NC Electric Company Limited
49-KM Lahore-Multan Road
Moza Gagga Phoolnagar
Tehsil Pattoki, District Kasur
in the Province of Punjab



SCHEDULE-II

The Installed/ISO Capacity (MW), De-Rated Capacity At Mean Site Conditions (MW), Auxiliary Consumption (MW) and the Net Capacity At Mean Site Conditions (MW) of the Generation Facilities of Licensee is given in this Schedule

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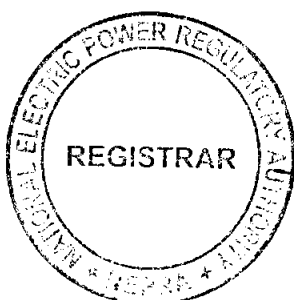


SCHEDULE-II

(1).	Total Gross Installed Capacity of the Generation Facility/Co-Generation Power Plant	46.00 MW
(2).	De-rated Capacity of the Generation Facility/Co-Generation Power Plant at Reference Site Conditions	46.00 MW
(3).	Auxiliary Consumption of the Generation Facility/Co-Generation Power Plant	05.00 MW (approx.)
(4).	Total Net Capacity of the Generation Facility/Co-Generation Power Plant at Reference Site Condition	41.00 MW (approx.)

Note

All the above figures are indicative as provided by the Licensee. The Net Capacity available to Power Purchaser(s) for dispatch will be determined through procedure(s) contained in the Power Purchase Agreement or any other applicable document(s).



Authorization
by National Electric Power Regulatory Authority (NEPRA) to
NC Electric Company Limited (NCECL)

Incorporated under Section-32 of the Companies Ordinance, 1984 (XLVII of 1984)
Under Corporate Universal Identification

No. 0087934, Dated April 18, 2014

NEPRA GENERATION LICENCE No. SGC/115/2016
For
Sale to Bulk Power Consumer(s)

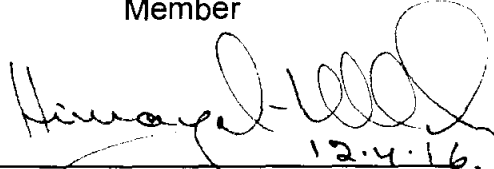
Pursuant to Section-21 of the NEPRA Act and Rule-7 of the NEPRA Licensing (Generation) Rules, 2000, the Authority hereby authorizes NCECL/(the Licensee) to engage in Second-Tier Supply business, limited to the following consumer(s) as mentioned in the Schedules-I of the Generation Licence (No. SGC/115/2016).

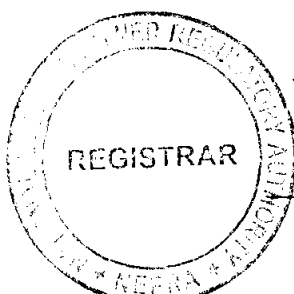
- (i). Nishat Chunian Limited (Zone-I);
- (ii). Nishat Chunian Limited (Zone-II);
- (iii). Abu Bakar Textile Mills Limited;
- (iv). Marral Textile Mills Limited;
- (v). Hussain Mills Limited; and
- (vi). Azam Spinning Mills Limited.

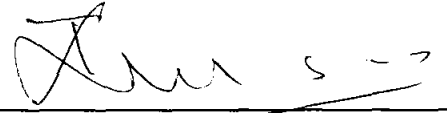

(Syed Masood-Ul-Hassan Naqvi)
Member


(Maj. Rtd. Haroon Rashid)
Member

- Sd -
(Khawaja Muhammad Naeem)
Member


(Himayat Ullah Khan)
Member/Vice Chairman




(Brig. (R) Tariq Saddozai)
Chairman