



Registrar

National Electric Power Regulatory Authority Islamic Republic of Pakistan

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No. NEPRA/R/LAG-335/18320-25

October 01, 2019

Mr. Suhail A. Khan,
Chief Executive Officer,
ICI Pakistan Limited,
ICI House, 63-Muzang Road,
Lahore.

Subject: **Modification in Generation Licence No: SGC/122/2017
Licence Application No. LAG-335
ICI Pakistan Limited, (ICIPL)**

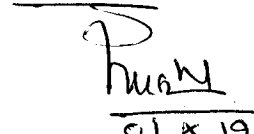
Reference: *ICIPL's LPM submitted vide letter dated August 06, 2018 (received on August 09, 2018)*

It is intimated that the Authority has approved Modification in Generation Licence No. SGC/122/2017 dated November 20, 2017 in respect of ICI Pakistan Limited (ICIPL), pursuant to Regulation 10(11)(a) of the NEPRA Licensing (Application and Modification Procedure) Regulations 1999.

2. Enclosed please find herewith determination of the Authority in the matter of Licensee Proposed Modification in the Generation Licence of ICIPL along with Modification-I in the Generation Licence No. SGC/122/2017, as approved by the Authority.

Encl: As above




01 x 19
(Syed Safeer Hussain)

Copy to:

1. Secretary, Power Division, Ministry of Energy, A Block, Pak Secretariat, Islamabad.
2. Managing Director, NTDC, 414-WAPDA House, Lahore.
3. Chief Executive Officer, CPPA-G, ENERCON Building, Sector G-5/2, Islamabad.
4. Chief Executive Officer, Lahore Electric Supply Company (LESCO), 22-A, Queens Road, Lahore.
5. 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 Licensee Proposed Modification of
ICI Pakistan Limited

October 01, 2019
Case No. LAG-335

(A). Background

(i). The Authority in terms of Section-15 (now Section-14B) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 as amended from time to time ("the NEPRA Act") granted generation licence (No. SGC/122/2017 dated November 20, 2017) to ICI Pakistan Limited (ICIPL).

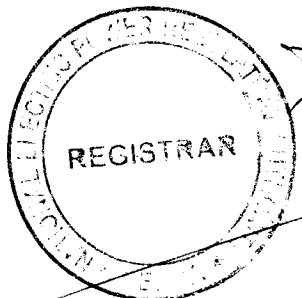
(ii). The above licence envisaged setting up 15.0 MW Imported Coal based generation facility/thermal power plant at 30-KM Lahore-Sheikhupura Road, District Sheikhupura, in the Province of Punjab for supplying 12.0 MW to Lahore Electric Supply Company Limited (LESCO).

(B). Communication of Modification

(i). ICIPL in accordance with Regulation-10(2) of the NEPRA Licensing (Application & Modification Procedure) Regulations, 1999 ("the Licensing Regulations") communicated a Licensee Proposed Modification (LPM) in its above mentioned generation licence on August 09, 2018.

(ii). In the "text of the proposed modification", ICIPL stated that it has proposed to add a bulk power consumer namely Nutrico Morinaga (Pvt.) Limited (NTMPL) and exclusion of LESCO from its generation licence.

(iii). Regarding the "statement of the reasons in support of the modification", ICIPL *inter alia* submitted that NTMPL has agreed to purchase power as Bulk Power Consumer (BPC) from it to the tune of 5.00 MW subject to necessary regulatory approval for which modification in the generation licence is required.



(iv). About the statement of "the impact on tariff", "quality of service (QoS)" and "the performance by the licensee of its obligation under the licence", ICIPL confirmed that the proposed changes will not have any impact on its existing tariff, QoS and the Performance of the Licensee of its obligation under the existing licence.

(C). Processing of Modification

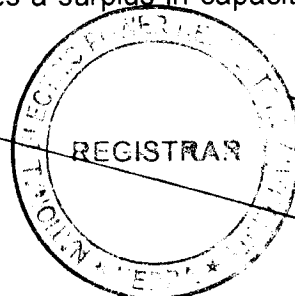
(i). After completion of all the required information as stipulated under the Regulation-10(2) and 10(3) of the Licensing Regulations by the Licensee, the Registrar published the communicated LPM in one (01) English and one (01) Urdu daily newspaper on August 25 & 28, 2018, informing the general public, interested/affected parties, and different stakeholders about the said LPM as required under the Regulation-10(4) of the Licensing Regulations.

(ii). The Registrar invited comments of the said stakeholders in favor or against the communicated LPM. Apart from the said notice in the press, separate letters were also sent to individual experts, Government ministries/attached departments and other representative organizations etc. on August 28, 2018 inviting their views and comments for the assistance of the Authority as stipulated in Regulation-10(9) of the Licensing Regulations.

(D). Comments of Stakeholders

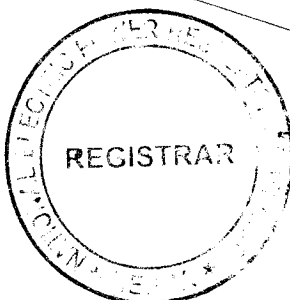
(i). In response to the above, the Authority received comments from two (02) stakeholders which included Central Power Purchasing Agency (Guarantee) Limited (CPPA-G) and LESCO. The salient points of the comments offered by the said stakeholders are summarized below: -

- (a). CPPA-G remarked that ICIPL has proposed to add a new BPC in the name of NTMPL and removal of LESCO from its generation licence which would impact the projected demand for energy of LESCO. Accordingly, due consideration should be carried out by the Authority prior to issuance or modification of the generation licence. It is pertinent to mention that the Authority in its State of Industry Report, 2017 ("SIR 2017") indicates a surplus in capacity to the tune



of 13,934 MW by 2025. The said surplus has a significant financial implication for the end consumers to the tune of U.S. \$ 22.00 billion by the year 2025. In light of the above, the proposed modification in the generation licence may be considered in light of the demand vs. supply situation. The power purchaser for the instant project is LESCO and not CPPA-G therefore, comments of the concerned utility may be obtained;

- (b). LESCO remarked that previously ICI Pakistan PowerGen Limited (ICIPPGL) filed LPM in its generation licence No. 003/SGC/2001, dated August 27, 2001 for supply of power to NTMPL wherein comments were submitted raising issues pertaining (a). power of the Authority to allow companies supplying to BPCs after the expiry of the fifteen (15) years as stipulated in the NEPRA Act; and (b). laying of feeders passing through public property thus violating the exclusivity of the distribution licence of LESCO. Thereafter, the Authority issued the Modification allowing ICIPPGL to supply to NTMPL. Now, ICIPL has also submitted an LPM in its generation licence No. SGC/122/2017, dated November 20, 2017 for adding NTMPL as a BPC and removal of LESCO from its generation licence. The premises of NTMPL is adjacent to boundary wall of ICIPL and there is no connection of LESCO. It is worth mentioning here that the premises of NTMPL is adjacent to the boundary wall of ICIPL and is not within the boundary of ICIPL so in this way it lies in the services territory of LESCO. Both the power plants/generation facilities i.e. under licence No. 003/SGC/2001 and licence No. SGC/122/2017 lie within the same boundary wall. LESCO always objects any arrangement of violation of its service territory, so this aspect must be kept in view while proceeding further in this matter.



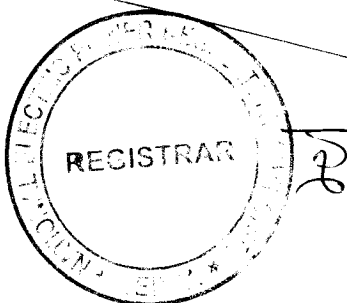
(ii). The Authority reviewed the comments of the above stakeholders and in view of the observations of CPPA-G and LESCO considered appropriate seeking perspective of ICIPL. In response to the said, ICIPL on the comments of CPPA-G submitted that despite the hectic effort LESCO has not purchased a single unit from it therefore, the proposed modification will not have any effect on the demand and supply of LESCO. Regarding the observations of LESCO, it was clarified that the premises of NTMPL is adjacent to boundary wall of ICIPL therefore, it does not form part of the service territory of LESCO. The proposed feeder will be strictly located on property owned by NTMPL therefore, there will not be any violation of the service territory of LESCO.

(iii). The Authority reviewed the above rejoinder of ICIPL to the observations of stakeholders and found the same plausible. Accordingly, the Authority considered it appropriate to process the LPM of ICIPL as stipulated in the Licensing Regulations and the NEPRA Licensing (Generation) Rules, 2000 ("the Generation Rules").

(E). Evaluation/Findings

(i). The Authority has examined the submissions of ICIPL including the already granted generation licence and information submitted along with the application of LPM, comments of stakeholders, response of ICIPL and the relevant rules & regulations.

(ii). In this regard, the Authority observes that in terms of Regulation-10(5) of the Licensing Regulations, the Authority is entitled to modify a licence if, in the opinion of the Authority such modification (a). does not adversely affect the performance by the licensee of its obligations; (b). does not cause the Authority to act or acquiesce in any act or omission of the licensee in a manner contrary to the provisions of the amended NEPRA Act or the rules or regulations made pursuant to it; (c). is or is likely to be beneficial to the consumers; (d). is reasonably necessary for the licensee to effectively and efficiently perform its obligations under the licence; and (e). is reasonably necessary to ensure the continuous, safe and reliable supply of electric power to the consumers keeping in view the financial and technical viability of the licensee.

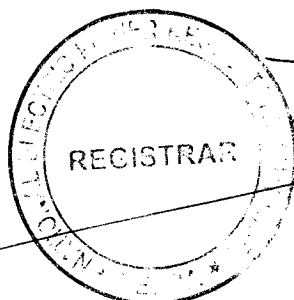


(iii). As explained in the preceding paragraphs, the Authority granted generation licence to ICIPL for supplying 12.0 MW to the concerned utility i.e. LESCO however, despite hectic efforts of the company, no PPA could be signed between the parties and the generation facility remained idle. Accordingly, the company/Licensee/ICIPL communicated LPM for supplying to BPC (to the tune of 5.00 MW) instead of LESCO as stipulated under Section-22 of the NEPRA Act as amended from time to time.

(iv). Regarding supply to the BPC, the Authority has observed that proposed BPC of ICIPL is located adjacent to the generation facility/thermal power plant without involving any third party. Further, the feeder supplying the BPC will not involve any public or third party property. Pursuant to Section-22 of the NEPRA Act, the Authority is empowered to allow a generation company to sell electric power to a BPC located in the service territory of the holder of a licence under the NEPRA Act. In view of the said, the Authority allows the proposed arrangement to sell electricity to the BPC.

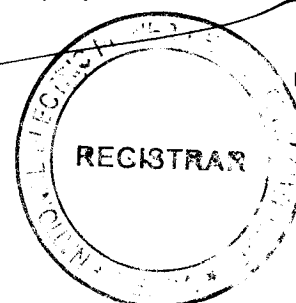
(v). Further to above, under Section-2(v) of the amended NEPRA Act, ownership, operation, management and control of distribution facilities located on private property and used solely to move or deliver electric power to the person owning, operating, managing and controlling those facilities or to tenants thereof has not been included in the definition of "distribution". Based on the said considerations that the proposed BPC is located adjacent to ICIPL and no public area is involved, the Authority considers that the supply of power to the BPC by ICIPL does not constitute a distribution activity under the amended NEPRA Act, and ICIPL will not require a distribution licence for supplying to the BPC.

(vi). The Authority has observed that CPPA-G in its comments has raised concerns that the grant of LPM would affect the projected demand of concerned DISCO. In this regard, it is pertinent to mention that NTMPL is neither an existing consumer nor it has applied to LESCO for any new connection. Further, LESCO has not entered into any PPA with ICIPL for purchase of power. In view of the said explanation, the Authority is of considered opinion that the proposed modification will not have any impact on the projected supply-demand of LESCO.



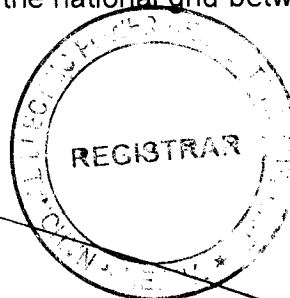
(vii). CPPA-G also highlighted that the Rule-3 of the Generation Rules lays down the least cost option criteria for the grant of generation licence therefore, the same may be considered accordingly. Regarding observations of CPPA-G on Rule-3 of the Generation Rules, the Authority has observed that the Rule-3 of the Generation Rules describes a broad criterion for the grant of generation licence which includes: (a). sustainable development or optimum utilization of the RE or non-RE resources proposed for generation of electric power; (b). the availability of indigenous fuel and other resources; (c). the comparative costs of the construction, operation and maintenance of the proposed generation facility against the preferences indicated by the Authority; (d). the cost and right-of-way considerations related to the provision of transmission and interconnection facilities; (e). the constraints on the transmission system likely to result from the proposed generation facility and the costs of the transmission system expansion required to remove such constraints; (f). the short-term and the long-term forecasts for additional capacity requirements; (g). the tariff resulting or likely to result from the construction or operation of the proposed generation facility; and (h). the optimum utilization of various sites in the context of both the short-term and the long-term requirements of the electric power industry as a whole. In this regard, the Authority clarifies that while deciding the applications for the grant of generation licences it invariably considers the provisions of the above mentioned rules. The Authority in the particular case of IC IPL duly considered the provisions of the above mentioned rules. In this regard, the Authority reiterates the findings given in its determination for the grant of the original generation licence of IC IPL.

(viii). Further, CPPA-G has made reference to SIR 2017 and has contested that according to the said report there will be surplus capacity in the years 2018-25. In this regard, the Authority hereby clarifies that the specific provisions referred to by CPPA-G are purely based on data provided by NTDC whereby it has been indicated that there may be surplus installed capacity due to addition of various types of power generation facilities including Coal, Gas, Wind, Solar Bagasse, Hydro and Nuclear. However, it has been clearly mentioned in Section 1.1 of the said report that "...the capacity surplus in the later years i.e. 2022 to 2025 may not be available due to multiple issues and resulting uncertainties in completion of large hydro-based power projects..."



(ix). In this regard, the Authority hereby refers to the associated information contained in Table-31, Table-34 and Table-35 which together give the capacity and the expected commissioning year of future projects pertaining to hydel projects in the public sector; hydel, coal and RLNG projects being set in the private sector; Solar, Wind and Bagasse/Biomass based generation facilities to be set up in the private sector. A detailed review of these project reveals projects like Dasu (Phase-I), Mangla Up-gradation and Diamer Bhasha having accumulated installed capacity of 6970 MW, expected Commissioning Year of 2024 may be delayed considering the fact that a number of milestones pertaining to the projects including acquisition of land, preparation/approval of PC-I and award of contract(s) are facing delays for one reason or the other. Similar projects of coal and hydel in the private sector namely (a). Kohala; (b). Chakothi-Hattian; (c). Azad Pattan; (d). Kaigah; (e). Mahli; (f). Turtonas-Uzghor; and (g). Athmuqam; with accumulative installed capacity of 3810 MW, which envisaged expected commissioning date of December 2024 and 2025 are facing delays in financial close and thus construction and other related activities. The review of the latest update available on the website of PPIB indicates that these project will not be coming online before December 2028.

(x). Further to the above, imported/local coal projects of (a). Grange; (b). Shanghai Electric and (c). Oracle Thar of accumulated installed capacity of 2803 MW having expected commissioning date between September 2019-2021 are delayed considerably. According to the information available from PPIB, for the project of Grange, a notice for encashment of Guarantee has been issued which is under litigation. Further, the expected COD for projects of Shanghai and Oracle Thar will now be at least 2023. Regarding wind power projects, the Authority has issued licences and tariff to a number of wind power projects which are facing delay due to non-issuance of Letter of Support (LoS) due to which it is not clear that projects of (a). Shaheen Renewable Energy 1 (Private) Limited; (b). Master Green Energy (Private) Limited; (c). Western Energy (Private) Limited; (d). Lakeside Energy (Private) Limited; (e). Artistic Wind Power (Private) Limited; (f). Trans Atlantic Energy (Private) Limited; (g). Tricom Wind Power (Private) Limited; (h). Din Energy Limited; (i). Act 2 Wind (Private) Limited; and (j). NASDA Green Energy (Private) Limited having accumulated installed capacity of 499.3 MW which were earlier anticipated to be connected to the national grid between 2019-

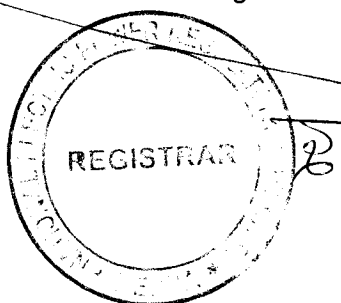


2025, will come online. Further, as of now there is no clarity whether these projects will be implemented under the cost plus regime or the competitive bidding arrangement and this uncertainty is resulting in further delays of project implementation.

(xi). Also on the front of Solar, similar kind of situation is prevailing as the power projects mentioned in the Table-35 consist of (a). Access Solar (Pvt.) Limited; (b). Buksh Solar (Pvt.) Limited; (c). Jan Solar (Pvt.) Limited (JSPL); (d). Lalpir Solar Power (Pvt.) Limited; (e). Blue Star Hydel (Pvt.) Limited (BSHPL); (f). Blue Star Electric (Pvt.) Limited (BSEPL); (g). Siddiqsons Energy Limited (SEL) and (h.) Zurlu Energy (Pvt.) Limited (ZEPL) of accumulated installed capacity of 193.52 MW are in limbo for same reasons as mentioned in the case of wind power projects. Further, the Authority granted generation licences and tariff to different bagasse based projects including: (a). Hunza Power (Pvt.) Limited; (b). Indus Energy Limited; (c). Faran Power (Pvt.) Limited; (d). Mirpurkhas Energy Limited; (e). Etihad Power Generation Limited; and (g). Bahawalpur Energy (Pvt.) Limited with accumulated installed capacity of 238.90 MW. However, the Energy Purchase Agreements of the said projects have not been achieved yet due to which these projects are facing delays and their expected COD will now be postponed for at least two (02) years instead of that given in the SIR 2017.

(xii). The above discussion highlights that atleast thirty-four (34) power projects, with a cumulative capacity of over 11000 MW, have indeterminate CODs due to varying delays and issues. The remarks of the Authority relating to surplus capacity in the SIR 2017 are based *inter alia* upon these projects and their facts at the time. Those facts and fate of these projects have changed considerably since 2017. Therefore, CPPA-G's reliance on obsolete facts from 2017, and the Authority's remarks thereupon, are immaterial to the instant proceedings. Furthermore, if the licensee fulfils the requirements of law prescribed under the relevant rules and regulations for the grant of LPM, then, regardless of the CPPA-G's objections regarding surplus power or otherwise, the applicant is legally entitled to grant of LPM.

(xiii). In consideration of the above, the Authority clarifies that (a). the proposed LPM will not have any adverse effect on the performance of the licensee of its obligations under the existing generation licence; (b). the LPM will



not cause the Authority to act or acquiesce in any act or omission of the licensee in a manner contrary to the provisions of the NEPRA Act or the rules or regulations made pursuant to it; (c). the LPM is likely to be beneficial to the BPC as it will be having continuous supply of reliable electric power from the Licensee; (d). the LPM is reasonably necessary for the licensee to effectively and efficiently perform its obligations under the licence; and (e).is reasonably necessary to ensure the continuous, safe and reliable supply of electric power to the BPC keeping in view the financial and technical viability of the licensee.

(F). Approval of LPM

(i). In view of the above, the Authority is satisfied that ICIPL has complied with all the requirements of the Licensing Regulations pertaining to the modification. Therefore, the Authority in terms of Regulation-10(11)(a) of the Licensing Regulations approves the communicated LPM.

(ii). Accordingly, the generation licence (No. SGC/122/2017 dated November 20, 2017) is hereby modified. The changes made in the generation licence are attached as annexure to this determination. The approval of the LPM will be subject to the provisions contained in the NEPRA Act, relevant rules framed there under, terms & conditions of the generation licence and other applicable documents.

Authority:

Rafique Ahmed Sheikh
(Member)

Rafique Ahmed Sheikh
28/10/19

Saif Ullah Chattha
(Member)

Saif Ullah Chattha
1.10.2019

Rehmatullah Baloch
(Member)

Rehmatullah Baloch
21/10/19



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

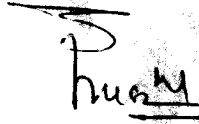
GENERATION LICENCE

No. SGC/122/2017

In exercise of the powers conferred upon under Section-26 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 as amended or replaced from time to time, the Authority hereby modifies the Generation Licence granted to **ICI PAKISTAN LIMITED** (issued on November 20, 2017 and expiring on November 19, 2032), to the extent of changes mentioned as here under:-

- (i). **Changes in Articles of the Generation Licence attached as Revised/Modified Articles of the Generation Licence;**
- (ii). **Changes in Schedule-I attached as Revised/Modified Schedule-I;**
- (iii). **Changes in Schedule-II attached as Revised/Modified Schedule-II; and**
- (iv). **New Second Tier Supply Authorization has been added.**

This **Modification-I** is given under my hand on 1st day of **October**
Two Thousand & Nineteen.


Registrar 01 x 19





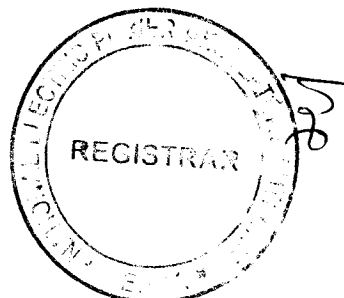


Article-1
Definitions

1.1 In this licence

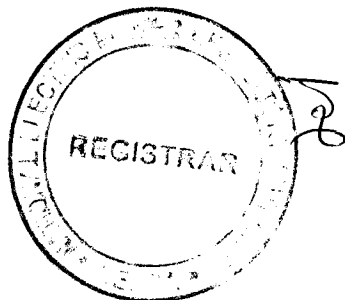
- (a). "Act" means the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 as amended or replaced from time to time;
- (b). "Applicable Documents" mean the Act, the rules and regulations framed by the Authority under the Act, any document or instrument issued or determinations made by the Authority under any of the foregoing or pursuant to the exercise of its powers under the Act, the Grid Code, the applicable Distribution Code, if any, or the documents or instruments made by the Licensee pursuant to its generation licence, in each case of a binding nature applicable to the Licensee or, where applicable, to its affiliates and to which the Licensee or any of its affiliates may be subject;
- (c). "Applicable Law" means the Act, relevant rules and regulations made there under and all the Applicable Documents;
- (d). "Authority" means the National Electric Power Regulatory Authority constituted under Section-3 of the Act;
- (e). "Bus Bar" means a system of conductors in the generation facility of the Licensee on which the electric power from all the generators is collected for supplying to the Power Purchaser or Bulk Power Consumer;
- (f). "Bulk Power Consumer (BPC)" means a consumer which purchases or receives electric power, at one premises, in an amount of one (01) megawatt or more or in such other amount and voltage level and with such other characteristics as the Authority may specify and the Authority may specify different amounts and voltage levels and with such other characteristics for different areas;

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- (g). "Commercial Operations Date (COD)" means the day immediately following the date on which the generation facility/Thermal Power Plant of the Licensee is commissioned;
- (h). "CPPA-G" means Central Power Purchasing Agency (Guarantee) Limited or any other entity created for the like purpose;
- (i). "Generation Rules" mean the National Electric Power Regulatory Authority Licensing (Generation) Rules, 2000 as amended or replaced from time to time;
- (j). "LESCO" means Lahore Electric Supply Company Limited or its successors or permitted assigns;
- (k). "Licensee" means ICI PAKISTAN LIMITED or its successors or permitted assigns;
- (l). "Licensing Regulations" mean the National Electric Power Regulatory Authority Licensing (Application & Modification Procedure) Regulations, 1999 as amended or replaced from time to time;
- (m). "Power Purchase Agreement (PPA)" means the power purchase agreement, entered or to be entered into by and between the Power Purchaser and the Licensee, for the purchase and sale of electric power generated by the generation facility/Thermal Power Plant of the Licensee, as may be amended by the parties thereto from time to time;
- (n). "Power Purchaser" means a person or registered entity/licence holder *or BPC* which will be purchasing electric power from the Licensee, pursuant to a PPA for procurement of electric power;
- (o). "Thermal Power Plant" means the generation facility using fossil fuel for generation of electric power;



- (p). "XW-DISCO" means "an Ex-WAPDA distribution company engaged in the distribution of electric power".

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 Applicable Law, as amended or replaced from time to time.

Article-3
Generation Facilities

The location, size (capacity in MW), technology, interconnection arrangements and other details specific to the generation facility/Thermal Power Plant of the Licensee are set out in Schedule-I of this licence. The net capacity of the generation facility/Thermal Power Plant of the Licensee is set out in Schedule-II of this licence.

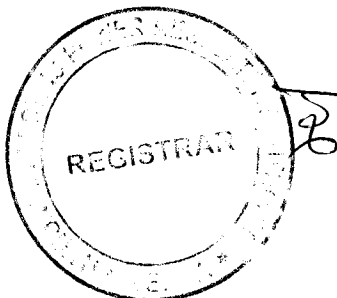
Article-4
Term of Licence

4.1 This licence is effective from the original date of its issuance i.e. November 20, 2017 and has the term of fifteen (15) years from the said date subject to the provisions of Section-14B of the Act.

4.2 Unless suspended or revoked earlier, the Licensee may apply for renewal of this Licence ninety (90) days prior to the expiry of the above term, as stipulated in the Generation Rules read with Licensing Regulations.

Article-5
Licence fee

The Licensee shall pay to the Authority the licence fee as stipulated in the National Electric Power Regulatory Authority (Fees) Rules, 2002 as amended or replaced from time to time.



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Article-6
Tariff

The Licensee is allowed to charge the Power Purchaser(s) such tariff which has been agreed between the Licensee and the Power Purchaser(s), pursuant to the Power Purchase Agreement(s).

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.

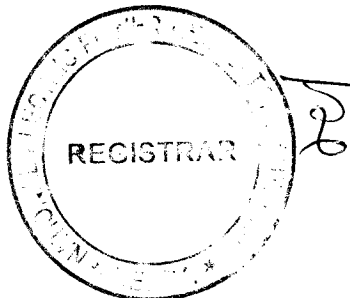
7.2 Any variation or modification in the above-mentioned contracts for allowing the parties thereto to participate wholly or partially in the Competitive Trading Arrangement shall be subject to mutual agreement of the parties thereto and such terms and conditions as may be approved by the Authority.

Article-8
Maintenance of Records

For the purpose of sub-rule(1) of Rule-19 of the Generation 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 or replaced from time to time.



Article-10
Compliance with Environmental & Safety Standards

10.1 The generation facility/Thermal Power Plant of the Licensee shall comply with the environmental and safety standards as may be prescribed by the relevant competent authority from time to time.

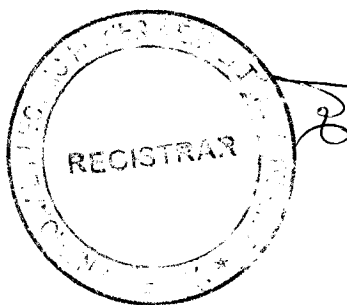
10.2 The Licensee shall provide a certificate on a bi-annual basis, confirming that the operation of its generation facility/Thermal Power Plant is in line with environmental standards as prescribed by the relevant competent authority.

Article-11
Provision of Information

In accordance with provisions of Section-44 of the Act, the Licensee shall be obligated to provide the required information in any form as desired by the Authority without any exception.

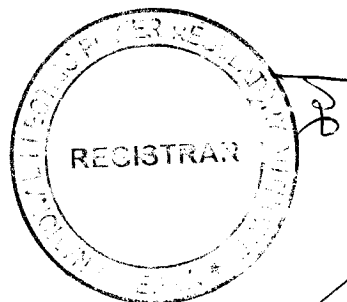
Article-12
Power off take Point and Voltage

The Licensee shall deliver the electric power to the Power Purchaser at the outgoing Bus Bar of its generation facility/Thermal Power Plant. The Licensee shall be responsible for the up-gradation (step up) of generation voltage up to the required dispersal voltage level.

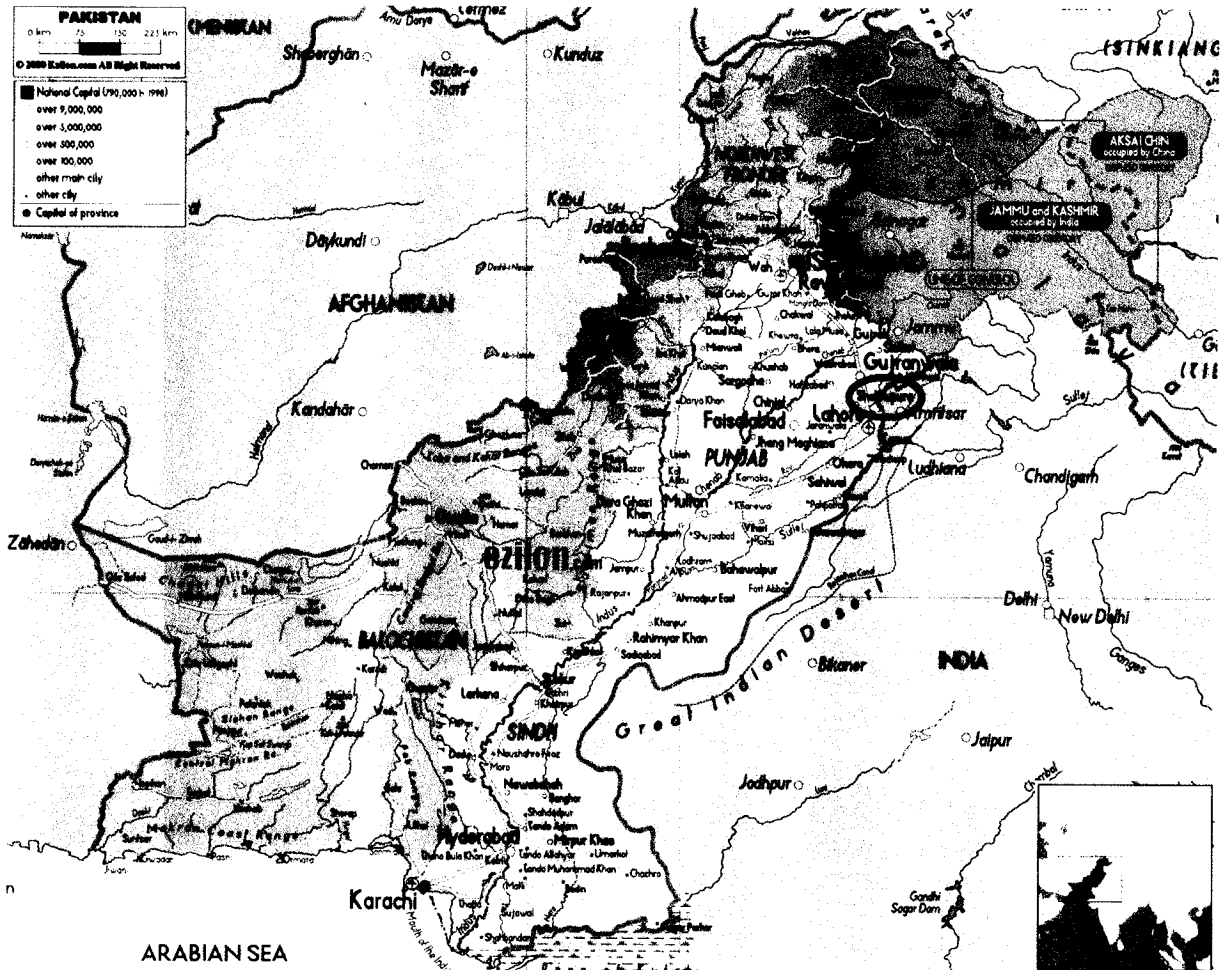


Revised/Modified
SCHEDULE-I

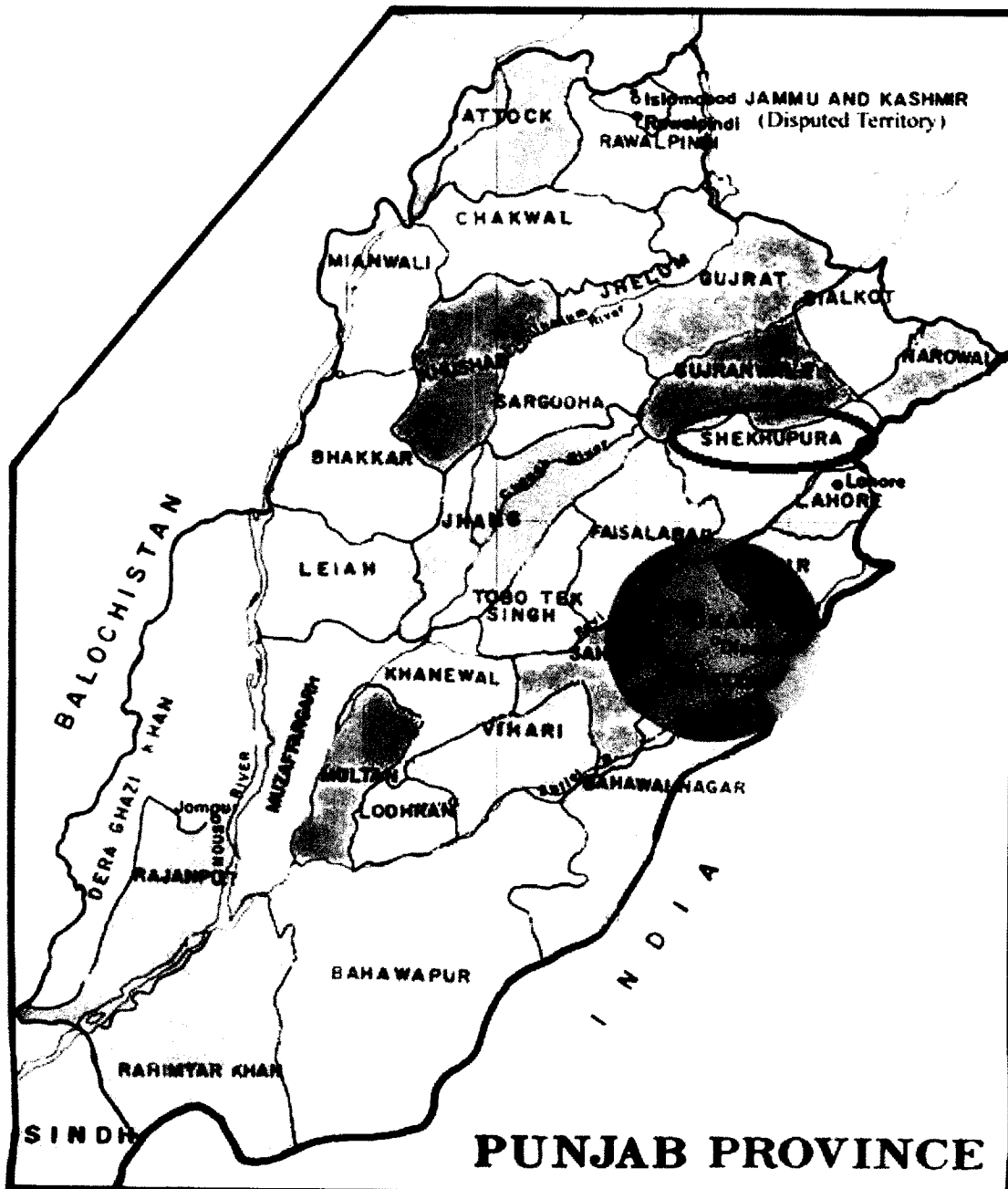
The Location, Size (i.e. Capacity in MW), Type of Technology, Interconnection Arrangements, Technical Limits, Technical/Functional Specifications and other details specific to the Generation Facilities of the Licensee are described in this Schedule.

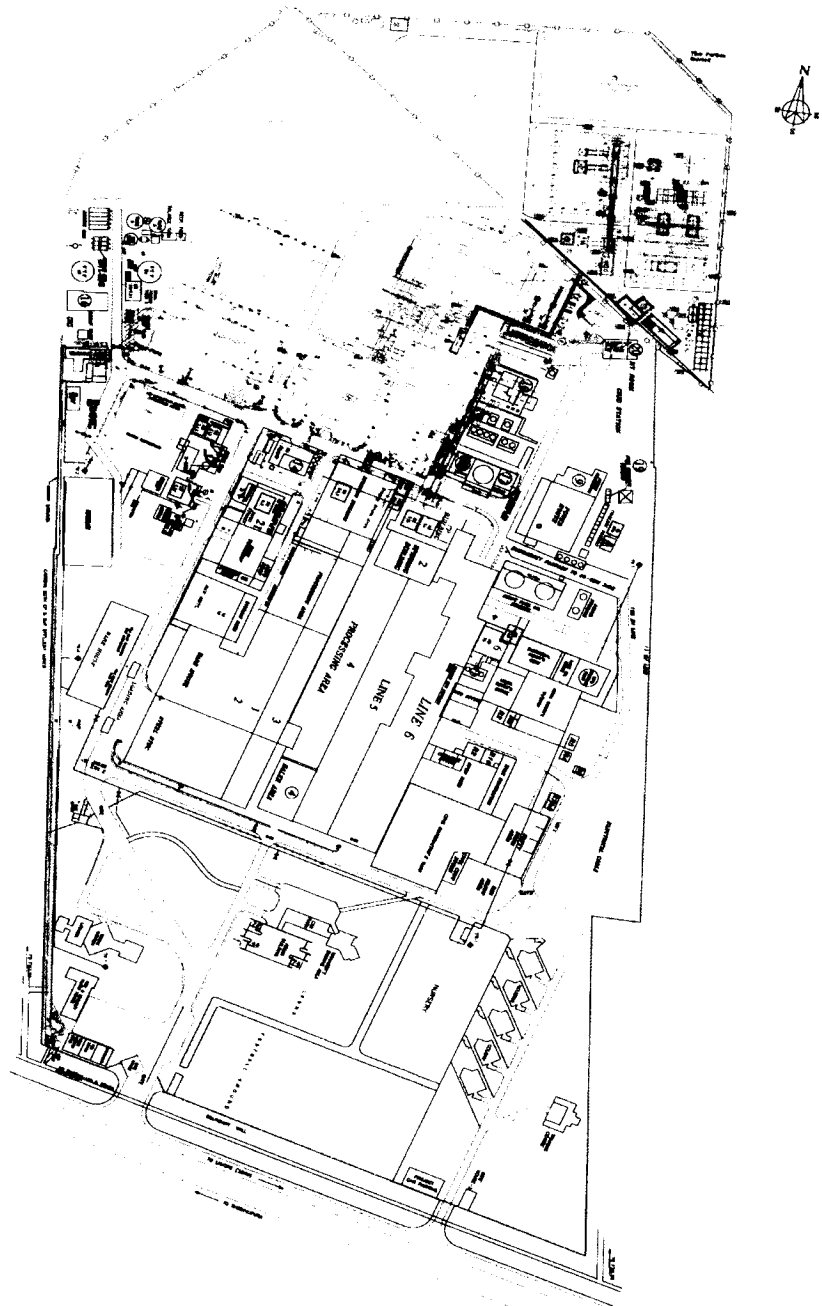
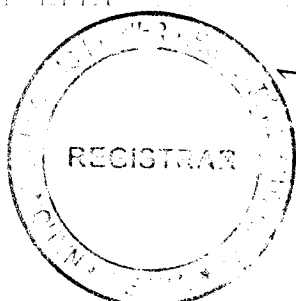


Location of the of the Generation Facility/Thermal Power Plant of the Licensee on Map of Pakistan

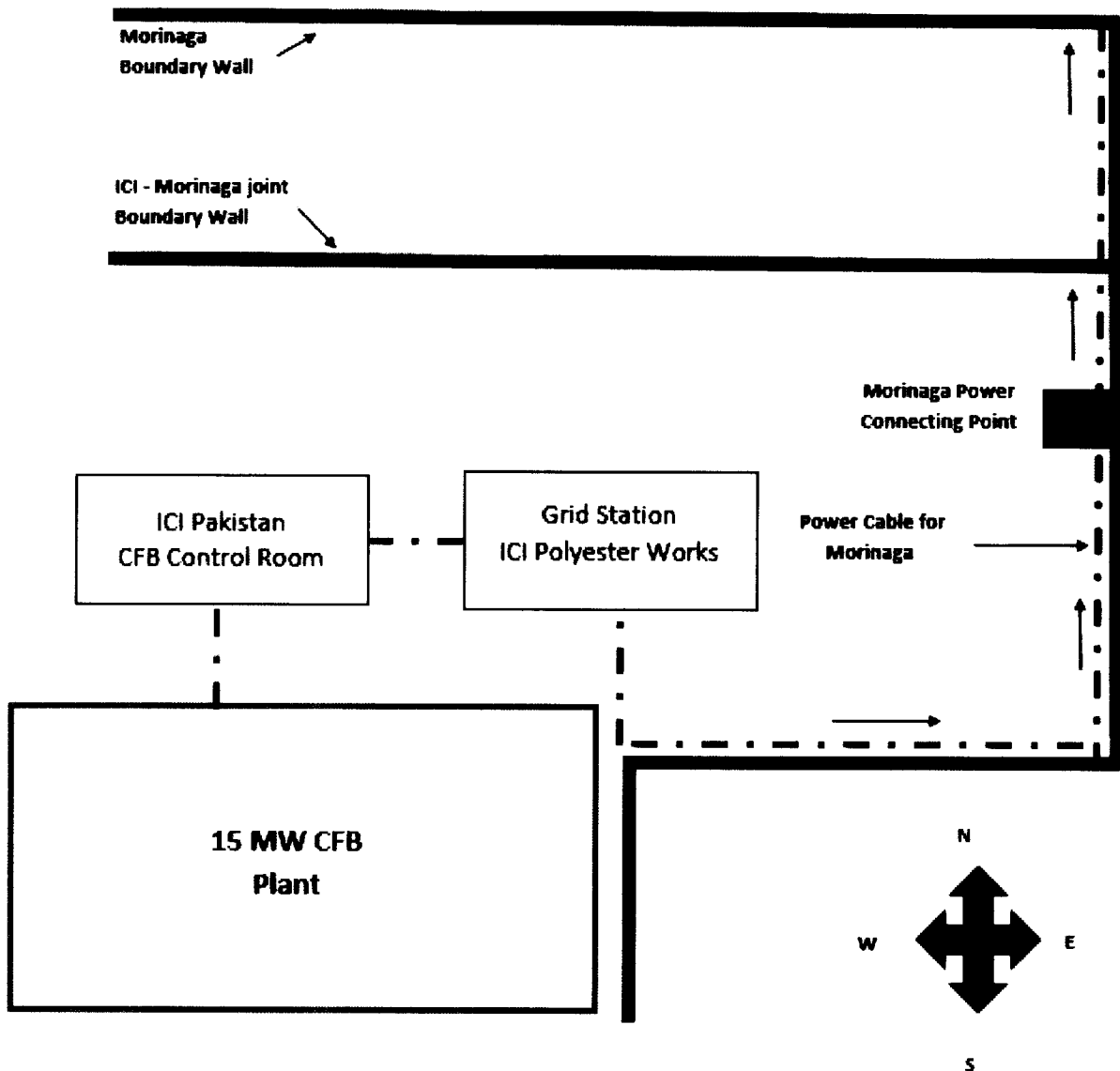


Location of the
Generation Facility/Thermal Power Plant
of the Licensee on Map of the Province of Punjab

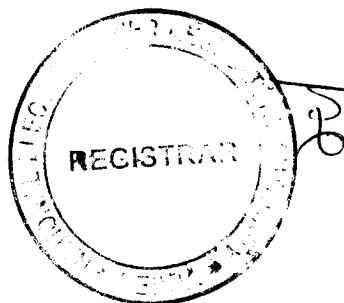


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Schematic Diagram
For Supply to Bulk Power Consumer from
Generation Facility/Thermal Power Plant of the Licensee



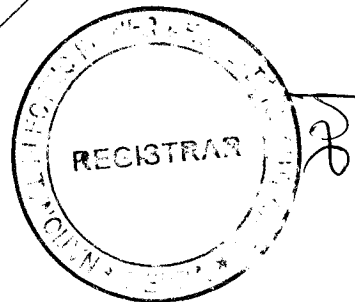
Length of cable = 300 METER



**Interconnection Arrangement/Transmission Facilities
for Dispersal of Power From the Generation Facility/Thermal
Power Plant of the Licensee**

The electric power generated from the generation facility/Thermal Power Plant of Licensee will be supplied to the designated Bulk Power Consumer-BPC* only.

(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.



* The details of the pertaining to BPCs, supply arrangement and other relating information is provided in the subsequent description of this Schedule-I.

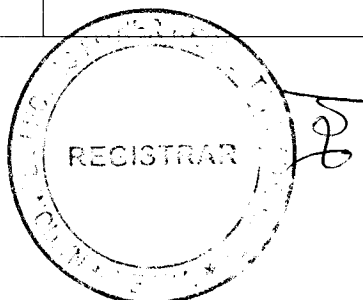
Detail of
Generation Facility/Thermal Power Plant
of the Licensee

(A). General Information

| | | |
|--------|---|---|
| (i). | Name of Licensee/Company | ICI Pakistan Limited |
| (ii). | Registered Office of the Company/Licensee | 5-West Wharf Road, Karachi |
| (iii). | Business Office of the Company/Licensee | 63-Mozang, Lahore |
| (iv). | Location of the generation facility | 30-KM Lahore-Sheikhupura Road, Sheikhupura, in the Province of Punjab |
| (v). | Type of the generation facility | Thermal Power Plant |

(B). Plant Configuration

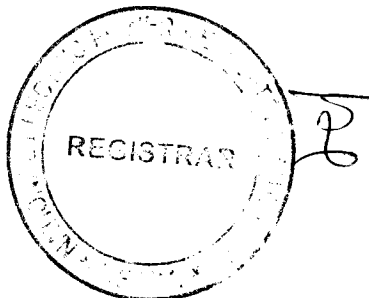
| | | | |
|--------|--|---|--|
| (i). | Size/Installed Capacity of the generation facility | 15.0 MW | |
| (ii). | Type of Technology | Circulating Fluidized Bed, Single Steam Drum water Tube Boilers (53 bar) & Extraction cum condensing Steam Turbine. | |
| (iii). | Number of Units/Size (MW) | 1 x 15.0 MW | |
| (iv). | Unit Make/ Model/Type & Year of Manufacture etc. | Boilers | 2 x 50 ton/hr., 53 bar, 485°C Wuxi Huaguang Industrial Boilers Ltd. (Model: XG-50/5.3M Sub.) |
| | | Steam Turbine | HLTC, Hangzhou Chinen Turbine Power Co. Ltd. (Model: C15-4.9/2.4) |
| | | Generator | Hangzhou Hangfa Electrical Equipment Co. Ltd.-Turbo Generator (Model: QF-W15-2) |



| | | |
|--------|---|---------------------|
| (v). | Commercial Operation Date (COD) of the generation facility | June 30, 2015 |
| (vi). | Remaining Expected Useful Life of the generation facility from the date of issuance of generation licence | Fifteen (15) years |
| (vii). | Minimum Expected Useful Life of the generation facility from the date of issuance of this Modification | Thirteen (13) years |

(C). Fuel Details

| | | | |
|--------|---|---|--|
| (i). | Primary Fuel | Imported Coal | |
| (ii). | Startup Fuel | Light Diesel Oil (LDO) | |
| (iii). | Fuel Source (Imported/Indigenous) | Primary Fuel | Startup Fuel |
| | | Coal from South Africa | Indigenous/Imported |
| (iv). | Fuel Supplier | Primary Fuel | Startup Fuel |
| | | Lucky Commodities | Shell Pakistan/Total |
| (v). | Supply Agreement | Required capacities to be supplied via trucks/trains | Required capacities to be supplied via Oil Tankers |
| (vi). | No. of Storage Bunkers/Tanks/Open Yard | One Open Yard Storage at Power Plant with Capacity of 6000 Tons | One Oil Tank |
| (vii). | Storage Capacity of each Bunkers/Tanks/ Open Yard | Stockyard space dry coal shed with Capacity of 1800 Tons | 1 x 18000 Liters |



| | | | |
|---------|------------------------|-------------------|--------------|
| (viii). | Gross Storage Capacity | 7800 Tons approx. | 18000 Liters |
|---------|------------------------|-------------------|--------------|

(D). Emission Values

| | | Primary Fuel | Startup Fuel |
|--------|---------------------------------------|--------------|--------------|
| (i). | SO _x (mg/Nm ³) | <400 | As per NEQ's |
| (ii). | NO _x (mg/Nm ³) | <200 | -do- |
| (iii). | CO ₂ | <20 | -do- |

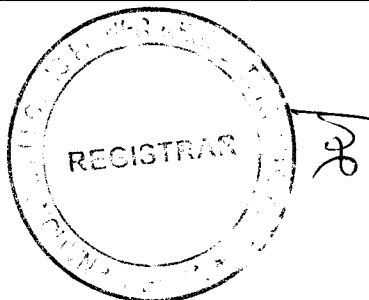
(E). Cooling System

| | | |
|------|----------------------------|--|
| (i). | Cooling Water Source/Cycle | Ground water/Closed Cycle Cooling System |
|------|----------------------------|--|

(F). Plant Characteristics

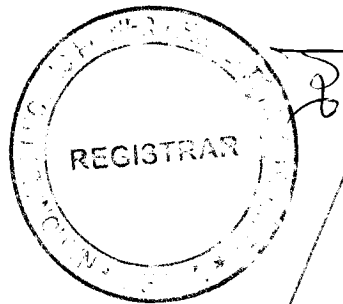
| | | |
|--------|------------------------------------|---------------------------------------|
| (i). | Generation Voltage | 11.0 KV |
| (ii). | Frequency | 50 Hz |
| (iii). | Power Factor | 0.80 lagging /0.9 (leading) |
| (iv). | Automatic Generation Control (AGC) | Yes |
| (v). | Ramping Rate (MW/min) | 10% of full load per minute (approx.) |





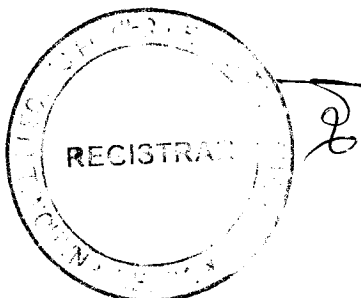


| | | |
|-------|--------------------------------------|-----------------------|
| (vi). | Time required to Synchronize to Grid | Not connected to grid |
|-------|--------------------------------------|-----------------------|

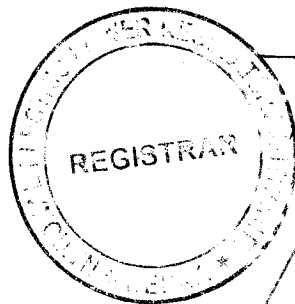


Information Regarding
Bulk Power Consumer(s)/BPCs to be Supplied By the Licensee
[i.e. ICI Pakistan Limited]

| | | |
|--------|--|--|
| (i). | No. of Consumers | One (01) |
| (ii). | Location of consumers (distance and/or identity of premises) | Nutrico Morinaga (Private) Limited (NMPL) |
| | | 30-KM Lahore-Sheikhupura Road, Sheikhupura, in the province of Punjab |
| (iii). | Contracted Capacity and Load Factor for consumer | 5.0 MW |
| | | Variable load factor |
| (iv). | Specify Whether | |
| | (a). | The consumer is an Associate undertaking of the Licensee-If yes, specify percentage ownership of equity; |
| | (b). | There are common directorships: |
| | (c). | Either can exercise influence or control over the other. |
| (v). | Specify nature of contractual Relationship | |
| | (a). | Between each consumer and the Licensee. |
| | (b). | Consumer and LESCO. |



| | | |
|------|--|-----|
| (vi) | Any other network information deemed relevant for disclosure to or consideration of the Authority. | N/A |
|------|--|-----|



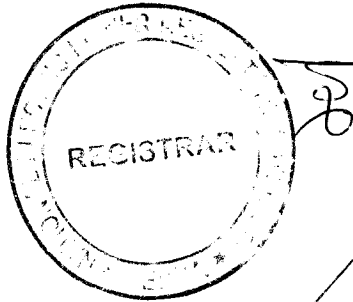
Information Regarding
Distribution Network for Supply of Power to Pulk Power Consumer
By the Licensee [i.e. ICI Pakistan Limited]

| | | |
|--------|--|--|
| (i). | No. of Feeder(s) | One (01) |
| (ii). | Length of Each Feeder (Meter) | 300 meters |
| (iii). | Length of Each Feeder to each Consumer | Same 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. | The 11 KV cable supplying power to Bulk Power Consumer (BPC) are located on private property owned by the respective BPC without crossing of any public or third party's private property etc. |
| (v). | Whether owned by BPCs, Consumer or LESCO-(deal with each Feeder Separately) | |
| | (a). If owned by LESCO, particulars of contractual arrangement | N/A |
| | (b). Operation and maintenance responsibility for each feeder | The Operation and Maintenance is the responsibility of the respective BPC. |
| (vi). | Whether connection with network of LESCO exists (whether active or not)- If yes, provide details of connection arrangements (both technical and contractual) | No |
| (vii). | Any other network information deemed relevant for disclosure to or consideration of the Authority. | N/A |



Revised/Modified
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 are given in this Schedule.

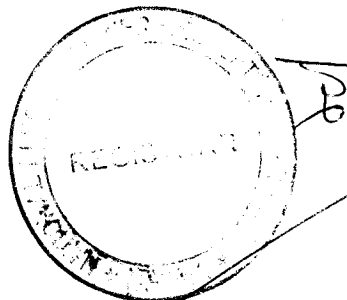


Revised/Modified
SCHEDULE-II

| | | |
|------|---|----------|
| (1). | Total Installed Capacity of the Generation Facility | 15.00 MW |
| (2). | De-rated Capacity of the Generation Facility at Reference Site Conditions | 13.50 MW |
| (3). | Auxiliary Consumption of the Generation Facility | 2.50 MW |
| (4). | Net Capacity of the Generation Facility at Reference Site Conditions | 11.0 MW |

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).



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Authorization
by National Electric Power Regulatory Authority (NEPRA) to
ICI Pakistan Limited


Incorporated Under the Companies Act, VII of 1913
Having Incorporation No. SIND 1014 of 1952-53, dated May 13, 1952
(Now Having Corporate Universal Identification No. 0000535)

NEPRA GENERATION LICENCE No. SGC/122/2017

For
Sale to Bulk Power Consumer(s)

Pursuant to Section-22 of the Act and Rule-7 of the NEPRA Licensing (Generation) Rules-2000, the Authority hereby authorize ICI Pakistan Limited-ICIPL (the Licensee) to engage in second-tier supply business, limited to the following consumers:-


(a). Nutrico Morinaga (Private) Limited;




Rafique Ahmed Shaikh
(Member)



Saif Ullah Chattha
(Member) 1.10.2019



Rehmatullah Baloch
(Member) 21/10/19



01 x 19



