<u>Energy Accounting procedures for the interstate sale transactions by the intra state generators till intra state ABT is implemented in the state.</u>

1. **Scheduling:-**

Till such time scheduling software is procured and established at SLDC,

(i) **For interstate bilateral transactions**, the scheduled quantum (by SRLDC) at SR periphery + the computed Regional & state T&D loss + intra sate Open Access approved quantum towards CPP wheeling Commitments, third party sale commitments & TANGEDCO commitments shall be taken as the generation schedule of the generator at the injection end.

(ii) **For interstate transactions through exchange,** the scheduled quantum at state periphery (by Power Exchange) + the computed state T&D loss + intra state Open Access approved quantum towards CPP wheeling Commitments, third party sale commitments & TANGEDCO commitments shall be taken as the generation schedule of the generator at the injection end.

(iii) **For interstate transactions through both bilateral and exchange,** {the scheduled quantum (by SRLDC) at SR periphery + the computed Regional & state T&D loss}+ {the scheduled quantum at state periphery (by Power Exchange) + the computed state T&D loss} + intra state Open Access approved quantum towards CPP wheeling Commitments, third party sale commitments & TANGEDCO commitments shall be taken as the generation schedule of the generator at the injection end.

(iii) The Regional loss shall be based on the weekly loss issued by the NLDC (Loss related to Southern Region – Tamil Nadu Injection slab)

(iv) The State Transmission & Distribution Loss shall be as notified by the TNERC.

For Injection at 110KV – 1.73 %
For Injection at 230KV – 0.76 %

2. Actual Energy Injection

The main/check meter reading shall be taken by authorized officer of STU/Distribution licensee in the presence of OA customer and transmit the data to SLDC. Using the data conversion software available, SLDC will convert the data and compute the 15 mins block wise energy injection from the generator.

3. Deviation in Generation settlement

The mismatch between the actual injection and scheduled generation ie (Actual-Schedule) shall be computed on 15 mins block wise basis and settled through deviation settlement mechanism.

The energy generated during ramping up and ramping down period ie no open access approval period will not be paid back by the TANGEDCO.

3.1 Limitation in deviation quantum:

(i) At frequency 49.70 – 50.10 Hz, over injection/under injection in a time block shall not exceed +/- 10% of the scheduled generation (<u>as per TNERC draft intrastate ABT regulations +/- 10%)</u>.

(ii) No over injection at freq 50.10 Hz and above

(iii) No Under injection at frequency below 49.70 Hz.

<u>(as per TNERC draft intrastate ABT regulations +/- 10% considered.)</u>

3.2 Deviation Rate:-

(i) <u>Excess Generation</u> : - In accordance with the detailed procedure submitted before the Hon'ble TNERC for approval on implementation of Grid Connectivity and Intra-state open access regulations 2014, excess injection by the Generator over and above the scheduled energy will be treated as lapsed.

(ii) <u>Under Generation</u> :- As per clause 20.(4) & (5) of CERC's Inter-State Open Access Regulations, the deviation rate shall be 105% of the deviation rate of CERC for under generation.

3.3 Additional charges

a) at freq 49.70 – 50.05 Hz, for under injection,

more than 10% and upto 15% - 20% of the applicable deviation rate

more than 15% and upto 20% - 40% of the applicable deviation rate

more than 20% - 100% of the applicable deviation rate

b) No over injection at freq above 50.10 Hz and energy injected if any will be priced at "zero" paisa. The energy injected over and above the commitment at frequency 50.10Hz and above will attract penalty @ Rs, 1.78/Kwhr

c) No Under injection at frequency below 49.70 Hz and less energy injected below the commitment if any will attract penalty @ 100% of frequency rate of 49.70 Hz.

3.4 Settlement period :

The deviation settlement shall be on weekly basis. However till such time software facilities are established at SLDC, the deviation settlement shall be on monthly basis.

4. Category wise deviation settlement system:-

(1) Deviation Settlement for Generators having only Inter –state sale commitments:

The deviation in energy shall be settled as stipulated in (3) above.

(2) Deviation Settlement for Generators having Inter –state sale commitments and Intra State wheeling commitments:

Principle adopted:- The interstate commitment once scheduled could not be revised in accordance with the actual generation. Whereas for the intra state commitments, the allotment of power will be based on the actual generation in which the excess injection is lapsed. Hence the deviation settlement is applied only when the injection is less than the interstate sale commitments and excess injection more than over all (interstate + intra state) commitments is lapsed.

(i) In a block, if the actual generation is more than their inter- state sale commitments and not exceeding their total commitments including intra state commitments then deviation will not be calculated for that block. The quantum remains over and above the interstate sale scheduled quantum will be allotted for the intra state wheeling commitments.

(ii) In a block, if the actual generation is more than their inter- state sale commitments and exceeding their total commitments including intra state commitments then the excess quantum injected will be lapsed.

(iii) In a block, if the actual generation is less than their inter- state sale commitments then the deviation upto the interstate sale commitments will be calculated and priced at the 105% of CERC notified frequency rate. Limitation in deviation volume, Additional charges for deviation beyond limit specified is also applicable as specified in (3) above. The allotment towards other commitments in that block will be nil

(iv) As the wheeling to CPP users have to be settled on billing cycle, the energy settlement for those generators shall be done on billing cycle. SLDC will intimate the slot wise interstate sale schedule. The injected power remains over and above that shall be allotted for the CPP wheeling and third party commitments provisionally. Final settlement shall be in line with deviation settlement of those generators on calendar month

(3) Deviation Settlement for Generators having Inter –state sale commitments and Intra State wheeling commitments and TANGEDCO commitments:

(i) In a block, if the actual generation is more than their inter- state sale commitments and not exceeding their total commitments including intra state & TANGEDCO commitments then deviation will not be calculated for that block. The quantum remains over and above the interstate sale scheduled quantum will be allotted for the intra state wheeling & TANGEDCO commitments.

(ii) In a block, if the actual generation is more than their inter- state sale commitments and exceeding their total commitments including intra state commitments then the excess quantum injected will be lapsed.

(iii) In a block, if the actual generation is less than their inter- state sale commitments then the deviation upto the interstate sale commitments will be calculated and priced at the 105% of CERC notified frequency rate. Limitation in deviation volume, Additional charges for deviation beyond limit specified is also applicable as specified in (3) above. The allotment towards other commitments in that block will be nil

(iv) As the wheeling to CPP users have to be settled on billing cycle, the energy settlement for those generators shall be done on billing cycle. SLDC will intimate the slot wise interstate sale schedule. The injected power remains over and above that shall be allotted for TANGEDCO, CPP wheeling and third party commitments provisionally. Final settlement shall be in line with deviation settlement of those generators on calendar month.

(4) Deviation Settlement for Generators having Inter –state sale commitments and TANGEDCO commitments (Firm and infirm power):

(i) In a block, if the actual generation is more than their inter- state sale commitments and not exceeding their total commitments including TANGEDCO firm and infirm commitments then deviation will not be calculated for that block. The quantum remains over and above the interstate sale scheduled quantum will be allotted first towards firm commitment and then to infirm commitments of TANGEDCO.

(ii) In a block, if the actual generation is more than their inter- state sale commitments and exceeding their total commitments including intra state commitments then the excess quantum injected will be lapsed.

(iii) In a block, if the actual generation is less than their inter- state sale commitments then the deviation upto the interstate sale commitments will be calculated and priced at the 105% of CERC notified frequency rate. Limitation in deviation volume, Additional charges for deviation beyond limit specified is also applicable as specified in (3) above. The allotment towards other commitments in that block will be nil.

(iv) Since the commercial settlement of firm and infirm power purchase by TANGEDCO is as per the provisions of Energy Purchase Agreement and is being settled at EDC level, SLDC will intimate the block wise energy available over and above the interstate sale commitments to EDC. EDC will take that block wise energy as energy injected towards firm and infirm commitments and settle in accordance to the provisions of EPA.

5.0 Monthly Energy Accounting :

The monthly scheduled energy in interstate sale commitments by the intra state private generators will be computed and tallied with the provisional REA prepared by the SRPC. The same will then be intimated to the generators / EDCs through website /e- mail as State Energy Accounting statement (SEA). If any change in scheduled energy in line with the final REA, the final deviation settlement shall be done based on the final REA issued by the SRPC.

6.0 Open Access charges :

(i) The SRLDC (for the interstate bilateral sale transactions) and Power Exchange (for sale though power exchange) will collect and disburse the state transmission charges and scheduling charges to TANTRANSCO collection account for the quantum scheduled at SR periphery. The same will be verified and intimated to the Chief Financial Controller / TANTRANSCO for confirmation of the amount received.

(ii) The transmission charges to be paid by the intra state generators for the excess power injection towards regional and loss component will be computed and intimated to the generators by SLDC for making payment.

7.0 Reactive Energy Charges:-

In line with the regulatory provisions, the reactive Energy charges if applicable shall also be claimed.

8.0 Payment Mechanism:-

(i) A statement of Charges for Deviation including Additional Charges for deviation shall be prepared by the SLDC on monthly basis and uploaded in the SLDC website. All payments related to deviation accounting shall be credited to the "State Deviation Pool Account Fund" maintained and operated by the SLDC.

(ii) Till such time "State Deviation Pool Account Fund" is created at SLDC, the payment may be made in the following Bank account.

Name of the Bank	: Canara Bank
Branch	: Mount Road, Chennai -2
Account No.	: 0911201022266
IFSC	: CNRB0000911

(iii) SLDC will disburse the deviation charges credited to the TANGEDCO account.

(iv)Any additional deviation charges for deviation collected shall be retained in the State deviation pool account.

(v) The payment of charges for deviation shall pay the indicated amounts within 10 (ten) days of the issue of deviation statement by SLDC.

(vi) If the payments are delayed more than two days ie beyond twelve (12) days from the date of issue of deviation statement by SLDC, the defaulting generator shall have to pay simple interest @0.04% for each day of delay.

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Superintending Engineer/OA&CO