

**NATIONAL ELECTRIC POWER REGULATORY AUTHORITY  
OPEN ACCESS (INTERCONNECTION AND WHEELING OF ELECTRIC POWER)  
REGULATIONS, 2022**

**NOTIFICATION**

Islamabad, the <sup>2<sup>nd</sup></sup> day of Nov, 2022

**S.R.O. 1994**. In exercise of the powers conferred by section 47 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (Act No. XL of 1997) read with all other enabling provisions thereof, the National Electric Power Regulatory Authority is pleased to make the following regulations.—

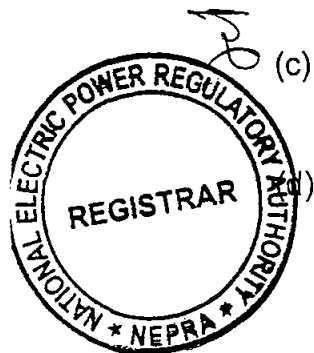
**1. Short title and commencement.**— (1) These regulations shall be called the National Electric Power Regulatory Authority Open Access (Interconnection and Wheeling of Electric Power) Regulations, 2022.

(2) These regulations shall come into force and effect upon lifting or expiration of the moratorium on section 23A and 23B, whichever is earlier, pursuant to sub-section 3 of section 1 of the Act.

**PART I  
GENERAL**

**2. Definitions.**— (1) In these regulations, unless there is anything repugnant in the subject or context,—

- (a) "Act" means the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 (Act No. XL of 1997), as amended from time to time;
- (b) "applicable documents" means the rules, regulations, terms and conditions of any licence, registration, authorization, determination, any codes, manuals, directions, guidelines, orders, notifications, agreement or document issued or approved under the Act;
- (c) "applicant" means any person who submits an application to the concerned network licensee for obtaining open access;
- (d) "Distribution Code" means the code prepared by the distribution licensees and approved by the Authority that defines the technical and operational standards and procedures for distribution licensees and all those connected to the distribution system;
- (e) "distribution system" includes the distribution facilities and electric lines or circuits, meters, interconnection facilities or other facilities operating at the distribution voltage, and shall also include any other electric lines, circuits,

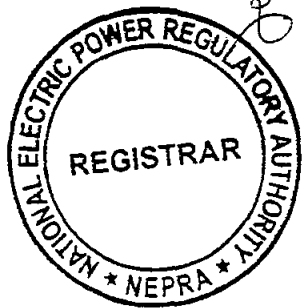


transformers, sub-stations, interconnection facilities or other facilities determined by the Authority as forming part of the distribution system, whether or not operating at the distribution voltage;

- (f) "generation company" means a person engaged in the generation of electric power;
- (g) "generation facility" means the electrical facility used for the production of electric power and includes a generation facility owned by a captive generating plant, generation licensee or a generation company;
- (h) "Grid Code" means the code prepared by the national grid company and approved by the Authority or, when a separate entity is licensed as system operator, prepared by the system operator licensee under sections 23G and 23H of the Act and approved by the Authority;
- (i) "interconnection facilities" means any equipment, including the electrical lines or circuits, transformers, switchgears, safety and protective devices and meters used for interconnection services;
- (j) "Market Commercial Code" or "Commercial Code" means the commercial code prepared and maintained by the market operator pursuant to sections 23A and 23B of the Act and approved by the Authority from time to time;
- (k) "merchant generating plant" means a generation facility that is connected with the national grid without any bilateral contract to sell electric power or provide ancillary services in the electric power market in accordance with the Market Commercial Code;
- (l) "network licensee" means a transmission licensee or a distribution licensee, as the case may be;
- (m) "open access" means the access to a network licensee's system or its associated facilities for movement and delivery of electric power, subject to the terms and conditions as provided in the Act, these regulations and use of system agreement, on non-discriminatory basis to:
  - (i) an electric power supplier for supply of electric power to its consumer(s); or
  - (ii) a captive generating plant for delivery of the electric power from generation facility to the destination of its use; or
  - (iii) any other person, including a licensee for delivery of electric power from a designated place to another designated place;



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- (n) "open access user" means any person who is availing open access under these regulations;
- (o) "system operator" means a person licensed under the Act to administer system operation and dispatch;
- (p) "transmission system" includes the transmission facilities and electric lines or circuits, meters, interconnection facilities or other facilities operating at the transmission voltage but shall not include—
  - (i) electrical circuits forming the immediate connection between generation facilities and the transmission grid to the extent that those circuits are owned by a generation company and are directly associated with that company's generation facilities; and
  - (ii) specified facilities operating at or above the minimum transmission voltage which the Authority, upon an application by a licensee under section 20 of the Act, determines that such facilities shall be owned and operated by a distribution licensee;
- (q) "use of system agreement" means the agreement between an open access user and the concerned distribution licensee covering subjects as specified in Schedule I to these regulations; and
- (r) "use of system charges" shall include all charges related to use of distribution system, use of transmission system, system operator services, market operator services, metering service provider services and any other charges as determined by the Authority that may arise due to advent of the open access and market liberalization.

(2) Words and expressions used but not defined in these regulations shall have the same meanings as assigned to them in the Act and the applicable documents.

## PART II INTERCONNECTION

**3. Interconnection facilities.—** (1) Any applicant whether a generator or a bulk power consumer or captive generating plant may apply to a network licensee for connection to the network licensee's system in accordance with the Distribution Code or Grid Code as the case may be.

(2) The network licensee shall decide any application filed under sub-regulation (1) in accordance with the Distribution Code or Grid Code, as the case may be.

(3) The approval of connection under regulation (2), shall be subject to compliance with the National Electric Power Regulatory Authority Consumer Eligibility Criteria

(Distribution Licensees) Regulations, 2022 and National Electric Power Regulatory Authority Consumer Eligibility Criteria (Electric Power Suppliers) Regulations, 2022 and other applicable documents.

**4. Financing, construction and operation of the interconnection facilities.—**

(1) Where a generation company intends to connect to a network licensee, the concerned network licensee shall be responsible for financing, construction, and operations of the interconnection facilities in accordance with the Grid Code or Distribution Code, as may be applicable, in accordance with its investment plan approved by the Authority.

(2) The network licensee may raise financing for the interconnection facilities from internal resources, local or foreign lenders or any other source including the generation company on mutually agreed terms, and may include such costs in relevant regulatory filings with the Authority. The inclusion of the interconnection facilities in the asset base of the network licensee shall depend on the terms and conditions of such financing or commercial agreements.

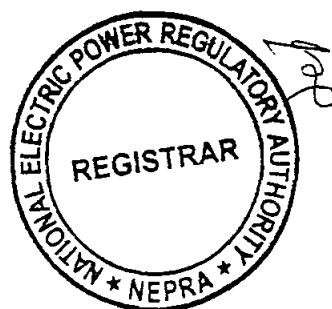
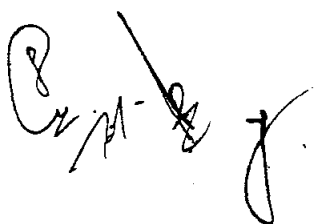
(3) In the event where network licensee shows its inability to construct the interconnection facilities due to technical and/or financial constraints following options may be exercised for the interconnection purposes:

(a) The generation company may arrange the financing required for the construction of interconnection facilities by the network licensee. The network licensee and generation company shall enter into an agreement to mutually decide the terms and conditions for reimbursement of financing to the generation company; or

(b) A special purpose company, may construct, operate and maintain the dedicated network and interconnection facilities for connecting with the national grid after obtaining relevant licence from the Authority.

(4) The interconnection facilities referred to under sub-regulation (3) shall be in accordance with the relevant provisions of the Grid Code, Distribution Code and applicable documents.

(5) Nothing contained in sub-regulation (3) shall absolve the respective network licensee from its obligation to provide interconnection and open access in accordance with the Grid Code, Distribution Code, these regulations and other applicable documents and the mechanisms provided in sub-regulation (3) shall be exercised at the sole option of the generation company.



### PART III OPEN ACCESS

**5. Obligation to provide open access.—** (1) A network licensee shall establish, operate and maintain its distribution system or transmission system, as the case may be, in a manner that ensures non-discriminatory open access in accordance with the Act, these regulations, Market Commercial Code, Grid Code, Distribution Code and other applicable documents.

(2) A network licensee shall, on an annual basis, prepare an open access report demonstrating compliance with these regulations and licence terms and conditions, with the details of its open access users, available and planned capacity, any issues identified in provision of open access, and any instances where open access was denied along with justification therefor. The said report shall also be made available on the website of a network licensee.

(3) The report required under sub-regulation (2) shall be prepared and submitted to the Authority within a period of one month from the date of end of respective financial year and shall also be made available on website of the network licensee.

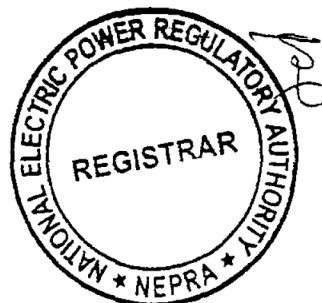
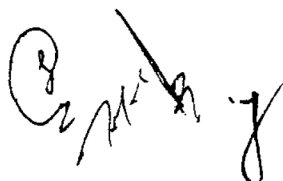
(4) The distribution company shall develop the use of system agreement in accordance with the minimum provisions provided in the Schedule I within ninety days of the notification of these regulations and shall obtain the approval of the Authority and publish the same on its website.

**6. Execution of use of system agreement.—** (1) Any person who has been granted a competitive supplier licence by the Authority or a person who has submitted an application to the Authority in this respect may approach the relevant distribution licensee in whose service territory the competitive supplier intends to supply electric power to the eligible bulk power consumers, for execution of use of system agreement as approved by the Authority:

Provided that where the bulk power consumer is connected directly to the transmission system of a transmission licensee, the use of system agreement shall be executed with the relevant distribution licensee in whose territory the bulk power consumer is located.

(2) Such request for execution of use of system agreement shall be accompanied by the following documents and information:

- (a) identification of the bulk power consumers, if applicable;
- (b) proposed commencement date of electric power supply to the bulk power consumers; and
- (c) any other necessary details as may be required by the distribution licensee.



(3) The distribution licensee shall acknowledge the receipt of the request within three days of the receipt thereof:

Provided that any request which is incomplete or not accompanied by the required information, shall be returned within three days of the filing thereof, identifying in writing the deficiencies, and allow a reasonable time to re-submit the request.

(4) The request, if found satisfactory, shall be accepted by the concerned distribution licensee within ten days of acknowledgement of receipt thereof.

(5) After acceptance of the request, the concerned distribution licensee and the competitive supplier shall execute the use of system agreement for collection and payment thereof within thirty days of such acceptance:

Provided that the use of system agreement shall be signed only when the competitive supplier has been granted an electric power supply licence by the Authority.

Provided further that the competitive supplier shall provide a security cover in terms of irrevocable standby letter of credit in favour of the concerned network licensee covering two months' estimated payment of use of system charges and charges on account of late payment thereof.

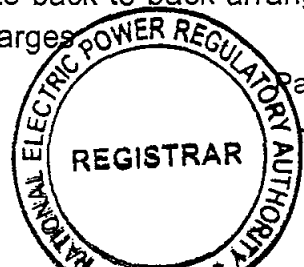
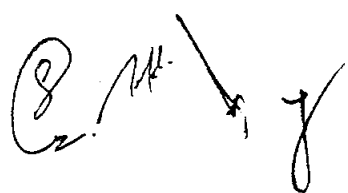
(6) The above stipulated provisions shall be *mutatis mutandis* applicable, where the captive generating plant is connected with the network licensee's system and availing open access.

**7. Filing of petition and determination of use of system charges.—** Within ninety days following the date of notification of these regulations, each distribution licensee, in consultation with the respective supplier of last resort, shall prepare and submit a separate petition to the Authority for determination of its use of system charges. Such petition shall be accompanied with a statement which will set out the basis upon which the use of system charges shall be calculated in such manner and with such details as shall be necessary.

**8. Wheeling of electric power.—** An open access user shall be entitled to wheel electric power using the system of network licensee subject to compliance with these regulations and the Market Commercial Code, upon coming into effect, and use of system agreement.

**9. Collection and disbursement of use of system charges.—** (1) An open access user shall pay use of system charges, as determined by the Authority from time to time, to the designated accounts as may be determined by the Authority.

(2) The distribution licensees, shall have appropriate back-to-back arrangements in place in order to disburse collected use of system charges



**10. Complaint and dispute resolution.—** (1) The network licensees shall make available a complaint-handling mechanism that provides open access users with expeditious, fair, transparent, inexpensive, accessible, speedy and effective dispute resolution without unnecessary cost or burden.

(2) Any dispute relating to open access shall be dealt with in accordance with the mechanism provided in the use of system agreement, Grid Code or Distribution Code, as the case may be.

(3) In the event the parties to a dispute are not able to resolve their dispute as per the procedure provided in sub-regulation (2), the matter shall be referred to the Authority.

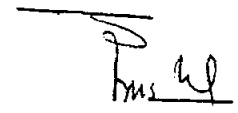
(4) The Authority shall give its decision in any matter referred to it under sub-regulations (3), within a period of three months after providing an opportunity of hearing to the concerned parties.

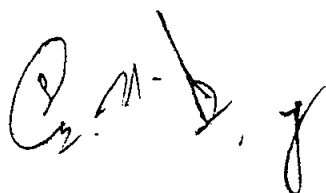
**11. Repeal and savings.—** (1) Upon the effectiveness of these regulations, the following regulations shall stand repealed.—

- (a) National Electric Power Regulatory Authority (Wheeling of Electric Power) Regulations, 2016;
- (b) National Electric Power Regulatory Authority (Interconnection for Renewable Generation Facilities) Regulations, 2015; and
- (c) National Electric Power Regulatory Authority (Sale of Electric Power by Renewable Energy Companies) Guidelines, 2015.

(2) Any wheeling agreement executed under National Electric Power Regulatory Authority (Wheeling of Electric Power) Regulations, 2016 prior to notification of these regulations shall be brought in conformity with these regulations prior to the date of effectiveness of these regulations.



  
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(Syed Safeer Hussain)  
Registrar



**SCHEDULE-I**  
**"Use of System Agreement"**  
See regulation 2 (1) (p)

A use of system agreement shall *inter alia* provide for the following:

- (a) Detailed description/profile of parties along with addresses and authorised representatives;
- (b) Effective date and term;
- (c) Provisions on applicability (compliance with) and hierarchy of applicable documents;
- (d) Provision(s) establishing that open access charges will be in accordance with NEPRA tariff determinations;
- (e) Invoicing and payments of open access charges;
- (f) Arrangement in case of failure to provide open access;
- (g) Dispute resolution mechanisms;
- (h) Security cover in terms of cash or irrevocable standby letter of credit;
- (i) Provisions ensuring compliance of these regulations, the Grid Code, the Distribution Code as applicable;
- (j) Notice of Force Majeure Events;
- (k) Representations and Warranties;
- (l) Termination notice;
- (m) Conditions for Assignment of open access rights;
- (n) Provisions related to posting of notices and service address; and
- (o) Procedure of making amendments to the agreement.

