



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U74110BR2012SGC018889
[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, VidyutBhawan, Bailey Road, Patna – 800021,

Letter No. 614...../
CE(SO/Imp. Of Intra-State DSM/42/2024

Dated 13-10-2026...../

From,

Amita Nand
Chief Engineer (SLDC)

To,

As per the Distribution list

Sub: Regarding **final Detailed Energy Accounting procedure** framed in accordance with clauses 11(i) & 15 (vi) of Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025.

Ref: 1) BERC order dated 29.09.2026.
2) BERC order dated 22.09.2026.
3) Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 notified on Bihar Gazette on dated 12.02.26.

Sir,

With reference to the above, it is hereby stated that, in compliance with the directions of the Hon'ble Commission vide order dated 29.09.2026, the necessary modifications have been incorporated in Clauses 5(I)(c), 9(e), 9(f), and 11(f) of the Detailed Energy Accounting Procedure.

Accordingly, SLDC hereby issues the final Detailed Energy Accounting Procedure, as approved by the Hon'ble Commission vide order dated 29.09.2026, framed in accordance with Clauses 11(i) and 15(vi) of the Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025.

The approved Detailed Energy Accounting Procedure is enclosed herewith for necessary action. The same has been uploaded on the official website of SLDC (<https://sldc.bsptcl.co.in/>) under the "SLDC Procedure", in compliance with the aforesaid order of the Hon'ble Commission dated 29.09.2026.

Encl: as above

Yours faithfully

A. Na.
13/10/2026

(Amita Nand)
Chief Engineer (SLDC)

Pr.

Distribution List

S.No.	Stakeholder's Details	S.No.	Stakeholder's Details
1	Chief Engineer (Commercial) SBPDCL, Patna cecom.sbpdc122@gmail.com	2	Chief Engineer (Commercial) NBPDCL, Patna cecom2.nbpdc1@gmail.com
3	Chief Engineer (PMC) BSPHCL, Patna pmc1.bsphcl@gmail.com	4	Chief Engineer (STU) BSPTCL, Patna stu.dept@bsptcl.bihar.gov.in
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15	ACME (Magadh Solar Power Pvt. Ltd.) yogesh@acme.in Sr. Manager, Plot No. 152, Sector- 44, Gurgaon, Haryana-122002	16	ACME (Nalanda Solar Power Pvt. Ltd.) yogesh@acme.in Sr. Manager, Plot No. 152, Sector- 44, Gurgaon, Haryana-122002
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19	Bharat Sugar Mill (Goplaganj) eramitkumarsingh@gmail.com ranafana@gmail.com Magadh Sugar & Energy Ltd. Unit- Bharat Sugar Mill, Vill-Sidhwalia, Gopalganj – 841423	20	Hasanpur Sugar Mill (Dalsinghsarai) hasanpur@birla-sugar.com hsm.ursingh@birla-sugar.com GM, Magadh Sugar & Energy Ltd. Unit - Hasanpur Sugar Mill, Dalsinghsarai
21	Sunmark Energy Project Ltd. (Sherghati) nimesh.malvi@hpppl.in rahul.prasad@hpppl.in Devika Tower, 16-A , 6th Floor, Nehru Place, New Delhi-110019	22	Riga Sugar Mill (Sitamarhi) technical.rigasugar@gmail.com P.O. Riga, Dhanukagram, Sitamarhi - 843324, Bihar
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25	Alfa Infracorp Pvt. Ltd. (Rafiganj) sdshah34@gmail.com naresh.kanuri@alfainfracorp.com shripati.nanda@alfainfracorp.com 401, Eagle Flight Building , Andheri Kurla Road, East Mumbai, 400093, ph.no-8369999108	26	Siddhashra Rice Mill (Buxar) srmcpl.mishra9@gmail.com Rambagh, the lane side of Makhan Bhog, Buxar- 802101
27	New Swadeshi Sugar Mill(Ramnagar) narkatiaganj@birla-sugar.com ravi303singh@gmail.com Narkatiaganj, West Champaran, Ramnagar Ph. No.-7643950735	28	Sri Mukesh P. Kumar UltraTech Cement Ltd., Patliputra Cement Works, PO: Shahjanpur (Near Daniyawan), Fatuha (Patna), Bihar- 801305, mukesh.p.kumar@adityabirla.com
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31	Bihar Distillers & Bottlers Pvt. Ltd. (Ara) rajeshkumar975975@gmail.com SCO-140-141, Sector- 34A Chandigarh- 160022	32	Sri R. P. Singh, Dalmia Cement (Bharat) Ltd. PO- Banjari, Dist.- Rohtas, Bihar – 821303, singh.ravi2@dalmiacement.com singh.ravi5@dalmiacement.com
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BIHAR ELECTRICITY REGULATORY COMMISSION
Vidyut Bhawan-II, Nehru Path, Patna 800 021

In the matter of:

Approval of the Detailed Energy Accounting Procedure for Deviation Settlement Mechanism and Related Matters framed by the State Load Despatch Centre (SLDC) under Clauses 11(i) and 15(vi) of the Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025.

Order

Dated-29.9.2026

Background

1. The Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 were notified on 12.02.2026. Clauses 11(i) and 15(vi) thereof cast a duty on SLDC to frame a detailed procedure for energy accounting and commercial settlement of deviation charges, and to place it in the public domain for stakeholder comments prior to seeking the Commission's approval.
2. In compliance with the above, SLDC circulated the Draft Energy Accounting Procedure to stakeholders vide Letter No. 132 dated 10.03.2026, inviting comments/suggestions/objections by 17.03.2026.
3. Upon completion of the stakeholder consultation process, SLDC submitted the said Draft Energy Accounting Procedure to the Commission for approval, as required under Clauses 11(i) and 15(vi) of the Regulations
4. The Commission has examined the Draft Energy Accounting Procedure submitted by SLDC and finds that it in conformity with the Regulations.
5. **In view of the above, the Commission hereby approves the Draft Energy Accounting Procedure submitted by SLDC, subject to the following modifications:**
 - i. Regulation 3(I)(z) of the Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 defines a 'Partial Open Access Consumer', whereas Regulation 3(I)(h), which defines 'Buyer' as a person, including a distribution licensee, deemed distribution licensee, or an InSTS-connected Full Open Access Consumer, does not bring a Partial Open Access

Consumer within the category of 'Buyer'. This issue already stands deliberated upon by the Commission at para 4 of its Order dated 22.09.2026 on the clarifications sought by SLDC vide Letter No. 273 dated 20.05.2026,

Consistent with the above, para 5(I)(c) of the Energy Accounting Procedure is accordingly substituted as under:

(1) Data required for the billing of Partial Open Access Consumers shall be provided to billing centre of concerned Distribution Licensee by the SLDC. The billing centre of the Distribution Licensee shall be responsible for raising and settlement of bills with Partial Open Access Consumers.

(2) The Energy Accounting for Partial Open Access Consumers connected to the In-STS, and for all open access consumers connected to the distribution network, shall be prepared in accordance with the Bihar Electricity Regulatory Commission (Terms and Conditions of Intra-State Open Access) Regulations, 2018, and its amendments thereof, and shall not form part of the Deviation Settlement Mechanism under these Regulations."

(3) The partial open access consumers shall declare their drawal schedule in 15 Min time block wise from the DISCOM (as a consumer of DISCOM) and through open access separately to the SLDC and DISCOM.

ii. The requirement of furnishing a bank guarantee or revolving letter of credit as prescribed under Section 9(e) & 9 (f) of the Procedure for registration of a QCA shall stand substituted by the provisions contained in Regulation 12 (Schedule of Payment of Charges for Deviation) of the Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025, which are reproduced hereinbelow.

a) *"The payment of charges for deviation shall have a high priority and the concerned State entity shall pay the due amounts within 10 (ten) days of the issue of Statement of charges for deviation by the SLDC, failing which late payment surcharge @ 0.04% shall be payable for each day of delay.*

- b) *If, any State entity, at any time during the previous financial year, fails to make payment of charges for deviation within the time specified in these regulations, it shall be required to open a Letter of Credit (LC) equal to 110% of its average payable monthly liability for deviations in the previous year in favour of the State Load Despatch Centre within a month from the start of the current financial year.*
 - c) *In case of failure to pay into the State Deviation Pool Account within 10 (ten) days from the date of issue of Statement of charges for deviation, the State Load Despatch Centre shall be entitled to encash the LC of the concerned State entity to the extent of the default and the concerned State entity shall recoup the LC amount within 3 days.*
- iii. Clause 11(f) of the Procedure is modified to specify a definite timeline. SLDC shall submit the Annual Surplus Utilisation Scheme to the Commission by 15th June of each year, in respect of the surplus, if any, remaining in the State Deviation Pool Account for the preceding Financial Year.
6. Commission approves the above accounting procedure subject to above modifications. SLDC shall carry out the above modifications and issue the final procedure within fourteen (14) days of this Order, and upload the same on the SLDC website. The procedure, as modified, shall come into force from the date of such publication and shall apply to all State Entities and QCAs accordingly.
7. **With the above modifications, the matter stands disposed of.**

Sd/-
(Manoj Kumar)
Member

Sd/-
(Amir Subhani)
Chairman



BIHAR ELECTRICITY REGULATORY COMMISSION
Vidyut Bhawan-II, Nehru Path, Patna 800 021

In the matter of:

Clarification on issues raised by SLDC along with Submission of Detailed Accounting Procedure under Clauses 11(i) and 15(vi) of the BERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2025

Order

Dated- 22.9.2026

Background

1. The Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 were notified on 12.02.2026. Clauses 11(i) and 15(vi) thereof cast a duty on SLDC to frame a detailed procedure for energy accounting and commercial settlement of deviation charges, and to place it in the public domain for stakeholder comments prior to seeking the Commission's approval.
2. In compliance with the above, SLDC circulated the Draft Energy Accounting Procedure for Deviation Settlement Mechanism and Related Matters (January 2026) to stakeholders vide Letter No. 132 dated 10.03.2026, inviting comments/suggestions/objections by 17.03.2026.
3. Upon completion of the stakeholder consultation process, SLDC submitted the said Draft Energy Accounting Procedure to the Commission for approval, as required under Clauses 11(i) and 15(vi) of the Regulations and sought clarifications on following points.
4. **The Commission in exercise of Regulation 19, Power to Remove Difficulty and Regulation 20, Interpretation of Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 after examining the points raised by State Load Despatch Centre (SLDC) vide letter no. 273 dated 20.05.2026, issues following clarifications:**

A. Categorisation of Bagasse/Biomass based Sugar Mills for DSM Computation.

SLDC's submission on this specific aspect is reproduced below:

"HPCL Biofuel vide email dated 20.03.2026 has asked to clarify that sugar plants shall be considered in which category to calculated DSM. Also, HPCL Biofuels vide letter no. 125 dated 15.04.2026 has requested to mention sugar mill (Bagasse based) under renewable category.

It is not clear from the instant BERC (DSM & Related matters) Regulations, 2025 that bagasse, biomass based renewable energy plants shall be considered in which category. However, as per BERC (Intra-state ABT and DSM) Regulations, 2020 notified on gazette on dated 02.06.2020, these were considered in renewable energy category along with municipal solid waste based generating stations. Hence, it may be considered under MSW seller category along with municipal solid waste based generating stations.”

Commission analysis:

Commission acceding to the proposal of SLDC clarifies that the charges for Deviation as stipulated in Regulation 9 (C) of BERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 shall be applicable to bagasse, biomass based renewable energy plant.

B. Treatment of Partial Open Access Consumers

SLDC’s submission on this specific aspect is reproduced below:

“Bihar Shree Cement vide letter dated 17.04.2026 has mentioned that in definition of buyer of the instant regulation, it is written that buyer means InSTS connected full open access consumers. It is further stated by Bihar Shree Cement that as per this definition Bihar cement plant and New Bihar cement plant do not fall under the category of buyer as these are partial open access consumer. Therefore, it is requested to kindly provide clarification on this matter and kindly include partial open access consumer also in definition of buyer for more clarity.”

Commission’s Analysis:

Buyers definition Regulation 3,(I)(h) is reproduced here under:

“ ‘Buyer’ means a person, including a distribution licensee, deemed distribution licensees or InSTS connected full open access consumer purchasing electricity through a transaction schedule in accordance with the Bihar Electricity Grid Code (BEGC) or IEGC.”

From the aforesaid definition of 'Buyer', it is amply evident that a Partial Open Access Consumer does not fall within the category of 'Buyer'.

However, if SLDC is of the view that Partial Open Access Consumers ought to be included within the definition of 'Buyer', it may file a separate petition, if they desire so, before the Commission seeking amendment of the said Regulations.

C. Clarification regarding NTPC, Barauni suggestion

SLDC’s submission on this specific aspect is reproduced below:

“NTPC Barauni vide email dated 19.04.2026 has suggested to include payment to the seller for over injection and payment to the buyer for under drawal also in clause 11(d) of the draft detailed energy accounting procedure (taken from clause 10(e) of BERC (DSM & Related matters), regulations, 2025) in line with CERC (DSM & Related matters), Regulations, 2024. Therefore, it is requested to kindly consider the same for more clarity and transparency.”

Commission’s Analysis:

In consideration of the submission of SLDC, Commission clarifies that State Deviation Pool Account under 10 (e) of BERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2025, shall be charged for payment to the Seller for over injection and payment to the Buyer for under drawal as may be applicable.

However, if SLDC is of the view that this should be in line with CERC (DSM & Related matters), Regulations, 2024, it may file a separate petition, if they desire so, before the Commission seeking amendment of the said Regulations.

5. **With the above clarifications, the matter stands disposed of.**

**Sd/-
(Manoj Kumar)
Member**

**Sd/-
(P.S. Yadav)
Member**

**Sd/-
(Amir Subhani)
Chairman**



BIHAR STATE POWER TRANSMISSION COMPANY LIMITED
BIHAR STATE LOAD DESPATCH CENTRE (SLDC)

A

Detailed Energy Accounting Procedure for
“Deviation Settlement Mechanism and Related Matters”

October 2026

Prepared in compliance with

BERC (Deviation Settlement Mechanism and Related Matters)
Regulations 2025

[Handwritten signatures and initials]

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A. In the A & A (2) 1. A.V-1

1. Introduction

This detailed procedure is framed in accordance with clause 11(i) & 15 (vi) of Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025 notified on Bihar Gazette on dated 12.02.26. All State Entities shall abide by the provisions of the Regulations and its detailed procedure. In case of any inconsistency in the provisions of this procedure with the Act/Rules/Regulations framed under the Act, the provisions of the Act/Rules/Regulations shall prevail.

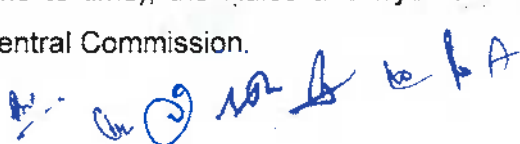
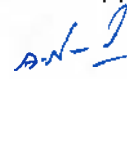
2. Definitions and Interpretation

(I) In these regulations, unless the context otherwise requires:

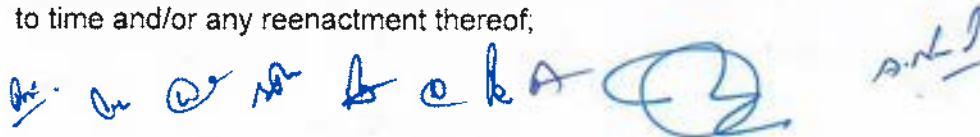
- (a) **'Act'** means the Electricity Act, 2003 (36 of 2003);
- (b) **'Actual drawal'** in a time block means the electricity drawn by a buyer, measured by the interface meters;
- (c) **'Actual injection'** in a time block means the electricity injected by the seller, measured by the interface meters;
- (d) **'Ancillary Services'** means the Ancillary Services as defined in the Ancillary Services Regulations by CERC.
- (e) **'Ancillary Services Regulations'** means the Central Electricity Regulatory Commission (Ancillary Services) Regulations, 2022 as amended from time to time and shall include any re-enactment thereof;
- (f) **'Area Clearing Price'** or **'ACP'** means the price of electricity contract for a time-block transacted on a Power Exchanges after considering all valid buy and sale bids in particular area(s) after market-splitting;
- (g) **'Available Capacity'** for generating station based on wind or solar or hybrid of wind- solar resources which are State entities, is the cumulative capacity rating of wind turbines or solar inverters that are capable of generating power in a given time block and shall be limited to the quantum of connectivity granted.

For: In @ na B e k A  *A.N.2*

- (h) **'Buyer'** means a person, including a distribution licensee, deemed distribution licensees or InSTS connected full open access consumer purchasing electricity through a transaction schedule in accordance with the Bihar Electricity Grid Code (BEGC) or IEGC.
- (i) **'Connectivity Regulations'** means the provisions of Grid Code as amended from time to time and Bihar Electricity Regulatory Commission (Terms and Conditions of Intra-State Open Access) Regulation, 2018 as amended from time to time.
- (j) **'Central Commission'** means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act,
- (k) **'Commission'** means the Bihar Electricity Regulatory Commission referred to in sub-section (1) of section 82 of the Act;
- (l) **'Contract rate'** means (i) in respect of a WS seller or a MSW Seller or such other entity as applicable, whose tariff is determined or adopted or approved under Section 62 or Section 63 or Section 86(1)(b) of the Act, in Rs/kWh as determined or adopted or approved by the Commission; or (ii) in respect of a WS seller or a MSW Seller or such other entity as applicable, whose tariff is not determined or adopted or approved under Section 62 or Section 63 or Section 86(1)(b) of the Act, and selling power through power exchange(s), the price as discovered in the Power Exchanges for the respective transaction; or (iii) In respect of a WS seller or a MSW seller or such other entity as applicable, selling power through open access to a third party or in case of captive consumption of a captive generating plant based on renewable energy sources the weighted average ACP of the Integrated-Day Ahead Market segments of all Power Exchanges for the respective time block; (iv) in case of multiple contracts or transactions including captive consumption, the weighted average of the contract rates of all such contracts or transactions, as the case may be;
- (m) **'Day Ahead Market (DAM)'** means a market where physical delivery of electricity occurs on the next day(T+1) of the date of transaction (T) and is governed by the Central Electricity Regulatory Commission (Power Market) Regulations, 2021 (as amended from time to time), the Rules and Bye-Laws of the Power Exchanges as approved by the Central Commission.

- (n) **'Deviation'** in a time block for a seller of electricity means its total actual injection minus its total scheduled generation; and for a buyer of electricity means its total actual drawal minus its total scheduled drawal in that time block
- (o) **'Deviation Rate or Deviation Charge'** shall mean the charges for deviation for applicable time block as stipulated under the Regulation 9 of these Regulations.
- (p) **'Deviation and Ancillary Service Pool Account'-Regional** means the Account to be maintained and operated by the concerned Regional Load Despatch Centre in each region or the National Load Despatch Centre as specified under CERC(Deviation Settlement Mechanism and Related Matters) Regulations, 2024 or IEGC as amended from time to time and shall include any re-enactment thereof;
- (q) **'Full Open Access Consumer'** Shall mean Open Access Consumer connected to a transmission system or distribution system but not having any contract demand with the distribution licensee within the state.
- (r) **'General seller'** means a seller in case of a generating station based on other than wind or solar or hybrid of wind-solar resources;
- (s) **'Grid Code'** means the Bihar Electricity Grid Code as specified by the Commission under clause (h) of sub-section (1) of Section 86 of the Act.
- (t) **'Indian Electricity Grid Code' (or 'IEGC')** ' means the Grid Code specified by the Commission under clause (h) of sub-section (1) of Section 79 of the Act;
- (u) **'Infirm Power'** means electricity injected into the Intra-State Grid prior to the date of commercial operation of a unit of the generating station in accordance with the Grid Code/IEGC.
- (v) **'Integrated Day Ahead Market'** means a market where Day Ahead Contracts are transacted on the power exchanges, including collective transactions under Day Ahead Market (DAM), Green Day Ahead Market (Green DAM), and High Price Day Ahead Market (HPDAM);
- (w) **'Interface meters'** means interface meters as defined under the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, as amended from time to time and/or any reenactment thereof;



- (x) **'MSW seller'** means a seller in the case of a generating station based on Municipal Solid Waste and includes Refuse Derived Fuel (RDF) based MSW generating station;
- (y) **'Normal Rate of Charges for Deviation'** means the charges for deviation (in paise/kWh) as referred to in Regulation 8 of these regulations;
- (z) **'Open Access Regulations'** means the Bihar Electricity Regulatory Commission (Terms and Conditions of Intra-State Open Access) Regulation, 2018 as amended from time to time;
- (aa) **'Partial Open Access Consumer'** shall mean Open Access Consumer connected to transmission system and having part of his contract demand with the distribution licensee within the state;
- (bb) **'Regional Entity'** means a person whose metering and energy accounting are done at the regional level by the Regional Load Despatch Centre;
- (cc) **'Qualified coordinating Agency (QCA)'** means the agency coordinating on behalf of Wind/Solar Generators connected to a pooling station. QCA may be one of the generators or any other mutually agreed agency for the following purposes:-
- Coordinate for schedules with periodic revisions on behalf of all the Wind/Solar Generators connected to the pooling station(s).
 - Responsible for coordination with STU/SLDC for metering, data collection/ transmission, communication.
 - Undertake commercial settlement on behalf of the generators of such charges pertaining to generation deviations only including payments to the Regional/State Deviation Pool Accounts through the SLDC.
 - Undertake de-pooling of payments received on behalf of the generators from the State Deviation Pool Account and settling them with the individual generators.
 - QCA shall be treated as a State Entity and shall be registered with SLDC.
- (dd) **'Reference Charge Rate' or 'RR'** means (i) in respect of a general seller whose tariff is determined or adopted or approved under Section 62 or Section 63 or Section 86(1)(b) of the Act, Rs/ kWh energy charge as determined or adopted or approved by the Appropriate Commission, or (ii) in respect of a general seller whose tariff is not determined or adopted

Mr. On 10.12.2018



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or approved under Section 62 or Section 63 or Section 86(1) (b) of the Act, and selling power through power exchange(s), the price as discovered in the power exchange for the respective transaction; or (iii) in case of captive consumption of a captive generating plant based on resources other than renewable energy sources, the weighted average ACP of the Integrated-Day Ahead Market segments of all the Power Exchanges for the respective time block; or (iv) in case of multiple contracts or transactions including captive consumption, the weighted average of the reference rates of all such contracts or transactions.

- (ee) **'Run-of-River Generating Station' or 'RoR generating station'** means a hydro generating station which does not have upstream pondage;
- (ff) **'Scheduled generation' or 'Scheduled injection'** for a time block or any period means the schedule of generation or injection in MW or MWh ex-bus, including the schedule for Ancillary Services given by the concerned Load Despatch Centre;
- (gg) **'Scheduled drawal'** for a time block or any period means the schedule of drawal in MW or MWh ex-bus, including the schedule for Ancillary Services given by the concerned Load Despatch Centre;
- (hh) **'Seller'** means a person, including a generating station, supplying electricity through a transaction scheduled in accordance with the BERC State Grid Code or IEGC.
- (ii) **'State Load Despatch Centre' (SLDC)** means State Load Despatch Centre (SLDC) of Bihar.
- (jj) **'State Deviation Pool Account'** means the Account to be maintained and operated by the State Load Despatch Centre as per Regulation 10 of these regulations;
- (kk) **'State Entity'** means such person who is in the SLDC control area and whose metering and energy accounting is done at the state level;
- (ll) **'STU'** means the State Transmission Utility notified by the Government of Bihar under Section 39(1) of the Act. BSPTCL has been notified as the STU.
- (mm) **'Time Block'** means the time block as defined in the Grid Code.

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- (nn) **'WS seller'** means a seller in case of a generating station based on wind or solar or hybrid of wind-solar resources and shall include such solar or wind or hybrid generating station, with or without storage.
- (ll). Words and expressions used in this procedure and not defined here in but defined in the Act or any other regulation specified by the BERC shall, unless the context otherwise requires, have the meaning assigned to them under the Act or other regulations specified by the BERC, as the case may be.

3. Applicability

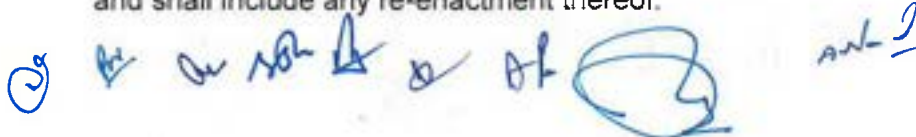
This procedure shall be applicable to all grid connected State Entities including distribution licensee(s), deemed distribution licensee(s) located in the state and open access consumers (partial and full both) connected to intra-state transmission system.

Provided that, these procedure shall be applicable for RE based generating stations connected to intra-state transmission system having exportable capacity of 1 MW or more.

4. Roles and Responsibilities

1. State Entities

- a) The State Entities shall register with SLDC and provide details of all contracts (i.e power purchase agreement, transmission service agreement, connectivity agreement, open access agreement etc.) along with the contract rate, to SLDC that they have entered into for the exchange of energy. Further, if there is any change in the information furnished, then the updated information shall be shared with the SLDC not later than 7 working days of such change.
- b) The State Entities shall operate their equipment and loads in a manner that is consistent with the provisions of the applicable regulations specified by the Indian Electricity Grid Code, 2023 and the State Grid Code, as amended from time to time and shall include any re-enactment thereof.



- c) The State Entities shall enter into Connection Agreement/Open Access Agreement with the State transmission Utility, which shall specify physical and operational requirements for reliable operation and gain physical access and connection to the intra-State transmission system (InSTS) or enter into Connection Agreement/Open Access Agreement with concerned Distribution Licensee for use of distribution system, as the case may be in accordance with the Bihar Electricity Regulatory Commission (Terms and Conditions of Intra-State Open Access) Regulations, 2018 as amended from time to time and shall include any re-enactment thereof and the provisions of the State Grid Code.

II. Qualified Coordinating Agency (QCA)

- a) QCA shall submit one time details to SLDC as per Appendix-I to this Annexure. Further, if there is any change in the information furnished, then the updated information shall be shared with the SLDC not later than 7 working days of such change.
- b) QCA (for generating stations it is representing) shall undertake technical coordination amongst the generators it is representing, connected at a pooling station.
- c) Provide Available Capacity, Day ahead forecast (based on their own forecast or on the forecast done by SLDC) and Schedule as per Appendix-II to this Annexure, through web based energy scheduling module maintained by SLDC.
- d) Provide real time data at turbine/inverter level and generation data at pooling station level as per Appendix-III to this Annexure:
- e) Provide monthly data:
- For wind plants- average wind speed, average power generation for 15-min time block for each turbine
 - For solar plants - average solar irradiation, average power generation at 15-min time block level for all inverters* ≥ 1 MW
- * if a solar plant uses only smaller string inverters, then data may be provided at the plant level
- (iii) Be responsible for metering and data collection, transmission and co-ordination with SLDC, STU and other agencies as per BEGC /IEGC Regulations.



- (iv) Undertake commercial settlement for deviation as per applicable BERC Regulations.
- (v) Submit a copy of the consent to the SLDC wherein it is mentioned that QCA shall undertake all operational and commercial responsibilities on behalf of generating stations as per the BERC Regulations.
- (vi) Use Automatic meter reading technologies for transfer, analysis and processing of interface meter data.
- (vii) Shall furnish the contract rate(s) along with a copy of the contract(s), for the purpose of Deviation charge account preparation, to SLDC.
- (viii) Shall comply the instruction of SLDC/ERLDC in normal operation as well as emergency condition.
- (ix) Shall establish protocol for communication with individual generators to implement the instructions of SLDC effectively.
- (x) Shall maintain records and accounts of the time-block wise Schedules, the Actual generation injected and the deviation, for the polling station and individual generator(s) separately.
- (xi) Shall ensure availability of data telemetry at the turbine/inverter level to the SLDC and shall ensure the correctness of the real-time data and undertake the corrective actions, if required. The suggested data telemetry requirement is enclosed at Appendix-III to this Annexure.
- (xii) Keep SLDC indemnified at all times and shall undertake to indemnify, defend and save the SLDC harmless from any and all damages, losses including commercial losses due to forecasting error, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the transactions undertaken by the Generators.

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III. State Transmission Utility

The State Transmission Utility (STU) shall make necessary arrangements for putting up suitable meters along with Automated Meter Reading (AMR) facility as per the provisions of the metering code under the state grid code, capable of recording energy flows at 15-minute intervals or any other time interval as specified by the Commission, at the points of injection and drawal. The time synchronization of the metering system shall be through the Global Positioning System with counter check from the State Energy Accounting Centre, which is the SLDC.

IV. State Load Despatch Centre (SLDC)

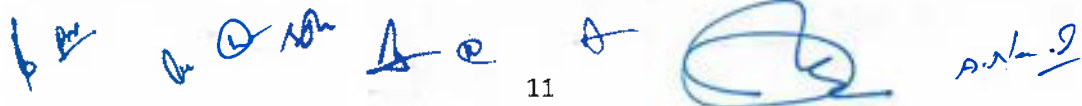
SLDC is responsible to carry out the following activities:

- a) SLDC shall take all decisions regarding the despatch of stations after evaluating all the possible network parameters, constraints, and congestions in the transmission network and in the eventuality of any such network aberration, the instructions by the SLDC relating to despatch and drawal shall be binding on all State Entities.
- b) SLDC shall publish all such information as required for all other State Entities to be aware of the energy exchanges taking place within the pool as well as exigency conditions, if any with regard to despatch of power.

5. Methodology to Calculate Deviation

I. Declaration of Schedule both by Sellers and Buyers

- a) The scheduling period shall comprise of 96-time blocks, each of 15-minute duration starting from 00:00 hrs (IST) ending with 24:00 hrs (IST). The first-time block of scheduling period shall commence from 00:00 hrs (IST) to 00:15 hrs (IST), second time block of scheduling period shall commence from 00:15 hrs (IST) to 00:30 hrs (IST) and soon or other periods as the Commission may stipulate.
- b) All State entities including QCA shall submit their schedules as per Bihar Electricity Grid Code 2010 / IEGC-2023 and its amendments thereof.
- c) (1) Data required for the billing of Partial Open Access Consumers shall be provided to billing centre of concerned Distribution Licensee by the SLDC. The billing centre of the Distribution Licensee shall be responsible for raising and settlement of bills with Partial Open Access Consumers.
(2) The Energy Accounting for Partial Open Access Consumers connected to the In-STU, and for all open access consumers connected to the distribution network, shall be prepared in



accordance with the Bihar Electricity Regulatory Commission (Terms and Conditions of Intra-State Open Access) Regulations, 2018, and its amendments thereof, and **shall not form part of the Deviation Settlement Mechanism under these Regulations.**

(3) The partial open access consumers shall declare their drawal schedule in 15 Min time block wise from the DISCOM (as a consumer of DISCOM) and through open access separately to the SLDC and DISCOM.

- d) In case no schedule or improper schedule or schedule not in line with this procedure is submitted by the sellers or buyers, then SLDC will consider it as zero schedule. The quantum as such drawn from the grid or injected into the grid will be considered as deviation against zero schedule and will be treated under DSM.
- e) This implemented schedule which will be generated at the end of 24:00 hrs of the day after integrating all the revisions will be used in deviation accounting.
- f) SLDC will ensure that the drawal from DISCOM and open access by embedded consumer does not exceed the contract demand.
- g) Full Open Access Customers who have been granted NOC for drawal of power under open access arrangement shall have to declare their schedule daily, as long as the NOC is valid.
- h) The Open Access consumers are not allowed to revise their Discom drawal schedule. However, the open access drawal details shall be incorporated into the schedule as received from the power exchanges after being cleared.
- i) Schedule of Intra-State generators shall be adjusted for SRAS/TRAS transactions during the preparation of DSM account of respective generators.

II. Acquisition of Meter Data & Energy Accounting Procedure

- a.) The State Transmission Utility (STU) shall make necessary arrangements for putting up suitable meters along with Automated Meter Reading (AMR) facility as per the provisions of the metering code under the state grid code, capable of recording energy flows at 15-minute intervals or any other time interval as specified by the Commission, at the points of injection and drawal. The time synchronization of the metering system shall be through the Global Positioning System with counter check from the State Energy Accounting Centre, which is the SLDC.
- b.) By every Tuesday, all state entities shall provide the complete 15-min block wise ABT meter data for deviation calculation for the previous week ending on Sunday midnight to SLDC in case of absence of 100% AMR data.
- c.) Bihar SLDC will use energy meter data in this order of precedence:

First, main meter AMR data; if AMR is not available, use main meter (.cdf) data provided by state entities by Tuesday for Energy Accounting and DSM calculation. If main

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meter data (including .cdf) is not available, use the check meter data. If neither main nor check meter data is available, use the HV side meter (for transformer) or stand by meter data (if available). If none of these are available, use feeder ABT meter derived data, else use GSS energy recorded in logbook on hourly basis to derive the final energy data for missing time blocks for DSM computation.

d.) After receiving the data from state entities, SLDC shall prepare energy accounts of all state entities for the previous week and publish on SLDC website (<https://sldc.bsptcl.co.in>) by ensuing Friday for checking and verification by state entities.

e.) SLDC shall compute time block wise actual net injection and drawal of state entities within their control area based on the ABT meter energy readings:

Provided that the computations done by SLDC shall be open to all state entities for a period of fifteen (15) days for checking and verification.

In case any error or omission is detected by self-analysis or brought to notice by an entity, SLDC shall make a complete check and rectify error within a period of a month from date of such detection.

f.) Deviation accounting for each state entities shall be prepared by SLDC on weekly basis by ensuing Tuesday .

g.) A statement of Charges for deviation levied under these Regulations shall be prepared by the SLDC on monthly basis by every 3rd day of the next month and shall be issued to all constituents by 8th day of the month for the previous month ending at 24:00 hrs of the last day of the month.

III. Computation of Deviation

1) Deviation in a time block for general sellers shall be computed as follows:

Deviation-general seller (D_{GS}) (in MWh) = [(Actual injection in MWh) – (Scheduled generation in MWh)].

Deviation-general seller (D_{GS}) (in %) = $100 \times \frac{[(\text{Actual injection in MWh}) - (\text{Scheduled generation in MWh})]}{[(\text{Scheduled generation in MWh})]}$.

2) Deviation in a time block for WS sellers shall be computed as follows:

Deviation-WS seller (D_{WS}) (in MWh) = [(Actual Injection in MWh) – (Scheduled generation in MWh)]

Deviation-WS seller (D_{WS}) (in %) = $100 \times \frac{[(\text{Actual Injection in MWh}) - (\text{Scheduled generation in MWh})]}{[(\text{Scheduled generation in MWh})]}$

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generation in MWh)] / [(Available Capacity)]

3) Deviation in a time block for buyers shall be computed as follows:

Deviation-buyer (DBUY) (in MWh) = [(Actual drawal in MWh) - (Scheduled drawal in MWh)].

Deviation-buyer (DBUY) (in %) = $100 \times \frac{[(\text{Actual drawal in MWh}) - (\text{Scheduled drawal in MWh})]}{[(\text{Scheduled drawal in MWh})]}$.

6. Normal Rate of Charges for Deviations

1) The Normal Rate (NR) of charges for deviation for a particular time block shall be the highest of (A), (B) or (C), where (A), (B) and (C) are as follows:

a.) the weighted average ACP (in Paise /kWh) of the Integrated-Day Ahead Market segments of all the Power Exchanges;

b.) the weighted average ACP (in Paise /kWh) of the Real Time Market segments of all the Power Exchanges.

c.) the sum of:

i.) $\frac{1}{3}$ [Weighted average ACP (in paise/kWh) of the Integrated-Day Ahead Market segments of all the Power Exchanges];

ii.) $\frac{1}{3}$ [Weighted average ACP (in paise/kWh) of the Real-Time Market segments of all the Power Exchanges]; and

iii.) $\frac{1}{3}$ [Ancillary Service Charge (in paise/kWh) computed based on the total quantum of Ancillary Services (SRAS UP and TRAS UP) deployed and the net charges payable to the Ancillary Service Providers for all the Regions];
Provided further that in case of non-availability of ACP for any time block on a given day, ACP for the corresponding time block of the last available day shall be considered.

d.) The normal rate of charges for deviation shall be rounded off to the nearest two decimal places.

Dr. Anil Kumar Singh  *AN-2*

7. Charges for Deviation

(A) Charges for Deviation, in respect of a general seller (other than an RoR generating station and a generating station based on municipal solid waste) shall be as under:

Deviation by way of over injection (Receivable by the Seller)	Deviation by way of under injection (Payable by the Seller)
(I) For Deviation up to [10% DGS or 100 MW, whichever is less] and f within fband [f =System frequency and fband = $[49.90\text{Hz} \leq f \leq 50.05\text{ Hz}]$	
(i) @ RR when $[49.97\text{ Hz} \leq f \leq 50.03\text{ Hz}]$	(iv) @ RR when $[49.97\text{ Hz} \leq f \leq 50.03\text{ Hz}]$
(ii) When $[50.03\text{ Hz} < f \leq 50.05\text{ Hz}]$, for every increase in f by 0.01 Hz, charges for deviation for such seller shall be reduced by 25% of RR so that charges for deviation become 50% of RR when $f = 50.05\text{Hz}$	(v) When $[50.03\text{ Hz} < f \leq 50.05\text{ Hz}]$, for every increase in f by 0.01 Hz, charges for deviation for such seller shall be reduced by 7.5% of RR so that charges for deviation become 85% of RR when $f = 50.05\text{Hz}$
(iii) When $[49.97\text{ Hz} > f \geq 49.90\text{ Hz}]$, for every decrease in f by 0.01 Hz, charges for deviation for such seller shall be increased by 2.15% of RR so that charges for deviation become 115% of RR when $f = 49.90\text{Hz}$	(vi) When $[49.97\text{ Hz} > f \geq 49.90\text{ Hz}]$, for every decrease in f by 0.01 Hz, charges for deviation for such seller shall be increased by 7.15% of RR so that charges for deviation becomes 150% of RR when $f = 49.90\text{Hz}$
(II) For Deviation up to [10% DGS or 100 MW, whichever is less] and f outside fband	
(i) @ zero when $[50.05\text{ Hz} < f < 50.10\text{ Hz}]$: Provided that such seller shall pay @ 10% of RR when $[f \geq 50.10\text{ Hz}]$	(iii) @ 85 % of RR when $[f > 50.05\text{ Hz}]$
(ii) @ 115 % of RR when $[f < 49.90\text{ Hz}]$	(iv) @ 150 % of RR when $[f < 49.90\text{ Hz}]$

(III) For Deviation beyond [10% DGS or 100 MW, whichever is less] and f within and outside fband

(i) @ zero when ($f < 50.10\text{ Hz}$): Provided that such seller shall pay @ 10% of RR when $[f \geq 50.10\text{ Hz}]$	(ii) @ RR when $[f \geq 50.00\text{ Hz}]$; (iii) @ 150% of RR when $[49.90\text{Hz} \leq f < 50.00\text{ Hz}]$; and (iv) @ 200% of RR when $[f < 49.90\text{ Hz}]$
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Graphical illustration:

Charges for Deviation, in respect of a General Seller

(other than an RoR generating station and a generating station based on municipal solid waste)

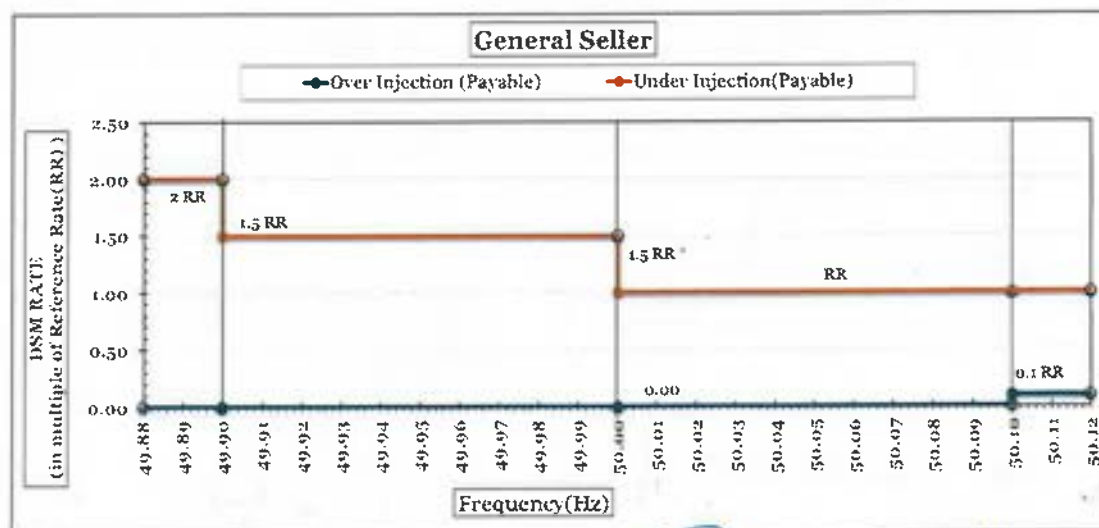
For Deviation up to [10% DGS or 100 MW, whichever is less] and f within f_{band} and outside f_{band}
 $[f = \text{System frequency and } f_{band} = [49.90\text{Hz} \leq f \leq 50.05\text{ Hz}]]$



Charges for Deviation, in respect of a General Seller

(other than an RoR generating station and a generating station based on municipal solid waste)

For Deviation beyond [10% DGS or 100 MW, whichever is less] and f within and outside f_{band}



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(B) Charges for Deviation, in respect of a general seller being an RoR generating station, shall be without any linkage to grid frequency, as under:

Deviation by way of over injection (Receivable by the Seller)	Deviation by way of under injection (Payable by the Seller)
i. @ RR for deviation up to [15% DGS or 150 MW, whichever is less];	iii. @ RR for deviation up to [15% DGS or 150MW, whichever is less];
ii. @ Zero for deviation beyond [15% DGS or 150 MW, whichever is less]	iv. @ 105% of RR for deviation beyond [15% DGS or 150 MW, whichever is less] and up to [20% DGS or 200 MW, whichever is less];
	v. @ 110% of RR for deviation beyond [20% DGS or 200 MW, whichever is less].

C. Charges for Deviation, in respect of a general seller being a generating station based on municipal solid waste, shall be without any linkage to grid frequency, as under:

Deviation by way of over injection (Receivable by the Seller)	Deviation by way of under injection (Payable by the Seller)
i. @ contract rate for deviation up to [20% DGS];	iii. @ contract rate for deviation up to [20% DGS];
ii. @ Zero for deviation beyond [20% DGS];	iv. @ 110% of contract rate for deviation beyond [20% DGS].

D. Charges for Deviation, in respect of a WS Seller, including such generating stations aggregated at a pooling station through QCA shall be without any linkage to grid frequency, as under:

Deviation by way of over injection (Receivable by the Seller)	Deviation by way of under injection (Payable by the Seller)
i. for VLwS (1) @ contract rate;	i. for VLwS (1) @ contract rate;
ii. for VLwS (2) @ 90% of contract rate	ii. for VLwS (2) @ 110% of contract rate;
(iii) beyond VLwS (2) @ Zero;	(iii) beyond VLwS(2) @ 200% of contract rate'

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Note-1: Volume Limits for WS Seller (VLwS):

(i) Volume limits of a WS Seller shall be as under:

WS Seller)	Volume Limit
A generating station based on solar or a hybrid of wind –solar resources	VLwS (1) = Deviation up to 10% DWS VLwS (2) = Deviation beyond 10% DWS and up to 15% DWS
A generating station based on wind resource	VLwS (1) = Deviation up to 15% DWS VLwS (2) = Deviation beyond 15% DWS and up to 20% DWS

Note-2: In case of aggregation of WS sellers at a pooling station through QCA.

- the contract rate for the purpose of deviation shall be equal to the weighted average of the contract rates of all individual WS seller(s) opting for aggregation at the pooling station;
- Available Capacity shall be equal to the cumulative capacity rating of wind turbines or solar inverters that are capable of generating power in a given time block.
- de-pooling of deviation charges for WS seller(s) connected to the pooling station shall be as per the methodology mutually agreed upon between the QCA and such individual WS seller(s).

- Charges for Deviation, in respect of a Standalone Energy Storage System (ESS), shall be the same as applicable to a general seller (other than an RoR generating station and a generating station based on municipal solid waste) as specified in Clause (A) of this Regulation:

Provided that in the charging mode, deviation by way of over drawal shall be treated as under injection and deviation by way of under drawal shall be treated as over injection and the charges for deviation shall be settled accordingly:

Provided further that the charges for deviation including the formula for computation of Deviation, in respect of charging of a standalone ESS being pumped hydro storage plant shall be the same as applicable to a WS seller being a generating station based on solar resources.

- Charges for Deviation including the formula for computation of Deviation, in respect of a WS Seller with ESS connected at the same interconnection point shall be the same (i) as applicable to a WS seller of respective category during the period solar or wind or hybrid generating station is injecting power, (ii) as applicable to a standalone ESS as per sub- clause (E) of this Regulation, when only ESS is injecting power, and (iii) as applicable to a standalone ESS for drawl by ESS based on drawal schedule from the grid as per sub-clause (E) of this Regulation.

Note: Each generator and ESS shall be metered with Special Energy Meter (SEM) so that individual actual injection/drawal can be captured.

- Charges for Deviation, in respect of a Buyer, shall be receivable or payable as under:

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Deviation by way of under drawal (Receivable by the Buyer)	Deviation by way of over drawal (Payable by the Buyer)
(I) For VLB (1) and f within f_{band}	
[VLB= Volume limit for Buyer]	
i) @ 90% of NR when $f = 50.00$ Hz;	iv) @ NR when $f = 50.00$ Hz;
ii) When $50.00 \text{ Hz} < f \leq 50.05 \text{ Hz}$, for every increase in f by 0.01 Hz , charges for deviation for such buyer shall be decreased by 8% of NR so that charges for deviation become 50% of NR when $f = 50.05 \text{ Hz}$;	v) When $50.00 < f \leq 50.05 \text{ Hz}$, for every increase in f by 0.01 Hz , charges for deviation for such buyer shall be decreased by 5% of NR so that charges for deviation become 75% of NR when $f = 50.05 \text{ Hz}$;
iii) When $[50.00 \text{ Hz} > f \geq 49.90 \text{ Hz}]$, for every decrease in f by 0.01 Hz , charges for deviation for such buyer shall be increased by 1% of NR so that charges for deviation become	vi) When $[50.00 \text{ Hz} > f \geq 49.90 \text{ Hz}]$, for every decrease in f by 0.01 Hz , charges for deviation for such buyer shall be increased by 5% of NR so that charges for deviation become 150% of NR
100% of NR when $f = 49.90 \text{ Hz}$;	when $f = 49.90 \text{ Hz}$.
(II) For VLB (1) and f outside f_{band}	
(i) @ zero when $[50.05 \text{ Hz} < f < 50.10 \text{ Hz}]$: Provided that such buyer shall pay @ 10% of NR when $[f \geq 50.10 \text{ Hz}]$;	iii. @ 50% of NR when $[50.05 \text{ Hz} < f < 50.10 \text{ Hz}]$; iv. @ zero when $[f \geq 50.10 \text{ Hz}]$;
(ii) @ NR when $[f < 49.90 \text{ Hz}]$;	(v) @ 150% of NR when $[f < 49.90 \text{ Hz}]$.
(III) For VLB (2) and f within and outside f_{band}	

for Mr. Anand K. S. A

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(i) @ 80% of NR when $f \leq 50.00$ Hz; (ii) @ 50% NR when $[50.00 \text{ Hz} < f \leq 50.05 \text{ Hz}]$; (iii) @ zero when $[50.05 \text{ Hz} < f < 50.10 \text{ Hz}]$: Provided that such buyer shall pay @ 10% of NR when $[f \geq 50.10 \text{ Hz}]$;	iv. @ 150% of NR when $f < 50.00$ Hz; v. @ NR when $[50.00 \text{ Hz} \leq f \leq 50.05 \text{ Hz}]$; vi. @ 75% NR when $[50.05 \text{ Hz} < f < 50.10]$ vii. @ zero when $[f \geq 50.10 \text{ Hz}]$.
(IV) For VLB (3) and f within and outside f_{band}	
(i) @ zero when $f < 50.10$ Hz: Provided such buyer shall pay @ 10% of NR when $[f \geq 50.10 \text{ Hz}]$;	ii. @ 200% of NR when $f < 50.00$ Hz; iii. @ NR when $[50.00 \text{ Hz} \leq f < 50.10 \text{ Hz}]$ (iv) @ 50% of NR when $[f \geq 50.10 \text{ Hz}]$.

Volume Limits for Buyer:

Buyer	Volume Limit
Buyer <u>other than</u> (the buyer with a schedule less than 400 MW).	VLB (1) = Deviation up to [10% DBUY or 100 MW, whichever is less] VLB (2) = Deviation [beyond 10% DBUY or 100 MW, whichever is less] and up to [15% DBUY or 200 MW, whichever is less] VLB (3) = Deviation beyond [15% DBUY or 200 MW, whichever is less]
Buyer (with a schedule up to 400 MW)	VLB (1) = Deviation [20% DBUY or 40 MW, whichever is less]
	VLB (2) = Deviation beyond [20% DBUY or 40 MW, whichever is less]

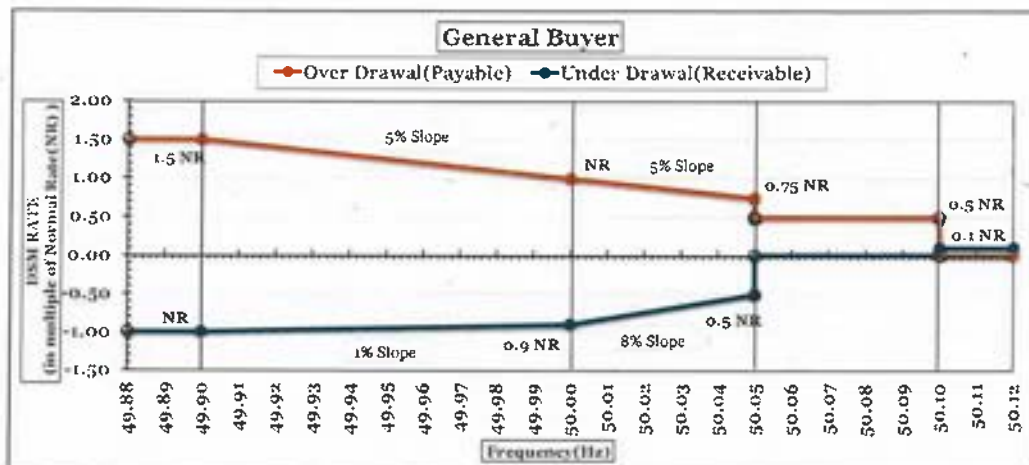
Graphical illustration

(I)&(II) Charges for Deviation, in respect of a Buyer

For VLB (1) and f within & outside fband

VLB (1) = Deviation up to [10% DBUY or 100 MW, whichever is less] for buyer other than (the buyer with a schedule less than 400 MW)

= Deviation [20% DBUY or 40 MW, whichever is less] for buyer (with a schedule up to 400 MW)

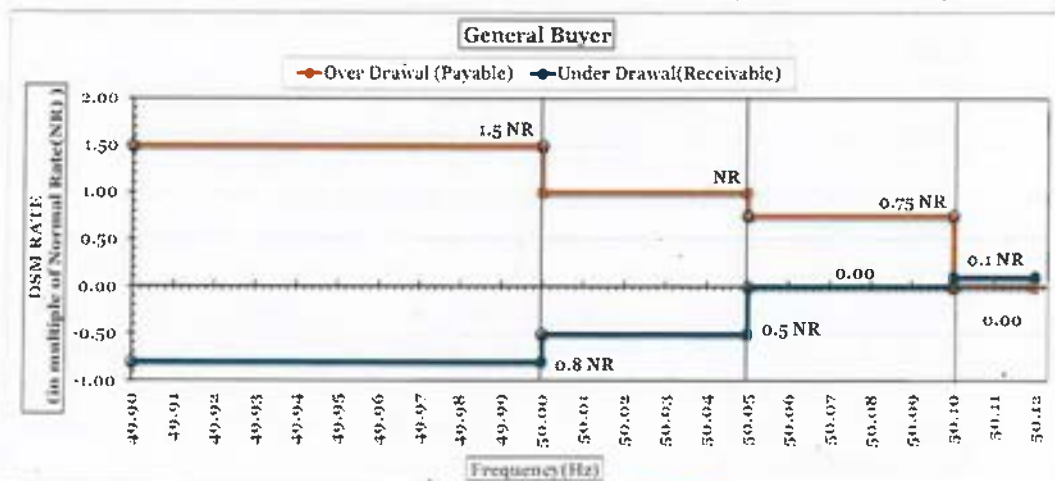


(III) Charges for Deviation, in respect of a Buyer

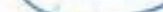
For VLB (2) and f within and outside f_{band}

VLB (2) = Deviation [beyond 10% DBUY or 100 MW, whichever is less] and up to [15% DBUY or 200 MW, whichever is less] for buyer other than (the buyer with a schedule less than 400 MW)

= Deviation beyond [20% DBUY or 40 MW, whichever is less] for buyer (with a schedule up to 400 MW)



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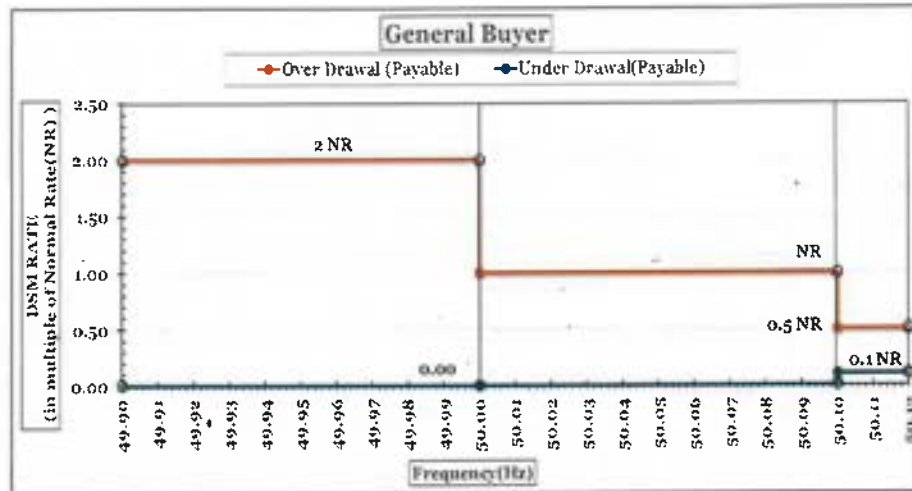


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(IV) Charges for Deviation, in respect of a Buyer

For VLB (3) and f within and outside band

VLB (3) = Deviation beyond [15% DBUY or 200 MW, whichever is less for buyer other than (the buyer with a schedule less than 400 MW)]



H. Charges for injection of infirm power –

1. The charges for injection of infirm power shall be zero, except in cases specified under clauses 9(A) and 9(C) of this Regulation.
2. In case of thermal generating stations, the infirm power injected into the grid from the date of first synchronization of the unit up to the successful completion of the trial run shall be paid @ Normal Rate of Charges for Deviations for each time block, subject to a ceiling of ₹ 2.86/kWh or as amended by Central Commission from time to time.
3. If infirm power is scheduled after a successful trial run as specified in the Grid Code, the charges for deviation over the scheduled infirm power shall be as applicable for a general seller or WS seller, as the case may be.
4. Notwithstanding the provisions of clauses (2) and (3) of this Regulation, when the system frequency, $f > 50.05\text{Hz}$, the charges for injection of infirm power or for deviation of scheduled infirm power after the successful trial run by way of over injection by a general seller or WS seller, as the case may be, shall be zero."
1. Drawal of Start-up Power before COD by a generating unit shall be treated as deviation for the purpose of commercial settlement. The charges for deviation for drawal of start-up power before the COD of a generating unit or for drawal of power to run the auxiliaries during the shut-down of a generating station shall be payable at the reference charge rate or contract rate or in the absence of reference charge rate or contract rate, the weighted average ACP of the Day Ahead Market segments of all Power Exchanges for the respective time block, as the case may be.
- J. Not with standing anything contained in Sub-Regulation (A) to (I) of this Regulation, in case of forced outage or partial outage of a seller, the charges for deviation shall be @

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the reference charge rate for a maximum duration of eight (8) time blocks or until the revision of its schedule, whichever is earlier.

- K. For a Seller whose bids are cleared in the HP-DAM, the 'reference charge rate' for deviation by way of 'under-injection' for the quantum of power sold through HP- DAM shall be equal to the weighted average ACP of the HP-DAM Market segments of all the Power Exchanges for that time block.

8. Qualifying criteria for QCA

- a) The QCA shall have the experience in the field of solar / wind power forecasting and scheduling for a minimum period of 1 year with appropriate accuracy levels in forecasting.
- b) The QCA shall have fully functional forecasting and scheduling tools to obtain desired outputs.
- c) The QCA shall have capability to handle multiple generator(s) connected to a pooling substation in order to be well positioned to de-pool deviation charges.
- d) The QCA shall have experience in working in different terrain and regions as solar or wind generation depends on these factors, and such experience facilitates better scheduling.
- e) The QCA shall have an established team of renewable resource analysts, modelling statisticians, energy models, software developers and 24 X 7 operation and monitoring team.
- f) The QCA shall have appropriate software systems in place for seamless flow of information to and from SLDC to facilitate scheduling, revision of schedule, intimation of outages / grid constraints, curtailment etc in the context of integrated grid operation in an efficient and economic manner.
- g) The QCA shall have capability to provide real time monitoring systems (Supervisory Control and Data Acquisition System) (SCADA) in place for seamless flow of information to and from SLDC.
- h) The QCA shall have established alternate voice and data communication with SLDC using latest communication facilities, both offline and online mode.

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- i) The QCA shall establish protocol including the communication interface for communication with Individual generators to implement the instructions of SLDC.
- j) The QCA shall have a designated and qualified operator available 24 (twenty four) hours a day, every day for contact and communication with the SLDC, in accordance with SLDC instructions and other communication policies and protocols.
- k) The change of QCA would need a notice period of fifteen (15) days in advance and the changeover shall take place with effect from 00:00 hours of a Monday, the first day of weekly settlement cycle.
- l) In case of any payment default by the QCA, the generators shall be liable to pay the DSM charges in proportion to their MW capacity.

9. Registration of QCA

The procedure for registering a QCA is as follows:

- a) The QCA shall submit application accompanied with registration fee of Rs. 5000/- and applicable taxes for each interconnection point.
- b) The QCA shall submit a declaration on the letter head and nonjudicial stamp paper of the value of Rs.100/-.
- c) The QCA shall submit consent letters on their letter heads from the generator(s) on whose behalf it is coordinating and on a non-judicial stamp paper of the value of Rs.100/-.
- d) The QCA shall submit an undertaking on a non-judicial stamp paper of the value of Rs. 100/- from time to time regarding compliance of regulations of BERC and this procedure as amended from time to time.

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- e) & f) These clauses shall stand substituted by the provisions contained in Regulation 12 (Schedule of Payment of Charges for Deviation) of the Bihar Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2025.

These provisions are mentioned in clause 11 (g), 11 (h) & 11 (i) of this procedure.

- g) In case QCA has obtained registration on the basis of false information or by suppressing material information, in that event the registration of such an entity stands cancelled and revoked.
- h) SLDC shall also have the right to initiate appropriate legal action against such entity as may be necessitated in the circumstances of each case.

10. Energy Accounting Procedure of QCA

- (i) The energy accounting shall be undertaken on the basis of the data recorded by the interface meters.
- (ii) All accounts relating to deviations within pooling sub-station/state-wide aggregation shall be prepared by the respective QCA on weekly basis based on inputs from the SLDC, and be accessible to the SLDC through an IT-enabled system and software.
- (iii) The SLDC shall furnish the processed data on a weekly basis to the concerned QCA in the prescribed format for the preparation of monthly accounts of energy from the Pooling Sub-Station/Generators.
- (iv) Any discrepancy communicated by the QCA within 15 days shall be corrected forthwith by the SLDC after verification.
- (v) The SLDC /Distribution licensee as mutually agreed shall prepare the statement of All accounts relating to deviations within pooling sub-station/statewide aggregation shall be prepared by the respective QCA on a accounting of energy in each (15 minutes) time block for the wind and solar energy generators and the procurers on monthly basis for the purpose of billing. The billing center of the distribution licensee shall be responsible for energy accounting, adjustment, raising and settlement of bills with the procurers as per

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the procedure laid by the SLDC. But, the SLDC shall be responsible for sharing the block wise generation data to the Distribution Licensee.

- (vi) A detailed energy accounting procedure shall be same as a state entities as per the clauses 5 of this procedure.

11. Commercial Settlement and Schedule of payment of DSM Charges

- a) A statement of Charges for deviation levied under these Regulations shall be prepared by the SLDC on monthly basis by every 3rd day of the next month and shall be issued to all constituents by 8th day of the month for the previous month ending at 24.00 hrs of the last day of the month.
- b) There shall be a State Deviation Pool Account to be maintained and operated by the State Load Despatch Centre:
Provided that the Commission may by order direct any other entity to operate and maintain the State Deviation Pool Account.
- c) The State Deviation Pool Account shall receive credit for:
- Payments on account of charges for deviation referred to in Regulation 9 of these regulations and the late payment surcharge as referred to in Regulation 10 of these regulations.
 - Receipt, from Deviation and Ancillary Services Pool Account-Regional, towards Reactive energy exchange, DSM etc. issued for the State by ERPC in accordance with IEGC/CERC DSM Regulations.
 - Such other charges as may be notified by the Commission.
- d) The State Deviation Pool Account shall be charged for:
- (i) Any cost of expense or other charges incurred on recovery of Charges for Deviation.
 - (ii) Over dues or penal Interest, if applicable
 - (iii) Normal Interest
 - (iv) Regional Deviation Pool Account

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- (v) Payment to Deviation and Ancillary Service Pool Account-Regional towards Reactive Energy exchange, DSM etc. issued by ERPC for the State in accordance with IEGC/CERC DSM Regulations.
- (vi) Such other charges as may be notified by the Commission.
- e) The Settlement Account for Inter-State Deviation of the State as well as that for Intra-State Deviation shall be maintained separately by SLDC.
- f) The shortfall in funds in the State Deviation Pool Account, if any, at the end of the monthly settlement period shall be recovered by levy of additional charge from the State Entities in proportion to Net Deviation Charges payable by concerned State Entity for the applicable monthly settlement period through supplementary bills.
- Provided that 50% of the surplus amount, if any, available in the State Deviation Pool Account at the end a Financial Quarter shall be utilized for the purpose of reimbursement to the State Entity in proportion to their contribution towards monthly additional charge, if any, during the quarter and the balance 50% shall be utilized for improvements in power system operations, for undertaking such measures and studies for improvement in reliability, security and safety of grid operations, undertaking capacity building and training programs related to system operations and market operations and for such other purposes as may be specified by Commission with prior approval of the Commission. **The SLDC shall prepare Scheme(s) and shall submit the Annual Surplus Utilisation Scheme to the Commission by 15th June of each year, in respect of the surplus, if any, remaining in the State Deviation Pool Account for the preceding Financial Year.** The Commission, if so desire, may invite proposals/ suggestions from various stakeholders for utilization of such surplus amount in the State Deviation Pool Account.
- g) The payment of charges for deviation shall have a high priority and the concerned State entity shall pay the due amounts within 10 (ten) days of the issue of Statement of charges for deviation by the SLDC, failing which late payment surcharge @ 0.04% shall be payable for each day of delay.
- h) If, any State entity, at any time during the previous financial year, fails to make payment of charges for deviation within the time specified in these regulations, it shall be required to open a Letter of Credit (LC) equal to 110% of its average payable monthly liability for deviations in the previous year in favour of the State Load Despatch Centre within a month from the start of the current financial year.

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i) In case of failure to pay into the State Deviation Pool Account within 10 (ten) days from the date of issue of Statement of charges for deviation, the State Load Despatch Centre shall be entitled to encash the LC of the concerned State entity to the extent of the default and the concerned State entity shall recoup the LC amount within 3 days.

j) Separate books of accounts shall be maintained for the principal component and interest component of charges for deviation by the SLDC.

12. Compliance Monitoring

In the Event of breach or default of procedure and consequences thereof shall be as under:

I. Following events shall constitute breach by the State Entities:

- a) Non-payment or delay in payment of Deviation/Additional Deviation Charges.
- b) Non-compliance of any of the terms & conditions/rules outlined under this procedure.
- c) Non-compliance of any of the directive issued by SLDC or BERC.
- d) Obtaining registration on the basis of false information or by suppressing material information.
- e) In case Available/ Declared Capacity is intentionally and repeatedly mis-declared by any seller.
- f) Non-availability of real time data continuously for three (3) days without justified reason.
- g) Non-availability of meter data for calculation of charges due to reasons attributable to respective State Entity.
- h) Non-payment of DSM charges to State Deviation Pool Account by the State Entity for consecutive three (3) Months.
- i) Non-opening of required LC towards Payment Security Mechanism.

II. Consequences for event of default:

- a) In case of any default of the above provisions the SLDC shall issue notice regarding action to be taken by the State Entity within a stipulated time frame.

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- b) In case the entity fails to take corrective measures within the stipulated time, the SLDC may take a decision as per the powers vested with it under the Act/Regulations (e.g. deny scheduling of power) and simultaneously report the matter to the Commission.

13. General

- a) All costs/expenses/charges associated with the application, including bank charges/affidavits, etc. shall be borne by the applicant.
- b) The State Entities shall abide by the provisions of the Electricity Act, IEGC, State Grid Code, applicable CERC and BERC Regulations, as amended from time to time.
- c) This Detailed Procedure has been prepared in line with prevalent regulations and central procedures. The procedure aims to streamline and facilitate the process of scheduling, despatch, Accounting of Settlement of deviations of buyers and sellers. However, if any problem is encountered, in order to resolve the same, SLDC may review the procedure for removing difficulties, the same shall be done with prior approval of the Commission.

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14. Annexures and Formats

The List of Annexures and Formats are listed below:

Sl. No.	Particulars	Annexure/Format No.
1.	Details to be submitted by RE Generators	Annexure-I
2.	Forecast & Schedule Data submitted by QCA for each Generator	Annexure-II

Annexures

Annexure-I

Details to be submitted by the Wind/Solar generating stations which are State entities	
Type: Wind/Solar Generator	
Individual / on Behalf of Group of generators	
If on Behalf of Group of generators group of then details of agreement to be attached	
Total Installed Capacity of Generating Station	
Total Number of Units with details	
Physical Address of the RE Generating Station	
Whether any PPA has been signed: (Y/N)	If yes ,then attach details
Connectivity Details	Location/Voltage Level
Metering Details	Meter No. 1. Main 2. Check
Connectivity Diagram	(Please Enclose)
Static data	As per attached sheet
Contact Details of the Nodal Person	Name :

	Designation : Number: Landline Number, Mobile Number, Fax Number
Contact Details of the Alternate Nodal Person	Name : Designation : Number: Landline Number, Mobile Number, Fax Number

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Data to be submitted by the RE Generators for Wind turbine generating plants

S No	Particulars
1	Type
2	Manufacturer
3	Make /Model
4	Capacity
5	COD
6	Hub height
7	Total height
8	RPM range
9	Rated wind speed
Performance Parameters	
11	Rated electrical power at rated wind speed
12	Cut in speed
13	Cut out speed
14	Survival speed (Max wind speed)
15	Ambient temperature for out of operation
16	Ambient temperature for in operation
17	Survival temperature
18	Low Voltage Ride Through (LVRT) setting
19	High Voltage Ride Through (HVRT) setting
20	Lightning strength (KA & in coulombs)
21	Noise power level (db)
22	Rotor

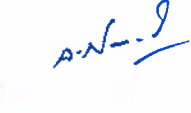
for the   

23	Hub type
24	Rotor diameter
25	Number of blades
26	Area swept by blades
27	Rated rotational speed
28	Rotational Direction
29	Coning angle
30	Tilting angle
31	Design tip speed ratio
Blade	
32	Length
33	Diameter
34	Material
35	Twist angle
Generator	
36	Generator Type
37	Generator no of poles
38	Generator speed
39	Winding type
40	Rated Gen.Voltage
41	Rated Gen. frequency
42	Generator current
43	Rated Temperature of generator
44	Generator cooling
45	Generator power factor
46	KW/MW @ Rated Wind speed





33



47	KW/MW @ peak continuous
48	Frequency Converter
49	Filter generator side
50	Filter grid side
Transformer	
51	Transformer capacity
52	Transformer cooling type
53	Voltage
54	Winding configuration
Weight	
55	Rotor weight
56	Nacelle weight
57	Tower weight
58	Over speed Protection
59	Design Life
60	Design Standard
61	Latitude
62	Longitude
63	COD Details
64	Past Generation History from the COD to the date on which DAS facility provided at RLDC, if applicable
65	Distance above mean sea level

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For Solar generating Plants: Static data points:

1. Latitude
2. Longitude
3. Power Curve
4. Elevation and orientation angles of arrays or concentrators
5. The generation capacity of the Generating Facility
6. Distance above mean sea level etc.
7. COD details
8. Rated voltage
9. Details of Type of Mounting: (Tracking Technology If used, single axis or dual axis, auto or manual)
10. Manufacturer and Model (of Important Components, Such as Concentrators, Inverter, Cable, PV Module, Transformer, Cables)
11. DC installed Capacity
12. Module Cell Technology
13. I-V Characteristic of the Module
14. Inverter Rating at different temperature
15. Inverter Efficiency Curve

Transformer Capacity & Rating, evacuation voltage, distance from injection point

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Annexure-II

Forecast and Schedule Data to be submitted by QCA, generator-wise

FORMAT: A (to be submitted a day in advance)

15 Min time block (96 Block in a day)	Time Block	Available Capacity (MW) Day Ahead	Day Ahead Forecast (MW)	Day Ahead Schedule (MW)
1	00:00-00:15			
2	00:15-00:30			
3	00:30-00:45			
4	00:45-01:00			
94				
95				
96				

Note: The forecast should ideally factor forecasting errors. As such schedule should ordinarily be same as forecast.

FORMAT: B (to be submitted on the day of actual generation, revision of availability and schedule, if any, shall be done as per this Grid Code.

pe for *Q* *10-11* *A* *10* *0* *2* *1* *2*

15 Min time block (96 Block in a day)	Time Block	Day ahead schedule (MW)	Current Available Capacity (MW)	Revised Schedule (MW)
1	00:00-00:15			
2	00:15-00:30			
3	00:30-00:45			
4	00:45-01:00			
94				
95				
96				

Real-time Data Telemetry requirement (Suggested List)

Wind turbine generating plants

1. Turbine Generation (MW/MVAR)
2. Wind Speed(meter/second)
3. Generator Status (on/off-line)- this is required for calculation of availability of the WTG
4. Wind Direction (degrees from true north)

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ant-2

5. Voltage (Volt)
6. Ambient air temperature (degree Celsius)
7. Barometric pressure (Pascal)
8. Relative humidity (in percent)
9. Air Density (kg/m³)

For Solar generating Plants

1. Solar Generation unit/ Inverter-wise (MW and MVAR)
2. Voltage at interconnection point (Volt)
3. Generator/Inverter Status (on/off-line)
4. Global horizontal irradiance (GHI)- Watt per meter square
5. Ambient temperature (°C)
6. Diffuse Irradiance- Watt per meter square
7. Direct Irradiance- Watt per meter square
8. Sun-rise and sunset timings
9. Cloud cover-(Okta)
10. Rainfall (mm)
11. Relative humidity (%)
12. Performance Ratio

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