# BEFORE THE HON'BLE TAMIL NADU ELECTRICITY REGULATORY

# COMMISSION, CHENNAI

PETITION NO. O

OF 2016

# IN THE MATTER OF:

**Open Access Users Association** 

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Tamil Nadu Generation and Distribution Corporation Ltd.

... Respondent

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# BEFORE THE HON'BLE TAMIL NADU ELECTRICITY REGULATORY COMMISSION, CHENNAI

# PETITION NO. OF 2016

# **IN THE MATTER OF:**

Petition under Section 42(2), 86(1)(a) and other applicable provisions of the Electricity Act, 2003 for re-determination of Cross Subsidy Surcharge levied from Open Access Consumers in line with the National Tariff Policy, 2016.

# AND

# IN THE MATTER OF:

Open Access Users Association Open Access Users Association, 2 ND Floor, D21 Corporate Park, ....Petitioner Sector- 8, Dwarka, New Delhi - 110075

# AND

Tamil Nadu Generation and Distribution Corporation Ltd. No. 144, Anna Salai Chennai – 600 002

..Respondent

PETITION UNDER SECTION 42(2), 86(1)(A) AND OTHER APPLICABLE PROVISIONS OF THE ELECTRICITY ACT, 2003 FOR RE-DETERMINATION OF CROSS SUBSIDY SURCHARGE LEVIED FROM OPEN ACCESS CONSUMERS IN LINE WITH THE NATIONAL TARIFF POLICY, 2016.

### **MOST RESPECTFULLY SHOWETH:**

- 1. The present petition has been filed seeking the re-determination of cross subsidy surcharge that is applicable on the open access consumers in the State of Tamil Nadu, in line with the provisions of the National Tariff Policy, 2016 notified by the Government of India under Section 3 of the Electricity Act, 2003.
- 2. The Petitioner is an association of open access consumers including consumers within the State of Tamil Nadu The Petitioner is a Registered Society formed under the Societies Registration Act, 1860

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and was registered on 04.08.2012. The main objective of the Petitioner is to safeguard the interests of the open access consumers all over India. The Petitioner aims to create a responsible forum to highlight consumer awareness on various types of Open Access Charges levied by different States and their implications. The Petitioner also aims at adhering to safety, security & commercial issues to all Open Access consumers in the Power Market. The Petitioner represents the interest of the open access consumers and the present petition has been filed by the Petitioner in such capacity.

- 3. One of the primary objectives of the Electricity Act is to promote competitive forces to operate and to provide the freedom of choice to the consumers to take supply of electricity from a source of their choice and not necessarily from the distribution licensee in their area of supply. The opening up of the electricity sector and particularly the supply aspects was to enable increased competition to ultimately benefit the consumers at large. To this effect, the concept of open access has been provided in the Electricity Act, 2003. In this regard, the Statement of Objects and Reasons to the Electricity Act and also the Preamble captures the intention of the Union Parliament to promote competition and open access.
- 4. Under Section 42, there is a mandate to introduce open access, subject only to technical constraints and with the payment of cross-subsidy surcharge and additional surcharge if applicable.
- 5. The Government of India, had also framed and notified the National Tariff Policy, 2006 under Section 3 of the Electricity Act providing for policy decisions on various aspects in relation to the Electricity Act, 2003. The National Tariff Policy laid considerable emphasis on the open access to be introduced. The National Tariff Policy, 2006 interalia, provided as under:

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"8.5 Cross-subsidy surcharge and additional surcharge for open access

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8.5.1 National Electricity Policy lays down that the amount of cross-subsidy surcharge and the additional surcharge to be levied from consumers who are permitted open access should not be so onerous that it eliminates competition which is intended to be fostered in generation and supply of power directly to the consumers through open access.

A consumer who is permitted open access will have to make payment to the generator, the transmission licensee whose transmission systems are used, distribution utility for the wheeling charges and, in addition, the cross subsidy surcharge. The computation of cross subsidy surcharge, therefore, needs to be done in a manner that while it compensates the distribution licensee, it does not constrain introduction of competition through open access. A consumer would avail of open access only if the payment of all the charges leads to a benefit to him. While the interest of distribution licensee needs to be protected it would be essential that this provision of the Act, which requires the open access to be introduced in a time-bound manner, is used to bring about competition in the larger interest of consumers.

Accordingly, when open access is allowed the surcharge for the purpose of sections 38, 39, 40 and sub-section 2 of section 42 would be computed as the difference between (i) the tariff applicable to the relevant category of consumers and (ii) the cost of the distribution licensee to supply electricity to the consumers of the applicable class. In case of a consumer opting for open access, the distribution licensee could be in a position to discontinue purchase of power at the margin in the merit order. Accordingly, the cost of supply to the consumer for this purpose may be computed as the aggregate of (a) the weighted average of power purchase costs (inclusive of fixed and variable charges) of top 5% power at the margin, excluding liquid fuel based generation, in the merit order approved by the SERC adjusted for average loss compensation of the relevant voltage level and (b) the distribution charges determined on the principles as laid down for intra-state transmission charges.

# Surcharge formula:

S = T - [C(1 + L / 100) + D]

Where

S is the surcharge

T is the Tariff payable by the relevant category of consumers;

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C is the Weighted average cost of power purchase of top 5% at the margin excluding liquid fuel based generation and renewable power

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D is the Wheeling charge

L is the system Losses for the applicable voltage level, expressed as a percentage

The cross-subsidy surcharge should be brought down progressively and, as far as possible, at a linear rate to a maximum of 20% of its opening level by the year 2010-11.

8.5.2 No surcharge would be required to be paid in terms of subsection (2) of Section 42 of the Act on the electricity being sold by the generating companies with consent of the competent government under Section 43(A)(1)(c) of the Electricity Act, 1948 (now repealed) and on the electricity being supplied by the distribution licensee on the authorisation by the State Government under Section 27 of the Indian Electricity Act, 1910 (now repealed), till the current validity of such consent or authorisations.

8.5.3 The surcharge may be collected either by the distribution licensee, the transmission licensee, the STU or the CTU, depending on whose facilities are used by the consumer for availing electricity supplies. In all cases the amounts collected from a particular consumer should be given to the distribution licensee in whose area the consumer is located. In case of two licensees supplying in the same area the licensee from whom the consumer was availing supply shall be paid the amounts collected."

- 6. The Hon'ble Commission had, in the light of the provisions and also the spirit of the Electricity Act, introduced open access for consumers in the State of Tamil Nadu. It is also relevant to mention that the open access in fact greatly benefited the consumers on account of freedom of choice and also the TANGEDCO (previously the TNEB) as the State was under a severe power shortage and was not in a position to meet the demand of the consumers in the State.
- 7. The Hon'ble Commission had vide order dated 20/06/2013 passed in TP No. 1 of 2013 determined the Annual Revenue Requirements and retail supply tariff applicable for the Respondent, Tamil Nadu

Generation and Distribution Corporation Ltd. (TANGEDCO), which was made effective from 21/06/2013.

- 8. The said tariff order also determined the cross-subsidy surcharge as applicable on the open access consumers in the State of Tamil Nadu. The cross-subsidy surcharge was determined by the Hon'ble Commission in line with the National Tariff Policy, 2006 as was then applicable. A copy of the relevant extracts of the Tariff Order dated 20/06/2013 of the Hon'ble Commission is attached hereto and marked as **Annexure A**.
- 9. The above tariff order was subject matter of appeal by various consumers before the Hon'ble Appellate Tribunal in Appeal No. 196 of 2013 and connected matters. The Hon'ble Tribunal disposed of the said appeals vide judgement dated 27/10/2014. The Hon'ble Tribunal while approving the principle adopted by the Hon'ble Commission in line with the provisions of the National Tariff Policy, however only remanded the matter for consideration of calculation mistakes in the determination of the cross-subsidy surcharge. The Hon'ble Tribunal had, inter-alia, held as under:

36. Shri Umapathy, learned counsel for the State Commission has submitted that the State Commission has used the formula as per Tariff Policy for determining the cross subsidy for open access. The Tariff Policy does not differentiate between the demand charges and energy charges as the tariff includes both these charges. The State Commission has applied merit order principles and arrived at power purchase cost for top 5% at margin excluding liquid fuel based and renewable energy generating stations for computing CSS for open access.

37. We find that the State Commission has used the formula as specified in the Tariff Policy for calculating the cross subsidy surcharge payable by open access consumers which is as per law. The formula does not take into consideration the transmission charges.

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38. We do not find any merit in the contention of the Appellant that demand charges should not be included in the formula and in calculating the average billing rate. The tariff includes both demand and energy charges and demand charge is also a part of the tariff. The formula specified in the Tariff Policy states that Tariff payable by the relevant category of consumer has to be used in the formula. As the tariff payable by the consumer includes the demand charge, the State Commission has correctly included the demand charges while calculating the average billing rate for the consumer category. The State Commission is not bound to follow the figures furnished by the Licensee in determining the value of the various components used in the formula and has to apply the figures after prudence check.

10. Pursuant to the above, the Hon'ble Commission had re-calculated and determined the Cross Subsidy Surcharge vide its Suo Moto Tariff Order No. 9 of 2014 dated 11/12/2014. The said determination was made by the Hon'ble Commission in accordance with the then existing National Tariff Policy and the decision of the Hon'ble Appellate Tribunal. In the said Order dated 11/12/2014, the Hon'ble Commission has determined the cross-subsidy surcharge in terms of the National Tariff Policy, 2006 and at various voltage levels. The cross-subsidy for the various categories is the following range:

Category	CSS (Rs./kwh)
HT Industry	3.25 - 3.50
Railway Traction	2.87- 3.12
Government Educational Institutions	2.36-2.62
Pvt Educational Institutions	2.78-3.04
Commercial and other HT Consumers	4.97- 5.23

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A copy of the relevant extracts of the Tariff Order dated 11/12/2014 is attached hereto and marked as **Annexure B**.

- 11. While the above tariff order and the cross-subsidy surcharge continues to be in force in the State of Tamil Nadu till date, the Government of India has in the meantime, under Section 3 of the Electricity Act, 2003 framed and notified the National Tariff Policy, 2016 which was notified on 28/01/2016.
- 12. The National Tariff Policy, 2016 while furthering the objective of promoting competition has laid great emphasis on the promotion and implementation of cross-subsidy surcharge and also provided that the cost associated with open access, namely, cross subsidy surcharge, wheeling charges etc. should not be very high which would curtail competition and open access. Electricity Act including the implementation of open access has also laid considerable emphasis to promote competition and open access.

The said Tariff Policy further, while providing an indicative formula for determination of cross-subsidy surcharge, has left the determination is such manner as to be decided by each State Commission. The National Tariff Policy however has placed a ceiling on the cross subsidy surcharge at 20% of the tariff of the relevant category of consumers. In this regard, the National Tariff Policy, 2016 inter-alia provides as under:

"8.5.1 National Electricity Policy lays down that the amount of cross-subsidy surcharge and the additional surcharge to be levied from consumers who are permitted open access should not be so onerous that it eliminates competition which is intended to be fostered in generation and supply of power directly to the consumers through open access.

A consumer who is permitted open access will have to make payment to the generator, the transmission licensee whose transmission systems are used, distribution utility for the wheeling charges and, in addition, the cross subsidy surcharge.

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The computation of cross subsidy surcharge, therefore, needs to be done in a manner that while it compensates the distribution licensee, it does not constrain introduction of competition through open access. A consumer would avail of open access only if the payment of all the charges leads to a benefit to him. While the interest of distribution licensee needs to be protected it would be essential that this provision of the Act, which requires the open access to be introduced in a time-bound manner, is used to bring about competition in the larger interest of consumers.

SERCs may calculate the cost of supply of electricity by the distribution licensee to consumers of the applicable class as aggregate of (a) per unit weighted average cost of power purchase including meeting the Renewable Purchase Obligation; (b) transmission and distribution losses applicable to the relevant voltage level and commercial losses allowed by the SERC; (c) transmission, distribution and wheeling charges up to the relevant voltage level; and (d) per unit cost of carrying regulatory assets, if applicable.

### Surcharge formula:

S = T - [C/(1-L/100) + D + R]

Where

*S* is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation

D is the aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level

L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level

R is the per unit cost of carrying regulatory assets.

Above formula may not work for all distribution licensees, particularly for those having power deficit, the State Regulatory Commissions, while keeping the overall objectives of the Electricity Act in view, may review and vary the same taking into

Conception Association Authorised Signalory consideration the different circumstances prevailing in the area of distribution licensee.

Provided that the surcharge shall not exceed 20% of the tariff applicable to the category of the consumers seeking open access.

Provided further that the Appropriate Commission, in consultation with the Appropriate Government, shall exempt levy of cross subsidy charge on the Railways, as defined in Indian Railways Act, 1989 being a deemed licensee, on electricity purchased for its own consumption.

(emphasis supplied)

A copy of the National Tariff Policy, 2016 is annexed hereto and marked as **Annexure C**.

- 13. It is stated that the above position has been brought about by the government of India in the National Tariff Policy to achieve the objective of giving flexibility to the individual State Commissions on the formula to be adopted for determination of cross subsidy surcharge, but at the same time placing a ceiling restriction on the maximum cross subsidy surcharge that can be levied in relation to the retail supply tariff of the relevant category of consumers.
- 14. The ceiling 20% would ensure that there is adequate competition and the distribution licensee has to necessarily ensure better efficiency to compete with open access sources. The above ceiling of 20% of the tariff is also more than the limit of  $\pm 20\%$  of the Average Cost of Supply within which the tariff can be designed.
- 15. In view of the above provision in the National Tariff Policy which has come into force recently, it has become incumbent to determine and align the cross-subsidy surcharge in line with the now prevalent provisions of the National Tariff Policy. The present applicable crosssubsidy surcharge is in terms of the National Tariff Policy, 2006 which now needs re-determination in view of the present National Tariff Policy, 2016.

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16. The present tariffs (Average Billing Rate which includes Demand Charges and Energy Charges) determined by the Hon'ble Commission vide its order dated 11/12/2014 applicable to the HT consumers is as under:

Category	Tariff (Rs./kwh) (ABR)
HT Industry	8.20
Railway Traction	7.82
Government Educational Institutions	7.32
Pvt Educational Institutions	7.74
Commercial and other HT Consumers	9.93

17. As per the National Tariff Policy, 2016 the cross-subsidy surcharge for the relevant category of consumers to be determined by the Appropriate Commissions shall not exceed 20% of the tariff of the relevant category of consumers. In terms of the above, the ceiling limit for the cross-subsidy surcharge including at various voltage levels shall be as under:

Category	CSS (Rs./kwh)
HT Industry	1.64
Railway Traction	1.56
Government Educational Institutions	1.46
Pvt Educational Institutions	1.54
Commercial and other HT Consumers	1.98

18. As stated hereinabove, the provisions of the National Tariff Policy2016 are in furtherance of the object of the Electricity Act to promote

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competition and ensure that open access is not discouraged. The Hon'ble Commission has also been determining the tariffs and crosssubsidy surcharge in line with the provisions of the National Tariff Policy as applicable and in the above circumstances, the present petition has been preferred by the Petitioners seeking redetermination of the cross-subsidy surcharge in line with the now prevalent National Tariff Policy.

- 19. The present petition is within the jurisdiction of the Hon'ble Commission under Section 42, Section 86 (1)(a) and other applicable provisions of the Electricity Act, 2003 read with the National Tariff Policy 2016.
- 20. The Petitioner has paid the requisite fees for filing the present petition.
- 21. In the facts and circumstances of the present case, it is respectfully prayed that the Hon'ble Commission may be pleased to:
  - (a) Re-determine and make applicable the Cross Subsidy Surcharge in accordance with the National Tariff Policy, 2016 with the ceiling limit of 20% of the tariff for the relevant category of consumers as indicated in para 18 above;
  - (b) Pass such other further order(s) as the Hon'ble Commission may deem fit in the facts and circumstances of the present case.

For Open Access Users Association Authorised Signatory

PLACE: NEW DELHI DATE: 13.08.2016 **PETITIONER** Open Access Users Association

# **PETITION NO.\_\_\_\_ OF 2016**

# **IN THE MATTER OF:**

Open Access Users Association Open Access Users Association, 2 ND Floor, D21 Corporate Park, Sector- 8, Dwarka, New Delhi 110075

...Petitioner

### AND

Tamil Nadu Generation and Distribution Corporation Ltd. No. 144, Anna Salai Chennai – 600 002

..Respondent

# AFFIDAVIT

I, Abhinandan Das, son of Shri Debasish Das , aged about 28 years, resident of D-108, 4<sup>th</sup> floor , Dwarka Sector 8, New Delhi -110075, do hereby solemnly affirm and state as under:

- 1. I say that I am Legal Officer in the Petitioner and am competent to swear the present affidavit.
- 2. I say that I have read the contents of the accompanying petition and I have understood the contents of the same. I say that the contents of the accompanying petition filed by the Petitioner are based on the information available with the Petitioner in the normal course and For Oper Access Users / believed by me to be true.

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### VERIFICATION

I, the deponent above-named, do hereby verify the contents of the above affidavit to be true to the best of my knowledge, no part of it is false and nothing material has been concealed therefrom.

Verified at New Delhi on this 13 day of August, 2016

For Open Access Users Association

Authorised Signatory

Determination of Tariff for Generation and Distribution - Order dated 20-06-2013



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# TAMIL NADU ELECTRICITY REGULATORY COMMISSION

# Determination of Tariff for Generation and Distribution

T.P. No. 1 of 2013 Order dated: 20-06-2013 (effective from 21-06-2013)



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Determination of Tariff for Generation and Distribution - Order dated 20-06-2013

Table 306: Allocation of Wheeling Charges into LT & HT Category

SI. No.	Particulars	TANG	EDCO	Appr	oved
	and a state of the second s	No.s	Ratio	No.s	Ratio
1	HT Lines (lakh ckt. km.)	1.56	21.52%	1.84	24.11%
3	LT Lines (lakh ckt. km.)	5.67	78.48%	5.78	75.89%
	Total	7.23		7.62	

5.56 Based on the above ratio and the Annual Distribution charges as approved, the wheeling charge per unit for the year FY 2013-14 estimated by the Commission are as follows.

Particulars	FY 14
Energy fed into Grid (in MU)	79,703
230 kV Losses approved by the Commission	0.80%
230 kV Losses (MU)	638
Wheeling units - 230 kV (MU)	315
TANGEDCO - 230 kV Sales (MU)	721
Energy input at 110 kV (MU)	78,030
110 kV Losses approved by the Commission	1.90%
110 kV Losses (MU)	1,483
Wheeling units - 110 kV (MU)	1,575
TANGEDCO - 110 kV Sales (MU)	3,067
Energy Input at Distribution Periphery (MU)	71,905
Total Annual Wheeling Charges (Rs.Crs)	1247.58
Wheeling charges for Open Access Customer (Ps/ unit)	17.35

Table 307:	Wheeling	Charges	per unit for	FY 2013-14
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5.57 Based on the estimated sales and voltage wise losses the Commission has determined the wheeling charge per unit as 17.35 paise/ kWh for FY 2013-14.

#### **Cross Subsidy Surcharge**

The Electricity Act 2003 clearly lays down the charges recoverable by the distribution 5.58 licensee for allowing open access. Extract of the same has been produced below.

Provisos to Section 42 (2) of Electricity Act 2003 stipulates as under:

"Provided that such Open Access shall be allowed on payment of a surcharge in addition to the charges for wheeling as may be determined by the State Commission

Provided further that such surcharge shall be utilized to meet the requirements of current level of cross-subsidy within the area of supply of the distribution licensee"

Tamil Nadu Electricity Regulatory Commission

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# Determination of Tariff for Generation and Distribution - Order dated 20-06-2013

5.59 The Tamil Nadu Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulation – 2005, under Section (3) Power to determine tariff lays down the following:

3. Power to determine Tariff

(1) Under Section 62 of the Act, the Commission shall determine tariff and terms and conditions therefor in the following cases:

.....

(vi) Surcharge payable by the consumer who is allowed open access in addition to the charges for wheeling under the first proviso to sub-section (2) of section 42 of the Act and in accordance with the TNERC Open Access Regulations.

5.60 Further the National Tariff Policy 2006, in Para 8.5 lays down the formula for calculating the cross subsidy surcharge payable by open access consumers as follows:

Surcharge formula:

S = T - [C(1+L/100) + D]

Where:

S is the surcharge

T is the Tariff payable by the relevant category of consumers; C is the Weighted average cost of power purchase of top 5% at the margin excluded liquid fuel based generation and renewable power D is the Wheeling charge

L is the system Losses for the applicable voltage level, expressed as a Percentage

5.61 As per National Tariff Policy, the Cross Subsidy Surcharge has been determined by TANGEDCO based on avoided cost methodology. TANGEDCO has determined the 5% marginal cost of power purchase in its petition for FY 2013-14 as 3.41 Rs./ kWh and the same has been estimated by the Commission on the basis of merit order for FY 2013-14 as 3.59 Rs./ kWh. The tables below capture the same.

Table 308: Weighted average cost of power purchase of top 5% at the margin as filed by TANGEDCO

SI. No	Station	Units purchased MUs	Total purchase cost Rs. Crores	Cost per unit Rs./unit
1	ABAN	375	189	5.04
2	NTPC - Talcher II	3,567	1,102	3.09
3	Kudankulam Uni t - I	2,426	883	3.64
	Total	6,368	2,174	3.41

Tamil Nadu Electricity Regulatory Commission

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# Determination of Tariff for Generation and Distribution - Order dated 20-06-2013

Table 309: Weighted average cost of power purchase of top 5% at the margin as approved by theCommission

Station	Units purchased Total purchase cost		
	MUs	Rs. Crores	Rs./unit
Penna	353	130	3.68
Mettur	353	130	3.59
Tuticorin Thermal Power Station	2723	972	3.57
Total	3429	1232	3.59

5.62 Based on the above weighted average cost of marginal power stations, the Commission has calculated the cross subsidy surcharge payable by HT consumers for availing open access.

Table 310: Cross Subsidy Surcharge for HT Categories approved by the Commission (in Paise kWh)

SI. No	Injection Voltage	Drawal Voltage	Total Loss (%)	Marginal Cost of Power	Wheeling Charges	Weighted Average Power
			1,00	Purchase	Charges	Purchase Cost
1	230 kV	230 kV	0.80%	359	17.35	380
2	230 kV	110 kV	1.75%	359	17.35	383
3	230 kV	33 kV	2.08%	359	17.35	384
4	230 kV	22 kV	3.46%	359	17.35	390
5	230 kV	11 kV	3.51%	359	17.35	390
6	110 kV	230 kV	1.75%	359	17.35	383
7	110 kV	110 kV	2.70%	359	17.35	387
8	110 kV	33 kV	3.03%	359	17.35	388
9	110 kV	22 kV	4.41%	359	17.35	393
10	110 kV	11 kV	4.46%	359	17.35	394
11	33 kV	230 kV	2.08%	359	17.35	384
12	33 kV	110 kV	3.03%	359	17.35	388
13	33 kV	33 kV	3.36%	359	17.35	389
14	33 kV	22 kV	4.74%	359	17.35	395
15	33 kV	11 kV	4.80%	359	17.35	395
16	22 kV	230 kV	3.46%	359	17.35	390
17	22 kV	110 kV	4.41%	359	17.35	393
18	22 kV	33 kV	4.74%	359	17.35	395
19	22 kV	22 kV	6.12%	359	17.35	400
20	22 kV	11 kV	6.17%	359	17.35	400
21	11 kV	230 kV	3.51%	359	17.35	390
22	11 kV	110 kV	4.46%	359	17.35	394
23	11 kV	33 kV	4.80%	359	17.35	395
24	11 kV	22 kV	6.17%	359	17.35	400
25	11 kV	11 kV	6.23%	359	17.35	401

Tamil Nadu Electricity Regulatory Commission

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SI. No	Injection Voltage	Drawal Voltage	Industry	Railway traction	Government Educational Institution Etc.	Pvt. Educational Institutions	Commercial and Other
110	v ontage	. ontage		Cro	ss Subsidy Surchar	eic. ge (Paise/kWh)	
1	230 kV	230 kV	361.12	271.14	162.46	304.67	481.28
2	230 kV	110 kV	357.62	267,64	158.95	301.16	477.78
3	230 kV	33 kV	356.38	266.41	157.72	299.93	476.54
4	230 kV	22 kV	351.14	261.17	152.48	294.69	471.30
5	230 kV	11 kV	350.93	260.95	152.26	294.47	471.09
6	110 kV	230 kV	357.62	267.64	158.95	301.16	477.78
7.	110 kV	110 kV	354.05	264.07	155.38	297.59	474.21
8	110 kV	33 kV	352.79	262.81	154.12	296.33	472.95
9	110 kV	22 kV	347.44	257.47	148.78	290.99	467.60
10	110 kV	11 kV	347.22	257.25	148.56	290,77	467.38
11	33 kV	230 kV	356.38	266.41	157.72	299.93	476.54
12	33 kV	110 kV	352.79	262.81	154.12	296.33	472.95
13	33 kV	33 kV	351.52	261.54	152.85	295.06	471.68
14	33 kV	22 kV	346.14	256.16	147.47	289.68	466.30
15	33 kV	11 kV	345.92	255.94	147.25	289.46	466.08
16	22 kV	230 kV	351.14	261.17	152.48	294.69	471.30
17	22 kV	110 kV	347.44	257.47	148.78	290,99	467.60
18	22 kV	33 kV	346.14	256.16	147.47	289.68	466.30
19	22 kV	22 kV	340.60	250.62	141.93	284.14	460.76
20	22 kV	11 kV	340.37	250.39	141.70	283.92	460.53
21	11 kV	230 kV	350.93	260,95	152.26	294.47	471.09
22	11 kV	110 kV	347.22	257.25	148.56	290.77	467.38
23	11 kV	33 kV	345.92	255.94	147.25	289.46	466.08
24	11 kV	22 kV	340.37	250.39	141.70	283.92	460.53
25	11 kV	11 kV	340.14	250.17	141.48	283.69	460.30

5.63 At the outset the Commission notes that there has been a marked shift in HT consumers opting for open access, which has lead to the average billing rate to increase substantially. The Commission has tabulated below the increase in wheeling units over the last three years, representing the number of units sourced through other sources apart from the utility.

Table 312: Wheeled energy over the last there years from FY 2010-11 to F	Y 2012-13
--	-----------

Particulars	FY 2010-11	FY 2011-12	FY 2012-13
	MU's	MU's	MU's
Sale to HT Industrial, HT Commercial and Educational Institutions	13,857	11,664	8,646
Wheeling for HT Industries	4,716	6,750	7,871

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Determination of Tariff for Generation and Distribution – Order dated 20-06-2013

Particulars	FY 2010-11	FY 2011-12	FY 2012-13
r articulars	MU's	MU's	MU's
Wheeling for HT Commercial	155	289	318
Wheeling for Educational Institutions	7	10	11
Total Wheeling Units	4,878	7,049	8,200
Total Sales (Including Wheeling)	18,735	18,713	16,846
Percentage of Wheeling Units	26.04%	37.67%	48.67%

5.64 It can be inferred from above table that percentage of wheeling units from 26.04% in FY 2010-11 increased to 48.67% in FY 2012-13. The R&C measures in place are making the consumers to depend on other available options for power procurement. The utility is losing significant revenue due to reduced HT sales. Hence, the per unit cross subsidy surcharge has marginally increased due to higher ABR due to loss of revenue with HT consumers moving out of the system. However, due to better energy availability in FY 2013-14 the number of consumers, other than those consumers who have permanently left the system due to captive wheeling, opting to source power through open access is expected to reduce and cause the average billing rate to reduce.

#### Grid Availability Charges

- 5.65 TANGEDCO in its petition has requested the Commission for approval of energy charges plus the energy equated demand charges applicable to HT Temporary supply tariff as Grid Availability Charges.
- 5.66 TANGEDCO submitted that the Grid Availability Charges are for providing standby arrangements to Open Access customers in the following cases:
  - In case of outages of Generator supplying to an open access consumer.
  - For start up power by generator.
  - When the generation as per schedule is not maintained and when the drawal by the open access consumer is in excess of the schedule.
- 5.67 The tariff applicable to start-up power has been dealt in Tariff schedule of this Order
- 5.68 With regards grid availability charges for open access consumers, Commission approves following norms
  - Scheduling of all transactions pursuant to grant of long-term open access or medium-term open access or short-term open access shall be carried out on day-ahead basis in accordance with the relevant provisions of IEGC/CERC Open Access Regulations for inter-State transactions and in accordance with State Grid Code/Commission's Regulations / orders for intra-State transactions.

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# TAMIL NADU ELECTRICITY REGULATORY COMMISSION

Suo-Motu Determination of Tariff for Generation and Distribution

> SMT - Order No.9 of 2014 Order dated: 11-12-2014 (effective from 12-12-2014)



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5.44 Based on the estimated sales and voltage wise losses the Commission has determined the wheeling charge per unit as 18.87 paise/ kWh for FY 2014-15.

#### Cross Subsidy Surcharge

5.45 The Electricity Act 2003 clearly lays down the charges recoverable by the distribution licensee for allowing open access. Extract of the same has been produced below.

Provisions to Section 42 (2) of Electricity Act 2003 stipulates as under:

"Provided that such Open Access shall be allowed on payment of a surcharge in addition to the charges for wheeling as may be determined by the State Commission

Provided further that such surcharge shall be utilized to meet the requirements of current level of cross-subsidy within the area of supply of the distribution licensee"

# 5.46 The Tamil Nadu Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulation – 2005, under Section (3) Power to determine tariff lays down the following:

3. Power to determine Tariff

(1) Under Section 62 of the Act, the Commission shall determine tariff and terms and conditions therefor in the following cases:

......

(vi) Surcharge payable by the consumer who is allowed open access in addition to the charges for wheeling under the first proviso to sub-section (2) of section 42 of the Act and in accordance with the TNERC Open Access Regulations.

5.47 Further the National Tariff Policy 2006, in Para 8.5 lays down the formula for calculating the cross subsidy surcharge payable by open access consumers as follows:

Surcharge formula:

S = T - [C(1+L/100) + D]

Where:

S is the surcharge

T is the Tariff payable by the relevant category of consumers; C is the Weighted average cost of power purchase of top 5% at the margin excluded liquid fuel based generation and renewable power D is the Wheeling charge

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L is the system Losses for the applicable voltage level, expressed as a Percentage

5.48 As per National Tariff Policy, the Cross Subsidy Surcharge has been determined by the Commission based on avoided cost methodology. In line with the judgment of the APTEL in Appeal No. 196 & 199 of 2013 dated 27.10.2014, the Commission has estimated the weighted average cost of power purchase for the top 5% marginal stations on the basis of merit order for FY 2014-15 as 4.46 Rs./ kWh. The tables below capture the same.

Table 202: Weighted average cost of power purchase of top 5% at the margin as approved by the Commission

Station	Units purchased	Total purchase cost	Cost per unit
	MUs	Rs. Crores	Rs./unit
Adani Power	1182	686	5.81
Tuticorin TPS	2752	1070	3.89
Total	3934	1756	4.46

5.49 Based on the above weighted average cost of marginal power stations, the Commission has calculated the cross subsidy surcharge payable by HT consumers for availing open access.

Table 203: Weighted average power purchase cost approved by the Commission (in Paise kWh)

SI. No	Injection Voltage	Drawal Voltage	Total Loss (%)	Marginal Cost of Power Purchase	Wheeling Charges	Weighted Average Power Purchase Cost
1	230 kV	230 kV	0.80%	446	19.39	469
2	230 kV	110 kV	1.75%	446	19.39	474
3	230 kV	33 kV	2.07%	446	19.39	475
4	230 kV	22 kV	3.42%	446	19.39	482
5	230 kV	11 kV	3.47%	446	19.39	482
6	110 kV	230 kV	1.75%	446	19.39	474
7	110 kV	110 kV	2.70%	446	19.39	478
8	110 kV	33 kV	3.02%	446	19.39	480
9	110 kV	22 kV	4.37%	. 446	19.39	486
10	110 kV	11 kV	4.42%	446	19.39	486
11	33 kV	230 kV	2.07%	.446	19.39	475
12	33 kV	110 kV	3.02%	446	19.39	480
13	33 kV	33 kV	3.35%	446	19.39	481
14	33 kV	22 kV	4.69%	446	19.39	488
15	33 kV	11 kV	4.74%	446	19.39	488
16	22 kV	230 kV	3.42%	446	19.39	482
17	22 kV	110 kV	4.37%	446	19.39	486
18	22 kV	33 kV	4.69%	446	19.39	488

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19	22 kV	22 kV	6.03%	446	19.39	494
20	22 kV	11 kV	6.09%	446	19.39	495
21	11 kV	230 kV	3,47%	446	19.39	482
22	11 kV	110 kV	4.42%	446	19.39	486
23	11 kV	33 kV	4.74%	446	19.39	488
24	11 kV	22 kV	6.09%	446	19.39	495
25	11 kV	11 kV	6.14%	446	19.39	495

# Table 204: Cross Subsidy Surcharge for HT consumers

Sl. No	Injection Voltage	Drawal Voltage	Industry	Railway traction	Government Educational Institution Etc,	Pvt. Educational Institutions etc.	Commercial and Other
				Cross Subs	idy Surcharge (	Paise/kWh)	
1	230 kV	230 kV	350.69	312.99	262.61	304.29	523.28
2	230 kV	110 kV	346.34	308.64	258.26	299.94	518.93
3	230 kV	33 kV	344.85	307.15	256.76	298.45	517.43
4	230 kV	22 kV	338.50	300.80	250.41	292.10	511.09
5	230 kV	11 kV	338.24	300.54	250.15	291.84	510.83
6	110 kV	230 kV	346.34	308.64	258.26	299.94	518.93
7	110 kV	110 kV	341.91	304.21	253.82	295.51	514.50
8	110 kV	33 kV	340.38	302.68	252.29	293.98	512.97
9	110 kV	22 kV	333.91	296.21	245.82	287.51	506.50
10	110 kV	11 kV	333.64	295.94	245.56	287.24	506.23
11	33 kV	230 kV	344.85	307.15	256.76	298.45	517.43
12	33 kV	110 kV	340.38	302.68	252.29	293.98	512.97
13	33 kV	33 kV	338.84	301.15	250.76	292.45	511.43
14	33 kV	22 kV	332.33	294.63	244.24	285.93	504.92
15	33 kV	11 kV	332.06	294.36	243.97	285.66	504.65
16	22 kV	230 kV	338.50	300.80	250.41	292.10	511.09
17	22 kV	110 kV	333.91	296.21	245.82	287.51	506.50
18	22 kV	33 kV	332.33	294.63	244.24	285.93	504.92
19	22 kV	22 kV	325.63	287.93	237.54	279.23	498.21
20	22 kV	11 kV	325.35	287.65	237.26	278.95	497.94
21	11 kV	230 kV	338.24	300.54	250.15	291.84	510.83
22	11 kV	110 kV	333.64	295.94	245.56	287.24	506.23
23	11 kV	33 kV	332.06	294.36	243.97	285.66	504.65
24	11 kV	22 kV	325.35	287.65	237.26	278.95	497.94
25	11 kV	11 kV	325.08	287.38	236.99	278.68	497.66

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5.50 The higher ABR can be attributed to hike in retail supply tariff for FY 2014-15. The cost of the marginal 5% power procured apart from the must run stations have been considered in line with the Appellate Tribunal's direction on the same in its judgment on Appeal No. 196 & 199 of 2013 dated 27<sup>th</sup> Oct, 2014.

### Re-determination of Cross Subsidy Surcharge for FY 2013-14

5.51 Adhering to the judgment of the APTEL in Appeal No. 196 & 199 of 2013 dated 27.10.2014, for correction of the weighted average cost of power purchase per unit for top 5% marginal stations and consequently the cross subsidy surcharge applicable for FY 2013-14, the same has been corrected and will be effected separately through a subsequent order passed by the Commission.

### Grid Availability Charges

- 5.52 The Grid Availability Charges considered by the Commission are for providing standby arrangements to Open Access customers in the following cases:
  - In case of outages of Generator supplying to an open access consumer.
  - For start up power by generator.
  - When the generation as per schedule is not maintained and when the drawal by the open access consumer is in excess of the schedule.
- 5.53 The tariff applicable to start-up power has been dealt in Tariff schedule of this Order.
- 5.54 With regards grid availability charges for open access consumers, Commission approves following norms
  - Scheduling of all transactions pursuant to grant of long-term open access or medium-term open access or short-term open access shall be carried out on day-ahead basis in accordance with the relevant provisions of IEGC/CERC Open Access Regulations for inter-State transactions and in accordance with State Grid Code/Commission's Regulations / orders for intra-State transactions.
  - 2) Deviations between the schedule and the actual injection/drawal in respect of a open access customer who is not a consumer of the distribution licensee and the Generating Stations, shall come under the purview of the intra-state ABT, as notified by the Commission and shall be settled based on the composite accounts for imbalance transactions issued by SLDC on a weekly cycle in accordance with the UI charges specified by the Commission. Billing, collection and disbursement of any amounts under the above transactions shall be in accordance with the Commission's orders on Intra-state ABT, as may be applicable from time to time. Till the implementation of Intra-State ABT, the imbalance charge shall be at the rate of applicable temporary supply tariff.

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[भाग I–खण्ड 1]

• विवाह अनुदान

# ANNEXURE-

- जीवन-निर्वाह अनुदान
- सहकारियों एवं स्वयंसेवी समूहों के लिए आय सजन योजनाओं को बढ़ावा देना
- बीज, कीटनाशक एवं उर्वरक सब्सिडी तथा सिंचाई सहायता

उपर्युक्त अतिरिक्त प्रावधानों के अलावा वर्तमान में लागू पुनर्वास एवं पुनःस्थापन राष्ट्रीय नीति के प्रावधान सामान्यतः प्रभावी बने रहेंगे।

#### MINISTRY OF POWER

#### RESOLUTION

New Delhi, the 28th January, 2016

TARIFF POLICY

### No. 23/2/2005-R&R (Vol-IX) .--- 1.0 INTRODUCTION

1.1 In compliance with section 3 of the Electricity Act 2003, the Central Government notified the Tariff Policy on 6<sup>th</sup> January, 2006. Further amendments to the Tariff Policy were notified on 31<sup>st</sup> March, 2008, 20<sup>th</sup> January, 2011 and 8<sup>th</sup> July, 2011. In exercise of powers conferred under section 3(3) of Electricity Act, 2003, the Central Government hereby notifies the revised Tariff Policy to be effective from the date of publication of this resolution in the Gazette of India.

Notwithstanding anything done or any action taken or purported to have been done or taken under the provisions of the Tariff Policy notified on 6<sup>th</sup> January, 2006 and amendments made thereunder, shall, in so far as it is not inconsistent with this Policy, be deemed to have been done or taken under provisions of this revised policy.

- 1.2 The National Electricity Policy has set the goal of adding new generation capacity and enhancing per capita availability of electricity per year and to not only eliminate energy and peaking shortages but to also have a spinning reserve as specified by the Central Electricity Authority. Development of the power sector has also to meet the challenge of providing access for affordable electricity to all households in next five years.
- 1.3 It is therefore essential to attract adequate investments in the power sector by providing appropriate return on investment as budgetary resources of the Central and State Governments are incapable of providing the requisite funds. It is equally necessary to ensure availability of electricity to different categories of consumers at reasonable rates for achieving the objectives of rapid economic development of the country and improvement in the living standards of the people.
- 1.4 Balancing the requirement of attracting adequate investments to the sector and that of ensuring reasonability of user charges for the consumers is the critical challenge for the regulatory process. Accelerated development of the power sector and its ability to attract necessary investments calls for, inter alia, consistent regulatory approach across the country. Consistency in approach becomes all the more necessary considering the large number of States and the diversities involved.

#### 2.0 LEGAL POSITION

- 2.1 Section 3 (1) of the Electricity Act, 2003 empowers the Central Government to formulate the tariff policy. Section 3(3) of the Act enables the Central Government to review or revise the tariff policy from time to time.
- 2.2 Central Electricity Regulatory Commission (CERC) and State Electricity Regulatory Commissions (SERCs) shall be guided by the tariff policy in discharging their functions including framing the regulations.
- 2.3 Regulatory Commissions shall be guided by the principles and methodologies specified by the Central Commission for determination of tariff applicable to generating companies and transmission licensees.
- 2.4 The Forum of Regulators has been constituted by the Central Government under the provisions of the Act which would, inter alia, facilitate consistency in approach specially in the area of distribution.

#### 3.0 EVOLUTION OF THE POLICY

The tariff policy has been evolved in consultation with the State Governments, the Central Electricity Authority (CEA), the Central Electricity Regulatory Commission and various stakeholders.

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### 4.0 OBJECTIVES OF THE POLICY

The objectives of this tariff policy are to:

- (a) Ensure availability of electricity to consumers at reasonable and competitive rates;
- (b) Ensure financial viability of the sector and attract investments;
- (c) Promote transparency, consistency and predictability in regulatory approaches across jurisdictions and minimise perceptions of regulatory risks;
- (d) Promote competition, efficiency in operations and improvement in quality of supply;
- (e) Promote generation of electricity from Renewable sources;
- (f) Promote Hydroelectric Power generation including Pumped Storage Projects (PSP) to provide adequate peaking reserves, reliable grid operation and integration of variable renewable energy sources;
- (g) Evolve a dynamic and robust electricity infrastructure for better consumer services;
- (h) Facilitate supply of adequate and uninterrupted power to all categories of consumers;
- (i) Ensure creation of adequate capacity including reserves in generation, transmission and distribution in advance, for reliability of supply of electricity to consumers.

#### 5.0 GENERAL APPROACH TO TARIFF

5.1 Introducing competition in different segments of the electricity industry is one of the key features of the Electricity Act, 2003. Competition will lead to significant benefits to consumers through reduction in capital costs and also efficiency of operations. It will also facilitate the price to be determined competitively. The Central Government has already issued detailed guidelines for tariff based bidding process for procurement of electricity by distribution licensees.

5.2 All future requirement of power should continue to be procured competitively by distribution licensees except in cases of expansion of existing projects or where there is a company owned or controlled by the State Government as an identified developer and where regulators will need to resort to tariff determination based on norms provided that expansion of generating capacity by private developers for this purpose would be restricted to one time addition of not more than 100% of the existing capacity.

Provided further that the Appropriate Commission, as defined in the Electricity Act, 2003, shall ensure that in case of expansion of such projects, the benefit of sharing of infrastructure of existing project and efficiency of new technology is passed on to consumers through tariff.

Provided also that the State Government can notify a policy to encourage investment in the State by allowing setting up of generating plants, including from renewable energy sources out of which a maximum of 35% of the installed capacity can be procured by the Distribution Licensees of that State for which the tariff may be determined under Section 62 of the Electricity Act, 2003.

Provided that notwithstanding the provision contained in para 5.11(j) of the policy, the tariff for such 35% of the installed capacity shall be determined by SERC.

However, the 15% of power outside long term PPAs allowed under para 5.7.1 of National Electricity Policy shall not be included in 35% allowed to be procured by Distribution Licensees of the State.

5.3 The tariff of all new generation and transmission projects of company owned or controlled by the Central Government shall continue to be determined on the basis of competitive bidding as per the Tariff Policy notified on  $6^{th}$ January, 2006 unless otherwise specified by the Central Government on case to case basis.

Further, intra-state transmission projects shall be developed by State Government through competitive bidding process for projects costing above a threshold limit which shall be decided by the SERCs.

5.4 The Central Electricity Regulatory Commission in consultation with Central Electricity Authority and other stakeholders shall frame within six months, regulations for determination of tariff for generation of electricity from projects using coal washery rejects. These regulations shall also be followed by State Electricity Regulatory Commissions.

Provided that procurement of power from coal washery rejects based projects developed by Central/State PSUs, Joint Venture between Government Company and Company other than Government Company in which shareholding of company other than Government Company either directly or through any of its subsidiary company or associate company shall not be more than 26% of the paid up share capital, can be done under Section 62 of the Act.

5.5 The developer of a hydroelectric project, including Pumped Storage Plant (PSP), would have the option of getting the tariff determined by the Appropriate Commission for the power to be sold through long term Power Purchase

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#### भारत का राजपत्र : असाधारण

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Agreements (PPAs) on the basis of performance based cost of service regulations if the following conditions are fulfilled:

- (a) The Appropriate Commission is satisfied that the project site has been allotted to the developer by the concerned State Government after following a transparent two stage process. The first stage should be for prequalification on the basis of criteria of financial strength, past experience of developing infrastructure projects of similar size, past track record of developing projects on time and within estimated costs, turnover and ability to meet performance guarantee etc. In the second stage, bids are to be called on the basis of only one single quantifiable parameter, such as, additional free power in excess of percentage of free power, as notified by the Central Government, equity participation offered to the State Government, or any other parameter to be notified by the Central Government from time to time.
- (b) Concurrence of CEA (if required under Section 8 of the Act), financial closure, award of work and long term Power Purchase Agreement (PPA) (of the duration of 35 years or more) of the capacity specified in (c) below with distribution licensees are completed by 15.08.2022.
- (c) Long term PPA is firmed up for 60% or more of the total saleable design energy, balance being allowed for merchant sale.

Provided that distribution licensees can extend the duration of long term PPA beyond 35 years for a further period of 15 years at the existing terms and conditions subject to the approval of Appropriate Commission.

Provided further that nothing contained in this clause shall apply to Pumped Storage Plants (PSP).

(d) The time period for commissioning of all the units of the project shall be fixed at four years from the date of approval of the commissioning schedule by the Appropriate Commission. However, the Appropriate Commission may, after recording reasons in writing, fix longer time period for hydro electric projects (reservoir as well as run-of- river projects) of more than 100 MW capacity. Agreed timelines to achieve the fixed commissioning schedule alongwith penalty for delay shall be decided by the Appropriate Commission in consultation with the Central Electricity Authority. The Appropriate Commission shall allow pass through the Interest During Construction (IDC) and Financing Cost (FC) only upto the period of delay not attributable to the developer, as approved by the CEA.

# (e) Award of contracts for supply of equipment and construction of the project, either through a turnkey or through well defined packages, are done on the basis of international competitive bidding.

5.6 Notwithstanding anything contained in Para 5.5 above, the developers of hydro electric projects of more than 100 MW design capacity for which sites have been awarded earlier by following a transparent process and on the basis of pre-determined set of criteria would have the option of getting the tariff determined by the Appropriate Commission for the power to be sold through long term PPA on the basis of cost plus under Section 62 of the Act.

5.7 In case of projects covered under Para 5.5 and 5.6, the Appropriate Commission shall determine tariff ensuring the following:

- (i) Any expenditure incurred or committed to be incurred by the project developer for getting project site allotted (except free power as notified) would neither be included in the project cost, nor any such expenditure shall be passed through in tariff.
- (ii) The project cost shall include the cost of the approved R&R plan of the Project which shall be in conformity with the following:

(a) the National Rehabilitation & Resettlement Policy currently in force;

(b) the R&R package as enclosed at appendix.

- (iii) Annual fixed charges shall be taken pro-rata to the saleable design energy tied up on the basis of long term PPAs with respect to total saleable design energy. The total saleable design energy shall be arrived at by deducting the following from the design energy at the bus bar:
  - a) Free power as notified by the Central Government from time to time for the host State and the riparian State and percentage for contribution towards Local Area Development Fund as constituted by the State Government. This free power may be suitably staggered as decided by the State Government.
  - b) Energy corresponding to 100 units of electricity to be provided free of cost every month to every Project Affected Family notified by the State Government to be offered through the concerned distribution licensee in the designated resettlement area/projects area for a period of ten years from the date of commissioning.

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#### THE GAZETTE OF INDIA: EXTRAORDINARY

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5.8 The Appropriate Commission shall provide for suitable regulatory framework for incentivizing the developers of Hydro Electric Projects (HEPs) for using long-term financial instruments in order to reduce the tariff burden in the initial years.

5.9 The real benefits of competition would be available only with the emergence of appropriate market conditions. Shortages of power supply will need to be overcome. Multiple players will enhance the quality of service through competition. All efforts will need to be made to bring power industry to this situation as early as possible in the overall interests of consumers. Transmission and distribution, i.e. the wires business is internationally recognized as having the characteristics of a natural monopoly where there are inherent difficulties in going beyond regulated returns on the basis of scrutiny of costs.

5.10 Consumer interest is best served in ensuring viability and sustainability of the entire value chain viz., generation, transmission and distribution of electricity, while at the same time facilitating power supply at reasonable rate to consumers. The financial turnaround/restructuring plans are approved by the Appropriate Government from time to time to achieve this objective. The Appropriate Government as well as the Appropriate Commission while implementing such plans shall ensure viability of the generation, transmission and distribution in terms of recovery of all prudent costs.

5.11Tariff policy lays down the following framework for performance based cost of service regulation in respect of aspects common to generation, transmission as well as distribution. These shall not apply to competitively bid projects as referred to in para 6.1 and para 7.1 (6). Sector specific aspects are dealt with in subsequent sections.

#### a) Return on Investment

Balance needs to be maintained between the interests of consumers and the need for investments while laying down rate of return. Return should attract investments at par with, if not in preference to, other sectors so that the electricity sector is able to create adequate capacity. The rate of return should be such that it allows generation of reasonable surplus for growth of the sector.

The Central Commission would notify, from time to time, the rate of return on equity for generation and transmission projects keeping in view the assessment of overall risk and the prevalent cost of capital which shall be followed by the SERCs also. The rate of return notified by CERC for transmission may be adopted by the SERCs for distribution with appropriate modification taking into view the risks involved. For uniform approach in this matter, it would be desirable to arrive at a consensus through the Forum of Regulators.

While allowing the total capital cost of the project, the Appropriate Commission would ensure that these are reasonable and to achieve this objective, requisite benchmarks on capital costs should be evolved by the Regulatory Commissions. The Central Commission may adopt either Return on Equity or Return on Capital approach whichever is considered better in the interest of the consumers.

The State Commission may consider 'distribution and supply margin' as basis for allowing returns in distribution business at an appropriate time. The State Commission may also consider price cap regulation based on comprehensive study. The Forum of Regulators should evolve a comprehensive approach in this regard. The considerations while preparing such an approach would, inter-alia, include issues such as reduction in Aggregate Technical and Commercial losses, improving the standards of performance and reduction in cost of supply.

#### b) Equity Norms

For financing of future capital cost of projects, a Debt: Equity ratio of 70:30 should be adopted. Promoters would be free to have higher quantum of equity investments. The equity in excess of this norm should be treated as loans advanced at the weighted average rate of interest and for a weighted average tenor of the long term debt component of the project after ascertaining the reasonableness of the interest rates and taking into account the effect of debt restructuring done, if any. In case of equity below the normative level, the actual equity would be used for determination of Return on Equity in tariff computations.

#### c) Depreciation

The Central Commission may notify the rates of depreciation in respect of generation and transmission assets. The depreciation rates so notified would also be applicable for distribution assets with appropriate modification as may be evolved by the Forum of Regulators.

Provided that the Appropriate Commission shall specify, for the purpose of tariff determination, a upper ceiling of the rate of depreciation to be applicable during the useful life of the project and the developer shall have the option of indicating, while seeking approval for tariff, lower rate of depreciation subject to the aforesaid ceiling.

The rates of depreciation so notified would be applicable for the purpose of tariffs as well as accounting.

There should be no need for any advance against depreciation.

Benefit of reduced tariff after the assets have been fully depreciated should remain available to the consumers.

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Notwithstanding the above, power from those plants of a generating company, where either whose PPAs have expired or plants have completed their useful life, may be bundled with power from renewable generating plants to be set up through the process of bidding or for which the equipment for setting up such plant is procured through competitive bidding. In such cases, power from such plants can be reallocated to beneficiaries purchasing power from renewable energy generating plants on the principles to be decided by Appropriate Government. The Obligated Entities which finally buy such power shall account towards their renewable purchase obligation to the extent of power bought from renewable energy generating plants.

The scheduling and despatch of such conventional and renewable generating plants shall be done separately.

#### d) Cost of Debt

Structuring of debt, including its tenure, with a view to reducing the tariff should be encouraged. Savings in costs on account of subsequent restructuring of debt should be suitably incentivised by the Regulatory Commissions keeping in view the interests of the consumers.

#### e) Cost of Management of Foreign Exchange Risk

Foreign exchange variation risk shall not be a pass through. However, appropriate costs of hedging and swapping to take care of foreign exchange variations should be allowed for debt obtained in foreign currencies. This provision would be relevant only for the projects where tariff has not been determined on the basis of competitive bids.

#### f) Operating Norms

Suitable performance norms of operations together with incentives and disincentives would need to be evolved along with appropriate arrangement for sharing the gains of efficient operations with the consumers. Except for the cases referred to in para 5.11(h)(2), the operating parameters in tariffs should be at "normative levels" only and not at "lower of normative and actuals". This is essential to encourage better operating performance. The norms should be efficient, relatable to past performance, capable of achievement and progressively reflecting increased efficiencies and may also take into consideration the latest technological advancements, fuel, vintage of equipments, nature of operations, level of service to be provided to consumers etc. Continued and proven inefficiency must be controlled and penalized.

The Central Commission would, in consultation with the Central Electricity Authority, notify operating norms from time to time for generation and transmission. The SERC would adopt these norms. In cases where operations have been much below the norms for many previous years, the SERCs may fix relaxed norms suitably and draw a transition path over the time for achieving the norms notified by the Central Commission, or phase them out in accordance with the norms specified by the Authority in this regard.

Operating norms for distribution networks would be notified by the concerned SERCs. For uniformity, the Forum of Regulators should evolve model guidelines taking into consideration the state specific distinctive features.

#### g) Renovation and Modernization

Renovation and modernization of generation plants (including repowering of wind generating plants) need to be encouraged for higher efficiency levels even though they may have not completed their useful life. This shall not include periodic overhauls. A Multi-Year Tariff (MYT) framework may be prescribed which should also cover capital investments necessary for renovation and modernization and an incentive framework to share the benefits of efficiency improvement between the utilities and the beneficiaries with reference to revised and specific performance norms to be fixed by the Appropriate Commission. Appropriate capital costs required for predetermined efficiency gains and/or for sustenance of high level performance would need to be assessed by the Appropriate Commission.

#### h) Multi Year Tariff

- 1) Section 61 of the Act states that the Appropriate Commission for determining the terms and conditions for the determination of tariff shall be guided, inter-alia, by Multi-Year Tariff (MYT) principles. The framework should feature a five-year control period. The initial control period may, however, be of 3 year duration for transmission and distribution if deemed necessary by the Regulatory Commission on account of data uncertainties and other practical considerations. In cases of lack of reliable data, the Appropriate Commission may state assumptions in MYT for first control period and a fresh control period may be started as and when more reliable data becomes available.
- 2) In cases where operations have been much below the norms for many previous years, the initial starting point in determining the revenue requirement and the improvement trajectories should be recognized at

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"relaxed" levels and not the "desired" levels. Suitable benchmarking studies may be conducted to establish the "desired" performance standards. Separate studies may be required for each utility to assess the capital expenditure necessary to meet the minimum service standards.

- 3) Once the revenue requirements are established at the beginning of the control period, the Regulatory Commission should focus on regulation of outputs and not the input cost elements. At the end of the control period, a comprehensive review of performance may be undertaken.
- 4) Uncontrollable costs should be recovered speedily to ensure that future consumers are not burdened with past costs. Uncontrollable costs would include (but not limited to) fuel costs, costs on account of inflation, taxes and cess, variations in power purchase unit costs including on account of adverse natural events.
- 5) Clear guidelines and regulations on information disclosure may be developed by the Regulatory Commissions. Section 62 (2) of the Act empowers the Appropriate Commission to require licensees to furnish separate details, as may be specified in respect of generation, transmission and distribution for determination of tariff.

#### (i) Benefits under Clean Development Mechanism (CDM)

Tariff fixation for all electricity projects (generation, transmission and distribution) that result in lower Green House Gas (GHG) emissions than the relevant base line should take into account the benefits obtained from the Clean Development Mechanism (CDM) into consideration, in a manner so as to provide adequate incentive to the project developers.

#### (j) Composite Scheme

Sub-section (b) of Section 79(1) of the Act provides that Central Commission shall regulate the tariff of generating company, if such generating company enters into or otherwise have a composite scheme for generation and sale of electricity in more than one State.

Explanation: The composite scheme as specified under section 79(1) of the Act shall mean a scheme by a generating company for generation and sale of electricity in more than one State, having signed long-term or medium-term PPA prior to the date of commercial operation of the project (the COD of the last unit of the project will be deemed to be the date of commercial operation of the project) for sale of atleast 10% of the capacity of the project to a distribution licensee outside the State in which such project is located.

5.12 While it is recognized that the State Governments have the right to impose duties, taxes, cess on sale or consumption of electricity, these could potentially distort competition and optimal use of resources especially if such levies are used selectively and on a non-uniform basis.

In some cases, the duties etc. on consumption of electricity is linked to sources of generation (like captive generation) and the level of duties levied is much higher as compared to that being levied on the same category of consumers who draw power from grid. Such a distinction is invidious and inappropriate. The sole purpose of freely allowing captive generation is to enable industries to access reliable, quality and cost effective power. Particularly, the provisions relating to captive power plants which can be set up by group of consumers has been brought in recognition of the fact that efficient expansion of small and medium industries across the country will lead to faster economic growth and creation of larger employment opportunities.

For realizing the goal of making available electricity to consumers at reasonable and competitive prices, it is necessary that such duties are kept at reasonable level.

5.13 The Act provides for introduction of open access for consumers of one megawatt and above in a time bound manner. The Regulatory Commissions shall introduce open access for different categories of consumers as per the provisions of the Act.

#### 6.0 GENERATION

Accelerated growth of the generation capacity sector is essential to meet the estimated growth in demand. Adequacy of generation is also essential for efficient functioning of power markets. At the same time, it is to be ensured that new capacity addition should deliver electricity at most efficient rates to protect the interests of consumers. This policy stipulates the following for meeting these objectives.

#### 6.1 Procurement of power

As stipulated in para 5.1, power procurement for future requirements should be through a transparent competitive bidding mechanism using the guidelines issued by the Central Government from time to time. These guidelines provide for procurement of electricity separately for base load requirements and for peak load requirements. This would facilitate setting up of generation capacities specifically for meeting such requirements.

However, some of the competitively bid projects as per the guidelines dated 19<sup>th</sup> January, 2005 have experienced difficulties in getting the required quantity of coal from Coal India Limited (CIL). In case of reduced quantity of

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domestic coal supplied by CIL, vis-à-vis the assured quantity or quantity indicated in Letter of Assurance/FSA the cost of imported/market based e-auction coal procured for making up the shortfall, shall be considered for being made a pass through by Appropriate Commission on a case to case basis, as per advisory issued by Ministry of Power vide OM No. FU-12/2011-IPC (Vol-III) dated 31.7.2013.

#### 6.2 Tariff structuring and associated issues

(1) A two-part tariff structure should be adopted for all long-term and medium-term contracts to facilitate Merit Order dispatch. According to National Electricity Policy, the Availability Based Tariff (ABT) is also to be introduced at State level. This framework would be extended to generating stations (including grid connected captive plants of capacities as determined by the SERC). The Appropriate Commission shall introduce differential rates of fixed charges for peak and off peak hours for better management of load within a period of two years.

Power stations are required to be available and ready to dispatch at all times. Notwithstanding any provision contained in the Power Purchase Agreement (PPA), in order to ensure better utilization of un-requisitioned generating capacity of generating stations, based on regulated tariff under Section 62 of the Electricity Act 2003, the procurer shall communicate, at least twenty four hours before 00.00 hours of the day when the power and quantum thereof is not requisitioned by it enabling the generating stations to sell the same in the market in consonance with laid down policy of Central Government in this regard. The developer and the procurers signing the PPA would share the gains realized from sale, if any, of such un-requisitioned power in market in the ratio of 50:50, if not already provided in the PPA. Such gain will be calculated as the difference between selling price of such power and fuel charge. It should, however, be ensured that such merchant sale does not result in adverse impact on the original beneficiary(ies) including in the form of higher average energy charge vis-à-vis the energy charge payable without the merchant sale. For the projects under section 63 of the Act, the methodology for such sale may be decided by the Appropriate Commission on mutually agreed terms between procurer and generator or unless already specified in the PPA.

- (2) Power Purchase Agreement should ensure adequate and bankable payment security arrangements to the Generating companies. In case of persisting default on payment of agreed tariff as per PPA in spite of the available payment security mechanisms like letter of credit, escrow of cash flows etc. the generating companies may sell such power to other buyers.
- (3) In case of coal based generating stations, the cost of project will also include reasonable cost of setting up coal washeries, coal beneficiation system and dry ash handling & disposal system.
- (4) After the award of bids, if there is any change in domestic duties, levies, cess and taxes imposed by Central Government, State Governments/Union Territories or by any Government instrumentality leading to corresponding changes in the cost, the same may be treated as "Change in Law" and may unless provided otherwise in the PPA, be allowed as pass through subject to approval of Appropriate Commission.
- (5) The thermal power plant(s) including the existing plants located within 50 km radius of sewage treatment plant of Municipality/local bodies/similar organization shall in the order of their closeness to the sewage treatment plant, mandatorily use treated sewage water produced by these bodies and the associated cost on this account be allowed as a pass through in the tariff. Such thermal plants may also ensure back-up source of water to meet their requirement in the event of shortage of supply by the sewage treatment plant. The associated cost on this account shall be factored into the fixed cost so as not to disturb the merit order of such thermal plant. The shutdown of the sewage treatment plant will be taken in consultation with the developer of the power plant.

#### 6.3 Harnessing captive generation

Captive generation is an important means to making competitive power available. Appropriate Commission should create an enabling environment that encourages captive power plants to be connected to the grid.

Such captive plants could supply surplus power through grid subject to the same regulation as applicable to generating companies. Firm supplies may be bought from captive plants by distribution licensees using the guidelines issued by the Central Government under section 63 of the Act taking into account second proviso of para 5.2 of this Policy.

The prices should be differentiated for peak and off-peak supply and the tariff should include variable cost of generation at actual levels and reasonable compensation for capacity charges.

Wheeling charges and other terms and conditions for implementation should be determined in advance by the respective State Commission, duly ensuring that the charges are reasonable and fair.

Grid connected captive plants could also supply power to non-captive users connected to the grid through available transmission facilities based on negotiated tariffs. Such sale of electricity would be subject to relevant regulations for open access including compliance of relevant provisions of rule 3 of the Electricity Rules, 2005.

6.4 Renewable sources of energy generation including Co-generation from renewable energy sources:

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(1) Pursuant to provisions of section 86(1)(e) of the Act, the Appropriate Commission shall fix a minimum percentage of the total consumption of electricity in the area of a distribution licensee for purchase of energy from renewable energy sources, taking into account availability of such resources and its impact on retail tariffs. Cost of purchase of renewable energy shall be taken into account while determining tariff by SERCs. Long term growth trajectory of Renewable Purchase Obligations (RPOs) will be prescribed by the Ministry of Power in consultation with MNRE.

Provided that cogeneration from sources other than renewable sources shall not be excluded from the applicability of RPOs.

- (i) Within the percentage so made applicable, to start with, the SERCs shall also reserve a minimum percentage for purchase of solar energy from the date of notification of this policy which shall be such that it reaches 8% of total consumption of energy, excluding Hydro Power, by March 2022 or as notified by the Central Government from time to time.
- (ii) Distribution Licensee(s) shall compulsorily procure 100% power produced from all the Waste-to-Energy plants in the State, in the ratio of their procurement of power from all sources including their own, at the tariff determined by the Appropriate Commission under Section 62 of the Act.
- (iii) It is desirable that purchase of energy from renewable sources of energy takes place more or less in the same proportion in different States. To achieve this objective in the current scenario of large availability of such resources only in certain parts of the country, an appropriate mechanism such as Renewable Energy Certificate (REC) would need to be promoted. Through such a mechanism, the renewable energy based generation companies can sell the electricity to local distribution licensee at the rates for conventional power and can recover the balance cost by selling certificates to other distribution companies and obligated entities enabling the latter to meet their renewable power purchase obligations. The REC mechanism should also have a solar specific REC.
- (iv) Appropriate Commission may also provide for a suitable regulatory framework for encouraging such other emerging renewable energy technologies by prescribing separate technology based REC multiplier (i.e. granting higher or lower number of RECs to such emerging technologies for the same level of generation). Similarly, considering the change in prices of renewable energy technologies with passage of time, the Appropriate Commission may prescribe vintage based REC multiplier (i.e. granting higher or lower number of RECs for the same level of generation based on year of commissioning of plant).
- (2) States shall endeavor to procure power from renewable energy sources through competitive bidding to keep the tariff low, except from the waste to energy plants. Procurement of power by Distribution Licensee from renewable energy sources from projects above the notified capacity, shall be done through competitive bidding process, from the date to be notified by the Central Government.

However, till such notification, any such procurement of power from renewable energy sources projects, may be done under Section 62 of the Electricity Act, 2003. While determining the tariff from such sources, the Appropriate Commission shall take into account the solar radiation and wind intensity which may differ from area to area to ensure that the benefits are passed on to the consumers.

- (3) The Central Commission should lay down guidelines for pricing intermittent power, especially from renewable energy sources, where such procurement is not through competitive bidding. The tariff stipulated by CERC shall act as a ceiling for that category.
- (4) In order to incentivize the Distribution Companies to procure power from renewable sources of energy, the Central Government may notify, from time to time, an appropriate bid-based tariff framework for renewable energy, allowing the tariff to be increased progressively in a back-loaded or any other manner in the public interest during the period of PPA, over the life cycle of such a generating plant. Correspondingly, the procurer of such bid-based renewable energy shall comply with the obligations for payment of tariff so determined.
- (5) In order to promote renewable energy sources, any generating company proposing to establish a coal/lignite based thermal generating station after a specified date shall be required to establish such renewable energy generating capacity or procure and supply renewable energy equivalent to such capacity, as may be prescribed by the Central Government from time to time after due consultation with stakeholders. The renewable energy produced by each generator may be bundled with its thermal generation for the purpose of sale. In case an obligated entity procures this renewable power, then the SERCs will consider the obligated entity to have met the Renewable Purchase Obligation (RPO) to the extent of power bought from such renewable energy generating stations.

Provided further that in case any existing coal and lignite based thermal power generating station, with the concurrence of power procurers under the existing Power Purchase Agreements, chooses to set up additional renewable energy generating capacity, the power from such plant shall be allowed to be bundled and tariff of such renewable energy shall be allowed to be pass through by the Appropriate Commission. The Obligated

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Entities who finally buy such power shall account towards their renewable purchase obligations.

Provided also that scheduling and despatch of such conventional and renewable generating plants shall be done separately.

- (6) In order to further encourage renewable sources of energy, no inter-State transmission charges and losses may be levied till such period as may be notified by the Central Government on transmission of the electricity generated from solar and wind sources of energy through the inter-state transmission system for sale.
- (7) Appropriate Commission may provide regulatory framework to facilitate generation and sale of electricity from renewable energy sources particularly from roof-top solar system by any entity including local authority, Panchayat Institution, user institution, cooperative society, Non-Governmental Organization, franchisee or by Renewable Energy Service Company. The Appropriate Government may also provide complementary policy support for this purpose.

Explanation: "Renewable Energy Service Company" means an energy service company which provides renewable energy to the consumers in the form of electricity.

#### 7.0 TRANSMISSION

The transmission system in the country consists of the regional networks, the inter-regional connections that carry electricity across the five regions and the State networks. Development of the State networks has not been uniform and capacity in such networks needs to be augmented. These networks will play an important role in intra-State power flows and also in the regional and national flows. The tariff policy, in so far as transmission is concerned, seeks to achieve the following objectives:

- 1. Ensuring optimal development of the transmission network ahead of generation with adequate margin for reliability and to promote efficient utilization of generation and transmission assets in the country;
- 2. Attracting the required investments in the transmission sector and providing adequate returns.

#### 7.1 Transmission pricing

(1) A suitable transmission tariff framework for all inter-State transmission, including transmission of electricity across the territory of an intervening State as well as conveyance within the State which is incidental to such interstate transmission, has been implemented with the objective of promoting effective utilization of all assets across the country and accelerated development of new transmission capacities that are required.

(2) The National Electricity Policy mandates that the national tariff framework implemented should be sensitive to distance, direction and related to quantum of power flow. This has been developed by CERC taking into consideration the advice of the CEA. Sharing of transmission charges shall be done in accordance with such tariff mechanism as amended from time to time.

(3) Transmission charges, under this framework, can be determined on MW per circuit kilometer basis, zonal postage stamp basis, or some other pragmatic variant, the ultimate objective being to get the transmission system users to share the total transmission cost in proportion to their respective utilization of the transmission system. The 'utilization' factor should duly capture the advantage of reliability reaped by all. The spread between minimum and maximum transmission rates should be such as not to inhibit planned development/augmentation of the transmission system but should discourage non-optimal transmission investment.

(4) In view of the approach laid down by the NEP, prior agreement with the beneficiaries would not be a precondition for network expansion. CTU/STU should undertake network expansion after identifying the requirements in consonance with the National Electricity Plan and in consultation with stakeholders and taking up the execution after due regulatory approvals. For smooth operation of the grid, efforts should be made to develop transmission system ahead of generation.

(5) The Central Commission has specified norms for capital and operating costs and laid down Standards of Performance for inter-State transmission licensees. Tariff determination and adherence to Standards of Performance shall be carried out in accordance with these norms, as amended from time to time.

(6) Investment by transmission developer including CTU/STUs would be invited through competitive bids in accordance with the guidelines issued by the Central Government from time to time.

(7) While all future inter-state transmission projects shall, ordinarily, be developed through competitive bidding process, the Central Government may give exemption from competitive bidding for (a) specific category of projects of strategic importance, technical upgradation etc. or (b) works required to be done to cater to an urgent situation on a case to case basis.

(8) CERC has specified Regulation on framework for the inter-State transmission. A similar approach should be implemented by SERCs for the intra-State transmission, duly considering factors like voltage, distance, direction and quantum of flow.

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(9)Metering compatible with the requirements of the proposed transmission tariff framework should be established on priority basis. The metering should be compatible with ABT requirements, which would also facilitate implementation of Time of Day (ToD) tariffs.

#### 7.2 Transmission loss allocation

Transactions are being charged on the basis of average losses arrived at after appropriately considering the (1)distance and directional sensitivity, as applicable to relevant voltage level, on the transmission system. Based on the methodology laid down by the CERC in this regard for inter-state transmission, the SERCs may evolve a similar framework for intra-state transmission.

The loss framework should ensure that the loss compensation is reasonable and linked to applicable technical loss benchmarks. The benchmarks may be determined by the Appropriate Commission after considering advice of CEA.

It would be desirable to move to a system of loss compensation based on incremental losses as present (2)deficiencies in transmission capacities are overcome through network expansion. The Appropriate Commission may require necessary studies to be conducted to establish the allowable level of system loss for the network configuration and the capital expenditure required to augment the transmission system and reduce system losses. Since additional flows above a level of line loading lead to significantly higher losses, CTU/STU should ensure upgrading of transmission systems to avoid the situations of overloading. The Appropriate Commission should permit adequate capital investments in new assets for upgrading the transmission system.

#### 7.3 Other issues in transmission

- (1) Financial incentives and disincentives should be implemented for the CTU and the STU around the Key Performance Indicators (KPI) for these organisations. Such KPIs would include efficient network construction, system availability and loss reduction.
- (2) All available information should be shared with intending users by the CTU/STU and the load dispatch centers, particularly information on available transmission capacity and load flow studies.
- (3) In extraordinary circumstances including threat to security to the State, public order or natural calamity, if the Central Government allocates power out of the unallocated share of the Central Generating Stations or otherwise, such allocation of power will have priority over short-term, medium-term and long-term access in this order.

#### 7.4 Ancillary Services

- (1) The Central Commission may introduce the norms and framework for ancillary services, including the method of sharing the charges, necessary to support the power system or grid operation for maintaining power quality, reliability and security of the grid.
- The Central Commission shall also consult the Central Electricity Authority, SERCs/JERCs, CTUs/STUs and (2)NLDC/RLDC/SLDCs while specifying the norms for ancillary services.
- The State Commission shall also adopt the norms and framework for ancillary services as specified by the (3)Central Commission.

#### 8.0 DISTRIBUTION

Supply of reliable and quality power of specified standards in an efficient manner and at reasonable rates is one of the main objectives of the National Electricity Policy. The State Commission should determine and notify the standards of performance of licensees with respect to quality, continuity and reliability of service for all consumers. It is desirable that the Forum of Regulators determines the basic framework on service standards. A suitable transition framework could be provided for the licensees to reach the desired levels of service as quickly as possible. Penalties may be imposed on licensees in accordance with section 57 of the Act for failure to meet the standards.

Making the distribution segment of the industry efficient and solvent is the key to success of power sector reforms and provision of services of specified standards. Therefore, the Regulatory Commissions need to strike the right balance between the requirements of the commercial viability of distribution licensees and consumer interests. Loss making utilities need to be transformed into profitable ventures which can raise necessary resources from the capital markets to provide services of international standards to enable India to achieve its full growth potential. Efficiency in operations should be encouraged. Gains of efficient operations with reference to normative parameters should be appropriately shared between consumers and licensees.

Appropriate Commission should mandate Distribution Licensee to undertake load forecasting every year and to publish and submit to the Commission their short, medium and long-term power procurement plans to meet the load.

The State Regulatory Commission will devise a specific trajectory so that 24 hours supply of adequate and uninterrupted power can be ensured to all categories of consumers by 2021-22 or earlier depending upon the prevailing situation in the State.

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Micro-grids supplying renewable energy are being set up in such areas where the grid has not reached or where adequate power is not available in the grid. Investment involved in setting up of such microgrids is substantial. One of the risks of investment is grid reaching the area before the completion of the project life and thereby making power from micro grids costly and unviable. In order to mitigate such risk and incentivize investment in microgrids, there is a need to put in place an appropriate regulatory framework to mandate compulsory purchase of power into the grid from such micro grids at a tariff to be determined under section 62 of the Act considering depreciated cost of investments and keeping in view industry benchmark and with a cap if necessary, as approved by the Appropriate Commission. The Appropriate Commission shall notify necessary regulations in this regard within six months.

#### 8.1 Implementation of Multi-Year Tariff (MYT) framework

- MYT framework would minimise risks for utilities and consumers, promote efficiency and appropriate reduction of system losses and attract investments. It would also bring greater predictability to consumer tariffs on the whole by restricting tariff adjustments to known indicators of power purchase prices and inflation indices. The framework should be applied for both public and private utilities.
- 2) The State Commissions should introduce mechanisms for sharing of excess profits and losses with the consumers as part of the overall MYT framework. In the first control period the incentives for the utilities may be asymmetric with the percentage of the excess profits being retained by the utility set at higher levels than the percentage of losses to be borne by the utility. This is necessary to accelerate performance improvement and reduction in losses and will be in the long term interest of consumers by way of lower tariffs.
- As indicated in para 5.11(h), the MYT framework implemented in the initial control period should have adequate 3) flexibility to accommodate changes in the baselines consequent to metering being completed.
- Licensees may have the flexibility of charging lower tariffs than approved by the State Commission if 4) competitive conditions require so without having a claim on additional revenue requirement on this account in accordance with Section 62 of the Act.
- At the beginning of the control period when the "actual" costs form the basis for future projections, there may be 5) a large uncovered gap between required tariffs and the tariffs that are presently applicable. This gap should be fully met through tariff charges and through alternative means that could inter-alia include financial restructuring and transition financing.
- Incumbent licensees should have the option of filing for separate revenue requirements and tariffs for an area 6) where the State Commission has issued multiple distribution licenses, pursuant to the provisions of Section 14 of the Act read with para 5.4.7 of the National Electricity Policy.
- Appropriate Commissions should initiate tariff determination and regulatory scrutiny on a suo moto basis in 7) case the licensee does not initiate filings in time. It is desirable that requisite tariff changes come into effect from the date of commencement of each financial year and any gap on account of delay in filing should be on account of licensee.

#### 8.2 Framework for revenue requirements and costs

- 8.2.1 The following aspects would need to be considered in determining tariffs:
  - (1) All power purchase costs need to be considered legitimate unless it is established that the merit order principle has been violated or power has been purchased at unreasonable rates. The reduction of Aggregate Technical & Commercial (AT&C) losses needs to be brought about but not by denying revenues required for power purchase for 24 hours supply and necessary and reasonable O&M and investment for system upgradation. Consumers, particularly those who are ready to pay a tariff which reflects efficient costs have the right to get uninterrupted 24 hours supply of quality power. Actual level of retail sales should be grossed up by normative level of T&D losses as indicated in MYT trajectory for allowing power purchase cost subject to justifiable power purchase mix variation (for example, more energy may be purchased from thermal generation in the event of poor rainfall) and fuel surcharge adjustment as per regulations of the SERC.
  - (2) AT&C loss reduction should be incentivised by linking returns in a MYT framework to an achievable trajectory. Greater transparency and nurturing of consumer groups would be efficacious. For government owned utilities improving governance to achieve AT&C loss reduction is a more difficult and complex challenge for the SERCs. Prescription of a MYT dispensation with different levels of consumer tariffs in succeeding years linked to different AT&C loss levels aimed at covering full costs could generate the requisite political will for effective action to reduce theft as the alternative would be stiffer tariff increases. Third party verification of energy audit results for different areas/localities could be used to impose area/locality specific surcharge for greater AT&C loss levels and this in turn could generate local consensus for effective action for better governance. The SERCs may also encourage suitable local area based incentive and disincentive scheme for the staff of the utilities linked to reduction in losses.

The SERC shall undertake independent assessment of baseline data for various parameters for every distribution circle of the licensee.

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The SERC shall also institute a system of independent scrutiny of financial and technical data submitted by the licensees.

As the metering is completed up to appropriate level in the distribution network, it should be possible to segregate technical losses. Accordingly technical loss reduction under MYT framework should then be treated as distinct from commercial loss reduction which requires a different approach.

- (3) Section 65 of the Act provides that no direction of the State Government regarding grant of subsidy to consumers in the tariff determined by the State Commission shall be operative if the payment on account of subsidy as decided by the State Commission is not made to the utilities and the tariff fixed by the State Commission shall be applicable from the date of issue of orders by the Commission in this regard. The State Commissions should ensure compliance of this provision of law to ensure financial viability of the utilities. To ensure implementation of the provision of the law, the State Commission should determine the tariff initially, without considering the subsidy commitment by the State Government and subsidised tariff shall be arrived at thereafter considering the subsidy by the State Government for the respective categories of consumers.
- (4) Working capital should be allowed duly recognising the transition issues faced by the utilities such as progressive improvement in recovery of bills. Bad debts should be recognised as per policies developed and subject to the approval of the State Commission.
- (5) Pass through of past losses or profits should be allowed to the extent caused by uncontrollable factors. During the transition period controllable factors should be to the account of utilities and consumers in proportions determined under the MYT framework.
- (6) The contingency reserves should be drawn upon with prior approval of the State Commission only in the event of contingency conditions specified through regulations by the State Commission. The existing practice of providing for development reserves and tariff and dividend control reserves should be discontinued.

(7) Section 61 of the Act mandates that the Appropriate Commission, while determining tariff, shall not only ensure safeguarding of consumer's interests but also the recovery of the cost of electricity in a reasonable manner. Section 62 of the Act further provides for periodic tariff adjustment during a year to take care of the variation in fuel price, as may be specified.

Therefore, the Appropriate Commission shall specify an appropriate price adjustment formula for recovery of the costs, arising on account of the variation in the price of fuel, power purchase etc. on monthly/quarterly basis for recovery of all prudent costs of the generating company and the licensee.

8.2.2 The facility of a regulatory asset has been adopted by some Regulatory Commissions in the past to limit tariff impact in a particular year. This should be done only as a very rare exception in case of natural calamity or force majeure conditions and subject to the following:

- a. Under business as usual conditions, no creation of Regulatory Assets shall be allowed;
- b. Recovery of outstanding Regulatory Assets along with carrying cost of Regulatory Assets should be time bound and within a period not exceeding seven years. The State Commission may specify the trajectory for the same.

#### 8.3 Tariff design: Linkage of tariffs to cost of service

It has been widely recognised that rational and economic pricing of electricity can be one of the major tools for energy conservation and sustainable use of ground water resources.

In terms of the Section 61(g) of the Act, the Appropriate Commission shall be guided by the objective that the tariff progressively reflects the efficient and prudent cost of supply of electricity.

The State Governments can give subsidy to the extent they consider appropriate as per the provisions of section 65 of the Act. Direct subsidy is a better way to support the poorer categories of consumers than the mechanism of cross-subsidizing the tariff across the board. Subsidies should be targeted effectively and in transparent manner. As a substitute of cross subsidies, the State Government has the option of raising resources through mechanism of electricity duty and giving direct subsidies to only needy consumers. This is a better way of targeting subsidies effectively.

Accordingly, the following principles would be adopted:

- 1. Consumers below poverty line who consume below a specified level, as prescribed in the National Electricity Policy may receive a special support through cross subsidy. Tariffs for such designated group of consumers will be at least 50% of the average cost of supply.
- 2. For achieving the objective that the tariff progressively reflects the cost of supply of electricity, the Appropriate Commission would notify a roadmap such that tariffs are brought within ±20% of the average cost of supply. The road map would also have intermediate milestones, based on the approach of a gradual

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- 3. While fixing tariff for agricultural use, the imperatives of the need of using ground water resources in a sustainable manner would also need to be kept in mind in addition to the average cost of supply. Tariff for agricultural use may be set at different levels for different parts of a state depending on the condition of the ground water table to prevent excessive depletion of ground water. Section 62 (3) of the Act provides that geographical position of any area could be one of the criteria for tariff differentiation. A higher level of subsidy could be considered to support poorer farmers of the region where adverse ground water table condition requires larger quantity of electricity for irrigation purposes subject to suitable restrictions to ensure maintenance of ground water levels and sustainable ground water usage.
- 4. Extent of subsidy for different categories of consumers can be decided by the State Government keeping in view various relevant aspects. But provision of free electricity is not desirable as it encourages wasteful consumption of electricity. Besides in most cases, lowering of water table in turn creating avoidable problem of water shortage for irrigation and drinking water for later generations. It is also likely to lead to rapid rise in demand of electricity putting severe strain on the distribution network thus adversely affecting the quality of supply of power. Therefore, it is necessary that reasonable level of user charges is levied. The subsidized rates of electricity should be permitted only up to a pre-identified level of consumption beyond which tariffs reflecting efficient cost of service should be charged from consumers. If the State Government wants to reimburse even part of this cost of electricity to poor category of consumers the amount can be paid in cash or any other suitable way. Use of prepaid meters can also facilitate this transfer of subsidy to such consumers.
- 5. Metering of supply to agricultural/rural consumers can be achieved in a consumer friendly way and in effective manner by management of local distribution in rural areas through commercial arrangement with franchisees with involvement of panchayat institutions, user associations, cooperative societies etc. Use of smart meters may be encouraged as a cost effective option for metering in cases of "limited use consumers" who are eligible for subsidized electricity.

#### 8.4 Definition of tariff components and their applicability

- 1. Two-part tariffs featuring separate fixed and variable charges and time differentiated tariff shall be introduced on priority for large consumers (say, consumers with demand exceeding 1 MW) within one year and subsequently for all consumers within a period of five years or such period as may be specified. This would also help in flattening the peak and implementing various energy conservation measures.
- 2. The National Electricity Policy states that existing PPAs with the generating companies would need to be suitably assigned to the successor distribution companies. The State Governments may make such assignments taking care of different load profiles of the distribution companies so that retail tariffs are uniform in the State for different categories of consumers. Thereafter, the retail tariffs would reflect the relative efficiency of distribution companies in procuring power at competitive costs, controlling theft and reducing other distribution losses.
- 3. The Appropriate Commission may provide incentives to encourage metering and billing based on metered tariffs, particularly for consumer categories that are presently unmetered to a large extent. The metered tariffs and the incentives should be given wide publicity. Smart meters have the advantages of remote metering and billing, implementation of peak and off-peak tariff and demand side management through demand response. These would become essential in future for load-generation balancing due to increasing penetration of intermittent type of generation like wind and solar power.

Appropriate Commission shall, therefore, mandate smart meters for:

- (a) Consumers with monthly consumption of 500 units and more at the earliest but not later than 31.12.2017;
- (b) Consumers with monthly consumption above 200 units by 31.12.2019.

Further, two way smart meters shall be provided to all prosumers, who also sell back electricity to the grid as and when they require.

In order to enable energy audit in the distribution system, all distribution companies shall ensure smart meters in their electricity system throughout the chain from transformers at 132kV level right down to distribution transformer level at 11kV and further down to each consumer. Further, in order to reduce theft of power, the distribution companies should have enabling feature like distribution SCADA with distribution management system and energy audit functions. SERCs shall mandate these to be in place within two years.

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#### THE GAZETTE OF INDIA: EXTRAORDINARY

- 37 [PART I—SEC. 1]
- 4. The SERCs may also suitably regulate connection charges to be recovered by the distribution licensee to ensure that second distribution licensee does not resort to cherry picking by demanding unreasonable connection charges. The connection charges of the second licensee should not be more than those payable to the incumbent licensee.

8.5 Cross-subsidy surcharge and additional surcharge for open access

8.5.1 National Electricity Policy lays down that the amount of cross-subsidy surcharge and the additional surcharge to be levied from consumers who are permitted open access should not be so onerous that it eliminates competition which is intended to be fostered in generation and supply of power directly to the consumers through open access.

A consumer who is permitted open access will have to make payment to the generator, the transmission licensee whose transmission systems are used, distribution utility for the wheeling charges and, in addition, the cross subsidy surcharge. The computation of cross subsidy surcharge, therefore, needs to be done in a manner that while it compensates the distribution licensee, it does not constrain introduction of competition through open access. A consumer would avail of open access only if the payment of all the charges leads to a benefit to him. While the interest of distribution licensee needs to be protected it would be essential that this provision of the Act, which requires the open access to be introduced in a time-bound manner, is used to bring about competition in the larger interest of consumers.

SERCs may calculate the cost of supply of electricity by the distribution licensee to consumers of the applicable class as aggregate of (a) per unit weighted average cost of power purchase including meeting the Renewable Purchase Obligation; (b) transmission and distribution losses applicable to the relevant voltage level and commercial losses allowed by the SERC; (c) transmission, distribution and wheeling charges up to the relevant voltage level; and (d) per unit cost of carrying regulatory assets, if applicable.

#### Surcharge formula:

S = T - [C/(1-L/100) + D + R]

Where

S is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation

D is the aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level

L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level

R is the per unit cost of carrying regulatory assets.

Above formula may not work for all distribution licensees, particularly for those having power deficit, the State Regulatory Commissions, while keeping the overall objectives of the Electricity Act in view, may review and vary the same taking into consideration the different circumstances prevailing in the area of distribution licensee.

Provided that the surcharge shall not exceed 20% of the tariff applicable to the category of the consumers seeking open access.

Provided further that the Appropriate Commission, in consultation with the Appropriate Government, shall exempt levy of cross subsidy charge on the Railways, as defined in Indian Railways Act, 1989 being a deemed licensee, on electricity purchased for its own consumption.

- 8.5.2 No surcharge would be required to be paid in terms of sub-section (2) of Section 42 of the Act on the electricity being sold by the generating companies with consent of the competent government under Section 43(A)(1)(c) of the Electricity Act, 1948 (now repealed) and on the electricity being supplied by the distribution licensee on the authorisation by the State Government under Section 27 of the Indian Electricity Act, 1910 (now repealed), till the current validity of such consent or authorisation.
- 8.5.3 The surcharge may be collected either by the distribution licensee, the transmission licensee, the STU or the CTU, depending on whose facilities are used by the consumer for availing electricity supplies. In all cases the amounts collected from a particular consumer should be given to the distribution licensee in whose area the

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consumer is located. In case of two licensees supplying in the same area, the licensee from whom the consumer was availing supply shall be paid the amounts collected.

- 8.5.4 The additional surcharge for obligation to supply as per section 42(4) of the Act should become applicable only if it is conclusively demonstrated that the obligation of a licensee, in terms of existing power purchase commitments, has been and continues to be stranded, or there is an unavoidable obligation and incidence to bear fixed costs consequent to such a contract. The fixed costs related to network assets would be recovered through wheeling charges.
- 8.5.5 Wheeling charges should be determined on the basis of same principles as laid down for intra-state transmission charges and in addition would include average loss compensation of the relevant voltage level.
- 8.5.6 In case of outages of generator supplying to a consumer on open access, standby arrangements should be provided by the licensee on the payment of tariff for temporary connection to that consumer category as specified by the Appropriate Commission. Provided that such charges shall not be more than 125 percent of the normal tariff of that category.

#### 9.0 Trading Margin

The Act provides that the Appropriate Commission may fix the trading margin, if considered necessary. Though there is a need to promote trading in electricity for making the markets competitive, the Appropriate Commission should monitor the trading transactions continuously and ensure that the electricity traders do not indulge in profiteering in situation of power shortages. Fixing of trading margin should be resorted to for achieving this objective.

JYOTI ARORA, Jt. Secy

APPENDIX

#### SALIENT FEATURES OF THE APPROVED R&R PROVISIONS FOR HYDRO POWER PROJECTS

#### 1. SCOPE OF COVERAGE

The following provisions shall be applicable even if one family is affected by the development of a Hydro Power Project.

#### 2. DEFINITION OF PROJECT AFFECTED FAMILIES (PAFs)

A Project Affected Family (PAF) shall mean a family whose place of residence or other property or source of livelihood has been affected by the development of a hydro project and who have been residing in the affected zone for two years preceding the date of declaration of notification under Section-11 of the LARR Act. The affected family would also include squatters.

#### 3. DEFINITION OF AGRICULTURAL LABOURER

A person normally residing in the affected zone for two years preceding the date of declaration of the affected zone and earns his/her livelihood principally by manual labour on agricultural land.

#### 4. DEFINITION OF NON-AGRICULTURAL LABOURER

A person normally residing in the affected zone for two years preceding the date of declaration of the affected zone and who does not hold any land in the affected zone but earns his/her livelihood principally by manual labour or as rural artisan or a service provider to the community.

#### 5. DEFINITION OF SQUATTERS

A family occupying Government land in the affected zone without a legal title, at least for 5 years prior to the date of declaration of notification under Section-11 of LARR Act.

#### 6. REHABILITATION/RESETTLEMENT COLONIES

This policy aims to provide built up houses to Project Affected Families (PAFs) who get displaced due to the development of hydro projects to the extent possible. However, wherever opted for, liberal House Construction Allowance would be given in lieu.

#### 7. TRAINING AND CAPACITY BUILDING

This policy also emphasizes the need to provide training to the Project Affected Families as well as to the local population for a sustained livelihood. Special training programmes from ITIs aimed at providing the required skills

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### THE GAZETTE OF INDIA: EXTRAORDINARY

to the local population would be undertaken by the Project developers at least six months prior to commencement of construction. This is expected to boost the employability of the PAFs and other people residing in the vicinity of the project.

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#### 8. ADDITIONAL PROVISIONS

This policy envisages additional provisions for Project Affected Families such as:

- o scholarships for meritorious students,
- o extension of medical facilities,
- o marriage grants,
- o subsistence grants,
- o support for income generation schemes for cooperative and self-help groups,
- o seed, pesticides and fertilizer subsidies, and irrigation support.

Besides the additional provisions mentioned above, the normally applicable provisions of the National Policy on Rehabilitation and resettlement, currently in force, would be applicable.

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जारों करने वाली का भारतीय स्टेट बैंक Issuing Branch EFF State Bank of IBWARKA, NDELHI कोइ. NCODE No: 11361 Taken 011-28052750 मामे जानेपर TAM 40 Key: VEJMEQ मांगड्रापट 1 2 0 8 2 0 1 6 Sr. No: 331784 D D M M **DEMAND DRAFT** मामे जानेपर TAMILNADU ELECTRICITY REGULATO RY COMMISSION\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* या उनके आदेश पर OR ORDER . Two Laikh Only रुपये RUPEES ₹200000.00 अदा करें ĝ IOI 000409350571 Key: VEJMEQ Sr. No: 331784 AMOUNT BELOW 200001(2/6) मूल्य प्राप्त / VALUE RECEIVED MADRAS SECURITY PRINTERS PVT. भारतीय स्टेट बैंक STATE BANK OF INDIA अदाकती शाखा / DRAWEE BRANCH:CHENNAI MAIN BRANCH terwano 8191 CH MANAG Srivastava कम्प्यूटर द्वारा मुद्रित होने पर ही वैध VALID ONLY IF COMPUTER PRINTED केवल 3 महीने के लिए वैध VALID FOR 3 MONTHS ONLY <del>ъ</del> सेद ₹ 1,50,0 रा हस्ताक्ष्मेरेत् UNLESS SIGN OFFIC #350571# 000002000# 000409# 16

# BEFORE THE HON'BLE TAMIL NADU ELECTRICITY REGULATORY COMMISSION, CHENNAI PETITION NO. OF 2016

# **IN THE MATTER OF:**

**Open Access Users Association** 

... Petitioner

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### VERSUS

Tamil Nadu Generation and Distribution Corporation Ltd.

... Respondent

## **VAKALATNAMA**

I, Abhinandan Das, Legal Officer, Open Access Users Association, Petitioner in the above Petition do hereby appoint and retain Mr. Anand K. Ganesan & Ms. Swapna Seshadri, Advocates to appear, plead and act for me in the above petition and to conduct and prosecute all proceedings that may be taken in respect thereof and applications for return of documents, enter into compromise and to draw any moneys payable to me in the said proceeding and also to appear in all applications for review and for leave to the Supreme Court of India in all applications for review of judgment.

Place :

Date :

Executed in my presence.

\*Signature with date

(Name and Designation)

(Address for service on the Counsel for Petitioner / Respondent. Furnish C-67, Lower Ground Floor, Nizamuddin (East) New Delhi - 110013 Phone No. 011-41403716 9810941482 / 9818735544

Signature of the Party \*0ľ One Weers Association "Accepted Authorised Signatory

(ABHINANDAN DAS) \*Signature with date (Name and Designation)

# **BEFORE THE HON'BLE TAMIL NADU ELECTRICITY REGULATORY COMMISSION, CHENNAI**

# FILING NO. CASE NO.

# (To be filled by the Office)

# **IN THE MATTER OF:**

Petition under Section 42(2), 86(1)(a) and other applicable provisions of the Electricity Act, 2003 for re-determination of Cross Subsidy Surcharge levied from Open Access Consumers in line with the National Tariff Policy, 2016.

## AND

# IN THE MATTER OF:

**Open Access Users Association** ...Petitioner Open Access Users Association, 2 ND Floor, D21 Corporate Park, Sector- 8, Dwarka, New Delhi - 110075

### AND

Tamil Nadu Generation and Distribution Corporation Ltd. No. 144, Anna Salai ...Respondent Chennai – 600 002

# **AFFIDAVIT VERIFYING THE PETITION**

I, Abhinandan Das, son of Shri Debasish Das, aged about 28 years, resident of D-108, 4<sup>th</sup> floor, Dwarka Sector 8, New Delhi -110075, do hereby solemnly affirm and say as follows:

1. I am a Legal Officer in the petitioner Association in the above matter and am duly authorised by the said petitioner to make this affidavit on its behalf. 2. I solemnly affirm at New Delhi on this 13th day of August, 2016.

(i) the contents of the above petition are true to my knowledge and I believe that no part of it is false and no material has been concealed therefrom.

(ii) that the statement made in the petition herein now

(iii) the statements made in the letter Marked as ' B' are based on present circumstances and I believe them to be true.

# Identified before me by :

For Open Access Users Ass

Authorised Signatory