

4. Service Provider shall ensure that its cloud & communication facility is flexible to accommodate any operational or regulatory change.
5. If a meter is installed by the Service Provider in series with Distribution Licensee's meter and this meter becomes defective, then it shall be incumbent upon the Service Provider to replace its meter within 24 hours.

## 12. Roles and responsibilities of Licensee

1. Licensee shall work with the Service Provider to integrate their systems.
2. To ensure that metering is in order, if a defect emerges in the Distribution Licensee's meter of a P2P participant, the Distribution Licensee shall replace the meter as per provisions of Electricity Supply Code.
3. If the distribution system is under outage, then no penal imposition will be made on either P2P Prosumer or P2P Consumer for the failure to transact as per committed transaction. However, UPERC Standards of Performance Regulations shall be applicable for P2P Consumer.

## 13. Power to Amend

The Commission may, at any time add, vary, alter, modify or amend any provision of these guidelines.

## 14. Power to Remove Difficulty


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

## 15. Powers 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, may relax any of the provisions of these guidelines on its own motion or on an application made before it by the affected party.

## 16. Redressal Mechanism

If there is any dispute between the P2P participant and licensee/Service Provider, then the P2P participant shall approach the corresponding CGRF. If there is any dispute between the Distribution Licensee and Service Provider, then Distribution Licensee/Service Provider shall approach the Commission.

  
(V.K. Srivastava)  
Member (Law)

  
(Raj Pratap Singh)  
Chairman

Place: Lucknow  
Dated: 05-04-2023



# ANNEXURE 1

Sample Bill of Prosumer (Commercial) No Imbalance			
	Details		Unit
A	Energy Purchased from Discom	15,000.00	kWh
B	P2P Scheduled Energy	2,800.00	kWh
C	Energy Sold to P2P Platform	2,800.00	kWh
D	Contracted Demand	20.00	KW
G	Load on P2P Platform	20.00	KW
H	Energy Charges For energy supplied by Discom	8.75	Rs./kWh
I	Demand Charges For energy supplied by Discom	450.00	Rs./kW
J	Wheeling charges	0.92	Rs./kWh
K	Transaction Charge (on P2P transaction)	0.21	Rs./kWh
L	Mutually agreed transaction price (assumed to be same for all time blocks)	5.00	Rs./kWh

Bill for Prosumer by Discom			
M	Energy Charges For energy supplied by Discom (1000*7.5+(H*(A-1000)))	1,30,000.00	Rs.
N	Demand Charges For energy supplied by Discom (D*I)	9,000.00	Rs.
O	Total (M+N)	1,39,000.00	Rs.

Bill for transaction on P2P Platform			
Receivable			
P	Receivable from energy sold on P2P (C*L)	14,000.00	Rs.
Q	Receivable from over injection into grid (@Rs.3.58375/kWh)	-	Rs.

Charges			
R	Under Injection Charges	-	Rs.
S	Service Provider Transaction Charges (B*K)	588.00	Rs.

T	Total amount payable towards Discom charges (O+R)	1,39,000.00	Rs.
U	Total Receivable towards P2P and over injection (P+Q)	14,000.00	Rs.
V	Service Provider Transaction Charges Payable (S)**	588.00	Rs.
W	Net amount payable (T-U+V)	1,25,588.00	Rs.

\*\*Discom to remit these charges to Service Provider

## Benefit analysis for Prosumer

Case 1: Gross Metering Arrangement			
AA	Rate/unit for Gross Metering arrangement	3.58375	
AB	Revenue from Energy Sold under Gross Metering Arrangement (C*AA)	10,034.50	
AC	Net benefit from Energy Sold under P2P (U-V)	13,412.00	
AD	Net Benefit of P2P vs Gross Metering (AC - AB)	3,377.50	

Case 2: Net Metering (Assuming 100% self consumption. Assuming Net Metering was granted to Commercial Prosumer prior to UPERC RSPV Regulations, 2019)			
AE	Saving by net metering (C*H)	24,500.00	
AF	Net benefit from Energy Sold under P2P (U-V)	13,412.00	
AG	Net Benefit of P2P vs Net Metering (AF - AE)	-11,088.00	

Case 3: Net Feed In				
	50% self consumption	20% self consumption	0% self consumption	
AH	Rate/unit for Net Feed In arrangement	3.58375	3.58375	3.58375
AI	Percent self consumption in Net Feed In	50.0%	20.0%	-
AJ	Saving by self consumption (C*H*AI)	12,250.00	4,900.00	-
AK	Revenue from Energy Sold under Net Feed In Arrangement [C*AH*(1-AI)]	5,017.25	8,027.60	10,034.50
AL	Net benefit under Net Feed In arrangement (AJ + AK)	17,267.25	12,927.60	10,034.50
AM	Net benefit from Energy Sold under P2P (U-V)	13,412.00	13,412.00	13,412.00
AN	Net Benefit of P2P vs Net Feed In Metering (AM - AL)	-3,855.25	484.40	3,377.50

(Situation is akin to Gross Metering)

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## ANNEXURE 2

Sample Bill of Prosumer (Commercial) Under Injection			
	Details		Unit
A	Energy Purchased from Discom	15,000.00	kWh
B	P2P Scheduled Energy	2,800.00	kWh
C	Energy Sold to P2P Platform	2,400.00	kWh
D	Contracted Demand	20.00	KW
G	Load on P2P Platform	20.00	KW
H	Energy Charges For energy supplied by Discom	8.75	Rs./kWh
I	Demand Charges For energy supplied by Discom	450.00	Rs./kW
J	Wheeling charges	0.92	Rs./kWh
K	Transaction Charge (on P2P transaction)	0.21	Rs./kWh
L	Mutually agreed transaction price (assumed to be same for all time blocks)	5.00	Rs/kWh

Bill for Prosumer by Discom			
M	Energy Charges For energy supplied by Discom (1000*7.5+(H*(A-1000)))	1,30,000.00	Rs.
N	Demand Charges For energy supplied by Discom (D*I)	9,000.00	Rs.
O	Total (M+N)	1,39,000.00	Rs.

Bill for transaction on P2P Platform			
Receivable			
P	Receivable from energy sold on P2P (C*L)	12,000.00	Rs.
Q	Receivable from over injection into grid @Rs.3.58375/kWh	-	Rs.

Charges			
R	Under Injection Charges [(B-C)*(H-L)]	1,500.00	Rs.
S	Service Provider Transaction Charges (B*K)	588.00	Rs.

T	Total amount payable towards Discom charges (O+R)	1,40,500.00	Rs.
U	Total Receivable towards P2P and over injection (P+Q)	12,000.00	Rs.
V	Service Provider Transaction Charges Payable (S)**	588.00	Rs.
W	Net amount payable (T-U+V)	1,29,088.00	Rs.

\*\*Discom to remit these charges to Service Provider

### Benefit analysis for Prosumer

Case 1: Gross Metering Arrangement			
AA	Rate/unit for Gross Metering arrangement	3.58375	
AB	Revenue from Energy Sold under Gross Metering Arrangement (C*AA)	8,601.00	
AC	Net benefit from Energy Sold under P2P (U-R-V)	9,912.00	
AD	Net Benefit of P2P vs Gross Metering (AC - AB)	1,311.00	

Case 2: Net Metering (Assuming 100% self consumption. Assuming Net Metering was granted to Commercial Prosumer prior to UPERC RSPV Regulations, 2019)			
AE	Saving by net metering (C*H)	21,000.00	
AF	Net benefit from Energy Sold under P2P (U-R-V)	9,912.00	
AG	Net Benefit of P2P vs Net Metering (AF - AE)	-11,088.00	

Case 3: Net Feed In				
		50% self consumption	20% self consumption	0% self consumption
AH	Rate/unit for Net Feed In arrangement	3.58375	3.58375	3.58375
AI	Percent self consumption in Net Feed In	50.0%	20.0%	-
AJ	Saving by self consumption (C*H*AI)	10,500.00	4,200.00	-
AK	Revenue from Energy Sold under Net Feed In Arrangement [C*AH*(1-AI)]	4,300.50	6,880.80	8,601.00
AL	Net benefit under Net Feed In arrangement (AJ + AK)	14,800.50	11,080.80	8,601.00
AM	Net benefit from Energy Sold under P2P (U-R-V)	9,912.00	9,912.00	9,912.00
AN	Net Benefit of P2P vs Net Feed In Metering (AM - AL)	-4,888.50	-1,168.80	1,311.00

(Situation is akin to Gross Metering)

### ANNEXURE 3

Sample Bill of Prosumer (Commercial) Over Injection Gross Metering and Net Feed In			
	Details		Unit
A	Energy Purchased from Discom	15,000.00	kWh
B	P2P Scheduled Energy	2,400.00	kWh
C	Energy Sold to P2P Platform	2,800.00	kWh
D	Contracted Demand	20.00	KW
G	Load on P2P Platform	20.00	KW
H	Energy Charges For energy supplied by Discom	8.75	Rs./kWh
I	Demand Charges For energy supplied by Discom	450.00	Rs./kW
J	Wheeling charges	0.92	Rs./kWh
K	Transaction Charge (on P2P transaction)	0.21	Rs./kWh
L	Mutually agreed transaction price (assumed to be same for all time blocks)	5.00	Rs/kWh

Bill for Prosumer by Discom			
M	Energy Charges For energy supplied by Discom (1000*7.5+(H*(A-1000)))	1,30,000.00	Rs.
N	Demand Charges For energy supplied by Discom (D*I)	9,000.00	Rs.
O	Total (M+N)	1,39,000.00	Rs.

Bill for transaction on P2P Platform			
Receivable			
P	Receivable from energy sold on P2P (B*L)	12,000.00	Rs.
Q	Receivable from over injection into grid @Rs.3.58375/kWh [(C-B)*3.58375]	1,433.50	Rs.

Charges			
R	Under Injection Charges	-	Rs.
S	Service Provider Transaction Charges (B*K)	504.00	Rs.

T	Total amount payable towards Discom charges (O+R)	1,39,000.00	Rs.
U	Total Receivable towards P2P and over injection (P+Q)	13,433.50	Rs.
V	Service Provider Transaction Charges Payable (S)**	504.00	Rs.
W	Net amount payable (T-U+V)	1,26,070.50	Rs.

\*\*Discom to remit these charges to Service Provider

#### Benefit analysis for Prosumer

Case 1: Gross Metering Arrangement			
AA	Rate/unit for Gross Metering arrangement	3.58375	
AB	Revenue from Energy Sold under Gross Metering Arrangement (C*AA)	10,034.50	
AC	Net benefit from Energy Sold under P2P (U-V)	12,929.50	
AD	Net Benefit of P2P vs Gross Metering (AC - AB)	2,895.00	

Case 2: Net Feed In		50% self consumption	20% self consumption	0% self consumption
AH	Rate/unit for Net Feed In arrangement	3.58375	3.58375	3.58375
AI	Percent self consumption in Net Feed In	50.0%	20.0%	0.0%
AJ	Saving by self consumption (C*H*AI)	12,250.00	4,900.00	-
AK	Revenue from Energy Sold under Net Feed In Arrangement [C*AH*(1-AI)]	5,017.25	8,027.60	10,034.50
AL	Net benefit under Net Feed In arrangement (AJ + AK)	17,267.25	12,927.60	10,034.50
AM	Net benefit from Energy Sold under P2P (U-V)	12,929.50	12,929.50	12,929.50
AN	Net Benefit of P2P vs Net Feed In Metering (AM - AL)	-4,337.75	1.90	2,895.00

(Situation is akin to Gross Metering)

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