

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

(CIN No. U40109MH2005SGC153646)

STATE TRANSMISSION UTILITY

Prakashganga, 4th Floor, Plot No. C-19, 'E' Block,

Bandra-Kurla Complex, Mumbai-400 051.

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Website : www.mahatransco.in

Ref: MSETCL/STU/

Date: 24 December 2019

To,

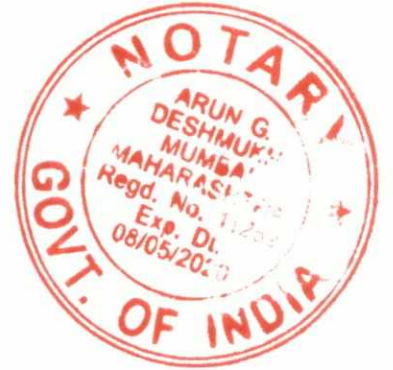
The Secretary,

Maharashtra Electricity Regulatory Commission,

13th Floor, World Trade Centre – I,

Cuffe Parade, Colaba

Mumbai – 400005



Sub: Revised Petition for determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25

Dear Sir,

In connection with the subject matter, please find enclosed herewith the Petition for determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25 under the provisions of Maharashtra Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2019.

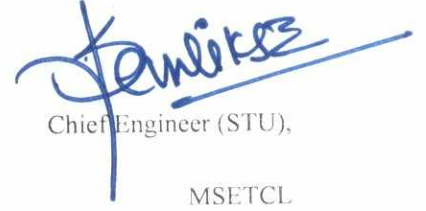
The necessary fees of Rs. 1000/- (Rupees One Thousand Only) as specified in Sr. No. 18 of MERC (Fees and Charges) Regulations, 2017, is being submitted vide RTGS (Reference Transaction No. CBINH19331510113 dated November 27, 2019.

Submitted for kind consideration of Hon'ble Commission please.

Thanking you,

Encl: As Above (1+6 Copies)

Yours faithfully,


Chief Engineer (STU),
MSETCL

Copy's to;

Chairman & Managing Director, MSETCL

Director (Finance), MSETCL

Director (Operations), MSETCL

Director (Projects), MSETCL

Chief Engineer (Trans. O&M), MSETCL

Chief Engineer (SLDC), MSETCL



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Before the Hon'ble Maharashtra Electricity Regulatory Commission, Mumbai

Filing No. _____

Case No. _____

IN THE MATTER OF:

PETITION IN REGARD TO determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25

AND

IN THE MATTER OF THE APPLICANT:

STATE TRANSMISSION UTILITY,

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED,

'PRAKASHGANGA', PLOT NO.C-19, E- BLOCK,

BANDRA KURLA COMPLEX, BANDRA (EAST),

MUMBAI – 400 051.

----- The Petitioner



Affidavit on behalf of Maharashtra State Electricity Transmission Company Limited

I, Shashank Jewalikar aged 48 years, son of Subhashrao Jewalikar having my office at 4th Floor, 'Prakashganga', Plot No. C-19, E-Block, Bandra Kurla Complex, Bandra (East), Mumbai – 400 051 do solemnly affirm and say as follows:-

1. I am the Chief Engineer (STU) of the Maharashtra State Electricity Transmission Company Limited and the Petitioner in the above matter and I am duly authorized by the said applicant to make this affidavit.
2. The statements made in the enclosed submission are based on the information from the concerned officers of the Company and I believe them to be true.

3. I say that there are no proceedings pending in any court of law/ tribunal or arbitrator or any other authority, wherein the Petitioner is a party and where issues arising and/or reliefs sought are identical or similar to the issues arising in the matter pending before the Hon'ble Commission.

I solemnly affirm at Mumbai on this 24th day of December, 2019 that the contents of the above affidavit are true to my knowledge, no part of it is false, and nothing material has been concealed there from.

(-----)

Identified before me

Place : Mumbai

Date: 24 December 2019

Shashank Jewalikar

Chief Engineer (STU)

MSETCL



BEFORE ME

ARUN G. DESHMUKH
REGD. No. 11252 B.Com., LL.B.,
ADVOCATE HIGH COURT
NOTARY GOVT. OF INDIA
Office : Shop No. 1, Vinayak Darshan, Apartment,
Ganesh Peth Lane, Dadar (W), Mumbai-400 028.



Before the Hon'ble Maharashtra Electricity Regulatory Commission, Mumbai

Filing No. _____

Case No. _____

IN THE MATTER OF:

PETITION IN REGARD TO DETERMINATION OF INTRA-STATE TRANSMISSION TARIFF FOR THE
MYT CONTROL PERIOD FROM FY 2020-21 TO FY 2024-25.

AND

IN THE MATTER OF THE APPLICANT:

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED, 'PRAKASHGANGA',
PLOT NO.C-19, E- BLOCK,

BANDRA KURLA COMPLEX, BANDRA (EAST),

MUMBAI – 400 051

-----The Petitioner

The applicant, Maharashtra State Electricity Transmission Company Limited (MSETCL) is a Company incorporated under the provisions of the Companies Act, 1956 having its registered office at "Prakashganga", Plot No. C-19, E-Block, Bandra- Kurla Complex, Mumbai-400051 is making this Petition for determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25 under the Provisions of Regulations 64.5 of Maharashtra Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2019.

The Maharashtra State Electricity Transmission Company Ltd. (MSETCL), hereinafter referred to as "the Petitioner" is a Company incorporated under the provisions of the Companies Act, 1956, having its registered office at "Prakashganga", Plot No. C-19, E-Block, Bandra- Kurla Complex, Mumbai-400051, pursuant to the decision of Government of Maharashtra to reorganize erstwhile Maharashtra State Electricity Board (hereinafter referred to as "MSEB"). The Petitioner submits that the said reorganisation of the MSEB has been done by the Government of Maharashtra pursuant to "Part XIII – Reorganisation of Board" read with section 131 of the Electricity Act 2003 (EA, 2003). The Petitioner is a transmission licensee under the provisions of the EA, 2003 and responsible for transmission of electricity in the intra-State Transmission System.



1. Executive Summary

1.1. Background

- 1.1.1. The Hon'ble Commission, in its Order dated 27 June 2006 in Case No. 58 of 2005, the Commission set out the Transmission Pricing Framework for the State of Maharashtra in accordance with the principles specified in that Order.
- 1.1.2. While MERC (MYT) Regulations, 2019 govern the Tariff determination for the fourth control period from FY 2020-21 to FY 2024-25, Regulations 64, 65 and 66 of the same dictate the methodology and principles for determination of Transmission Tariff for the use of the Intra-State Transmission System (hereinafter referred to as 'InSTS').
- 1.1.3. The Hon'ble Commission has previously notified Transmission Tariff of InSTS Transmission System for 3rd Control Period FY 2016-17 to FY 2019-20 in its Order in Case No. 91 of 2016. It further modified the Transmission Tariff for FY 2018-19 and FY 2019-20 vide its Order in Case No. 265 of 2018 dated 12 September 2018.
- 1.1.4. The Transmission Tariff is proposed through detailed computation in different sections of this petition. The Constituents of the Intra-State Transmission System are finalized at the beginning. This is followed by computation of Total Transmission System Cost (TTSC) and determination of Base Transmission Capacity Rights (Base TCR). On identifying Base TCR, Transmission Tariff is computed. Further, a proposal for sharing of TTSC among the TSUs is humbly submitted to the Hon'ble Commission for its perusal.

1.2. The Present Petition

- 1.2.1. The present petition is regarding approval of the In-STS transmission tariff forecast for Long term, Medium-term and Short-term transmission system users for FY 2020-21 to FY 2024-25 according to the principle of the Commission set out in MERC (MYT) Regulations, 2019



Table 1: Summary of Base TCR, TTSC Long-term, Medium-term and Short-term transmission tariff

Particulars	Unit	Reference	Ensuing Years				
			FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Total Transmission System Cost (TTSC)	Rs. Crore	Form 1	12,260.56	7,543.15	7,949.73	8,668.61	9,414.99
Base Transmission Capacity Rights	MW	Form 3	22,154.87	23,304.08	24,513.51	25,787.70	27,130.23
Transmission Tariff (long term/ medium term)	Rs./kW/month		461.17	269.74	270.25	280.13	289.19
Transmission Tariff (short term/ short term collective/ renewable energy)	Rs./kWh		0.77	0.46	0.47	0.49	0.52
Energy Units Transmitted (Discom Projections)	MUs		1,59,700.93	1,65,005.11	1,70,597.45	1,76,498.51	1,82,734.64

1.2.2. The Long- term and Medium Term Transmission Tariff for Fourth Control Period is calculated at Rs. 461.17 per kW per month for FY2020-21, Rs. 269.74 per kW per month for FY2021-22, Rs. 270.25 per kW per month for FY2022-23, Rs. 280.13 per kW per month for FY2023-24, and Rs. 289.19 per kW per month for FY2024-25.

1.2.3. The Short- term Transmission Tariff for Fourth Control Period is calculated at Rs. 0.77 per kWh for FY2020-21, Rs. 0.46 per kWh for FY2021-22, Rs. 0.47 per kWh for FY2022-23, Rs. 0.49 per kWh for FY2023-24, and Rs. 0.52 per kWh for FY2024-25.

1.3. The Prayers

MSETCL respectfully prays the Hon'ble Commission to

1. Admit this Petition for determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25 as per MERC (MYT) Regulations, 2019;
2. Approve the In-STS transmission tariff forecast for Long-term, Medium-term and Short-term transmission system users for FY 2020-21 to FY 2024-25 as provided in the Petition according to the principle of the Commission set out in MERC (MYT) Regulations, 2019;
3. Approve the Intra-State Transmission Loss for FY 2020-21 to FY 2024-25.
4. Provide the workable excel model used by the Hon'ble Commission for approval of the Petition for determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25; and
5. Condone any shortcomings/deficiencies and allow MSETCL to submit additional information/data at a later stage as may be required.

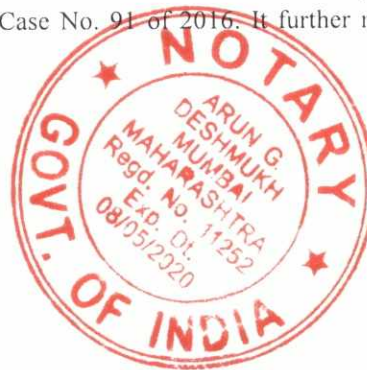


2. Introduction

- 2.1.1. Maharashtra State Electricity Transmission Company Limited (MSETCL) is a State Transmission Utility (hereinafter referred to as 'STU') with a dedicated responsibility of planning, developing, operating and maintaining the State Transmission System to facilitate transmission of electricity from its source to load centers. Maharashtra State Electricity Transmission Company Limited (MSETCL) was incorporated under the provisions of the Companies Act, 1956.
- 2.1.2. Maharashtra State Electricity Transmission Company Limited was designated State Transmission Utility by the State Government vide Section 131 and Section 39 of the Electricity Act, 2003. The major functions of STU are:
- to undertake transmission of electricity through Intra-State transmission system
 - to discharge all functions of planning and coordination relating to intra-State transmission system with CTU, State Government, Generating Companies, RPC, Authority, Licensees, and any other person notified by the state government
 - to ensure the development of an efficient, co-ordinated and economical system of intra-State transmission lines for smooth flow of electricity from a generating station to the load centres;
 - to provide non-discriminatory open access to its transmission system
- 2.1.3. In line with the functions mentioned above, STU intends to discharge its duty by analysing the Transmission Cost of the Intra state Transmission System in the state and apportion the costs to the users appropriately, in line with the Maharashtra Electricity Regulatory Commission (MYT) Regulations, 2019 (hereinafter referred to as 'MERC (MYT) Regulations, 2019') as amended from time to time.

3. Background

- 3.1.1. The Hon'ble Commission, in its Order dated 27 June 2006 in Case No. 58 of 2005, the Commission set out the Transmission Pricing Framework for the State of Maharashtra in accordance with the principles specified in that Order. Subsequent Tariff Regulations provided governing methodology and principles for computation of Transmission Tariff.
- 3.1.2. While MERC (MYT) Regulations, 2019 govern the Tariff determination for the fourth control period from FY 2020-21 to FY 2024-25, Regulations 64, 65 and 66 of the same dictate the methodology and principles for determination of Transmission Tariff for the use of the Intra-State Transmission System (hereinafter referred to as 'InSTS'). Regulation 64 provides for computation of Total Transmission System Cost (hereinafter referred to as 'TTSC') and Base Transmission Capacity Rights (hereinafter referred to as 'Base TCR')
- 3.1.3. Regulation 65 provides methodology of sharing of TTSC and computation of Annual Transmission Charges among various users. Further, Regulation 66 details the types of users to be considered in the computation of Transmission Tariff.
- 3.1.4. The Hon'ble Commission has previously notified Transmission Tariff of InSTS Transmission System for 3rd Control Period FY 2016-17 to FY 2019-20 in its Order in Case No. 91 of 2016. It further modified the



Transmission Tariff for FY 2018-19 and FY 2019-20 vide its Order in Case No. 265 of 2018 dated 12 September 2018.

- 3.1.5. The Transmission Tariff is proposed through detailed computation in different sections of this petition. The Constituents of the Intra-State Transmission System are finalized at the beginning. This is followed by computation of Total Transmission System Cost (TTSC) and determination of Base Transmission Capacity Rights (Base TCR). On identifying Base TCR, Transmission Tariff is computed. Further, a proposal for sharing of TTSC among the TSUs is humbly submitted to the Hon'ble Commission for its perusal.

4. Constituents of InSTS

- 4.1.1. According to the transmission pricing framework, all the Transmission Licensees in the State form part of the InSTS, and their projected Aggregate Revenue Requirements (ARRs) for FY 2020-21 to FY 2024-25 are being considered for determining the TTSC.
- 4.1.2. These figures have been arrived on as per the 'Multi-Year Tariff (MYT) Petition of each of the Transmission Licensees for Truing- up of FY 2017-18 and FY 2018-19 and Provisional Truing-up of FY 2019-20 and approval of ARR for each year of the control period FY 2020-21 to FY 2024-25'.

5. TTSC of InSTS for FY 2020-21 to FY 2024-25

- 5.1.1. The aggregate of the yearly revenue requirement for all Transmission Licensees forms the "Total Transmission System Cost" (TTSC) of the Intra-State transmission system, to be recovered from the Transmission System Users (TSUs) for the respective year of the Control Period, in accordance with Regulation 64 of MERC (MYT) Regulations, 2019.
- 5.1.2. In view of this, stand-alone ARRs in 'Multi-Year Tariff (MYT) Petition of each of the Transmission Licensees for Truing- up of FY 2017-18 and FY 2018-19 and Provisional Truing-up of FY 2019-20 and approval of ARR for each year of the control period FY 2020-21 to FY 2024-25' have been considered for arriving at the TTSC.



Table 2: Aggregate Revenue Requirement of Transmission Licensees & TTSC

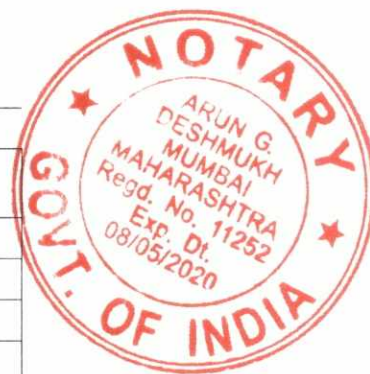
(Rs. Crore)

Name of Transmission Licensee	Reference (Petition No. of Licensee)	Ensuing Years				
		FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
		Projected	Projected	Projected	Projected	Projected
MSETCL	Case No. 302 of 2019	8591.84	4775.02	4977.54	5101.41	5250.37
ATIL	Case No. 289 of 2019	266.97	114.98	110.42	105.86	101.37
MEGPTCL	Case No. 290 of 2019	1857	1050.75	1013.96	977.34	940.9
VIPL-T	Case No. 301 of 2019	2.27	4.07	3.93	3.79	3.66
AEML-T	Case No. 297 of 2019	401.63	550.65	723.94	1298.06	1883.17
TPC-T	Case No. 299 of 2019	959.29	928.06	1004.66	1071.96	1129.62
JPTL	Case No. 294 of 2019	96.87	72.92	70.24	66.81	64.15
APTCL	Case No. 295 of 2019	84.69	46.7	45.04	43.38	41.75
Total Transmission System Cost of all Licensees proposed to be recovered in respective year		12260.56	7543.15	7949.73	8668.61	9414.99

- 5.1.3. Sinnar Power Transmission Co. Ltd. has been granted a Licence by the Hon'ble Commission. However, they have neither submitted the MYT petition with STU, nor with the Hon'ble Commission. Since Transmission System of SPTCL is yet to achieve CoD, the transmission system cost for SPTCL has not been included in the TTSC.
- 5.1.4. Regulation 64.1 also provides for the consideration of transmission system projects undertaken in accordance with the Guidelines for competitive bidding for transmission under Section 63 of the Act, for aggregation under the TTSC. MSETCL has one such project which is currently in the planning stage and is expected to be commissioned during the year FY2022-23. MSETCL humbly submits that as the tariff of the project is yet to be discovered, the project would be considered in the revised TTSC at a later point of time, possibly during the filing of the Mid Term review petition of the Fourth Control Period.
- 5.1.5. The break-up of the ARR for FY2020-21 amongst past period claims and the ARR projected for FY2020-21 is as provided in the table below:

Table 3: Break up of TTSC for FY2020-21

Name of Transmission Licensee	FY 2020-21		
	Cumulative Gap/Surplus	Projected ARR	Total
MSETCL	3963.43	4628.41	8591.84
ATIL	147.45	119.52	266.97
MEGPTCL	769.2	1087.8	1857
VIPL-T	-1.94	4.21	2.27
AEML-T	10.89	390.74	401.63
TPC-T	105.43	853.86	959.29



JPTL	21.19	75.68	96.87
APTCL	35.91	48.78	84.69
Total Transmission System Cost of all Licensees proposed to be recovered in respective year	5051.56	7209.00	12260.56

6. Determination of Base TCR

- 6.1.1. Transmission System User (TSU) is defined under Regulation 2.1 (87) of the MERC (MYT) Regulations, 2019, which is reproduced as under for ease of reference.

“(87) “Transmission System User” for the purpose of these Regulations means the Distribution Licensees and long-term Open Access Users, but excludes partial Open Access Users;

- 6.1.2. In addition to the above, as per Regulation 66 (a) of MERC (MYT) Regulations 2019, Long-term TSU with recorded demand up to Base Transmission Capacity Rights (TCR) shall not be subjected to payment of short-term transmission charges. Regulation 66(a) of MERC (MYT) Regulations, 2019 provides as under:

“63 (a) Long-term TSU with recorded demand up to Base TCR shall not be subjected to payment of short-term transmission charges;”

- 6.1.3. In the light of the above, Nidar Utilities Panvel Limited Liability Partnership (Nidar Utilities or NUPLLP) being a Distribution Licensee has been considered as a Transmission System User for Long term transmission tariff. Similarly, Indorama Synthetics (India) Ltd. (Indorama or IRSL), which is neither a distribution licensee, nor a long-term open access user, has not been considered as a Transmission System User.
- 6.1.4. Base TCR has been calculated as the average of coincident peak demand (CPD) and non-coincident peak demand (NCPD) of the TSUs from the monthly data for 12 months available for October to March in FY 2018-19 and April to September in FY 2019-20. In case of Indian Railways, the data of September to March in FY 2018-19 and April to August in FY 2019-20 has been taken due to unavailability of September 2019 data. The CPD and NCPD data since FY2016-17 was made available to the STU by Maharashtra State Load Dispatch Centre. (MSLDC).
- 6.1.5. The calculations are in line with the provision that for the first year of the Control Period FY 2020-21 to FY 2024-25, the Base Transmission Capacity Rights for all Transmission System Users shall be determined based on average monthly CPD and NCPD of the Transmission System Users prevalent during the 12 months prior to the date of coming into effect of these Regulations or 12 months prior to filing of the Petition by the Transmission Licensees, depending on the availability of such data.



- 6.1.6. The projected demand by all the TSUs have been used to determine the future projected growth rates. The approved Base TCRs for the TSUs have been used to calculate the historical growth rates for the Base TCRs. An average of the futuristic and the Historical 3-year CAGRs have been used to project the TCRs for the ensuing years for MSEDCL, AEML-D, TPC-D, BEST, Indian Railways and Mindspace Properties.
- 6.1.7. The base TCR for M/s KRC Infrastructure and Projects Pvt. Ltd (KRCIPPL) has been computed as the average of monthly CPD and NCPD data which is available from June 2019- September 2019. However, Base TCR for the ensuing years for KRCIPPL has been assumed in line with the projected demand growth by KRCIPPL.



Table 4: Base Transmission Capacity Rights

Particulars	Ensuing Years									
	FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25	
	TCR (MW)	TCR (%)	TCR (MW)	TCR (%)	TCR (MW)	TCR (%)	TCR (MW)	TCR (%)	TCR (MW)	TCR (%)
MSEDCL	18,600.89	83.96%	19,625.83	84.22%	20,707.23	84.47%	21,848.23	84.72%	23,052.09	84.97%
TPCL-D	817.09	3.69%	839.43	3.60%	862.39	3.52%	885.97	3.44%	910.20	3.35%
AEML-D	1,509.43	6.81%	1,566.48	6.72%	1,625.69	6.63%	1,687.14	6.54%	1,750.91	6.45%
BEST	827.95	3.74%	846.77	3.63%	866.02	3.53%	885.71	3.43%	905.85	3.34%
Indian Railways (DDL)	375.10	1.69%	398.26	1.71%	422.85	1.72%	448.96	1.74%	476.69	1.76%
Mindspace (DDL)	13.10	0.06%	13.12	0.06%	13.14	0.05%	13.15	0.05%	13.17	0.05%
Gigaplex (DDL)	5.82	0.03%	6.20	0.03%	6.61	0.03%	7.05	0.03%	7.51	0.03%
Nidar Utilities	0.49	0.00%	0.49	0.00%	0.49	0.00%	0.49	0.00%	0.49	0.00%
KRCIPPL	5.00	0.02%	7.50	0.03%	9.08	0.04%	11.00	0.04%	13.32	0.05%
Total Transmission Capacity Rights of all TSUs	22,154.87	100.00%	23,304.08	100.00%	24,513.51	100.00%	25,787.70	100.00%	27,130.23	100.00%

- 6.1.8. Due to unavailability of historical 3 -year CAGR for Nidar and Gigaplex, a different approach for the same have been used. Gigaplex Properties have been assumed to grow at their projected 5 year CAGR of 6.61% while Nidar Utilities have been assumed to have no growth. The assumption for Nidar utilities is due to negative growth (as compared to the 6 month average of CPD and NCPD data available for FY2019-20) in their futuristic projections.
- 6.1.9. In the InSTS order dated 12 September, 2018 in Case No. 265 of 2018, the commission has considered the approved PPA projected demand for the calculation of Base TCR for Nidar Utilities. It may be noted that as per the Order No. 280 of 2018 dated 1st January 2019, the Hon'ble Commission has reiterated that the PPA approved was for a period of three years in line with PPA approval Order in Case No. 117 of 2018 dated 3 August, 2018. It is prudent to mention here that the revised PPA approval or its status was not available with the STU at the time of filing of this petition.
- 6.1.10. In the light of the above facts, the STU has projected the Base TCR in line with the MERC (MYT) Regulations, 2019 which states that the Base TCR should be calculated as the average of the last 12 months CPD and NCPD data as available on the date of filing the petition. It may be also noted that the demand projections submitted by Nidar Utilities to STU for the fourth control period is in line with the computed Base TCR. Hence, no growth is assumed on the base TCR for the ensuing years by the STU.
- 6.1.11. STU would like to submit that these Base TCR projections for Nidar Utilities may be revised by the Hon'ble Commission as per the future demand data submitted by Nidar Utilities in its MYT petition for the fourth control period, subsequent approval by the Hon'ble commission in line with the power procurement plan for the fourth control period, and approval of the revised PPA between Nidar Utilities & Tata Power Company – Distribution.



6.1.12. STU would like to further submit that in case of Deemed distribution licensees like M/s Newfound Properties and Leasing Pvt. Ltd. and M/s Quadron Business Park Ltd., neither BPTA for LTOA / MTOA nor visibility of any projected demand is available with the STU. In light of the same, these Deemed Distribution Licensees are not considered for computation of Base TCR.

6.1.13. In case of M/s KRC Infrastructure and Projects Pvt. Ltd., STU has received the projected demand for the 4th Control Period. However, STU is yet to receive the CPD and NCPD details of this Deemed Distribution Licensee from SLDC even as its operation has started on 1st June, 2019 as submitted by M/s KRC Infrastructure and Projects Pvt. Ltd. Therefore, it may be considered in the computation of TCR once its details regarding the CPD and NCPD are received by STU or by the Hon'ble Commission.

7. Determination of Transmission Tariff for FY 2020-21 to FY 2024-25

7.1.1. Base Transmission Tariff for each Year has been determined as ratio of projected 'TTSC' for intra-State transmission system and calculated 'Base Transmission Capacity Rights' and has been denominated in terms of "Rs/kW/month" (for long-term/medium-term usage) or in terms of "Rs/kWh" (for short-term bilateral open access transactions usage, short-term collective transactions over Power Exchange and for Renewable Energy transactions) in accordance with regulation 64.3 of the MERC (MYT) Regulations, 2019.

Table 5: Transmission Tariff for Control Period

Particulars	Unit	Reference	Ensuing Years				
			FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Total Transmission System Cost (TTSC)	Rs. Crore	Form 1	12,260.56	7,543.15	7,949.73	8,668.61	9,414.99
Base Transmission Capacity Rights	MW	Form 3	22,154.87	23,304.08	24,513.51	25,787.70	27,130.23
Transmission Tariff (long term/ medium term)	Rs./kW/month		461.17	269.74	270.25	280.13	289.19
Transmission Tariff (short term/ short term collective/ renewable energy)	Rs./kWh		0.77	0.46	0.47	0.49	0.52
Energy Units Transmitted (Discom Projections)	MUs		1,59,700.93	1,65,005.11	1,70,597.45	1,76,498.51	1,82,734.64

7.1.2. The Energy Projections made by the transmission system users has for the ensuing years in the 4th Control period have been used to project the total energy to be transmitted by the system in the respective years. The energy transmitted has been further used to compute the short-term transmission tariff.

7.1.3. However, the energy transmitted for Indian Railways has been projected at a growth rate equal to the average of three-year CAGR for each month of the year for the period FY 2016-17 to FY 2018-19, which is calculated at 5.91%. This treatment has been carried out due to unavailability of Energy Projections by Indian Railways at G > T Interface.

7.1.4. In the absence of energy projections for Indian Railways at G > T interface for the ongoing year FY2019-20, the base energy transmitted for the base year FY2019-20 for Indian Railways is calculated at the average of the last three years i.e. FY2016-17, FY2017-18 and FY 2018-19 to rule out any abnormalities in the recent year. The base energy transmitted is escalated at a calculated growth rate of 5.91%, as explained above to arrive at the energy transmitted for the ensuing years.



- 7.1.5. The Long- term and Medium-Term Transmission Tariff for Fourth Control Period is calculated at Rs. 461.17 per kW per month for FY2020-21, Rs. 269.74 per kW per month for FY2021-22, Rs. 270.25 per kW per month for FY2022-23, Rs. 280.13 per kW per month for FY2023-24, and Rs. 289.19 per kW per month for FY2024-25.
- 7.1.6. The Short- term Transmission Tariff for Fourth Control Period is calculated at Rs. 0.77 per kWh for FY2020-21, Rs. 0.46 per kWh for FY2021-22, Rs. 0.47 per kWh for FY2022-23, Rs. 0.49 per kWh for FY2023-24, and Rs. 0.52 per kWh for FY2024-25.

8. Proposed Sharing of TTSC among the TSUs

- 8.1.1. The share of the TTSC by the long-term Transmission System Users shall be in the proportion of Base Transmission Capacity Rights of each Transmission System User to the total Base Transmission Capacity Rights allotted in the intra-State transmission system. The same is in line with regulation 65.2 of the MERC (MYT) Regulations, 2019
- 8.1.2. Above Transmission Charges are payable by all long-term TSUs irrespective of their actual utilisation recorded during their period of operation. Any difference between the actual utilization of Transmission Capacity by a long-term TSU and the allocated Transmission Capacity (i.e. Base TCR) shall be governed by Regulation 66 of the MERC (MYT) Regulations, 2019.



Table 6: Annual Sharing of Total Transmission System Cost (TTSC) among Transmission System Users (TSU)

Particulars	Ensuing Years														
	FY 2020-21			FY 2021-22			FY 2022-23			FY 2023-24			FY 2024-25		
	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)
MSEDCL	18,600.89	83.96%	10,293.78	19,625.83	84.22%	6,352.56	20,707.23	84.47%	6,715.36	21,848.23	84.72%	7,344.34	23,052.09	84.97%	7,999.76
TPCL-D	817.09	3.69%	452.18	839.43	3.60%	271.71	862.39	3.52%	279.67	885.97	3.44%	297.82	910.20	3.35%	315.86
AEML-D	1,509.43	6.81%	835.32	1,566.48	6.72%	507.05	1,625.69	6.63%	527.21	1,687.14	6.54%	567.14	1,750.91	6.45%	607.62
BEST	827.95	3.74%	458.19	846.77	3.63%	274.09	866.02	3.53%	280.85	885.71	3.43%	297.73	905.85	3.34%	314.36
Indian Railways (DDL)	375.10	1.69%	207.58	398.26	1.71%	128.91	422.85	1.72%	137.13	448.96	1.74%	150.92	476.69	1.76%	165.42
Mindspace (DDL)	13.10	0.06%	7.25	13.12	0.06%	4.25	13.14	0.05%	4.26	13.15	0.05%	4.42	13.17	0.05%	4.57
Gigaplex (DDL)	5.82	0.03%	3.22	6.20	0.03%	2.01	6.61	0.03%	2.14	7.05	0.03%	2.37	7.51	0.03%	2.61
Nidar Utilities	0.49	0.00%	0.27	0.49	0.00%	0.16	0.49	0.00%	0.16	0.49	0.00%	0.16	0.49	0.00%	0.17
KRCPPPL	5.00	0.02%	2.77	7.50	0.03%	2.43	9.08	0.04%	2.95	11.00	0.04%	3.70	13.32	0.05%	4.62
Total	22,154.87	100.00%	12,260.56	23,304.08	100.00%	7,543.15	24,513.51	100.00%	7,949.73	25,787.70	100.00%	8,668.61	27,130.23	100.00%	9,414.99



Table 7: Monthly Total Transmission System Cost (TTSC) payable by Transmission System Users (TSU)

(Rs. Crore)

Particulars	Ensuing Years (Rs. Crore)									
	FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25	
	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly
MSEDCL	10,293.78	857.82	6,352.56	529.38	6,715.36	559.61	7,344.34	612.03	7,999.76	666.65
TPCL-D	452.18	37.68	271.71	22.64	279.67	23.31	297.82	24.82	315.86	26.32
AEML-D	835.32	69.61	507.05	42.25	527.21	43.93	567.14	47.26	607.62	50.63
BEST	458.19	38.18	274.09	22.84	280.85	23.40	297.73	24.81	314.36	26.20
Indian Railways (DDL)	207.58	17.30	128.91	10.74	137.13	11.43	150.92	12.58	165.42	13.79
Mindspace (DDL)	7.25	0.60	4.25	0.35	4.26	0.35	4.42	0.37	4.57	0.38
Gigaplex (DDL)	3.22	0.27	2.01	0.17	2.14	0.18	2.37	0.20	2.61	0.22
Nidar Utilities	0.27	0.02	0.16	0.01	0.16	0.01	0.16	0.01	0.17	0.01
KRCIPPL	2.77	0.23	2.43	0.20	2.95	0.25	3.70	0.31	4.62	0.39
Total	12,260.56	1,021.71	7,543.15	628.60	7,949.73	662.48	8,668.61	722.38	9,414.99	784.58



9. Energy, Accounting and Treatment of Transmission Loss

9.1.1. The Intra-State Transmission Loss as recorded and available for the full year for FY2017-18 as 3.30% and for FY2018-19 as 3.11% as per submission made by MSLDC.

9.1.2. Similarly, the Inter-State Transmission Loss as estimated by the SLDC for FY2019-20 is 3.17%. The projected Inter-State Transmission Loss levels for the ensuing years are projected at the same levels as provided below:

Table 8: Projected Transmission Loss

	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25
Projected Inter-State Transmission Loss (in %)	3.17%	3.17%	3.17%	3.17%	3.17%

10. Proposed Recovery of ARR of Transmission Licensees for FY 2020-21 to FY 2024-25

10.1.1. In accordance with Regulation 64, the ARR of the Transmission Licensee are pooled to derive the TTSC, and each Licensee is entitled to recover its projected ARR for the control period FY 2020-21 to FY 2024-25 from the Transmission Charges collected by the STU from the TSUs

Table 9: Recovery of ARR of Transmission Licensees

(Rs. Crore)

Particulars	Ensuing Years (Rs. Crore)									
	FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25	
	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly
MSETCL	8,591.84	715.99	4,775.02	397.92	4,977.54	414.80	5,101.41	425.12	5,250.37	437.53
ATIL	266.97	22.25	114.98	9.58	110.42	9.20	105.86	8.82	101.37	8.45
MEGPTCL	1,857.00	154.75	1,050.75	87.56	1,013.96	84.50	977.34	81.45	940.90	78.41
VIPL-T	2.27	0.19	4.07	0.34	3.93	0.33	3.79	0.32	3.66	0.31
AEML-T	401.63	33.47	550.65	45.89	723.94	60.33	1,298.06	108.17	1,883.17	156.93
TPC-T	959.29	79.94	928.06	77.34	1,004.66	83.72	1,071.96	89.33	1,129.62	94.14
JPTL	96.87	8.07	72.92	6.08	70.24	5.85	66.81	5.57	64.15	5.35
APTCL	84.69	7.06	46.70	3.89	45.04	3.75	43.38	3.62	41.75	3.48
Total	12,260.56	1,021.71	7,543.15	628.60	7,949.73	662.48	8,668.61	722.38	9,414.99	784.58



11. Prayers

MSETCL respectfully prays the Hon'ble Commission to

1. Admit this Petition for determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25 as per MERC (MYT) Regulations, 2019;
2. Approve the In-STS transmission tariff forecast for Long term, Medium Term and Short term transmission system users for FY 2020-21 to FY 2024-25 as provided in the Petition according to the principle of the Commission set out in MERC (MYT) Regulations, 2019;
3. Approve the Intra-State Transmission Loss for FY 2020-21 to FY 2024-25.
4. Provide the workable excel model used by the Hon'ble Commission for approval of the Petition for determination of Intra-State Transmission Tariff for the MYT Control Period from FY 2020-21 to FY 2024-25; and
5. Condone any shortcomings/deficiencies and allow MSETCL to submit additional information/data at a later stage as may be required.


Chief Engineer (STU)
MSETCL



12. Annexures

12.1. Monthwise Average of CPD and NCPD for Distribution Licensees

Table 10: Month wise Average of CPD and NCPD for Distribution Licensees

Form 2: Month wise Average of CPD and NCPD for Distribution Licensees

(MW)

FY 2016-17	MSEDCL	TPCL-D	AEML-D	BEST	Indian Railways (Deemed Distribution Licensees)	Mindspac (Deemed Distribution Licensees)	Indorama (TOAU)	Indorama	Total
Apr-16	15,907.70	836.54	1,313.63	804.00	308.00	14.45	0.51		19,184.83
May-16	15,705.06	914.10	1,513.42	918.00	283.00	14.90	5.94		19,354.42
Jun-16	14,685.36	921.56	1,540.82	935.00	300.00	15.72	5.45		18,403.91
Jul-16	12,741.91	633.03	1,184.03	621.00	295.00	12.39	22.62		15,509.97
Aug-16	14,953.01	777.86	1,346.23	801.00	272.00	13.57	13.39		18,177.05
Sep-16	16,646.98	673.15	1,303.02	668.00	286.00	11.88	12.41		19,601.44
Oct-16	16,661.96	747.85	1,268.57	688.00	307.00	12.96	3.86		19,690.21
Nov-16	16,839.69	725.29	1,148.40	645.00	285.00	11.54	0.51		19,655.43
Dec-16	16,340.03	676.99	1,153.69	697.00	287.00	11.81	0.51		19,167.03
Jan-17	16,912.73	648.96	1,217.76	660.00	271.00	13.36	0.51		19,724.31
Feb-17	17,389.05	677.39	1,331.10	702.00	272.00	13.17	12.90		20,397.61
Mar-17	17,610.77	811.15	1,489.48	841.00	290.00	16.64	0.51		21,059.55

FY 2017-18	MSEDCL	TPCL-D	AEML-D	BEST	Indian Railways- Rest of Maharashtra (DDL)	Indian Railways - Mumbai (DDL)	Mindspac (DDL)	Gigaplex (DDL)	Total
Apr-17	18,064.54	869.14	1,556.55	883.50	224.00	97.11	15.06	3.41	21,724.31
May-17	17,613.41	894.81	1,559.94	925.00	223.00	94.00	15.36	3.66	21,343.61
Jun-17	16,514.98	901.80	1,556.70	906.00	223.50	97.50	15.28	3.82	20,236.76
Jul-17	15,819.40	821.98	1,399.57	823.50	217.50	91.00	14.37	3.59	19,207.80
Aug-17	16,287.51	803.15	1,431.61	823.00	204.00	102.50	13.82	3.49	19,694.51
Sep-17	15,732.42	819.04	1,492.15	855.00	206.00	102.50	14.92	3.74	19,242.95
Oct-17	15,756.61	852.48	1,431.88	884.00	220.00	101.00	13.88	3.96	19,278.89
Nov-17	17,289.34	790.16	1,353.70	777.50	223.00	103.00	13.00	3.53	20,554.44
Dec-17	16,691.81	690.87	1,221.10	689.50	225.00	96.00	11.61	3.35	19,635.01
Jan-18	17,562.22	681.92	1,302.20	728.00	233.00	111.00	13.00	3.62	20,643.60
Feb-18	17,584.03	720.15	1,404.99	767.00	217.00	103.00	13.33	3.84	20,816.99
Mar-18	18,392.78	830.16	1,533.47	859.50	233.50	105.50	14.79	4.61	21,977.60

FY 2018-19	MSEDCL	TPCL-D	AEML-D	BEST	Indian Railways- Rest of Maharashtra (DDL)	Indian Railways - Mumbai (DDL)	Mindspac (DDL)	Gigaplex (DDL)	Nidar Utilities
Apr-18	19,034.76	910.76	1,519.44	890.00	256.28	105.73	14.86	5.12	22,737.25
May-18	18,965.91	925.91	1,588.91	933.00	244.80	104.14	15.44	5.12	22,783.44
Jun-18	17,387.39	935.88	1,619.00	966.00	232.90	102.01	15.30	4.96	21,263.65
Jul-18	15,973.79	766.34	1,374.51	771.00	250.63	105.57	13.84	4.60	19,260.49
Aug-18	16,848.51	790.74	1,400.63	791.00	235.88	100.48	14.16	4.91	20,186.52
Sep-18	19,167.06	775.80	1,437.20	781.50	234.05	100.33	11.18	4.27	22,517.00
Oct-18	19,570.42	864.69	1,612.97	909.00	235.23	105.47	15.32	5.72	23,321.52
Nov-18	19,067.40	772.52	1,444.84	810.50	247.10	104.15	11.86	4.37	22,463.03
Dec-18	17,847.44	698.97	1,313.99	732.50	252.80	105.15	12.55	4.67	20,968.27
Jan-19	17,403.32	637.25	1,180.91	638.00	258.46	102.77	11.47	4.21	20,237.23
Feb-19	17,054.95	689.06	1,271.60	679.00	243.92	99.32	11.94	4.58	20,054.62
Mar-19	17,728.17	823.65	1,478.54	810.00	259.57	101.59	12.98	5.39	21,229.09

FY 2019-20	MSEDCL	TPCL-D	AEML-D	BEST	Indian Railways- Rest of Maharashtra (DDL)	Indian Railways - Mumbai (DDL)	Mindspac (DDL)	Gigaplex (DDL)	Nidar Utilities
Apr-19	18,526.23	868.40	1,558.57	890.50	273.37	97.24	13.90	6.45	0.52
May-19	18,804.01	870.14	1,577.86	886.50	272.63	98.85	14.56	6.49	0.52
Jun-19	18,023.93	897.13	1,659.18	938.00	280.16	97.22	14.22	6.37	0.52
Jul-19	16,301.91	807.74	1,514.98	839.00	243.14	95.47	13.29	5.70	0.59
Aug-19	16,194.75	776.61	1,423.88	787.50	230.56	100.82	12.49	5.76	0.61
Sep-19	15,031.31	837.91	1,416.17	794.00	232.36	98.44	12.48	5.78	0.55



<Name of State Transmission Utility>
MYT Petition Formats - State Transmission Utility


Sr. No.	Title	Reference
1	Aggregate Revenue Requirement - Summary Sheet	Form 1
2	Month wise Average Coincident Peak Demand and Non-Coincident Peak Demand	Form 2
3	Base Transmission Capacity Rights	Form 3
4	Transmission Tariff for Control Period	Form 4
5	Annual Sharing of Total Transmission System Cost (TTSC) among Transmission System Users (TSU)	Form 5
6	Monthly Total Transmission System Cost (TTSC) payable by Transmission System Users (TSU)	Form 6
7	Recovery of ARR of Transmission Licensees	Form 7



Maharashtra State Electricity Transmission Company Ltd.

MYT Petition Formats - State Transmission Utility

Form 1: Aggregate Revenue Requirement of Transmission Licensees - combined - Summary Sheet

				(Rs. Crore)		(Rs. Crore)		
Sr. No.	Name of Transmission Licensee	Reference (Petition No. of Licensee)	Ensuing Years					Remarks
			FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	
			Projected	Projected	Projected	Projected	Projected	
1	MSETCL	Case No. 302 of 2019	8591.84	4775.02	4977.54	5101.41	5250.37	
2	ATIL	Case No. 289 of 2019	266.97	114.98	110.42	105.86	101.37	
3	MEGPTCL	Case No. 290 of 2019	1857	1050.75	1013.96	977.34	940.9	
4	VIPL-T	Case No. 301 of 2019	2.27	4.07	3.93	3.79	3.66	
5	AEML-T	Case No. 297 of 2019	401.63	550.65	723.94	1298.06	1883.17	
6	TPC-T	Case No. 299 of 2019	959.29	928.06	1004.66	1071.96	1129.62	
7	JPTL	Case No. 294 of 2019	96.87	72.92	70.24	66.81	64.15	
8	APTCL	Case No. 295 of 2019	84.69	46.7	45.04	43.38	41.75	
	Total Transmission System Cost of all Licensees proposed to be recovered in respective year		12260.56	7543.15	7949.73	8668.61	9414.99	
	TBCB							
	Total Transmission System Cost of all Licensees proposed to be recovered in respective year		12260.56	7543.15	7949.73	8668.61	9414.99	



Maharashtra State Electricity Transmission Company Ltd.
MYT Petition Formats - State Transmission Utility
Form 2: Month wise Average Coincident Peak Demand and Non-Coincident Peak Demand

Year : FY 2016-17 (Actual)

A) Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	15,907.70	15,705.06	14,685.36	12,741.91	14,951.01	16,646.98	16,661.96	16,819.69	16,140.03	16,912.73	17,389.05	17,610.77
2	TPCL-D	836.54	914.10	921.56	633.03	777.86	673.15	747.85	725.29	676.99	648.96	677.39	811.35
3	AEML-D	1,313.63	1,513.42	1,540.82	1,184.03	1,346.23	1,303.02	1,268.57	1,248.40	1,217.76	1,331.30	1,499.48	1,499.48
4	BEST	804.00	928.00	915.00	621.00	801.00	668.00	688.00	645.00	640.00	702.00	841.00	841.00
5	Indian Railways (Deemed Distribution Licensees)	308.00	283.00	300.00	295.00	272.00	286.00	307.00	285.00	287.00	271.00	272.00	290.00
6	Mindspace (Deemed Distribution Licensees)	14.45	14.90	15.72	12.39	13.57	11.88	12.96	11.54	11.81	13.36	13.17	16.64
	Total	19,184.32	19,348.48	18,398.46	15,487.36	18,163.67	19,589.04	19,686.35	19,651.92	19,166.52	19,723.80	20,384.71	20,559.04

B) Non-Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	16,030.70	15,802.94	15,086.58	12,836.91	14,967.62	16,756.98	16,843.11	16,923.69	16,437.03	17,002.73	17,480.05	17,790.74
2	TPCL-D	862.00	932.92	921.56	777.22	784.56	793.74	836.67	782.85	733.77	738.61	683.61	817.39
3	AEML-D	1,430.29	1,532.84	1,570.57	1,372.49	1,412.22	1,376.71	1,438.04	1,289.71	1,311.14	1,262.98	1,331.10	1,508.87
4	BEST	864.00	925.00	954.00	811.00	831.00	804.00	838.00	754.00	751.00	681.00	748.00	880.80
5	Indian Railways (Deemed Distribution Licensees)	324.00	330.00	332.00	313.00	307.00	302.00	313.00	326.00	327.00	323.00	325.00	336.00
6	Mindspace (Deemed Distribution Licensees)	15.90	16.39	16.12	13.51	13.78	13.99	14.73	13.49	13.89	13.57	14.23	16.64
	Total	19,526.90	19,540.09	18,880.84	16,124.12	18,316.18	20,047.42	20,283.54	20,089.74	19,573.82	20,023.89	20,582.00	21,540.63

C) Average of CPD and NCPD (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	15,969.20	15,754.00	14,885.97	12,789.41	14,960.32	16,701.98	16,752.53	16,881.69	16,388.53	16,957.73	17,434.55	17,790.76
2	TPCL-D	849.27	923.51	921.56	705.12	781.21	733.45	792.26	754.07	705.38	693.79	680.50	814.27
3	AEML-D	1,371.96	1,523.13	1,555.70	1,278.26	1,379.22	1,339.86	1,219.06	1,232.41	1,210.37	1,331.10	1,499.17	1,499.17
4	BEST	834.00	921.50	944.50	716.00	816.00	736.00	763.00	699.50	724.00	671.50	725.00	865.00
5	Indian Railways (Deemed Distribution Licensees)	316.00	306.50	316.00	304.00	289.50	294.00	310.00	305.50	307.00	297.00	298.50	314.00
6	Mindspace (Deemed Distribution Licensees)	15.18	15.65	15.92	12.95	13.68	12.93	13.85	12.52	12.85	13.46	13.70	16.64
	Total	19,355.61	19,444.29	18,639.65	15,805.74	18,239.93	19,818.23	19,984.94	19,872.33	19,370.17	19,873.85	20,483.36	21,299.83

Year : FY 2017-18 (Actual)

A) Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	18,064.54	17,638.06	16,514.98	15,863.25	16,228.39	15,692.11	15,756.61	17,289.34	16,691.81	17,562.22	17,584.03	18,351.01
2	TPCL-D	839.56	889.02	811.15	796.94	804.40	811.42	811.42	811.42	811.42	811.42	811.42	811.42
3	AEML-D	1,554.72	1,535.30	1,512.13	1,359.76	1,404.97	1,387.68	1,316.85	1,331.58	1,157.28	1,302.20	1,386.13	1,533.47
4	BEST	877.00	904.00	881.00	805.00	810.00	802.00	868.00	774.00	646.00	726.00	758.00	859.00
5	Indian Railways - Rest of Maharashtra (DDL)	215.00	204.00	207.00	197.00	184.00	183.00	203.00	198.00	209.00	208.00	189.00	216.00
6	Indian Railways - Mumbai (DDL)	88.00	83.00	88.00	80.00	93.00	94.00	94.00	98.00	85.00	104.00	87.00	88.00
7	Mindspace (DDL)	14.06	14.98	14.54	14.20	13.13	14.36	12.93	12.29	10.78	12.24	12.77	14.09
8	Gigaplex (DDL)	3.27	3.32	3.62	3.41	3.36	3.49	3.64	3.22	3.11	3.58	3.73	4.44
	Total	21,656.15	21,271.68	20,116.33	19,133.77	19,533.79	18,981.04	19,066.46	20,482.55	19,459.04	20,599.16	20,736.64	21,881.01

B) Non-Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	18,064.54	17,588.75	16,514.98	15,775.56	16,146.63	15,722.73	15,756.61	17,289.34	16,691.81	17,562.22	17,584.03	18,434.55
2	TPCL-D	898.71	900.61	908.53	832.82	809.36	833.68	893.54	804.21	725.68	682.92	724.32	845.32
3	AEML-D	1,558.38	1,584.59	1,601.27	1,439.37	1,458.26	1,596.62	1,546.90	1,375.81	1,284.92	1,302.20	1,423.85	1,533.47
4	BEST	890.00	946.00	931.00	842.00	836.00	908.00	900.00	781.00	733.00	730.00	776.00	860.00
5	Indian Railways - Rest of Maharashtra (DDL)	233.00	242.00	240.00	238.00	224.00	229.00	237.00	248.00	241.00	258.00	245.00	251.00
6	Indian Railways - Mumbai (DDL)	106.22	105.00	107.00	102.00	112.00	111.00	108.00	108.00	107.00	118.00	119.00	123.00
7	Mindspace (DDL)	16.06	15.74	16.02	14.53	14.50	15.48	14.82	13.70	12.43	13.76	13.89	15.49
8	Gigaplex (DDL)	3.56	4.00	4.02	3.76	3.62	3.99	4.27	3.84	3.59	3.67	3.96	4.77
	Total	21,770.48	21,386.70	20,322.82	19,248.04	19,804.37	19,470.49	19,461.14	20,623.90	19,799.43	20,670.77	20,890.05	22,067.60

C) Average of CPD and NCPD (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	18,064.54	17,613.41	16,514.98	15,819.40	16,287.51	15,732.42	15,756.61	17,289.34	16,691.81	17,562.22	17,584.03	18,392.78
2	TPCL-D	869.14	894.81	901.80	821.98	803.15	819.04	852.48	790.16	690.87	682.92	720.15	830.16
3	AEML-D	1,556.55	1,559.94	1,556.70	1,399.57	1,431.61	1,492.15	1,431.88	1,353.70	1,221.10	1,302.20	1,404.99	1,533.47
4	BEST	883.50	925.00	906.00	823.50	823.00	855.00	884.00	777.50	689.50	767.00	859.50	859.50
5	Indian Railways - Rest of Maharashtra (DDL)	224.00	223.00	223.50	217.50	204.00	206.00	220.00	223.00	225.00	233.00	217.00	233.50
6	Indian Railways - Mumbai (DDL)	97.11	94.00	97.50	91.00	102.50	102.50	101.00	103.00	96.00	111.00	103.00	105.50
7	Mindspace (DDL)	15.06	15.36	15.28	14.37	13.82	14.92	13.88	13.00	11.61	13.00	13.33	14.79
8	Gigaplex (DDL)	3.41	3.66	3.82	3.59	3.49	3.74	3.96	3.53	3.35	3.62	3.84	4.61
	Total	21,713.31	21,329.19	20,219.57	19,190.90	19,669.08	19,225.76	19,263.80	20,553.23	19,629.24	20,634.96	20,813.35	21,974.31

Year : FY 2018-19 (Actual)

A) Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	19,034.76	18,887.36	17,387.39	15,873.85	16,500.26	19,167.06	19,563.33	19,067.40	17,847.44	17,403.32	17,067.40	17,728.17
2	TPCL-D	907.52	919.99	934.72	727.42	785.45	711.94	860.48	734.58	692.21	615.00	680.48	817.63
3	AEML-D	1,438.59	1,579.30	1,578.14	1,315.53	1,352.64	1,341.99	1,583.89	1,421.40	1,290.70	1,149.95	1,258.78	1,460.06
4	BEST	855.00	926.00	965.00	730.00	772.00	726.00	894.00	786.00	722.00	620.00	672.00	801.00
5	Indian Railways - Rest of Maharashtra (DDL)	241.62	218.62	203.50	231.39	213.94	210.00	207.90	217.53	233.40	232.81	222.43	235.91
6	Indian Railways - Mumbai (DDL)	96.83	95.84	88.18	104.45	91.74	91.90	99.66	97.60	102.96	99.53	94.30	96.80
7	Mindspace (DDL)	14.38	14.90	14.72	13.45	13.93	7.40	14.50	9.16	11.85	10.77	11.28	11.96
8	Gigaplex (DDL)	4.90	4.78	4.71	4.26	4.75	2.90	5.44	3.54	4.52	4.00	4.14	5.15



9	Nidar Utilities	-	-	-	-	-	-	0.40	0.38	0.18	0.35	0.36	0.45
	Total	22,593.58	22,646.78	21,176.36	19,000.35	19,734.71	22,259.19	23,229.60	22,337.59	20,905.46	20,135.74	20,011.17	21,157.19

B) Non-Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	19,034.76	19,044.46	17,387.39	16,073.72	17,190.76	19,167.06	19,577.52	19,067.40	17,847.44	17,403.32	17,042.51	17,728.17
2	TPCL-D	914.01	921.83	917.04	805.25	796.02	839.67	868.89	810.46	705.74	659.51	697.65	829.66
3	AEML-D	1,600.29	1,598.51	1,659.86	1,413.48	1,448.61	1,532.42	1,642.05	1,468.28	1,337.27	1,211.87	1,284.41	1,397.02
4	BEST	925.00	940.00	967.00	812.00	810.00	837.00	923.00	835.00	743.00	656.00	686.00	819.00
5	Indian Railways- Rest of Maharashtra (DDL)	270.94	270.98	262.29	269.87	257.82	258.11	262.57	276.66	272.20	284.11	265.41	283.24
	Indian Railways - Mumbai(DDL)	114.64	112.44	115.84	106.70	109.23	108.75	111.27	110.70	107.35	106.02	104.34	106.37
6	Mindspace (DDL)	15.35	15.99	15.88	14.24	14.39	14.95	16.14	14.56	13.25	12.11	12.65	14.00
7	Gigaplex (DDL)	5.35	5.46	5.22	4.94	5.08	5.65	5.99	5.21	4.82	4.56	4.88	5.63
9	Nidar Utilities	-	-	-	-	-	-	0.44	0.42	0.48	0.51	0.49	0.51
	Total	22,880.33	22,919.67	21,350.53	19,520.20	20,637.90	22,763.61	23,408.87	22,588.67	21,031.55	20,338.01	20,098.34	21,283.60

C) Average of CPD and NCPD (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	19,034.76	18,965.91	17,387.39	15,973.79	16,848.51	19,167.06	19,570.42	19,067.40	17,847.44	17,403.32	17,054.95	17,728.17
2	TPCL-D	910.76	925.91	935.88	766.34	790.74	775.80	864.69	772.52	698.97	637.25	689.06	823.65
3	AEML-D	1,519.44	1,588.91	1,619.00	1,374.51	1,400.63	1,437.20	1,612.97	1,444.84	1,313.99	1,180.91	1,271.60	1,478.54
4	BEST	890.00	933.00	966.00	771.00	791.00	781.50	909.00	810.50	732.50	638.00	679.00	810.00
5	Indian Railways- Rest of Maharashtra (DDL)	256.28	244.80	232.90	250.63	235.88	234.05	235.23	247.10	252.80	258.46	243.92	259.57
	Indian Railways - Mumbai(DDL)	105.73	104.14	102.01	105.57	100.48	100.33	105.47	104.15	105.15	102.77	99.32	101.59
6	Mindspace (DDL)	14.86	15.44	15.30	13.84	14.16	11.18	15.32	11.86	12.55	11.44	11.97	12.98
7	Gigaplex (DDL)	5.12	5.12	4.96	4.60	4.93	4.27	5.72	4.37	4.67	4.28	4.51	5.39
9	Nidar Utilities	-	-	-	-	-	-	0.42	0.39	0.43	0.42	0.42	0.48
	Total	22,736.96	22,783.23	21,263.44	19,260.28	20,186.31	22,511.40	23,319.23	22,463.13	20,968.50	20,236.87	20,054.76	21,220.37

Year : FY 2019-20 (Actual)

A) Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	18,526.23	18,804.01	17,985.01	16,177.81	16,189.50	18,224.06						
2	TPCL-D	862.00	856.00	890.00	805.00	753.00	815.00						
3	AEML-D	1,512.25	1,551.39	1,598.56	1,501.67	1,359.35	1,384.10						
4	BEST	889.00	871.00	917.00	839.00	751.00	777.00						
5	Indian Railways- Rest of Maharashtra (DDL)	267.25	254.36	264.57	213.05	212.94	203.26						
	Indian Railways - Mumbai(DDL)	87.43	89.34	88.49	88.99	100.77	95.66						
6	Mindspace (DDL)	13.66	13.96	12.56	12.56	11.86	11.52						
7	Gigaplex (DDL)	6.43	6.14	6.20	5.22	5.47	5.40						
9	Nidar Utilities	0.49	0.47	0.47	0.52	0.57	0.45						
10	KRCIPPL	-	-	0.11	0.28	0.65	0.45						
	Total	22,164.74	22,446.68	21,764.37	19,644.10	19,385.11	18,116.89						

B) Non-Coincident Peak Demand (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	18,526.23	18,804.01	18,062.85	16,426.00	16,200.00	15,238.56						
2	TPCL-D	874.79	884.27	904.26	810.49	800.21	860.83						
3	AEML-D	1,604.89	1,604.33	1,719.80	1,528.28	1,488.40	1,448.23						
4	BEST	892.00	902.00	959.00	839.00	824.00	811.00						
5	Indian Railways- Rest of Maharashtra (DDL)	279.50	290.90	295.75	273.22	248.18	261.47						
	Indian Railways - Mumbai(DDL)	107.05	108.36	105.95	101.95	100.86	101.23						
6	Mindspace (DDL)	14.13	15.15	14.48	14.01	13.12	13.43						
7	Gigaplex (DDL)	6.46	6.83	6.54	6.18	6.04	6.16						
9	Nidar Utilities	0.54	0.56	0.57	0.67	0.64	0.66						
10	KRCIPPL	-	-	0.45	0.75	1.12	1.25						
	Total	22,305.60	22,616.40	22,069.66	20,000.54	19,682.57	18,742.81						

C) Average of CPD and NCPD (MW)

Sr. No.	Particulars	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	MSEDCL	18,526.23	18,804.01	18,023.93	16,301.91	16,194.75	15,031.31						
2	TPCL-D	868.40	870.14	897.13	807.74	776.61	837.91						
3	AEML-D	1,558.57	1,577.86	1,659.18	1,514.98	1,423.88	1,416.17						
4	BEST	890.50	886.50	938.00	839.00	787.50	794.00						
5	Indian Railways- Rest of Maharashtra (DDL)	273.37	272.63	280.16	243.14	230.56	232.36						
	Indian Railways - Mumbai(DDL)	97.24	98.85	97.22	95.47	100.82	98.44						
6	Mindspace (DDL)	13.90	14.56	14.22	13.29	12.49	12.48						
7	Gigaplex (DDL)	6.45	6.49	6.37	5.70	5.76	5.78						
9	Nidar Utilities	0.52	0.52	0.52	0.59	0.61	0.55						
10	KRCIPPL	-	-	0.28	0.52	0.89	0.85						
	Total	22,235.17	22,531.54	21,917.02	19,822.32	19,533.84	18,429.85						



Maharashtra State Electricity Transmission Company Ltd.
MYT Petition Formats - State Transmission Utility
Form 3: Base Transmission Capacity Rights

Sr. No.	Particulars	Ensuing Years										Remarks
		FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25		
		TCR (MW)	TCR (%)	TCR (MW)	TCR (%)	TCR (MW)	TCR (%)	TCR (MW)	TCR (%)	TCR (MW)	TCR (%)	
1	MSEDCL	18,600.89	83.96%	19,625.83	84.22%	20,707.23	84.47%	21,848.23	84.72%	23,052.09	84.97%	
2	TPCL-D	817.09	3.69%	839.43	3.60%	862.39	3.52%	885.97	3.44%	910.20	3.35%	
3	AEML-D	1,509.43	6.81%	1,566.48	6.72%	1,625.69	6.63%	1,687.14	6.54%	1,750.91	6.45%	
4	BEST	827.95	3.74%	846.77	3.63%	866.02	3.53%	885.71	3.43%	905.85	3.34%	
5	Indian Railways (DDL)	375.10	1.69%	398.26	1.71%	422.85	1.72%	448.96	1.74%	476.69	1.76%	
6	Mindspace (DDL)	13.10	0.06%	13.12	0.06%	13.14	0.05%	13.15	0.05%	13.17	0.05%	
7	Gigaplex (DDL)	5.82	0.03%	6.20	0.03%	6.61	0.03%	7.05	0.03%	7.51	0.03%	
9	Nidar Utilities	0.49	0.00%	0.49	0.00%	0.49	0.00%	0.49	0.00%	0.49	0.00%	
10	KRCIPPL	5.00	0.02%	7.50	0.03%	9.08	0.04%	11.00	0.04%	13.32	0.05%	
	Total Transmission Capacity Rights of all TSUs	22,154.87	100.00%	23,304.08	100.00%	24,513.51	100.00%	25,787.70	100.00%	27,130.23	100.00%	



Maharashtra State Electricity Transmission Company Ltd.
MYT Petition Formats - State Transmission Utility
Form 4: Transmission Tariff for Control Period

Sr. No.	Particulars	Unit	Reference	Ensuing Years					Remarks
				FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	
1	Total Transmission System Cost (TTSC)	Rs. Crore	Form 1	12,260.56	7,543.15	7,949.73	8,668.61	9,414.99	
2	Base Transmission Capacity Rights	MW	Form 3	22,154.87	23,304.08	24,513.51	25,787.70	27,130.23	
3	Transmission Tariff (long term/ medium term)	Rs./kW/month		461.17	269.74	270.25	280.13	289.19	
4 [^]	Transmission Tariff (short term/ short term collective/ renewable energy)	Rs./kWh		0.77	0.46	0.47	0.49	0.52	
5	Energy Units Transmitted (Discom Projections)	MUs		1,59,700.93	1,65,005.11	1,70,597.45	1,76,498.51	1,82,734.64	
	Base Transmission Capacity Rights (SLDC Projection)*			23048	23910	24804	25732	26694	
	Considering Distribution Companies Energy Projections [^]								

*Projections are at 3.74% CAGR (FY16-19)



<REF>

Maharashtra State Electricity Transmission Company Ltd.
MYT Petition Formats - State Transmission Utility
Form 5: Annual Sharing of Total Transmission System Cost (TTSC) among Transmission System Users (TSU):

Sr. No.	Particulars	Ensuing Years															Remarks
		FY 2020-21			FY 2021-22			FY 2022-23			FY 2023-24			FY 2024-25			
		Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	Share of Avg of CPD and NCPD (MW)	Share of Avg of CPD and NCPD (%)	Share of TTSC (Rs. Crore)	
1	MSIDCL	18,600.89	83.96%	10,293.78	19,625.83	84.22%	6,352.56	20,707.23	84.47%	6,715.36	21,848.23	84.72%	7,144.34	23,052.09	84.97%	7,999.76	
2	TPCL-D	817.09	3.69%	452.18	839.43	3.60%	271.71	862.39	3.52%	279.67	885.97	3.44%	297.82	910.20	3.35%	315.86	
3	AEMCL-D	1,509.43	6.81%	835.32	1,566.48	6.72%	507.05	1,625.69	6.63%	527.21	1,687.14	6.54%	567.14	1,750.91	6.45%	607.62	
4	BEST	827.95	3.74%	458.19	846.77	3.63%	274.09	866.02	3.53%	280.85	885.71	3.43%	297.73	905.85	3.34%	314.36	
5	Indian Railways (DDL)	375.10	1.69%	207.58	398.26	1.71%	128.91	422.85	1.72%	137.13	448.96	1.74%	150.92	476.69	1.76%	165.42	
6	Mindspace (DDL)	13.10	0.06%	7.25	13.12	0.06%	4.25	13.14	0.05%	4.26	13.15	0.05%	4.42	13.17	0.05%	4.57	
7	Gigaplex (DDL)	5.82	0.03%	3.22	6.20	0.03%	2.01	6.61	0.03%	2.14	7.05	0.03%	2.37	7.51	0.03%	2.61	
9	Nidar Utilities	0.49	0.00%	0.27	0.49	0.00%	0.16	0.49	0.00%	0.16	0.49	0.00%	0.16	0.49	0.00%	0.17	
10	KRCPPPL	5.00	0.02%	2.77	7.50	0.03%	2.43	9.08	0.04%	2.95	11.00	0.04%	3.70	13.32	0.05%	4.62	
	Total	22,154.87	100.00%	12,260.56	23,304.08	100.00%	7,543.15	24,513.51	100.00%	7,949.73	25,787.70	100.00%	8,668.61	27,130.23	100.00%	9,414.99	



Maharashtra State Electricity Transmission Company Ltd.
MYT Petition Formats - State Transmission Utility
Form 6: Monthly Total Transmission System Cost (TTSC) payable by Transmission System Users (TSU)

(Rs. Crore)												(Rs. Crore)
Sr. No.	Particulars	Ensuing Years (Rs. Crore)										Remarks
		FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25		
		Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	
1	MSEDCL	10,293.78	857.82	6,352.56	529.38	6,715.36	559.61	7,344.34	612.03	7,999.76	666.65	
2	TPCL-D	452.18	37.68	271.71	22.64	279.67	23.31	297.82	24.82	315.86	26.32	
3	AEML-D	835.32	69.61	507.05	42.25	527.21	43.93	567.14	47.26	607.62	50.63	
4	BEST	458.19	38.18	274.09	22.84	280.85	23.40	297.73	24.81	314.36	26.20	
5	Indian Railways (DDL)	207.58	17.30	128.91	10.74	137.13	11.43	150.92	12.58	165.42	13.79	
6	Mindspace (DDL)	7.25	0.60	4.25	0.35	4.26	0.35	4.42	0.37	4.57	0.38	
7	Gigaplex (DDL)	3.22	0.27	2.01	0.17	2.14	0.18	2.37	0.20	2.61	0.22	
9	Nidar Utilities	0.27	0.02	0.16	0.01	0.16	0.01	0.16	0.01	0.17	0.01	
10	KRCIPPL	2.77	0.23	2.43	0.20	2.95	0.25	3.70	0.31	4.62	0.39	
	Total	12,260.56	1,021.71	7,543.15	628.60	7,949.73	662.48	8,668.61	722.38	9,414.99	784.58	
	CHECK	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	



Maharashtra State Electricity Transmission Company Ltd.
MYT Petition Formats - State Transmission Utility
Form 7: Recovery of ARR of Transmission Licensees

		(Rs. Crore)										(Rs. Crore)
Sr. No.	Particulars	Ensuing Years (Rs. Crore)										Remarks
		FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25		
		Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	Annual	Monthly	
1	MSETCL	8,591.84	715.99	4,775.02	397.92	4,977.54	414.80	5,101.41	425.12	5,250.37	437.53	
2	ATIL	266.97	22.25	114.98	9.58	110.42	9.20	105.86	8.82	101.37	8.45	
3	MEGPTCL	1,857.00	154.75	1,050.75	87.56	1,013.96	84.50	977.34	81.45	940.90	78.41	
4	VIPL-T	2.27	0.19	4.07	0.34	3.93	0.33	3.79	0.32	3.66	0.31	
5	AEML-T	401.63	33.47	550.65	45.89	723.94	60.33	1,298.06	108.17	1,883.17	156.93	
6	TPC-T	959.29	79.94	928.06	77.34	1,004.66	83.72	1,071.96	89.33	1,129.62	94.14	
7	JPTL	96.87	8.07	72.92	6.08	70.24	5.85	66.81	5.57	64.15	5.35	
8	APTCL	84.69	7.06	46.70	3.89	45.04	3.75	43.38	3.62	41.75	3.48	
	Total	12,260.56	1,021.71	7,543.15	628.60	7,949.73	662.48	8,668.61	722.38	9,414.99	784.58	
	CHECK	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	

