

No.13/05/2023-RCM/NRE
Government of India
Ministry of Power
RCM Division
NRE Section

Shram Shakti Bhawan, Rafi Marg,
New Delhi, 25th October 2023


To
The Chairman & Managing Director,
Grid India

**Subject: Approval of Procedure for Implementation of Uniform Renewable Energy
Tariff.**

Sir,

I am directed to refer to the above subject and to enclose herewith the Procedure for Implementation of Uniform Renewable Energy Tariff duly approved by the **Hon'ble Minister for Power and New & Renewable Energy** for further necessary action at your end.

Yours faithfully,

A. Suresh 25/10/2023

(Suresh Annepu)
Director

Tel: 011-2371 7737

PROCEDURE FOR IMPLEMENTATION OF UNIFORM RENEWABLE ENERGY TARIFF

In compliance of
Ministry of Power, Government of India
Electricity (Amendment) Rules, 2022,
Notified on 29th Dec 2022



ग्रिड-इंडिया
GRID-INDIA

OCTOBER 2023
GRID CONTROLLER OF INDIA LIMITED

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ABBREVIATION

IA	Implementing Agency
DISCOM	Distribution Licensee
EP	End Procurer
IP	Intermediary Procurer
PPA	Power Purchase Agreement
PSA	Power Sale Agreement
RE	Renewable Energy
URET	Uniform Renewable Energy Tariff

1. DEFINITIONS AND TERMS INVOLVED.

1. **Act-** means the Electricity Act, 2003
2. **Central Pool**-shall be pool of category specific power from Inter State Transmission System connected renewable energy sources being procured by the designated intermediary procurers under section 63 of the Act and as per provisions of bidding guidelines notified by the Central Government, from time to time for supply to the end procurers of more than one State so that such power from renewable energy sources can be supplied to all end procurers from the concerned pool at uniform tariff under these procedures..
3. **End Procurer**—shall be the persons to whom a license to undertake distribution and retail supply of electricity has been granted under section 15 of the Act or is designated by the State Government to procure power on behalf of the licensees undertaking distribution and retail supply of electricity or open access consumer.

Note: For the Purpose of this procedure, Deemed distribution licensees will also be considered as End Procurer
4. **Implementing Agency**- means the Central Agency as notified by the Central Government from time to time for the implementation of “uniform renewable energy tariff for central pool” under these procedures.
5. **Intermediary Procurer**-shall be the company, designated by an order made by the Central Government under Electricity (Amendment) Rules 2022.
6. **Renewable Energy**—shall be the electricity generated from renewable energy sources.
7. **Renewable Energy Sources**- shall be hydro, wind, solar, bio-mass, bio-fuel, bio-gas, waste including municipal and solid waste, geothermal, tidal, forms of oceanic energy, or combination thereof, with or without storage and such other sources as may be notified by the Central Government from time to time;
8. **Uniform Renewable Energy Tariff** -shall be the tariff, computed by Implementing Agency separately on a monthly basis for each category of central pool specified under clause 3.1 of this procedure, at which the intermediary procurer will sell power from renewable energy from that central pool to all the end procurers under these procedures.
9. **Trading Margin** –shall be the margin levied by the Intermediary Procurer as per respective Power Sale Agreements executed with End Procurer.

2. **OUTLINE:**

2.1. Ministry of Power has notified Electricity (Amendment) Rules 2022 for, inter-alia, implementation of uniform renewable energy tariff on 29th Dec 2022. Under these rules, an Implementing Agency shall compute ‘uniform renewable energy tariff’, on a monthly basis for each category of central pool like that Solar Power Central Pool, Wind Power Central Pool, etc. at which the intermediary procurer shall sell power from renewable energy from that central pool to all the end procurers. As per proviso 2(ac) of the Electricity (Amendment) Rules 2022, ‘Implementing Agency’ has been defined as the Central Agency, as notified by the Central Government from time to time, for the implementation of ‘uniform renewable energy tariff for central pool’. MoP vide order dated 17.03.2023 has notified Grid-India as the Implementing Agency for the implementation of ‘uniform renewable energy tariff for central pool’. This procedure is made in compliance to the proviso 19(n) of the Electricity (Amendment) Rules 2022 for implementation of uniform renewable energy tariff.

2.2. Words and expressions used in these Procedures and not defined herein but defined in the Act, Electricity Rules or any other Rules issued by the Central Government will have the same meaning assigned to them respectively in the Act, the Electricity Rules or any other Rules issued by the Central Government.

3. **GENERAL**

General Conditions of Electricity (Amendment) Rules,2022 for Uniform Renewable Energy Tariff for Central Pool.

3.1. There will be a different category of central pool for each of the following sectors of the renewable energy sources such as–

- i. Solar Power Central Pool
- ii. Wind Power Central Pool
- iii. Hydro Power Central Pool
- iv. Solar-Wind Hybrid Central Pool
- v. Round the Clock Power (Solar Wind Hybrid + Storage) Central Pool
- vi. Peaking Power (Solar Wind Hybrid + Storage) Central Pool
- vii. Firm and Dispatchable RE Power
- viii. Any other new pool as specified by the Central Government

Note:

1. Renewable Energy Sources definition will be as per the definition notified by the Central Government from time to time

2. There may be more than one category of Central Pool for Solar-Wind Hybrid Central Pool, Round the Clock Power (Solar Wind Hybrid + Storage) Central Pool and Peaking Power (Solar Wind Hybrid + Storage) Central Pool depending upon the technology, generation mix, etc. as decided by the Central Government.

3.2. The start date of each category of central pool will be separately notified by Central Government. The duration of the central pool will be for five years. All the capacity for which PSA is signed within this duration of 5 years will be part of the Central Pool, provided, other eligibility conditions are fulfilled. After the end of the duration of five years from the start date of the pool, no new capacity will be added to the pool. All such capacity will remain part of the pool till the expiry of their respective Agreement. The URET of this pool will be calculated considering energy from such capacities only.

Further, after the end of five years from the start date of the central pool of any renewable energy source, a new Central Pool of that renewable energy source maybe formed. All new participants of the pool may be added in the new pool.

Illustration:

Say, start date of Solar Central Pool is 01.01.2024. Then, the Solar Power Capacity under the URET mechanism, whose PSA date lies between 01.01.2024 and 31.12.2028, shall be part of this pool. On 31.12.2028, this Central Pool will be freezed and the pool will remain in existence till the PSAs of all the participants of the pool expires. The URET for this pool will be calculated based on the data of the participants of this pool only. Any Solar Power Capacity, whose PSA is signed on or after 01.01.2029 will be part of a new Solar Central Pool, having capacity addition for further 5 years' duration. The URET for this new pool will be calculated separately.

3.3. The Uniform Renewable Energy Tariff for Central Pool (URET) under these procedures will be applicable only to the end procurers for their contracted capacity which forms part of central pool..

3.4. The Uniform Renewable Energy Tariff for Central Pool (URET) will be applicable only to power procured by the End Procurer and will not in any manner have any implication on the renewable energy tariff discovered under the respective tariff based competitive bidding process and payable to renewable energy generators by the Intermediary Procurer as per the PPA.

3.5. An IP will ensure that the bidding documents including PPA and PSA, have suitable provisions aligned with the relevant proviso of Electricity (Amendment) Rules 2022 pertaining to the Uniform RE Tariff and these procedures. Further, respective IP will also

ensure that there is no deviation from the Standard Bidding Guidelines (SBG) as issued by the Central Government from time to time.

- 3.6. In case of any deviation from SBG, the IP inviting bids shall obtain all necessary approvals including approval of Hon'ble Central Commission or Central Government (as applicable) before commissioning and supply of Power from such capacity failing which such capacity shall not form part of the pool till the time of approval of such deviation(s).
- 3.7. The bilateral scheduling from the renewable energy generators shall be done directly to the end procurers as per the power supply agreement.
- 3.8. The scheduling, accounting, deviation settlement mechanism of the renewable sources under this mechanism will be as per extant regulations of the Appropriate Commission.
- 3.9. The sale of electricity due to excess generation/early commissioning shall be governed by the respective PPA/PSA, Standard Bidding guidelines and as per extant Rules/Regulations.
- 3.10. In case the End Procurer does not schedule electricity from generating stations, it shall be treated as per provisions of the extant Rules/Regulations.
- 3.11. The Implementing Agency will compute the Uniform Renewable Energy Tariff for selling of electricity to end procurer by intermediary procurer, on a monthly basis, as per the methodology specified at Clause 10 of this procedure.
- 3.12. The intermediary procurer will raise the bill, on a monthly basis, as per the uniform renewable energy tariff computed by the Implementing agency for the relevant month and in accordance with the terms of the respective Power Sale Agreement.
- 3.13. The Implementing Agency shall also issue the monthly account statements for adjustment of any surplus or deficit tariff among the intermediary procurers and the Intermediary Procurer shall within fifteen days make the payment as per the monthly account statements to the other intermediary procurer, if the payment is due to it. This adjustment will be carried out separately for each Central pool as identified under these Procedures.
- 3.14. In case of non-payment by the Intermediary Procurer of its due as per clause 3.13 above, within the stipulated period of fifteen days, the carrying cost at the rate of State bank of India Marginal Cost of Funds based Lending Rate (1 Year tenor) plus five percent will be payable for the period of delay.
- 3.15. The trading margin shall be payable by the end procurer to the intermediary procurer.

4. ELIGIBILITY CRITERIA FOR ENTITIES TO BECOME ELIGIBLE UNDER CENTRAL POOL

4.1. **Generator/Producer's Capacity**

Part or Full capacity of a Generator of the Renewable Energy Source as defined in this procedure will be eligible to be a part of the Central Pool if it fulfills **all** the following conditions:

- 4.1.1. Generator/Producer will be based on a Renewable Energy Source (RESs); **and**
- 4.1.2. Generator/Producer will be connected at Inter State Transmission System; **and**
- 4.1.3. Energy from the Generator/Producer will be procured by the designated intermediary procurers under section 63 of the Act and as per provisions of bidding guidelines notified by the Central Government from time to time,; **and**
- 4.1.4. The PSA for such capacity of the Generator with the Intermediary Procurer has been done after the start date of the respective Central Pool.

4.2. **End Procurer**

An End procurer as defined in this procedure will be eligible to be a part of the Central Pool if it fulfills the following condition:

- 4.2.1. It has a license to undertake distribution and retail supply of electricity granted under section 15 of the Act or is designated by the State Government to procure power on behalf of the licensees undertaking distribution and retail supply of electricity AND it must obtain approval from the relevant State Commission before procuring electricity from a pool at URET,**OR**
- 4.2.2. It is an open access consumer.

4.3. **Intermediary Procurer**

An Intermediary Procurer as defined in this procedure will be eligible to be a part of the Central Pool if it fulfills the following condition:

- 4.3.1. The Intermediary Procurer is designated by an order made by the Central Government as an intermediary between the end procurer and the generating company to purchase electricity from generating companies and resell it to the end procurer by aggregating the purchases.
- 4.3.2. The Intermediary Procurer Company should have a valid trading license.

5. **FUNCTIONS AND ROLE OF IMPLEMENTING AGENCY**

Following are the functions of Implementing Agency:

- 5.1. The Implementing Agency will compute the uniform renewable energy tariff on a monthly basis, based on information submitted by the Intermediary Procurer.
- 5.2. Implementing Agency will issue the monthly account statements for adjustment of any surplus or deficit tariff among the intermediary procurers, based on information submitted by the Intermediary Procurer.
- 5.3. The Implementing Agency will publish the relevant details including the monthly accounts statements, on its website and will have no liability except for computing tariff on a monthly basis for sale of power from the central pool as per these procedures and will be kept indemnified.
- 5.4. The procedure for implementation of uniform renewable energy tariff for central pool is issued by the implementing agency, with the approval of the Central Government. Any modifications in these procedures may be made with the approval of the Ministry of Power.

6. REGISTRATION OF INTERMEDIARY PROCURER:

To participate in the mechanism of Uniform Renewable Energy Tariff as per the Electricity (Amendment) Rules 2022, the Intermediary Procurer will register with the Implementing Agency, which will be a one-time exercise.

Following are the steps to be followed by Intermediary Procurer for getting registered with the Implementing Agency:

- 6.1. Submit the general details of Intermediary Procurer as per format-A of this procedure.
- 6.2. Submit Copy of order issued by the Central Government designating it as an Intermediary Procurer.
- 6.3. Copy of valid trading license.
- 6.4. Submit the declaration available at Format- B of these procedures.
- 6.5. The details of each scheme needs to be submitted to Implementing Agency by sharing all relevant PPA/PSA. The Intermediary Procurer will also submit the approval from the Appropriate Commission allowing the end Procurer to procure electricity through URET mechanism. The details of scheme along with the associated information will be submitted in the excel form as per the Format C.

7. COMPUTATION OF UNIFORM RE TARIFF FOR CENTRAL POOL (URET)

Computation and declaration of URET for each central pool as mentioned in para 3.1 above involves submission of data by the Intermediary Procurer, verification of this data by RLDCs and calculation of the Tariff by the Implementing Agency.

7.1. Submission of Data:

7.1.1. Intermediary Procurer (IP) shall submit the schedule energy details of all the relevant PPAPSA as per the details mentioned in regional energy account (REA) published by the respective RPCs where the generator is located to the Implementing Agency with a copy to the Respective RLDC within 4 days of publication of REA. .

7.1.2. The data will have the following information: Capacity Contracted, Tariff as per PPA and PSA, Category of Source Pool or any other details as sought by Implementing Agency from time to time. In case of Energy sold from the Central Pool to entities who are not end Procurers the Intermediary Procurer will also submit its detail along with the price. The data format for the collection of data for a particular category of Pool is attached at Format –D of these procedures.

7.1.3. The Intermediary Procurer will submit PPA and PSA for the capacity which is part of the Central Pool.

7.1.4. In case of addition of new Capacity (including the part capacity) to the Central Pool, the Intermediary Procurer will submit the related PPA and PSA to the Implementing Agency. The Energy transaction data from this additional capacity will be submitted as per the routine procedure, i.e., along with the data of the next month.

7.1.5. If there is modification in the Central Pool due to change in the PPA /PSA affecting the contracted capacity or change in End Procurer, the Intermediary Procurer shall submit the related PPA and PSA to the Implementing Agency as per the routine procedure, i.e., along with the data of the next month.

7.2. Data verification by RLDC:

7.2.1. The data submitted by the Intermediary Procurer will be verified by the respective RLDC where the generator is geographically located within 3 days and submit the details to Intermediary Procurer.

7.2.2. In case of any discrepancy observed or any further clarification/details required by the respective RLDCs, the same shall be informed to Intermediary Procurer within 2 working days after the receipt of the data by the concerned RLDCs.

7.2.3. The Intermediary Procurer within 3 working days shall provide the clarification/ details as sought under clause 7.2.2 to the concerned RLDCs.

7.2.4. After final receipt of the data the RLDCs shall verify the details within 2 working days and submit the details to the Implementing Agency.

7.3. Calculation of Tariff:

7.3.1. Subsequent to verification of data by RLDC, the data is aggregated at each Source-wise Central Pool. Implementing Agency will compute the tariff within 3 working days for each Source-wise Central Pool.

7.3.2. Implementing Agency will publish Uniform Renewable Energy Tariff for each Source-wise Central Pool on its website within 3 working days of receiving the verified data from the RLDCs.

7.3.3. The Tariff for the month shall be calculated by aggregating, for each source of RE, all the amount to be paid for the energy supplied as per the tariff (including trading margin) in the PSA and divided by the total scheduled energy of the plant/scheme qualified under this scheme.

7.3.4. The details of such calculation shall be published by the Implementing Agency on monthly basis each Source-wise Central Pool on its website along with the Uniform Renewable Energy Tariff for the (source-wise) Central Pool. Method for calculation of uniform tariff for central pool is given in clause 10 of this procedure.

7.4. Monthly Account Statements for adjustment of any surplus or deficit tariff among the Intermediary Procurers

7.4.1. The Implementing Agency shall issue Monthly Account Statements for adjustment of any surplus or deficit tariff among the Intermediary Procurers

7.4.2. The Tariff Adjustment Addend and Monthly Account Statements (as per format E) as specified above shall be published by the Implementing Agency within 7 days of submission of data by Intermediary Procurer and verification of the data by RLDC of all the Intermediary Procurers.

7.4.3. In case there is any revision in the REA, the Implementing Agency will recalculate the Uniform Renewable Energy Tariff of the respective Pool, Monthly Account Statements for adjustment of any surplus or deficit tariff among the Intermediary Procurers (if any), and Tariff Adjustment addend (if any). This revision will be done by the Implementing Agency only once in a month, if required.

7.4.4. The Intermediary Procurer shall within fifteen days make the payment as per the monthly account statements to the other intermediary procurer, if the payment is due to it. In case of non-payment within the stipulated period of fifteen days, the carrying cost at the rate of

State bank of India Marginal Cost of Funds based Lending Rate (1 year tenor) plus five percent will be payable for the period of delay.

8. LEGAL OBLIGATIONS

8.1. All the contractual obligations between power generators and intermediary procurer and intermediary procurer and end procurer including but not limited to liquidated damages, penalties, extension charges, dispute resolutions will be governed by respective bidding document including Power Purchase Agreements, Power Sale Agreements and will have no bearing on uniform renewable energy tariff.

8.2. The impact on the tariff due to the Change in Law provisions will be in accordance with the bidding documents and will be reflected in the pooled tariff computed in accordance with these procedures.

9. INDEMNIFYING GRID CONTROLLER OF INDIA LIMITED

Grid Controller of India Limited will be indemnified against any consequences or liability, including the cost of litigation that arise on account of action taken under these procedures by the concerned end procurer, intermediary procurer, generating company.

Also, Grid Controller of India Limited will have no liability except for computing tariff on a monthly basis for sale of power from the central pool as per these procedures and will be kept indemnified.

10. METHOD FOR CALCULATION OF UNIFORM TARIFF FOR CENTRAL POOL

The tariff is calculated based on scheduled energy to end procurer from the Pool by the intermediary procurer and actual amount to be payable for such supply of power as illustrated below:

Scheme	Capacity	Tariff-PPA	Tariff-PSA	Energy Scheduled during the month	Amount to be paid to Project developers by IP under PPA	Amount to be paid to IP by EP under PSA
	(MW)	(INR/kWh)	(INR/kWh)	(MU)	(Rs in Million)	(Rs in Million)
		A	(B=A+ Rs 0.07/kWh)	C	(D=A x C)	(E= B x C)
T-I	2000	2.502	2.572	415.95	1040.70	1069.81
T-II	600	2.440	2.510	131.49	320.84	330.04

T-III	1200	2.585	2.655	248.34	641.96	659.34
T-IV	1150	2.540	2.610	234.63	595.97	612.39
T-V	480	2.613	2.683	95.97	250.72	257.44
T-VI	900	2.710	2.780	174.22	472.15	484.34
T-VIII	1200	2.502	2.572	258.60	646.92	665.03
T-IX	2000	2.372	2.442	438.30	1039.65	1070.33
Total	9530			1997.50	5008.90	5148.73

Table1: Sample data to illustrate calculation of URET

$$\text{Tariff of the Month (INR/kWh)} = \frac{\sum_i^n E}{\sum_i^n C} = \frac{\sum_1^9 E}{\sum_1^9 C} = \frac{5148.73}{1997.50} = 2.578$$

i.e. (Sum total amount to be paid under PSA for that particular month /sum total electricity supplied during that particular month) T-I to T-IX are projects forming part of the Central Pool.

Let us say above scenario is in the Month M-4. In the beginning of M-5, additional capacity of 250 MW (T-X) is getting commissioned and to be included as a part of Pool. Accordingly considering generation during month M-5, tariff for the month M-5 will be calculated considering scheduled energy during the Month M-5 as per following:

Scheme	Capacity	Tariff-PPA	Tariff-PSA	Energy Scheduled during the month	Amount to be paid to Project developers by IP under PPA	Amount to be paid to IP by EP under PSA
	(MW)	(INR/kWh)	(INR/kWh)	(MU)	(Rs in Million)	(Rs in Million)
		A	(B=A+ Rs 0.07/kWh)	C	(D=A x C)	(E= B x C)
T-I	2000	2.502	2.572	415.95	1040.70	1069.81
T-II	600	2.440	2.510	131.49	320.84	330.04
T-III	1200	2.585	2.655	248.34	641.96	659.34
T-IV	1150	2.540	2.610	234.63	595.97	612.39
T-V	480	2.613	2.683	95.97	250.72	257.44
T-VI	900	2.710	2.780	174.22	472.15	484.34
T-VIII	1200	2.502	2.572	258.60	646.92	665.03
T-IX	2000	2.372	2.442	438.30	1039.65	1070.33
T- X*	250	2.17	2.24	56.61	122.85	126.81
Total	9780			2054.12	5131.76	5275.54

Table2: Sample data to illustrate calculation of URET (addition of new generation)

$$\text{Tariff of the Month (INR/kWh)} = \frac{\sum_1^9 E + E_{10}}{\sum_1^9 C + C_{10}} = \frac{5148.73 + 126.81}{1997.50 + 56.61} = \frac{5275.54}{2054.12} = 2.568$$

i.e. (Sum total of amount to be paid under PSA for that particular month /sum total electricity supplied during that particular month)

T-I to T-X are projects forming part of the Central Pool..

FORMAT – A

Application Form for Registration of Intermediary Procurer for Uniform Renewable Energy Tariff

IP Name : _____

State : _____

Registered Address : _____

Postal Address : _____

Permanent Account Number (PAN) : _____

Corporate Identity Number (CIN) : _____

Goods and Services Tax (GSTIN) : _____

Year of Establishment : _____

Name of the Applicant : _____

Mob no : _____

Email : _____

Name of Secondary Contact : _____

Mob no : _____

Email : _____

Note: Proof of supporting documents to be submitted separately along with the application form.

FORMAT – B

DECLARATION

Declaration to be signed by the Authorised Signatory of the Intermediary Procurer

I/We certify that all information furnished above is true to the best of my/our knowledge and belief. I/We will abide by such terms and conditions that Ministry of Power/ CERC/Implementing Agency may impose from time to time, to participate in the Uniform Renewable Energy Tariff for Central Pool.

INDEMNIFICATION

I/We will keep Grid Controller of India Limited indemnified against any consequences or liability, including the cost of litigation that arise on account of action taken under these procedures/rules by the concerned end procurer, generating company or any other Intermediary Procurer.

Signature of the applicant

(Seal of the Company)

FORMAT – C

S. no	Scheme/ PPA	RE Generator (Name)	End Procurer (Name)	Type of EP (D/S/OA)	Contracted Capacity which forms part of Pool (MW)	Tariff PPA (INR/kWh)	Trader Margin (INR/kWh)	Total Tariff (INR/kWh)
					(A)	(B)	(C)	D = B+C
1								
2								
3								

Classification of Type of EP

- ✓ Type – D for the persons to whom a license to undertake distribution and retail supply of electricity has been granted under section 15 of the Act.
- ✓ Type- S for EP, designated by the State Government to procure power on behalf of the licensees undertaking distribution and retail supply of electricity.
- ✓ Type -OA for Open Access Consumer.

Declaration: The following has been ensured by M/s(Name of IP)for sharing the data of PPA/End procurer etc.

- 1. Bidding documents including PPA and PSA, have suitable provisions of Electricity Rules 2022 pertaining to the Uniform RE Tariff.**
- 2. The End procurer, other than open access consumer, has obtained approval from the appropriate commission for procuring electricity from a pool at URET.**
- 3. Energy from the Generator/Producer has been procured under section 63 of the Act and as per provisions of bidding guidelines notified by the Central Government from time to time, for the supply of renewable energy from Inter State Transmission System connected sources to end procurers of more than one state.**

Note:

1. The details in the format are to be submitted in the excel file till the time a platform for sharing the data is ready.
2. The details of PPA in the softcopy along with the relevant documents must be submitted separately, including the approval from Appropriate Commission for End Procurer to participate in the present mechanism.

FORMAT-D

The details of energy supplied to the End Procurer

S. No	Scheme/ PPA	RE Generator (Name)	End Procurer (Name)	Type of EP (D/S/OA)	Contracted Capacity which forms part of Pool (MW)	Tariff PPA (INR/ kWh)	Trading Margin (INR/ kWh)	Total Tariff (INR/ kWh)	Schedule Energy Supplied during the Month (MWh)
					(A)	(B)	(C)	D =B+C	(E)
1									
2									
3									

Classification of Type of EP

- ✓ Type – D for the persons to whom a license to undertake distribution and retail supply of electricity has been granted under section 15 of the Act.
- ✓ Type- S for EP, designated by the State Government to procure power on behalf of the licensees undertaking distribution and retail supply of electricity.
- ✓ Type -OA for Open Access Consumer.


Note:

1. The information in the above format are to be submitted in the excel file till the time a platform for sharing the data is ready.
2. Any request for addition of new Contracted Capacity which forms part of Pool will be submitted along with the monthly data.
3. The details of PPA in the softcopy along with the relevant documents must be submitted separately.

FORMAT-E

Sample Monthly account statements for adjustments of any surplus

URET	T	5.027Z											Total Sum (IP1+IP2+IP3+IP4)
			IP1			IP2				IP3			IP4
Generator	XX	YYY	ZZZ	Sum	WWW	VVV	UUU	Sum	LLL	MMMM			
Tariff PPA	A	3.75	3.2	3.9	5.9	5.8	5.7		7	4.1			
Total Tariff	B	3.82	3.27	3.97	5.97	5.87	5.77		7.07	4.17			
Energy Scheduled to DISCOM (MWh)	C	14400	17280	0	31680	21600	0	5760	16200	26800			
Energy Scheduled to OA (MWh)	D	2880	0	1440	4320	0	12960	0	3240	3600			
Total Energy Scheduled (MWh)	E=C+D	17280	17280	1440	36000	21600	12960	5760	19440	26280			
Amount to be paid by DISCOM	F=F*C	72,392,071	86,870,485	-	159,262,556	108,588,106	-	28,956,828	81,441,080	114,017,512	492,		
Amount to be paid by OA	G=T*D	14,478,414	-	7,239,207	21,717,621	65,152,864	-	65,152,864	16,288,216	18,098,018	124,		
Total Amount to be paid by End Procuree	H=F+G	86,870,485	86,870,485	7,239,207	180,980,177	108,588,106	28,956,828	202,697,798	97,729,296	132,115,529	613,		
Total Amount Realised by IP	I=H	86,870,485	86,870,485	7,239,207	180,980,177	108,588,106	28,956,828	202,697,798	97,729,296	132,115,529	613,		
Amount as per Total Tariff	J=B*E	66,009,600	56,505,600	5,716,800	128,232,000	128,952,000	33,235,200	238,262,400	137,440,800	109,587,600	613,		
Total Amount to be Paid to Generator	K=A*E	64,800,000	55,296,000	5,616,000	125,712,000	127,440,000	32,882,000	235,440,000	136,080,000	107,748,000	604,		
Amount to be paid to other IP	L=J				52,748,177			(35,564,602)	(39,711,504)	21,527,929			
Margin Realised by IP	M=I-K				2,520,000			2,822,400	1,360,800	1,839,600	8,		
Trader Margin/Unit Scheduled Energy	N=M/E				0.070			0.070	0.070	0.070			

Receivable/ Payable matrix by the Intermediary Procurer based on the account statement shall be as follows: 

		Payable				
Receivables		IP1	IP2	IP3	IP4	Sum
↓	IP1	13,187,044	13,187,044	13,187,044	13,187,044	52,748,177
	IP2	(8,891,150)	(8,891,150)	(8,891,150)	(8,891,150)	(35,564,602)
	IP3	(9,927,876)	(9,927,876)	(9,927,876)	(9,927,876)	(39,711,504)
	IP4	5,631,982	5,631,982	5,631,982	5,631,982	22,527,929
	Sum	0	0	0	0	0

The transactions receivable is tabulated below for ready reference (negative sign means payable):

IP1	IP2	(22,078,195)	(52,748,177)
	IP3	(23,114,920)	
	IP4	(7,555,062)	
IP2	IP1	22,078,195	35,564,602
	IP3	(1,036,726)	
	IP4	14,523,133	
IP3	IP1	23,114,920	39,711,504
	IP2	1,036,726	
	IP4	15,559,858	
IP4	IP1	7,555,062	(22,527,929)
	IP2	(14,523,133)	
	IP3	(15,559,858)	

The Account settlement among the Intermediary Procurers shall be as under:

The Intermediary Procurer 1 will pay Rs 22,078,195 /- to Intermediary Procurer 2.

The Intermediary Procurer 1 will pay Rs 23,114,920 /- to Intermediary Procurer 3.

The Intermediary Procurer 1 will pay Rs 7,555,062/- to Intermediary Procurer 4.

Similarly, for the IP2, IP3 and IP4, as shown in table.

COMPUTATION OF TARIFF - ILLUSTRATIONS

Illustration 1:

Intermediary Procurers	1
RE Generator	3
End Procurer	4
PPA Capacity (MW)	250
PSA Capacity (MW)	250

Transactions:

S. no	Scheme/ PPA	RE Generator	End Procurer	Type of EP	Contracted Capacity which forms part of Pool	Tariff PPA	Total Tariff= (Tariff PPA + Trading Margin)	Schedule Energy during the Month	Tariff to be paid =Schedule Energy* Total Tariff
		(Name)	(Name)	(D/S/OA)	(MW)	(INR/kWh)	(INR/kWh)	(MWh)	Rs
					(A)	(B)	(C)	(D)	E= (C) * (D)
1	SCHEME1	XXX	AAA	D	100	3.75	3.82	14400	55008
2	SCHEME1	XXX	BBB	OA	20	3.75	3.82	2880	11002
3	SCHEME2	YYY	CCC	D	120	3.2	3.27	17280	56506
4	SCHEME3	ZZZ	DDD	OA	10	3.9	3.97	1440	5717
								36000	128232

Tariff computed INR/kWh	=ΣE/ΣD	3.562
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ACCOUNT STATEMENT

URET	T	3.5620			
Generator		XXX	YYY	ZZZ	Sum
Tariff PPA	A	3.75	3.2	3.9	
Total Tariff	B	3.82	3.27	3.97	
Energy Scheduled to DISCOM (MWh)	C	14400	17280	0	31680
Energy Scheduled to OA (MWh)	D	2880	0	1440	4320
Total Energy Scheduled to End Procurer (MWh)	E=C+D	17280	17280	1440	36000
Amount receivable from DISCOM	F=T*C	51,292,800	61,551,360	-	112,844,160
Amount receivable from OA	G=T*D	10,258,560	-	5,129,280	15,387,840
Total Amount receivable from End Procurer	H=F+G	61,551,360	61,551,360	5,129,280	128,232,000
Total Amount to be Realised by IP	I=H	61,551,360	61,551,360	5,129,280	128,232,000
Total Amount to be Paid to Generator	J=A*E	64,800,000	55,296,000	5,616,000	125,712,000
Margin to be Realised by IP	K=I-J	(3,248,640)	6,255,360	(486,720)	2,520,000
Trader Margin/Unit Scheduled Energy	N=K/E				0.0700000

Illustration 2:

Intermediary Procurers	2
RE Generator	6
End Procurer	7
PPA Capacity (MW)_IP1	250
PSA Capacity (MW)_IP1	250
PPA Capacity (MW)_IP2	280
PSA Capacity (MW)_IP2	280

Transactions:

S. no	Scheme/ PPA	RE Generator	End Procurer	Type of EP	Contracted Capacity which forms part of Pool	Tariff PPA	Total Tariff= (Tariff PPA + Trading Margin)	Schedule Energy during the Month	Tariff to be paid =Schedule Energy* Total Tariff
		(Name)	(Name)	(D/S/OA)	(MW)	(INR/kWh)	(INR/kWh)	(MWh)	Rs
					(A)	(B)	(C)	(D)	E= (C) * (D)
1	SCHEME1_IP1	XXX	AAA	D	100	3.75	3.82	14400	55008
2	SCHEME1_IP1	XXX	BBB	OA	20	3.75	3.82	2880	11002
3	SCHEME2_IP1	YYY	CCC	D	120	3.2	3.27	17280	56506
4	SCHEME3_IP1	ZZZ	DDD	OA	10	3.9	3.97	1440	5717
5	SCHEME4_IP2	WWW	EEE	D	150	5.9	5.97	21600	128952
6	SCHEME5_IP2	VVV	FFF	OA	90	5.8	5.87	12960	76075
7	SCHEME6_IP2	UUU	GGG	D	40	5.7	5.77	5760	33235
								76320	366494

Tariff computed INR/kWh	=$\sum E/\sum D$	4.8021
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ACCOUNT STATEMENT

URET		T	4.8021	IP1						IP2				Total Sum (IP1+IP2)
Generator		XXX	YYY	ZZ	Sum	WWW	VVV	UUU	Sum					
Tariff PPA	A	3.75	3.2	3.9		5.9	5.8	5.7						
Total Tariff	B	3.82	3.27	3.97		5.97	5.87	5.77						
Energy Scheduled to DISCOM (MWh)	C	14400	17280	0	31680	21600	0	5760	27360					59040
Energy Scheduled to OA (MWh)	D	2880	0	1440	4320	0	12960	0	12960					17280
Total Energy Scheduled (MWh)	E=C+D	17280	17280	1440	36000	21600	12960	5760	40320					76320
Amount receivable from DISCOM	F=*C	69,149,887	82,979,864	-	152,129,751	109,724,830	-	27,659,955	131,384,785					289,514,536
Amount receivable from OA	G=*D	13,829,977	-	6,914,989	20,744,966	-	62,234,898	-	62,234,898					81,979,864
Total Amount receivable from End Procuree	H=F+G	82,979,864	82,979,864	6,914,989	172,874,717	109,724,830	62,234,898	27,659,955	193,619,683					366,494,400
Total Amount to be Realised by IP	I=H	82,979,864	82,979,864	6,914,989	172,874,717	109,724,830	62,234,898	27,659,955	193,619,683					366,494,400
Amount as per Total Tariff	J=*E	66,009,600	56,915,600	5,716,800	128,232,000	128,952,000	76,075,200	33,255,200	238,262,400					366,494,400
Total Amount to be Paid to Generator	K=*E	64,800,000	55,296,000	5,616,000	125,712,000	127,440,000	75,168,000	32,832,000	235,440,000					361,152,000
Amount to be paid to other IP	L=J				44,642,717				(44,642,717)					0
Margin Realised by IP	M=I-K				2,520,000				2,822,400					5,342,400
Trader Margin/Unit Scheduled Energy	N=M/E				0.070				0.070					0.070

Illustration 3:

Intermediary Procurers	4
RE Generator	8
End Procurer	11
PPA Capacity (MW)_IP1	275
PSA Capacity (MW)_IP1	250
PPA Capacity (MW)_IP2	300
PSA Capacity (MW)_IP2	280
PPA Capacity (MW)_IP1	175
PSA Capacity (MW)_IP1	150
PPA Capacity (MW)_IP2	225
PSA Capacity (MW)_IP2	200

Transactions:.

S. no	Scheme/ PPA	RE Generator	End Procurer	Type of EP	Contracted Capacity which forms part of Pool	Tariff PPA	Total Tariff= (Tariff PPA + Trading Margin)	Schedule Energy during the Month	Tariff to be paid =Schedule Energy* Total Tariff
		(Name)	(Name)	(D/S/OA)	(MW)	(INR/kWh)	(INR/kWh)	(MWh)	Rs
					(A)	(B)	(C)	(D)	E= (C) * (D)
1	SCHEME1_IP1	XXX	AAA	D	100	3.75	3.82	14400	55008
2	SCHEME1_IP1	XXX	BBB	OA	20	3.75	3.82	2880	11002
3	SCHEME2_IP1	YYY	CCC	D	120	3.2	3.27	17280	56506
4	SCHEME3_IP1	ZZZ	DDD	OA	10	3.9	3.97	1440	5717
5	SCHEME4_IP2	WWW	EEE	D	150	5.9	5.97	21600	128952
6	SCHEME5_IP2	VVV	FFF	OA	90	5.8	5.87	12960	76075
7	SCHEME6_IP2	UUU	GGG	D	40	5.7	5.77	5760	33235
8	SCHEME7_IP3	LLL	HHH	D	125	7	7.07	16200	114534
9	SCHEME7_IP3	LLL	JJJ	OA	25	7	7.07	3240	22907
10	SCHEME8_IP4	MMM	KKK	D	175	4.1	4.17	22680	94576
11	SCHEME8_IP4	MMM	LLL	OA	25	4.1	4.17	3600	15012
								122040	613523

Tariff computed INR/kWh	= $\sum E/\sum D$	5.0272
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ACCOUNT STATEMENT

URET	T	IP1		IP2							IP3	IP4	Total Sum (IP1+IP2+IP3+IP4)
		XXX	YYY	ZZZ	Sum	WWW	VVV	UUU	Sum	LLL			
		3.75	3.2	3.9		5.9	5.8	5.7		7	4.1		
Tariff PPA	A	3.82	3.27	3.97		5.97	5.87	5.77		7.07	4.17		
Total Tariff	B	1440	1720	0	3160	2160	0	5760	2760	1620	2680	91920	
Energy Scheduled to DISCOM (MWh)	C	280	0	1440	4320	0	12960	0	12960	3140	360	24120	
Energy Scheduled to OA (MWh)	D	1720	1720	1440	3600	2160	12960	5760	40320	19440	26280	122040	
Total Energy Scheduled (MWh)	E=C+D	7232.071	86,870.465	-	159,262,556	108,388.106	-	28,956,828	137,544,935	81,441,080	1,14,017,512	492,266,881	
Amount to be paid by DISCOM	F=7*C	14,078,444	-	7,239,207	21,717,621	-	65,152,864	-	65,152,864	16,288,216	18,098,018	121,256,719	
Amount to be paid by OA	G=7*D	86,870.465	86,870.465	7,239,207	180,980.177	108,388.106	65,152,864	28,956,828	202,697,798	97,729,256	132,115,529	613,527,800	
Total Amount to be paid by End Procuree	H=F+G	86,870.465	86,870.465	7,239,207	180,980.177	108,388.106	65,152,864	28,956,828	202,697,798	97,729,256	132,115,529	613,527,800	
Total Amount Realised by IP	I=H	86,870.465	86,870.465	7,239,207	180,980.177	108,388.106	65,152,864	28,956,828	202,697,798	97,729,256	132,115,529	613,527,800	
Amount as per Tidal Tariff	J=B*E	66,009,600	56,296,000	5,746,800	128,232,000	128,957,000	76,075,200	33,255,200	239,264,400	137,440,800	109,587,600	613,527,800	
Total Amount to be Paid to Generator	K=A*E	64,800,000	55,296,000	5,666,600	127,712,000	127,440,000	75,168,000	32,882,000	235,440,000	136,080,000	107,748,000	604,980,000	
Amount to be paid to other IP	L=I				57,748,177				135,564,602	13,187,044	22,527,929	0	
Margin Realised by IP	M=I-K				2,500,000				2,822,400	1,380,800	1,839,600	8,542,800	
Trader Margin/Unit Scheduled Energy	N=M/E				0.070				0.070	0.070	0.070	0.070	

Transactions - Receivables

	IP1	IP2	IP3	IP4	Sum
IP2	(22,078,195)				
IP3	(23,114,920)				
IP4	(7,555,062)				(52,748,177)
IP1	22,078,195				
IP3	(1,036,726)				
IP4	14,523,133				35,564,602
IP1	23,114,920				
IP2	1,036,726				
IP4	15,559,858				39,711,504
IP1	7,555,062				
IP2	(14,523,133)				
IP3	(15,559,858)				(22,527,929)



Payable

Receivables



	IP1	IP2	IP3	IP4	Sum
IP1	13,187,044	13,187,044	13,187,044	13,187,044	52,748,177
IP2	(8,891,150)	(8,891,150)	(8,891,150)	(8,891,150)	(35,564,602)
IP3	(9,927,876)	(9,927,876)	(9,927,876)	(9,927,876)	(39,711,504)
IP4	5,631,982	5,631,982	5,631,982	5,631,982	22,527,929
Sum	0	0	0	0	0