

UTTARAKHAND ELECTRICITY REGULATORY COMMISSION

Draft Notification

August, 2016

Uttarakhand Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2016.

No...../2016/UERC.- In exercise of the powers conferred under Section 181 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, the Uttarakhand Electricity Regulatory Commission hereby makes the following regulations, namely:

1. Short title and commencement

- (1) These regulations may be called the Uttarakhand Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2016.
- (2) These Regulations shall come into force with effect from the date of their publication in the official Gazette.

2. Definitions and Interpretation

- (1) In these regulations, unless the context otherwise requires,-
 - (a) 'Act' means the Electricity Act, 2003 (36 of 2003);
 - (b) "Absolute Error" shall mean the absolute value of the error in the actual generation of wind or solar generators which are State constituents with reference to the scheduled generation and the 'Available Capacity' (AvC), as calculated using the following formula for each 15 minute time block:
$$\text{Error (\%)} = 100 \times [\text{Actual Generation} - \text{Scheduled Generation}] / (\text{AVC})$$
 - (c) "actual drawal" in a time-block means electricity drawn by a buyer, as the case may be, measured by the interface meters;
 - (d) "actual injection" in a time-block means electricity generated or supplied by the seller, as the case may be, measured by the Interface meters;

- (e) Available Capacity (AvC) for wind or solar generators which are State constituents is the cumulative capacity rating of the wind turbines or solar inverters that are capable of generating power in a given time-block;
- (f) “beneficiary” means a person purchasing electricity generated from a generating station;
- (g) “buyer” means a person, including beneficiary, purchasing electricity through a transaction scheduled in accordance with the regulations applicable for short-term open access, medium-term open access and long-term access;
- (h) “Central Commission” means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;
- (i) “Commission” means the Uttarakhand Electricity Regulatory Commission referred to in sub-section (1) of section -82 of the Act.
- (j) “Deviation” in a time-block for a seller means its total actual injection minus its total scheduled generation and for a buyer means its total actual drawal minus its total scheduled drawal.
- (k) “gaming” in relation to these regulations, shall mean an intentional mis-declaration of declared capacity by any seller or buyer in order to make an undue commercial gain through Charge for Deviations;
- (l) “Grid Code” means the Grid Code specified by the Commission under clause (h) of sub-section (1) of Section 86 of the Act.
- (m) “interface meters” means interface meters as defined by the Central Electricity Authority under the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, as amended from time to time.
- (n) “Intra-State Deviation Charges” shall mean charges for deviation as specified by these Regulations;

- (o) "Open Access Consumers" means a consumer, trader, distribution licensee or a generating company who has been granted Open Access under Uttarakhand Electricity Regulatory Commission (Terms & Conditions of intra -State Open Access) Regulations, 2015 and amendments from time to time
- (p) "Open Access Regulations" means the Uttarakhand Electricity Regulatory Commission (Terms & Conditions of intra -State Open Access) Regulations, 2015 and amendments from time to time.
- (q) "Scheduled generation" at any time or for a time block or any period means schedule of generation in MW or MWh ex-bus given by the State Load Despatch Centre;
- (r) "Scheduled drawal" at any time or for a time block or any period time block means schedule of despatch in MW or MWh ex-bus given by the State Load Despatch Centre;
- (s) "seller" means a person, including a generating station, supplying electricity through a transaction scheduled in accordance with the regulations applicable for short-term open access, medium-term open access and long-term access;
- (t) "State Load Despatch Centre" means the centre established under sub-section (1) of section 31 of the Act.
- (u) "Time-block" means a time block of 15 minutes, for which specified electrical parameters and quantities are recorded by special energy meter, with first time block starting at 00.00 hrs;

Words and expressions used in these Regulations and not defined, but defined in the Act or the other Regulations issued by the Commission shall have the same meaning assigned to them respectively in the Act or such Regulations issued by the Commission.

3. Objective

The objective of these regulations is to maintain grid discipline and grid security as envisaged under the CERC (Indian Electricity Grid Code) Regulations, 2010 and UERC (State Grid Code) Regulations, 2016 and amendments from time to time

through the commercial mechanism for Deviation Settlement through drawal and injection of electricity by the users of the grid.

4. Scope

These Regulations shall be applicable to buyers and sellers i.e. State Distribution Licensee(s), Intra-State Generating Stations and Open Access Customers connected to the State Grid.

Provided that Renewable Energy Generation Sources namely SHPs, Wind, Solar, Bio-mass, Co-generation, biogas etc. selling power to the State Distribution Licensee or to Local Rural Grid within the State are excluded from these Regulations till such time the Commission decides to bring them under the ambit of Deviation Settlement Mechanism (DSM).

5. Charges for Deviations:

- (1) The charges for the Deviations for all the time-blocks shall be payable for over drawal by the buyer and under-injection by the seller and receivable for under-drawal by the buyer and over-injection by the seller (except for Wind and Solar Generators) shall be worked out on the average frequency of a time-block at the rates specified in the table below as per the methodology specified in these Regulations.

Table-1: Frequency based charges for Deviation

Average Frequency of the time block (Hz)		Charges for Deviation
Below	Not Below	Paise/kWh
	50.05 And above	0.00
50.05	50.04	35.60
50.04	50.03	71.20
50.03	50.02	106.80
50.02	50.01	142.40
50.01	50.00	178.00
50.00	49.99	198.84
49.99	49.98	219.68
49.98	49.97	240.52
49.97	49.96	261.36
49.96	49.95	282.20
49.95	49.94	303.04
49.94	49.93	323.88
49.93	49.92	344.72
49.92	49.91	365.56
49.91	49.90	386.40

Average Frequency of the time block (Hz)		Charges for Deviation
Below	Not Below	Paise/kWh
49.90	49.89	407.24
49.89	49.88	428.08
49.88	49.87	448.92
49.87	49.86	469.76
49.86	49.85	490.60
49.85	49.84	511.44
49.84	49.83	532.28
49.83	49.82	553.12
49.82	49.81	573.96
49.81	49.80	594.80
49.80	49.79	615.64
49.79	49.78	636.48
49.78	49.77	657.32
49.77	49.76	678.16
49.76	49.75	699.00
49.75	49.74	719.84
49.74	49.73	740.68
49.73	49.72	761.52
49.72	49.71	782.36
49.71	49.70	803.20
49.70		824.04

(Charges for deviation for each 0.01 Hz step is equivalent to 35.60 Paise/kWh in the frequency range of 50.05-50.00 Hz, and 20.84 Paise/kWh in frequency range 'below 50 Hz' to 'below 49.70 Hz')

Provided that:

- (i) The receivables against the charges for the Deviation for the under drawals by the buyer in a time block in excess of 5% of the schedule shall be zero.
- (ii) The receivables against the charges for the Deviation for the over-injection by the seller in a time block in excess of 5% of the schedule shall be zero, except in case of injection of infirm power, which shall be governed by the sub-Regulation (3) of this Regulation, and except for wind and solar generators which are state constituents, which shall be governed by clauses (iii) to (v) of this sub-Regulation.

(iii) The Wind or Solar Generators which are state constituents shall be paid as per schedule. In the event of actual generation being less than the scheduled generation, the deviation charges for shortfall in generation shall be payable by such wind or solar generator to the State Deviation Pool Account as given in Table below:

Table-2: Deviation Charges in case of under injection by Wind & Solar Generators

Sl. No.	Absolute Error in the 15-minute time block	Deviation Charges payable to State Deviation Pool Account
1	<=15%	At the fixed rate for the shortfall energy for absolute error up to 15%
2	>15% but <=25%	At the fixed rate for the shortfall energy for absolute error up to 15%
		+ 110% of the Fixed Rate for balance energy beyond 15% and up to 25%
3	>25% but <=35%	At the fixed rate for the shortfall energy for absolute error up to 15%
		+ 110% of the Fixed Rate for balance energy beyond 15% and up to 25%
		+ 120% of the Fixed Rate for balance energy beyond 25% and up to 35%
4	>35%	At the fixed rate for the shortfall energy for absolute error up to 15%
		+ 110% of the Fixed Rate for balance energy beyond 15% and up to 25%
		+ 120% of the Fixed Rate for balance energy beyond 25% and up to 35%
		+ 130% of the Fixed Rate for balance energy beyond 35%

(iv) The Wind or Solar generators which are State Constituents shall be paid as per schedule. In the event of the actual generation being more than the scheduled generation, the deviation charges for the excess generation shall be payable to the wind or solar generators which are state constituents from the State Deviation Pool Account as given in table below:

Table-3: Deviation Charges in case of over injection by wind & Solar Generator

Sl. No.	Absolute Error in the 15-minute time block	Deviation Charges payable to State Deviation Pool Account
1	<=15%	At the fixed rate for the excess energy up to 15%
2	>15% but <=25%	At the fixed rate for the excess energy up to 15%
		+ 90% of the Fixed Rate for excess energy beyond 15% and up to 25%
3	>25% but <=35%	At the fixed rate for the excess energy up to 15%
		+ 90% of the Fixed Rate for excess energy beyond 15% and up to 25%
		+80% of the Fixed Rate for excess

4	>35%	At the fixed rate for the excess energy up to 15%
		+ 90% of the Fixed Rate for excess energy beyond 15% and up to 25%
		+80% of the Fixed Rate for excess energy beyond 25% and up to 35%
		+70% of the Fixed Rate for excess energy beyond 35%

Provided that where the Fixed Rate mentioned in clause (iii) & (iv) of this sub-Regulation, is the PPA rate as determined by the Commission under section 62 of the Act or adopted by the Commission under section 63 of the Act. In case of multiple PPAs, the weighted average of the PPA rates shall be taken as the Fixed Rate. The wind and solar generators shall furnish the PPA rates on affidavit, for the purpose of Deviation Charge account preparation, to SLDC supported by copy of the PPA.

Provided further that the Fixed Rate for Open Access participants selling power which is not accounted for RPO compliance of the buyer, and the captive wind or solar plants, shall be the Average Power Purchase Cost (APPC) rate at State level, as determined by the Commission from time to time.

(v) In reference to clauses (iii) and (iv) of this sub-Regulation, for balancing of deemed renewable purchase obligation (RPO) compliance of buyers with respect to schedule, deviations by all wind and solar generators which are state constituents shall first be netted off for the entire pool on a monthly basis and remaining shortfall in renewable energy generation must be balanced through purchase of equivalent solar and non solar Renewable Energy Certificate(RECs), as the case may be , by SLDC by utilizing funds from State Deviation Pool Account. For positive balance of renewable energy generation, equivalent notional RECs shall be credited to the State Deviation Pool Account and carried forward for settlement in future.

(2) The Charges for Deviation may be reviewed by the Commission from time to time and while doing so, the Commission will be guided by relevant CERC Regulations and Amendments thereto.

- (3) The infirm power injected into the grid by a generating unit of a generating station during the testing, prior to COD of the unit shall be paid at Charges for Deviation for infirm power injected into the grid, consequent to testing, for a period not exceeding 6 months or the extended time allowed by the Commission, subject to ceiling of Cap rates corresponding to the main fuel used for such injection as specified below:

Domestic coal/ Lignite/Hydro	₹1.78/kWh sent out
Imported Coal	₹3.03 / kWh sent out
RLNG	₹8.24 / kWh sent out

- (4) The charges and Terms & Conditions with regard to Deviation Settlement Mechanism for the Generating Stations regulated by the Central Commission using coal or lignite or gas supplied under Administered Price Mechanism (APM) as fuel, shall be as per CERC Deviation Settlement Mechanism Regulations.

6. Declaration, scheduling and elimination of gaming

- (1) The provisions of the UERC (State Grid Code) Regulation, 2016, UERC (Tariff and Other Terms for Supply of Electricity from Renewable Energy Sources and non-fossil fuel based Co-generating Stations) Regulations, 2013 and the UERC (Terms & Conditions of Intra-state Open Access) Regulations, 2015, as amended from time to time, shall be applicable for declaration of capacity, scheduling and elimination of gaming.
- (2) The generating station, as far as possible, shall generate electricity as per the day-ahead generation schedule finalized by the State Load Despatch Centre in accordance with the State Grid Code.

Provided that the revision in generation schedule on the day of operation shall be permitted, in accordance with the procedure specified under UERC (State Grid Code) Regulation, 2016 as amended from time to time.

- (3) The Commission, either suo motu or on a petition made by SLDC, or any affected party, may initiate proceedings against any State Constituent namely Generator, Distribution Licensee, Open Access Consumer etc. on charges of gaming and if required, may order an inquiry in such manner

as decided by the Commission. When the charge of gaming is established in the above inquiry, the Commission may, without prejudice to any other action under the Act or Regulations there under, disallow any Charges for Deviation received by such State Constituent during the period of such gaming.

7. Limits on Deviation Volume

- (1) The overdrawal/underdrawal of electricity by any buyer during the time block shall not exceed 5% of its scheduled drawal, when grid frequency is "49.70 Hz and above" and "below 50.10 Hz":

Provided that no overdrawal of electricity by any buyer shall be permissible when grid frequency is "below 49.70 Hz" and no underdrawal of electricity by any buyer shall be permissible when grid frequency is "50.10 Hz and above".

Provided that the limits on deviation volume and consequences for crossing these limits (including the additional charges for deviation) as stipulated under these regulations, shall not apply to wind and solar generators which are State Constituents.

- (2) The under-injection/over-injection of electricity by a seller during a time-block shall not exceed 5% of the scheduled injection of such seller, when frequency is "49.70 Hz and above and below 50.10Hz":

Provided that no under injection of electricity by a seller shall be permissible when grid frequency is "below 49.70 Hz" and no over injection of electricity by a seller shall be permissible when grid frequency is "50.10 Hz and above".

Provided further that any infirm injection of power by a generating station prior to COD of a unit during testing and commissioning activities shall be exempted from the volume limit specified above for a period not exceeding 6 months or the extended time allowed by the Commission.

Provided further at any drawal of power by a generating station prior to COD of a unit for the start up activities shall be exempted from the volume limit specified above when grid frequency is "49.70 Hz and above".

8. Additional charges for crossing Deviation Volume Limits

- (1) In addition to Charges for Deviation as stipulated under Regulation 5 of these Regulations, Additional Charge for Deviation shall be applicable for over-drawal as well as under-injection of electricity for each time block in excess of the volume limit specified in Regulation 7 above, when average grid frequency of the time block is “49.70 Hz and above” at the rates specified in the Table-4 below in accordance with the methodology specified in sub-Regulation (5) of these Regulation:

Table-4: Additional charges for Deviation beyond the limits on Deviation volume

1	For over drawal of electricity by any buyer in excess of 5% and up to 15% of the schedule in a time block	Equivalent to 20% of the Charge for Deviation corresponding to average grid frequency of the time block.
2	For over drawal of electricity by any buyer in excess of 15 % and up 20% of the schedule in a time block	Equivalent to 40% of the Charge for Deviation corresponding to average grid frequency of the time block.
3	For over drawal of electricity by any buyer in excess of 20 % of the schedule in a time block	Equivalent to 100% of the Charge for Deviation corresponding to average grid frequency of the time block.
4	For under injection of electricity by any seller in excess of 5% and up to 15% of the schedule in a time block	Equivalent to 20% of the Charge for Deviation corresponding to average grid frequency of the time block.
5	For under injection of electricity by any seller in excess of 15% and up to 20% of the schedule in a time block	Equivalent to 40% of the Charge for Deviation corresponding to average grid frequency of the time block.
6	For under injection of electricity by any seller in excess of 20% of the schedule in a time block	Equivalent to 100% of the Charge for Deviation corresponding to average grid frequency of the time block.

Provided that any drawal of power by a generating station prior to COD of a unit for the startup activities shall be exempted from the levy of additional Charges of Deviation.

- (2) In addition to Charges for Deviation as stipulated under Regulation 5 of these Regulations, Additional Charge for Deviation shall be applicable for over-injection/under drawal of electricity for each time block by a seller/buyer as the case may be when grid frequency is “50.10 Hz and above” at the rates equivalent to charges of deviation corresponding to the grid frequency of “below 50.01 Hz but not below 50.0 Hz”.

- (3) Methodologies for the computation of Charges for Deviation and Additional Charges for deviation for each State Constituents for crossing the volume limits specified for the over-drawal/under-injection and for under-drawal/over-injection in sub-Regulation (1) & (2) of this Regulation shall be as per Annexure-I and II of these Regulations respectively.
- (4) In addition to Charges for Deviation as stipulated under Regulation 5 of these Regulations, Additional Charge for Deviation shall be applicable for over-drawal or under-injection of electricity when grid frequency is “below 49.70 Hz” in accordance with the methodology specified in sub-Regulation (6) of this Regulation and the same shall be equivalent to 100% of the Charge for Deviation of 824.04 Paise/kWh corresponding to the grid frequency of “below 49.70 Hz”.
- (5) The Additional Charge for Deviation for over-drawal and under-injection of electricity for each time block in excess of the volume limit specified in Regulation 7 above, when grid frequency is "49.70 Hz and above" shall be as specified by the Commission as a percentage of the charges for the Deviation corresponding to average grid frequency of the time block with due consideration to the behaviour of the buyers and sellers towards grid discipline:
- Provided that the Commission may specify different rates for additional Charges for Deviation for over draws and under injections depending upon different % deviation from the schedule in excess of the volume limit specified in Regulation 7 above.
- (6) The additional Charge for Deviation for over-drawals and under-injection of electricity for each time block when grid frequency is “below 49.70 Hz” shall be as specified by the Commission as a percentage of the charges for the Deviation corresponding to average grid frequency of the time block with due consideration to the behaviour of the buyers and sellers towards grid discipline:
- Provided that the Commission may specify different rates for Additional Charges for Deviation for over draws and under injections and for different ranges of frequencies, “below 49.70 Hz”.

- (7) In the event of sustained deviation from schedule in one direction (positive or negative) by any State constituent i.e. buyer or seller shall have to make sign of their deviation from schedule changed, at least once, after every 12 time blocks. To illustrate, if a Buyer/Seller has positive deviation from schedule from 07.30 hrs to 10.30 hrs, sign of its deviation from schedule shall be changed in the 13th time block i.e. 10.30 to 10.45 hrs from positive to negative or negative to positive as the case may be.
- (8) Payment of Charges for Deviation under Regulation 5 and the Additional Charges for Deviation under sub-Regulation (1) & (2) of this Regulation, shall be levied without prejudice to any action that may be considered appropriate by the Commission under Section 142 of the Act for contravention of the limits of over-drawal/under drawal or under-injection /over-injection as specified in these regulations, for each time block or violation of provision of sub-Regulation (7) of these Regulations.
- (9) The charges for over-drawal/ under-injection and under-drawal/ over-injection of electricity shall be computed by the SLDC.
- (10) The SLDC shall, on weekly basis, prepare and publish on its website there records of the Deviation Accounts, specifying the quantum of over-drawal/ under-injection & over injection/under drawal and corresponding amount of Charges for Deviation payable/receivable for each buyer and seller for all the time-blocks when grid frequency was "49.90Hz and above" and "below 49.90" Hz separately."

9. Compliance with instructions of State Load Despatch Centre

Notwithstanding anything specified in these Regulations, the sellers and the buyers shall strictly follow the instructions of the SLDC on injection and drawal in the interest of grid security and grid discipline.

10. Accounting of Charges for Deviation

- (1) State Energy Accounts shall be prepared on monthly basis and the statement of Deviation charges and Reactive Energy Charges shall be prepared by the SLDC on a weekly basis based on the data provided by the SLDC and these shall be issued to all state constituents by Tuesday for the seven-day period ending on the previous Sunday mid-night.

- (2) All payments on account of Charges for Deviation including Additional Charges for Deviation levied under these regulations and interest, if any, received for late payment shall be credited to the funds called the “State Deviation Pool Account” which shall be maintained and operated by the State Load Despatch Centre in accordance with provisions of these Regulations.

Provided that:

- (i) the Commission may by order direct any other entity to operate and maintain “State Deviation Pool Account”
 - (ii) separate books of accounts shall be maintained for the principal component and interest component of Charges for Deviation and Additional Charges for Deviation by SLDC.
- (3) All payments received in the “State Deviation Pool Account” shall be appropriated in the following sequence:
- (i) First towards any cost or expense or other charges incurred on recovery of Charges for deviation.
 - (ii) Next towards over dues or penal interest, if applicable.
 - (iii) Next towards normal interest.
 - (iv) Lastly, towards charges for deviation and additional charges for deviation.

Explanation: Any Additional Charge for Deviation collected from a Buyer/Seller shall be retained in the “State Deviation Pool Account”.

11. Schedule of Payment of Charges for Deviation

- (1) The payment of charges for Deviation shall have a high priority and the concerned Buyer/Seller shall pay the indicated amounts within 7 (Seven) days of the issue of statement of Charges for Deviation including Additional Charges for Deviation by the SLDC into the “State Deviation Pool Account”
- (2) If payments against the Charges for Deviation including Additional Charges for Deviation are delayed by more than two days, i.e., beyond Nine (9) days from the date of issue of the statement by the SLDC , the

defaulting Buyer/Seller shall have to pay simple interest @ 0.04% for each day of delay.

- (3) All payments to the Buyer/Seller entitled to receive any amount on account of charges for Deviation shall be made within 5 working days of receipt of the payments in the "State Deviation Pool Account".

Provided that:

- (i) in case of delay in the Payment of charges for Deviations into the State Deviation Pool Account and interest there on if any, beyond 9 days from the date of issuance of the Statement of Charges for Deviations the Buyer/Seller who have to receive payment for Deviation or interest there on shall be paid from the balance available if any, in the State Deviation Pool Account. In case the balance available is not sufficient to meet the payment to the Buyer/Seller, the payment from the State Deviation Pool Account shall be made on pro rata basis from the balance available in the Fund.
- (ii) the liability to pay interest for the delay in payments to the "State Deviation Pool Account" shall remain till interest is not paid; irrespective of the fact that Buyer/Seller who have to receive payments have been paid from the "State Deviation Pool Account" in part or full.
- (4) All Buyer/Seller which had at any time during the previous financial year failed to make payment of Charges for Deviation including Additional Charges for Deviation within the time specified in these regulations shall be required to open a Letter of Credit (LC) equal to 110% of its average payable weekly liability for Deviations in the previous financial year, in favour of the SLDC before 14th April of the financial year.

Provided that:

- (i) if any Buyer/Seller fails to make payment of Charges for Deviation including Additional Charges for Deviation by the time specified in these regulations during the current financial year, it shall be

required to open a Letter of Credit equal to 110% of weekly outstanding liability in favour of State Load Despatch Centre within a fortnight from the due date of payment.

- (ii) LC amount shall be increased to 110% of the payable weekly liability for Deviation in any week during the year, if it exceeds the previous LC amount by more than 50%.

Illustration: If the average payable weekly liability for Deviation of a Buyer/Seller during 2016-17 is Rs-20 Crore, the Buyer/Seller shall open LC for Rs 22 Crore in 2017-18. If the weekly payable liability during any week in 2017-18 is Rs 35 Crore which is more than 50% of the previous financial year's average payable weekly liability of Rs 30 Crore, the Buyer/Seller shall increase the LC amount to Rs 38.5 Crore ($1.1 * 35.0$) by adding Rs 16.5 Crore.

- (5) In case of failure to pay into the "State Deviation Pool Account" within the specified time of 9 days from the date of issue of statement of charges for Deviations, the SLDC shall be entitled to encash the LC of the Buyer/Seller to the extent of the default and the Buyer/Seller shall recoup the LC amount within 3 days.

11. Application of fund collected through Deviations

The surplus amount, if any in the State Deviation Pool Account as on last day of the month, shall be transferred to a separate fund namely "State Power Systems Development Fund" specified by the Commission in the first week of the next month and shall be utilized, for the purpose specified by the Commission.

12. Power to Relax.

The Commission may by general or special order, for reasons to be recorded in writing, and after giving an opportunity of hearing to the parties likely to be affected by grant of relaxation, may relax any of the provisions of these regulations on its own motion or on an application made before it by an interested person.

13. Power to issue directions:-

If any difficulty arises in giving effect to these regulations, the Commission may on its own motion or on an application filed by any affected party, issue such directions as may be considered necessary in furtherance of the objective and purpose of these regulations.

14. Power to amend

The Commission may, at anytime, vary, alter, modify or amend any provisions of these Regulations.

15. Power to remove difficulties

If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may, by general or specific order, make such provisions not inconsistent with the provisions of the Act, as may appear to be necessary for removing the difficulty.

By Order of the Commission

Neeraj Sati
Secretary
Uttarakhand Electricity Regulatory Commission

Annexure-I

Methodologies for the computation of Charges of Deviation and Additional Charges for deviation for each Buyer/Seller for crossing the volume limits specified for the over-drawal/under injection by buyer/Seller.

1. When the grid frequency is 49.7 Hz and above

- A. When D_{tb} i.e. Deviation from schedule in a time block in MW is less than (+/-) 5% of the schedule in each time block, D_{tb} to be payable by the Buyer/Seller at normal Charges for Deviation;
- B. When D_{tb} i.e. Deviation from schedule in a time block in MW is more than (+/-) 5% of the schedule in each time block

(i) $D_{tb} = D_0 + D_5$

Where

$D_0 =$

(+/-)5% of Scheduled Drawal/Injection

$D_5 =$ Deviation in excess of (+/-)5% of Scheduled Drawal/ Injection

(ii) $D_5 = D_{tb} - D_0$

- (iii) The Charges for Deviation corresponding to D_{tb} shall be payable by the Buyer/Seller at normal Charges of Deviation; In addition, graded Additional Charges for the Deviation for D_5 shall be payable by the Buyer/Seller for over drawal/under injection for crossing the volume limit on the basis of percentage term as the case may @ 20%, 40%, 100% of Charge of Deviation for the incremental deviation in each slab.

2. When the grid frequency is below 49.7 Hz

The charges for deviation for over-drawal/under injection corresponding to D_{tb} shall be payable by the Buyer/Seller at 824.04 Paise/kWh .In addition, Additional deviation charges for deviation for D_{tb} shall be payable by the Buyer/Seller at 824.04 Paise/kWh

Annexure-II

Methodologies for the computation of Charges of Deviation and Additional Charges for deviation for each buyer/Seller for crossing the volume limits specified for the under drawal/ over-injection by buyer/Seller.

- A. When D_{tb} i.e. Deviation from schedule in a time block in MW is less than $(-/+)$ 5% of the schedule in each time block, D_{tb} to be Receivable by the buyer/Seller at normal Charges for Deviation;
- B. When D_{tb} i.e. Deviation from schedule in a time block in MW is more than $(-/+)$ 5% of the schedule in each time block
- (i) $D_{tb} = D_0 + D_5$
Where
 $D_0 = (-/+)$ 5% of Schedule Drawal/Injection
 $D_5 =$ Deviation in excess of $(-/+)$ 5% of Drawal/Injection
- (ii) $D_5 = D_{tb} - D_0$
- (iii) The Charges for Deviation corresponding to D_0 shall be receivable by the Buyer/Seller at normal Charges of Deviation or the ceiling rate whichever is lower; the Buyer/Seller shall not be entitled to any receivable for D_5 .
- C. Additional Charges for the Deviation D_{tb} shall be payable by the Buyer/Seller for under drawal/ over injection when grid frequency is 50.10 Hz or above in accordance with sub-Regulation (2) of Regulation 8 of these Regulations.