

ORDER

Sub: Energy Accounting Methodology for Operationalisation of JSERC (Operation of Parallel Licensees) Regulations, 2019

The Commission has notified the 'Jharkhand State Electricity Regulatory Commission (Operation of Parallel Licensees) Regulations, 2019' in February 2019. The JSERC (Operation of Parallel Licensees) Regulations, 2019 has Clause 7.6 (iv) which reads as below:

“ 7.6 Energy Accounting

...

iv. Monthly settlement of energy shall be done between Distribution Licensees as per SLDC certification, and any surplus/ deficit, shall be receivable / payable at the rate of approved per unit weighted average power purchase cost of respective licensee. The settlement and any other issues in energy accounting shall be dealt with the by Co-ordination committee.”

This Order is issued with reference to the methodology required for Energy Accounting of Parallel Licensees in the State of Jharkhand. The Commission has observed that a situation specific methodology has to be provided for operationalisation of the Parallel Licensees in Energy Accounting. The State Level Co-ordination Committee, formed as per the said Regulations, has held various meetings dated 11.06.2019, 12.09.2019, 03.10.2019, 29.11.2019 and 05.12.2019 for finalisation of the methodology to be considered for Energy Accounting. The Commission, in consultation with the Committee, has arrived at the following methodology.

Methodology:

The Commission has observed two scenarios may arise wherein two Licensees may be:

- i. Directly Interconnected
- ii. Not Directly Interconnected

Directly Interconnected:

The Deviation Settlement Mechanism shall be carried out between the schedule and actual drawal. If the power of changed-over consumer on Wire Distribution Licensee's network will be transacted from Supply Distribution Licensee via same network through which the schedule mode power is transacted, Supply Distribution Licensee will schedule separate power at its boundary for its consumer considering the system loss on Wire Distribution Licensee's network, which will be added to the schedule of power of Wire Distribution Licensee. The block wise actual drawal of the changed-over consumer considering the loss in Wire

Distribution Licensee’s system will be subtracted from the block wise summated meter reading of all the feeders through which the power was transacted from Supply Distribution Licensee to Wire Distribution Licensee. The subtracted energy will be considered as the actual drawal of Wire Distribution Licensee. The deviation settlement mechanism will be computed on the basis of ‘the schedule made for Wire Distribution Licensee’ and ‘the subtracted energy which will be considered as actual drawal of Wire Distribution Licensee’.

Illustration:

Payment by SDL to WDL:

For Units Transacted between SDL and WDL & Consumers and accounting of UI:

DVC Supplies power to JBVNL though Schedule mode of supply from KTPS. Suppose JBVNL got schedule for its own consumption of 550 MW. DVC has one industrial consumer (CD 20MW) on JBVNL Network where the schedule mode power is supplied (i.e. 36 off take points).

DVC has done one demand estimation of that consumer and prepared a 15 minute block wise top up schedule on JBVNL Schedule. So JBVNL’s net schedule will be 570MW.

Here the consumer is an industrial consumer, so, 15 minute block wise data will be available.

Schedule of JBVNL at DVC Boundary	Top Up Schedule made by DVC for its own consumer on JBVNL Network at DVC Boundary	Total Schedule for JBVNL At DVC Boundary	Total Drawal of JBVNL including DVC Consumer at DVC Boundary	Actual Drawal of DVC Consumer on JBVNL Network at DVC Boundary	Actual Drawal of JBVNL at DVC Boundary	Overall UI
550	20	570	575	25	550	-5
550	20	570	569	20	549	1
550	20	570	572	23	549	-2
550	15	565	570	21	549	-5
550	15	565	569	22	547	-4
550	15	565	566	19	547	-1
550	15	565	577	24	553	-12

Overall UI	UI due to DVC Consumer	UI due to JBVNL
-5	-5	0
1	0	1
-2	-3	1
-5	-6	1
-4	-7	3
-1	-4	3
-12	-9	-3

For Wheeling: Billed Energy x Wheeling Charges of WDL.

where,

$$\text{Billed Energy} = \frac{\text{Consumer's Metered Consumption}}{(1 - \text{WDL Loss}\%)}$$

Not Directly Interconnected:

In case there is no interconnection between the Supply Distribution Licensee and the Wire Distribution Licensee, the methodology would be as below:

The respective amount of energy consumed by changed-over consumer to be procured by the Wire Distribution Licensee, based on plans provided by Supply Distribution Licensee. The Supply Distribution Licensee shall pay the Wire Distribution Licensee based on weighted average power purchase cost of the Wire Distribution Licensee as specified in the Tariff order of the current period. The latest values approved by the Commission, which shall be used for final calculation of all transactions is be as below till it is not revised by the Commission:

Discom	Wheeling Charges	Approved Losses	APPC
	(Rs./kWh)	(%)	(Rs./kWh)
DVC	0.00	3.23%	4.34
JBVNL	0.16	14.00%	4.69
JUSCO	0.48	2.00%	4.34
SAIL	0.24	6.00%	5.07
TSL	0.35	3.35%	4.08

Illustration:

In a month the Changed-over Consumer of contracted load of 2 kW consumes 100 kWh (as per meter installed at the consumer premises) and Supply Distribution Licensee doesn't inject any power into the Wire Distribution Licensee system. Say, approved loss of the Wire Distribution Licensee is 10%, the approved loss of the Supply Distribution Licensee is 3%, the weighted average power purchase cost of the Wire Distribution Licensee is Rs. 4/kWh and Wheeling Charges of the Wire Distribution Licensee is Rs. 0.50/kWh and Supply Distribution Licensee is Rs. 0.35/kWh. Then the calculations are detailed as below:

Payment by SDL to WDL (i+ii):

i. For Units Sold:

Billed Energy x APPC of WDL

Calculation: 100/0.9x4= Rs. 444.44

ii. For Wheeling:

Billed Energy x Wheeling Charges of WDL.

Calculation: 100/0.9 x 0.50= Rs. 55.55

Payment by Consumer to SDL for both the Cases (Directly Connected and Non Directly Connected) (a+b):

a. For Units Sold:

Billed Energy x (Applicable Tariff- SDL Wheeling Charges)

Calculation: $100/0.9 \times (5 \text{ (Tariff Assumed*)} - 0.35) = \text{Rs. } 516.67$

* Tariff includes Energy Cost, Fixed Cost, Rebates, Surcharges, etc., that are applicable for the SDL.

b. For Wheeling:

Billed Energy x WDL Wheeling Charges

Calculation: $100/0.9 \times 0.5 = \text{Rs. } 55.55$

Disconnection/Reconnection:

The Commission is of the considered opinion that Disconnection/Reconnection is to be done jointly by the Supply and Wire Distribution Licensees.

The Commission has proposed this methodology based on the discussion with the State Level Co-ordination Committee and issues during implementation shall be managed by the Area Level Co-ordination Committee as per Regulation 5.3 of the JSERC (Operation of Parallel Licensees) Regulations, 2019:

“5.3 The Area level Co-ordination Committee shall be responsible for co-ordination and information flow between the Distribution Licensees. The Area level Co-ordination Committee shall also develop rules for energy accounting and work collaboratively to sort out any issues, which may arise during implementation at local area level. Each Area level Co-ordination Committee under supervision of State level Co-ordination Committee shall frame rules for the conduct of business, detailed procedure of parallel operation, resolution of disputes, common formats and application forms if any, consistent with provisions of these regulations and the provisions of other applicable regulations. The formats, rules etc. upon finalisation by the State level Co-ordination Committee shall be submitted to the Commission for approval within sixty (60) days from the date of notification of these regulations. The State level Co-ordination Committee shall oversee the overall implementation of the Regulations in the State. The Area level Co-ordination Committee shall also function as the first level for dispute resolution for all the functions provided in the Regulation. In case, any issues are not resolved at the Area level Co-ordination Committee, it can be referred to the State level Co-ordination Committee.”

In case of any difficulty, the Commission would invoke its power under Regulations A8 and A9 of the JSERC (Operation of Parallel Licensees) Regulations, 2019, to resolve any issue in operation of Parallel Licensees.

By the Order of the Commission

Sd/-

(Rajendra Prasad Nayak)

Secretary