Before the MAHARASHTRA ELECTRICITY REGULATORY COMMISSION World Trade Centre, Centre No.1, 13th Floor, Cuffe Parade, Mumbai – 400 005 Tel. No. 022 22163964/ 65/ 69 Fax No. 022 - 22163976 Email: mercindia@merc.gov.in Website: <u>www.mercindia.org.in</u> / <u>www.merc.gov.in</u>

CASE NO. 168 of 2017

In the matter of

Petition of Maharashtra State Electricity Transmission Co. Ltd. for Truing-up of Aggregate Revenue Requirement (ARR) for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20, including disallowed capitalisation for FY 2010-11 to FY 2014-15

> <u>Coram</u> Shri Anand B. Kulkarni, Chairperson Shri I. M. Bohari, Member Shri Mukesh Khullar, Member

<u>ORDER</u>

Date: 12 September, 2018

Maharashtra State Electricity Transmission Co. Ltd. (MSETCL), Prakashganga, 6th Floor, Plot No. C-19, 'E' Block, Bandra-Kurla Complex, Mumbai has filed a Petition on 30 November, 2017 for Truing-up of Aggregate Revenue Requirement (ARR) for FY 2015-16 under the MERC (Multi Year Tariff) Regulations ('MYT Regulations'), 2011; and Truing-up of ARR for FY 2016-17, provisional Truing up of approval of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 under the MYT Regulations, 2015, including the impact of past period disallowed capitalisation for FY 2010-11 to FY 2014-15. Thereafter, MSETCL submitted a revised Petition on 11 June, 2018.

The Commission, in exercise of its powers under Sections 61 and 62 of the Electricity Act (EA), 2003 and all other powers enabling it in this behalf, and after taking into consideration submissions made during these proceedings and the public consultation process, and other relevant material has approved the Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of the ARR for FY 2017-18 and the revised estimates of ARR for FY 2018-19 and FY 2019-20 in this Order.

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LIST OF ABBREVIATIONS

AC System	Alternating Current System					
A&G	Administrative and General					
ARR	Aggregate Revenue Requirement					
ATE	Appellate Tribunal for Electricity					
BEST	Brihanmumbai Electric Supply and Transport Undertaking					
Commission/MERC	Maharashtra Electricity Regulatory Commission					
СВА	Cost Benefit Analysis					
СРІ	Consumer Price Index					
Capex	Capital Expenditure					
CWIP	Capital Work In Progress					
DA	Dearness Allowance					
DC System	Direct Current System					
DPR	Detailed Project Report					
EA 2003	Electricity Act, 2003					
EHV	Extra High Voltage					
FY	Financial Year					
GFA	Gross Fixed Assets					
IGAAP	Indian Generally Accepted Accounting Principles					
IND AS	Indian Accounting Standards					
InSTS	Intra-State Transmission System					
IoWC	Interest on working capital					
kV	Kilo Volt					
kW	Kilo Watt					
LILO	Loop In Loop Out					
MAT	Minimum Alternate Tax					
MSEB	Maharashtra State Electricity Board					
MSETCL	Maharashtra State Electricity Transmission Company Ltd.					
MSEDCL	Maharashtra State Electricity Distribution Company Ltd.					
MSLDC	Maharashtra State Load Despatch Centre					
MTR	Mid-Term Review					
MYT	Multi Year Tariff					
MW	Mega Watt					
O&M	Operation and Maintenance					

PBT	Profit Before Tax		
R&M	Repair and Maintenance		
RInfra-T Transmission Business of Reliance Infrastructure Ltd.			
RInfra-DDistribution Business of Reliance Infrastructure Ltd.			
RoE	Return on Equity		
SBI	State Bank of India		
SBAR	State Bank of India Advance Rate		
STU	State Transmission Utility		
TPC-T	Transmission Business of Tata Power Company		
TPC-D	Distribution Business of Tata Power Company		
TSU	Transmission System User		
TTSC	Total Transmission System Cost		
WPI	Wholesale Price Index		

1 INTRODUCTION

1.1 Background

- 1.1.1 MSETCL is a Company formed under Government of Maharashtra (GoM) Resolution dated 24 January, 2005 from 6 June, 2005 in accordance with Part XIII of the Electricity Act (EA), 2003. It was incorporated as a Company under the Companies Act, 1956 on 31 May, 2005.
- 1.1.2 The Provisional Transfer Scheme was notified under Section 131(5) (g) of the EA, 2003 on 6 June, 2005, which resulted in the creation of four successor Companies (including MSETCL) from the erstwhile Maharashtra State Electricity Board (MSEB).
- 1.1.3 MSETCL is in the business of Transmission of electricity in Maharashtra, and has been notified as the State Transmission Utility (STU) as per Section 39 of the EA, 2003.

1.2 Multi-Year Tariff Regulations and Control Period

- 1.2.1 The MYT Regulations, 2011 were applicable for the 2nd Control Period FY 2011-12 to FY 2015-16 and were amended in October, 2011.
- 1.2.2 On 8 December, 2015 the Commission notified the MYT Regulations, 2015 for the 3rd Control Period FY 2016-17 to FY 2019-20. The First Amendment to these Regulations is notified on 29 November, 2017.

1.3 Petition and Prayers of MSETCL

- 1.3.1 MSETCL filed its Petition for Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 on 30 November, 2017 and the revised Petition on 11 June, 2018. MSETCL has also sought additional recovery due to the impact of disallowed capitalisation for past years.
- 1.3.2 MSETCL's main prayers in the revised Petition are as follows:
 - 2. Allow the recovery of impact of disallowed capitalization for past years along with the appropriate carrying cost and allow to recover the same with ARR for FY 2018-19;
 - 3. Allow true-up of expenses of FY 2015-16 based on the Audited Accounts and approve the Revenue gap/(surplus) arrived after duly sharing the efficiency gain/loss with the transmission system users of MSETCL according to the principle as set out in MERC (MYT) Regulations, 2011;
 - 4. Allow true-up of expenses of FY 2016-17 based on the Audited Accounts

and approve the Revenue gap/(surplus) arrived after duly sharing the efficiency gain/loss with the transmission system users of MSETCL according to the principle as set out in MERC (MYT) Regulations, 2015;

- 5. Approve the provisional true-up for FY 2017-18 to the extent claimed by MSETCL in accordance with the submissions and rationale given in this Petition as per MERC (MYT) Regulations, 2015;
- 6. Approve the revised ARR forecast for FY 2018-19 to FY 2019-20 as provided in the Petition according to the principle of the Commission set out in MERC (MYT) Regulations, 2015;
- 7. Determine the revised ARR for FY 2018-19 to FY 2019-20 that would help in recovery of consolidated ARR including revenue gap/(surplus);
- 8. Provide the workable excel model used by the Hon'ble Commission for approval of the above true up and ARR Requirement of MSETCL;
- 1.3.3 On 9 December, 2017, the Commission forwarded the data gaps and information requirements, which MSETCL responded to on 2 January, 2018. The first preadmittance discussion on the Petition was held on 14 December, 2017. The list of persons who attended the discussion is at **Appendix-1**. A second pre-admittance discussion on the Petition, for which the Authorised Consumer Representatives (ACRs) were also invited, was held on 22 February, 2018. No ACRs attended the discussion. The list of persons who attended the discussion is at **Appendix-2**.
- 1.3.4 Additional clarifications were sought on 27 April, 2016 and MSETCL replied to these on 11, 12, 13, 14, 17 and 20 May, and 10 and 13 June, 2018.

1.4 Admission of Petition and Public Consultation Process

- 1.4.1 The Commission admitted the Petition on 12 June, 2018 and directed MSETCL to publish a Public Notice in accordance with Section 64 of the EA, 2003, in the prescribed abridged form and manner and to reply expeditiously to all the suggestions and comments received.
- 1.4.2 MSETCL issued a Public Notice inviting comments/suggestions/objections on its Petition. The Public Notice was published in English in Indian Express and Hindustan Times, and in Marathi in Sakal and Punyanagari, all daily newspapers, on 18 June, 2018. The Petition and its Summary were made available for inspection/purchase at MSETCL's offices and website (www.mahatransco.in). The Public Notice and Executive Summary of the Petition were also made available on the websites of the Commission (www.mercindia.org.in, www.merc.gov.in) in downloadable format.
- 1.4.3 The Commission received written suggestions and objections on the Petition. The Public Hearing was held on 23 July, 2018. The list of persons who attended the Public Hearing is at Appendix-3. No oral suggestions or objections were raised during the Public Hearing.

1.4.4 The Commission has ensured that the due process contemplated under law to ensure transparency and public participation was followed at every stage and adequate opportunity was given to all concerned to express their views.

1.5 Organisation of the Order

- 1.5.1 This Order is organised in the following ten Sections:
 - Section 1 provides a brief of the regulatory process undertaken by the Commission.
 - Section 2 deals with the suggestions / objections received, the responses of MSETCL and the Commission's rulings.
 - Section 3 deals with the impact of disallowed capitalisation of FY 2010-11 to FY 2014-15.
 - Section 4 deals with the approval of Truing-up of ARR for FY 2015-16.
 - Section 5 deals with the approval of Truing-up of ARR for FY 2016-17.
 - Section 6 deals with the provisional Truing-up of ARR for FY 2017-18.
 - Section 7 deals with the approval of revised estimates of ARR for the FY 2018-19 and FY 2019-20.
 - Section 8 deals with MSETCL's compliance to the directives issued by the Commission in the previous Orders.
 - Section 9 sets out the mechanism for recovery of Transmission Charges.
 - Section 10 deals with the applicability of the present Order.

2 SUGGESTIONS/OBJECTIONS RECEIVED, MSETCL'S RESPONSE AND THE COMMISSION'S RULING

2.1 High Transmission and Retail Tariff in Maharashtra

Suggestion/Objections

- 2.1.1 Shri Hari Ram Shinde of Farmers Welfare Forum, Nashik has raised the following objections:
 - Transmission Tariff and Distribution Tariff in Maharashtra is highest amongst all the States in India on account of incorrect planning, delays in project execution, and inefficiencies in Generation, Transmission and Distribution by private as well as Government Utilities/Licensees. It is further stated that it is evident from present and past Petitions filed by MSETCL that the transmission projects are being delayed by around 5 to 10 years and such projects are still under construction without any visibility regarding their completion. As an example, the Babhaleshwar – Mumbai EHV line and 400 kV HT Sub-station in Nashik are not being completed on time despite repeated tendering process, which raises project costs and ultimately burdens the retail consumers. Moreover, there is erection of Sub-stations in certain areas even where these are not required, which causes under-utilization of assets.
 - There is a lack of co-ordination amongst the existing Transmission Licensees such as Tata Power, Reliance, Adani and Power Grid Corporation of India (PGCIL). Network erection is being done as per individual requirements without proper planning. Moreover, network erection is being done without prior approval from the District Collectors causing damage to farmers.
 - It is suggested that transmission network should be laid based on actual demand, with proper planning and co-ordination amongst Licensees such as MSETCL, Tata Power, Adani and PGCIL in a timely manner with payment of due compensation to land owners to avoid delays and cost overruns and consequently, burden on the consumers.
 - It is also suggested to separate the functioning of the STU from MSETCL which will benefit the system and consumers and erection of Transmission Network by private companies shall be stopped.

MSETCL's Response

- 2.1.2 MSETCL has responded as follows:
 - **High Tariff and attributable reasons** Transmission Charges are approved by the Commission after prudence check of all the parameters based on applicable Multi Year Tariff Regulations. In respect of efficiency, MSETCL is

achieving higher Transmission System Availability as compared to the benchmark specified by the Commission.

- **Delay in project execution** project execution is a function of many uncontrollable parameters like Right of Way, Land acquisition, Rehabilitation and Resettlement, Forest Clearance, etc. and the schedule of execution and completion of certain projects result into delays on account of these issues.. Accordingly, delay in completion of EHV Line from Babhaleshwar to Mumbai is due to the factors beyond control of MSETCL as explained above.
- **High Transmission Charges** the Transmission Charges are approved by the Commission after prudence check of all the parameters including the verification of the reasons for time/cost overrun based on applicable Multi Year Tariff Regulations.
- High project cost vis-à-vis unutilized or under-utilized asset MSETCL executes all the projects based on STU plan and after approval of the Detailed Project Report (DPR) by the Commission for projects costing more than Rs. 10 Crore. The project works are awarded based on competitive bidding to the party quoting the lowest through highly advanced SRM e-tendering system after technical and commercial evaluation. As regards time and cost overrun, the delay in completion of projects is due to uncontrollable parameters like Right of Way, Land acquisition, Rehabilitation and Resettlement, Forest Clearance, etc. All assets viz. Sub-stations and Lines are constructed based on requirements, STU Plan and approval by the Commission after communication of the requirement by various DISCOMs.
- Lack of Co-ordination among Transmission Licensees the STU being a nodal agency for planning of transmission network carries out various studies to develop an STU plan from time to time. This ensures coordination between various Transmission entities for augmentation of their network.
- **Compensation to farmers** MSETCL makes appropriate and timely payments towards compensation to the affected farmers as per compensation policy of GoM and in accordance with the statutory provisions in this regard.
- **Permission from Collector for setting up Sub-stations** MSETCL constructs Transmission Network viz. Sub-stations and Lines as per STU Plan after getting approvals from the Commission which is the duly appointed authority as per Electricity Act, 2003.

Commission's Analysis and Ruling

2.1.3 The Commission has noted MSETCL's response. The Commission approves the ARR of all Licensees based on Audited Annual Accounts and necessary prudence check in line with the applicable MYT Regulations, for the time being in force. Moreover,

Transmission related capital expenditure projects are proposed by Transmission Licensees based on the 5-year rolling STU plan as prepared by STU in consultation with Transmission Licensees and Distribution Licensees.

- 2.1.4 The Commission approves the capex schemes in-principle, as submitted by Transmission Licensees as per STU Plan, after analysis and limited prudence check in accordance with the capital investment guidelines of the Commission. At the time of approval, the Commission specifically directs Transmission Licences to execute the work on least cost basis through competitive bidding and complete the same within the stipulated time limit and estimated cost and put the asset to use for the benefit of the consumers. The Licensee is also directed to submit the scheme closure / completion report along with the justification of increase in actual cost vis-a-vis the approved cost, if any.
- 2.1.5 While these capex schemes are approved by the Commission, on submission by the Transmission Licensees after scrutiny and prudence check, the Transmission Licensees and the STU are obligated to undertake proper technical and financial planning with respect to least cost and timely completion, assess the requirement of the scheme for optimum use, ensure co-ordination amongst the Licensees of the Intra State Transmission Licensees (InSTS) and Inter State Transmission Licensees (ISTS) viz. PGCIL for smooth execution and completion of the project within the approved cost and timelines.
- 2.1.6 The Commission notes that there are certain schemes which have substantial time and cost over-run. Also, there are certain schemes which are completed but are either under-utilised or not utilised at all. Hence, the Commission has disallowed the capitalisation against such scheme after necessary prudence check, as these are not benefiting the consumers.
- 2.1.7 In respect of the scheme of 400 kV Line from Babhleshwar to Mumbai (Khudus), the Commission notes that the scheme was originally approved in-principle by the Commission in the year 2011. Thereafter, on account to change in the scope of work and increase in the estimated cost, MSETCL sought a revised approval in the year 2017. Accordingly, the Commission has accorded approval to the revised cost In-principle with specific directives to expedite the work under this scheme as well as verification of the actual cost of this scheme by an independent third party expert/institution. Further, MSETCL has not claimed any capitalisation towards this Transmission Line work as no assets are put to use. Moreover, the Commission will carry out the necessary prudence check including considering the recommendations of the third party expert/institution, in any, prior to approval of any capitalisation against this scheme as and when claimed by MSETCL.
- 2.1.8 In respect of the scheme of 400 kV Nashik Sub-station, the Commission notes that the scheme was originally approved in-principle by the Commission in the year 2014. Thereafter, on account to change in the scope of work and increase in the estimated

cost, MSETCL sought a revised approval in the year 2017. Accordingly, the Commission has accorded approval to the revised cost In-principle with specific directives to expedite the work under this scheme. Further, MSETCL has not claimed any capitalisation towards this scheme no assets are put to use. Moreover, the Commission will carry out the necessary prudence check prior to approval of any capitalisation against this scheme as and when claimed by MSETCL.

- 2.1.9 The Commission also directs the STU to submit the details of the un-utilised Substations, Lines, Bays, etc. of all the Transmission Licensees which are a part of InSTS along with detailed justification for the non-utilisation and future action plan for such assets within three months from the date of this Order.
- 2.1.10 The Commission expects MSETCL to propose any capex scheme in consultation with STU, after necessary due diligence and considering the plan of other Transmission Licensees such as PGCIL and others to avoid duplication of network.

3 IMPACT OF DISALLOWED CAPITALISATION OF ASSETS FOR PREVIOUS YEARS

MSETCL's Submission

3.1 Disallowed Capitalisation of Assets during FY 2010-11

- 3.1.1 Capitalization of Rs. 86.07 Crore claimed against wind power schemes was disallowed vide Order in Case No. 169 of 2011. An amount of Rs. 8.16 Crore out of Rs 86.07 Crore was allowed in the Review Petition in Case No. 106 of 2012 while the remaining amount of Rs. 77.91 Crore was disallowed since the payment was not made to the Developers.
- 3.1.2 Subsequently, payments were made to the Developers and MSETCL claimed Rs. 22.15 Crore out of total disallowed capitalization of Rs. 96.94 Crore for the FY 2010-11 in the MYT Petition in Case No. 31 of 2016. The entire capitalisation of Rs. 22.15 Crore was allowed vide MYT Order in Case No. 31 of 2016 in FY 2014-15 as the payments to Developers were made in that year.
- 3.1.3 Thereafter, MSETCL has made further payment of Rs. 15.33 Crore to Developers against which the approval of the Commission has been sought under the disallowed capitalisation for FY 2010-11 as shown in the Table below.

Table 1: Claim for disallowed Capitalisation for FY 2010-11, as submitted by MSETCL(Rs. Crore)

FY 2010 11	Case No. 1	69 of 2011	Approved in Case	Approved in Case	Approved in Case	Approved in Case	Balance to be	Claimed in this
2010-11	Actual	Approved	No. 106 of 2012	No. 39 of 2013	No. 207 of 2014	No. 31 of 2016	claimed	Petition
DPR	2,010.42	1,676.47	182.80	47.07	101.25			
Non- DPR#	491.86	335.43	36.56	9.41	16.35	22.15	74.79	15.33
Total	2,502.28	2,011.90	219.36	56.48	117.60	22.15	74.79	15.33

3.1.4 MSETCL has computed the Depreciation, Interest on Long Term Loans, incentive for Transmission Availability and RoE due to the change in the Gross Fixed Assets (GFA), equity and loan on account of the claim of disallowed capitalisation.

3.2 Disallowed Capitalisation of Assets during FY 2011-12

- 3.2.1 Capitalization of Rs. 46.52 Crore claimed in FY 2011-12 was disallowed vide Order in Case No. 39 of 2013 for 269 unutilized bays of 33/22/11 kV constructed in various Sub-stations.
- 3.2.2 Subsequently, on production of documentary evidence regarding utilization of 22 bays (i.e. 33 kV- 17 Nos. and 22 kV- 5 Nos.), the Commission allowed capitalization of Rs. 4.09 Crore vide Order in Case No. 207 of 2014.

3.2.3 MSETCL has further put to use 46 more bays claimed in FY 2011-12 at the cost of Rs 8.54 Crore and the corresponding amount is sought for capitalisation in the present Petition. The summary of the disallowed capitalization claimed for FY 2011-12 is shown in the Table below:

Table 2: Claim for disallowed Capitalisation for FY 2011-12, as submitted by MSETCL (Rs. Crore)

FY			Disallowed	Approved	Approved	Balance	Claimed
2011-12	Claimed	Approved	Capital- isation	in Case No. 207 of 2014	in Case No. 31 of 2016	to be claimed	in this Petition
DPR	1,967.69	1,921.17	46.52	4.09	5.02	37.41	8.54
Non-DPR	274.34	271.74	2.60	-	-	2.60	-
Intangible assets	19.50	19.50	-	-	-	-	-
Total	2,261.53	2,212.41	49.12	4.09	5.02	40.01	8.54

3.2.4 MSETCL has computed the Depreciation, Interest on Long Term Loans, incentive for Transmission Availability and RoE due to the change in the GFA, equity and loan on account of the above claim for disallowed capitalisation.

3.3 Disallowed Capitalisation of Assets during FY 2012-13

- 3.3.1 Capitalization of Rs. 149.50 Crore was disallowed vide Order in Case No. 207 of 2014 for FY 2012-13 on account various reasons such as Non-utilization of 33/22 kV bays; scheme approved before March 2011 but having negligible capitalization; DPR not submitted; capitalization only on account of land development; civil work and cost over-run.
- 3.3.2 Capitalisation of Rs. 101.74 Crore was claimed in the MYT Petition in Case No. 31 of 2016 against which capitalisation towards three cost over-run schemes and one scheme comprising of civil work-related part was allowed by the Commission on the basis of justification provided by MSTECL.
- 3.3.3 MSETCL has now complied with the requirements and hence claimed part of this amount as set out below.

Table 3: Break-up of claim for disallowed Capitalisation for FY 2012-13, as submittedby MSETCL (Rs. Crore)

Sr.	Particulars	Amount
No.		
a)	Capitalisation claimed on utilisation of 33/22/11 kV bays	10.29
b)	Scheme approved in-principle during or before March 2011 for which	11.87
	there is negligible capitalisation	
c)	Scheme having negligible capitalisation as per half yearly progress report	0.59

Sr. No.	Particulars	Amount
d)	DPR not submitted	17.47
e)	Part capitalization on account of land development, civil work etc.	13.16
	Total Capitalisation claimed	53.37

^{3.3.4} The summary of the disallowed capitalisation claimed in the Petition is shown in the Table below:

Table 4: Claim of disallowed Capitalisation for FY 2012-13, as submitted by MSETCL
(Rs. Crore)

FY	Case No. 207 of 2014		Disallowed	Approved	Balance	Claimed
2012-13	Claimed	Approved	Capital- isation	in Case No. 31 of 2016	to be claimed	in this Petition
DPR	2,083.72	1,934.22	95.34	26.67	68.67	43.08
Capitalisation disallowed for unutilized bays		(1,988.38- 54.16*)	54.16	14.67	39.49	10.29
Total	2,083.72	1,934.22	149.50	41.34	108.16	53.37

Note: Past period disallowed capitalisation of Rs. 15.60 Crore approved in Case No. 207 of 2014 is not shown in the above table;

* The amount of Rs. 54.16 Crore pertains to capitalisation disallowed due to non-utilisation of bays.

3.3.5 MSETCL has computed the Depreciation, Interest on Long Term Loans, incentive for Transmission Availability and RoE due to the change in the Gross Fixed Assets (GFA), equity and loan on account of the claim of disallowed capitalisation.

3.4 Disallowed Capitalisation of Assets during FY 2013-14

- 3.4.1 Capitalisation of Rs. 81.24 Crore was disallowed vide Order in Case No. 207 of 2014 for FY 2013-14 on account various reasons such as Non-utilization of 33/22 kV bays; scheme approved before March 2011 but having negligible capitalization; DPR not submitted; capitalization only on account of land development; civil work and cost over-run.
- 3.4.2 Capitalisation of Rs. 68.42 Crore was claimed in the MYT Petition in Case No. 31 of 2016 against which capitalisation of Rs. 7.94 Crore was allowed by the Commission.
- 3.4.3 MSETCL has now complied with the requirements and claimed a part of this amount as shown below.

Table 5: Break-up of claim of disallowed Capitalisation for FY 2013-14, as submitted byMSETCL (Rs. Crore)

Sr.	Particulars	Amount		
No.				
a)	Utilization of 33/22/11kV Bays	3.35		
	(inclusive of not constructed & repeated Bays)			
b)	Scheme approved in-principally during or before March 2011 for	19.30		
	which there is negligible capitalisation			
c)	Scheme having negligible capitalisation as per half yearly	11.31		
	progress report			
d)	DPR not submitted	14.07		
e)	Part capitalization on account of land development, civil work etc.	6.00		
f)	Disallowance of capitalization due to cost overrun	3.89		
	Total Capitalisation to be claimed	57.93		

3.4.4 The summary of the disallowed capitalisation now claimed is shown in the Table below:

Table 6: Claim of disallowed capitalisation for FY 2013-14, as submitted by MSETCL(Rs. Crore)

FY	Case No. 207 of 2014		Disallowed	Approved	Balance	Claimed
2013-14	Claimed	Approved	Capital- isation	in Case No. 31 of 2016	to be claimed	in this Petition
Total	1,571.52	1,490.28	62.00	5.16	56.84	54.58
Capitalisation		(1,509.52				
Capitalisation disallowed for unutilized bays		- 19.24*)	19.24	1.67	17.57#	3.35
Total	1,571.52	1,490.28	81.24	7.94	74.4 1 [#]	57.93

Note: Past period disallowed capitalisation of Rs. 1.70 Crore approved in Case No. 207 of 2014 is not shown in the above table.

[#] The values have been modified by the Commission based on approvals in the past Order and re-produced in the table.

* The amount of Rs. 19.24 Crore pertains to capitalisation disallowed due to non-utilisation of bays.

3.4.5 MSETCL has computed the Depreciation, Interest on Long Term Loans, incentive for Transmission Availability and RoE due to the change in the Gross Fixed Assets (GFA), equity and loan on account of the claim of disallowed capitalisation.

3.5 Disallowed Capitalisation of Assets during FY 2014-15

3.5.1 Capitalisation of Rs. 1,383.81 Crore towards various DPR and Non-DPR schemes capitalized and claim towards unutilized bays being put to use for FY 2014-15 was

claimed in Petition in Case No. 31 of 2016. A capitalisation of Rs. 1307.08 Crore was approved against the same vide the Order in Case No. 31 of 2016.

3.5.2 In the present Petition, disallowed capitalization of Rs. 88.19 Crore for FY 2014-15 is claimed against disallowed capitalisation of Rs. 87.42 Crore as per the MYT Order as well as against capitalisation of Rs. 10.21 Crore disallowed due to non-utilisation of bays. Capitalisation against duplicate schemes and ORC schemes is not claimed. The detailed break-up of the amount claimed by MSETCL for capitalisation in FY 2014-15 is provided below:

Table 7: Break-up of claim of disallowed Capitalisation for FY 2014-15, as submitted byMSETCL (Rs. Crore)

Sr.	Particulars	Amount
No.		
А	Disallowed due to negligible capitalisation, non-initiation or old	7.36
	schemes	
В	Time and Cost Over run	3.14
С	DPR not submitted	11.12
D	Cancelled schemes	19.22
Е	Schemes initiated in MSEB period	0.60
F	Rejected Schemes	0.28
G	Ongoing schemes with incomplete information	0.16
Н	Schemes pertaining to capitalisation against civil work	1.84
Ι	Schemes disallowed for non-compliance of Order No. 207 of 2014	42.61
J	Utilisation of Un-utilised bays	1.86
	Total	88.19

3.5.3 The summary of the disallowed capitalisation now claimed is shown in the Table below:

Table 8: Claim of disallowed capitalisation for FY 2014-15, as submitted by MSETCL(Rs. Crore)

FY	Case No.	31 of 2016			Claimed
2014-15	Claimed	Approved	Capital- isation	to be claimed	in this Petition
Total Capitalisation	1,383.81	1,273.79*	99.81	99.81	86.33
Capitalisation		(1,284.00-	10.21	10.21	1.86
disallowed for		10.21)			
unutilized bays					
Total	1,383.81	1,273.79	110.02	110.02	88.19

* MSETCL has considered the fresh DPR and Non-DPR capitalisation approved in the order in Case No. 31 of 2016 and excluded Rs. 33.29 Crore of past disallowed capitalisation allowed in that Order for representation.

3.5.4 MSETCL has computed the Depreciation, Interest on Long Term Loans, incentive for Transmission Availability and RoE due to the change in the Gross Fixed Assets (GFA), equity and loan on account of the claim of disallowed capitalisation.

3.6 Summary of Impact of Disallowed Capitalisation

3.6.1 MSETCL has computed the impact of disallowed capitalisation of FY 2010-11 to FY 2014-15 on Depreciation including Additional Advance Depreciation (AAD), Interest on Long Term Loans, RoE and Incentive on Transmission Availability pertaining to such assets. The additional impact of such disallowed capitalisation has been computed as the difference between MSETCL's claim of Depreciation, Interest on Long Term Loans, RoE and incentive for Transmission Availability for FY 2010-11 to FY 2014-15 in this Petition and the amounts approved under these heads during Truing-up of FY 2012-13 and FY 2013-14 in the Order in Case No. 207 of 2014 and Truing up of FY 2014-15 in the Order in Case No. 31 of 2016.

Table 9: Impact of disallowed Capitalisation for FY 2010-11 to FY 2014-15, assubmitted by MSETCL (Rs. Crore)

Particulars	FY	FY	FY	FY	FY	Total
	2010-11	2011-12	2012-13	2013-14	2014-15	
Difference in Interest on Long	0.60	1.56	3.89	8.88	15.05	29.97
Term Loans						
Difference in RoE	0.21	0.55	1.42	3.29	5.56	11.03
Difference in incentive on	0.01	0.09	0.10	0.33	0.00*	0.53
Transmission System						
Availability						
Difference in Depreciation	0.00	2.95	0.00	4.12	6.90	13.97
including AAD						
Total	0.82	5.15	5.41	16.62	27.50*	55.50*

* In the financial model, MSETCL has computed the differential incentive of Rs. 0.54 Crore for FY 2014-15 and hence total impact of Rs. 28.04 Crore for FY 2014-15 instead of Rs. 27.50 Crore. Consequently, the total impact of disallowed capitalisation for all years adds up to Rs. 56.04 Crore instead of Rs. 55.50 Crore. This difference is on account of incorrect linking of cells.

3.6.2 MSETCL has sought approval of the net Truing-up requirement due to the impact of disallowed capitalisation for past years, and proposes to include the revenue gap in the ARR for FY 2018-19.

Commission's Analysis and Ruling

3.7 Disallowed capitalisation approved by the Commission

3.7.1 In the past Truing-up Orders from FY 2010-11 to FY 2014-15, the Commission had disallowed certain capitalisation claimed by MSETCL for the various reasons set out by MSETCL above. Part of the disallowed capitalisation for past years was approved in the Orders in Case No. 39 of 2013, Case No. 207 of 2014 and the last MYT Order

in Case No. 31 of 2016. MSETCL has now claimed a further part of the disallowed capitalisation.

- 3.7.2 The details of these schemes and the cost-benefit analysis (CBA) reports submitted by MSETCL have been examined. For some schemes, MSETCL has sought approval for capitalisation in a particular year while other remarks or subsequent submissions indicate that the scheme was actually commissioned in a different year.
- 3.7.3 With regard to capitalisation of wind evacuation schemes, the Commission in its MTR Order in Case No. 207 of 2014 had ruled as below:

"3.8.3 With regard to capitalisation of Wind Evacuation Schemes, the Commission in its Review Order in Case No. 79 of 2014 had ruled as below:

The Commission in the present proceeding is not considering the issue, while directing the Petitioner to submit appropriate details during the MYT Mid-Term Performance Review. The Commission would scrutinise the details submitted during the Mid-Term Performance Review to form a final view on the issue.

3.8.4 However, in the present Petition, MSETCL has not submitted any details pertaining to capitalisation of such Wind Evacuation Schemes for FY 2011-12. Hence, the Commission has not considered any capitalisation relating to such schemes in the present Order."

- 3.7.4 MSETCL submitted the details of payment to developers for the wind evacuation schemes and activities completed towards these schemes, and claimed capitalisation of Rs. 15.33 Crore in FY 2010-11 in its Petition. However, it is evident from the submissions that the payments to the developers were made in the years 2014, 2015 and 2016.
- 3.7.5 MSETCL has computed the capitalisation towards unutilised Bays considering the cost per Bay between Rs. 19 Lakh to Rs. 21.47 Lakh per bay, based on the estimated cost of such Bays in the overall scheme cost. While disallowing the cost against these Bays, the Commission had considered the per Bay cost of Rs. 18.57 Lakh, which it is now applying for capitalisation of the unutilised Bays now put to use.
- 3.7.6 MSETCL has claimed capitalisation of Capex schemes which were disallowed in FY 2012-13, FY 2013-14 and FY 2014-15 on account of the reasons set out by MSETCL above. In the MTR Order in Case No. 207 of 2014, MSETCL was asked to revisit the disallowed Capex schemes, submit a review report and obtain fresh approval of the Commission prior to initiating any activity under such schemes. MSETCL has not submitted any report. Hence, no capitalisation was allowed for these schemes in the MYT Order in Case No. 31 of 2016 except for capitalisation for 3 cost over-run schemes and one scheme for which there is civil work-related part capitalisation is allowed on the basis of justification provided in the Petition.

- 3.7.7 In the present Order the Commission has reviewed the capitalisation claimed now for capex schemes disallowed previously. MSETCL has claimed part capitalisation of Rs. 88.19 Crore for FY 2014-15 in its Petition however, on scrutiny of the corresponding excel formats, it is evident that it has actually claimed a capitalisation of Rs. 101.75 Crore against such schemes for FY 2014-15. The same is considered by the Commission in its analysis. It is observed that MSETCL has short-closed most of such schemes which are approved in-principle long back (approved in March, 2011 and before). The Commission sought details of the actual assets put to use against the capitalisation claimed for each scheme submitted and approved the disallowed capitalisation only for those schemes where the assets put to use are ascertained. The schemes where the capitalisation is claimed only on account of purchase of land, civil works and where no assets are put to use have been disallowed.
- 3.7.8 The Commission observes that MSETCL is not committed to expeditiously complete previously disallowed capex schemes and continues to claim part capitalisation towards such schemes well beyond the project timelines year after year in successive Petitions. Despite directives to undertake need-based Capex after assigning due priority to schemes in its successive Orders, MSETCL continues to project Capex as a shelf of schemes/projects without any prioritisation. Thus, schemes approved long back and which may have lost their relevance continue to be executed well beyond their approved timelines, and schemes which are actually necessary get deferred for want of administrative approvals, regulatory approval, funds, proper project management/execution, manpower and so on. This is not a healthy practice and should not be encouraged.
- 3.7.9 Further, the Commission in the past Orders has been allowing capitalisation against old capex schemes disallowed previously in the respective year of put to use based on the information submitted by MSETCL and necessary prudence check. Based on these approvals, MSETCL earns the ARR on such capitalisation till the useful life of the asset or its retirement, whichever is earlier. Therefore, the Commission observes that there is no real dis-incentive to MSETCL to not expeditiously execute and put the assets created under these schemes to use and this is corroborated by the fact that MSETCL has been claiming capitalisation against such old schemes in successive Petitions till date. Hence, the Commission is of the view that prima facie this is a fit case to create some dis-incentive that will induce discipline in the Licensees to undertake proper planning, execution and commissioning of capital expenditure projects.
- 3.7.10 In view of the foregoing, the Commission has first identified the year of actual put to use of assets based on the detailed scheme-wise discussion with MSETCL as well as inputs provided from its data records and field offices in respect of these schemes. Further, as against the practise followed in the past Orders for approving previously disallowed capitalisation in the year in which they were actually put to use, the Commission in the Order has decided to consider capitalisation for all schemes which

were put to use in the period from FY 2010-11 and FY 2014-15 in the FY 2015-16. Further, for such schemes, the Commission has computed the year-wise depreciation, from the year of disallowance (as per previous Orders) upto the year FY 2015-16 considering the depreciation rates approved for the respective years. For schemes whose put to use is ascertained in FY 2016-17 or expected in the subsequent vears upto FY 2019-20, the Commission has computed the depreciation till such year of put to use in a similar manner. The total depreciation computed from the year of disallowance upto the year of put to use/ expected put to use is deducted from the claimed capitalisation amount to derive the net capitalisation (depreciated cost) against these schemes. This net capitalisation is considered for approval in the respective years from FY 2015-16 to FY 2019-20, as applicable. Considering that such previously disallowed capitalisation is now being allowed only from FY 2015-16, there is no impact of disallowed capitalisation computed for the years FY 2010-11 to FY 2014-15, separately. The approval of ARR elements pertaining to this capitalisation is dealt with in the respective year of capitalisation considered now, in the subsequent Sections of this Order.

- 3.7.11 In light of the above discussion and in order to induce more discipline in planning and execution of capex schemes by MSETCL, the Commission takes a considered decision to provide a final opportunity to MSETCL to claim any balance capitalisation for previously disallowed schemes (disallowed upto FY 2014-15 vide Orders in Case No. 39 of 2013, Case No. 207 of 2014 and Case No. 31 of 2016) in the next Tariff proceedings after which no claims for approval of such capitalisation shall be allowed. MSETCL is directed to submit closure/completion reports for all such schemes along with the next Tariff Petition.
- 3.7.12 Based on the foregoing discussion, the previously disallowed capitalisation approved by the Commission in this Order is shown in the Table below.

Particulars	MSETCL Petition	Gross Capitalisation considered for analysis by Commission	Net Capitalis ation approved in this Order
FY 2010-11	15.33	-	-
FY 2011-12	8.54	-	-
FY 2012-13	53.37	-	-
FY 2013-14	57.93	-	-
FY 2014-15*	88.19	-	-
FY 2015-16	-	123.57	115.21
FY 2016-17	-	26.84	23.03
FY 2017-18	-	19.32	16.09
FY 2018-19	-	-	-
FY 2019-20	-	7.29	5.67
Total	223.36	177.03	160.01
* MSETCL has ad	cutally claimed Rs.	101.75 Crore.	

 Table 10: Disallowed Capitalisation approved by Commission (Rs. Crore)

Note: The disallowed capitalisation approved in this Order for FY 2015-16 to FY 2019-20 is shown here for representation purpose. The impact is computed

in the Sections pertaining to respective years in this Order.

3.7.13 The Commission approves previously disallowed capitalisation of Rs. 160.01 Crore, as against MSETCL's claim of Rs. 223.36 Crore. Considering that the previously disallowed capitalisation is being allowed only from FY 2015-16, there is no impact of disallowed capitalisation computed for the years FY 2010-11 to FY 2014-15, separately. The approval of ARR elements pertaining to this capitalisation is dealt with in the respective year of capitalisation considered now, in the subsequent Sections of this Order. The list of capex schemes disallowed previously against which capitalisation is claimed by MSETCL and is considered by the Commission for analysis and approval is at Appendix – 4.

4 TRUING-UP OF ARR FOR FY 2015-16

4.1 Background

- 4.1.1 MSETCL has sought Truing-up of ARR for FY 2015-16 considering actual expenditure and revenue as per the audited accounts and in accordance with the MYT Regulations, 2011. It has submitted reasons for variations in the actual expenses for FY 2015-16 as compared to those approved in the MYT Order in Case No. 31 of 2016.
- 4.1.2 The analysis underlying the Commission's approval is set out below.

4.2 **Operation & Maintenance Expenses**

4.2.1 MSETCL has computed the O&M expenses in accordance with Regulation 61.5 of the MYT Regulations, 2011 which comprises Employee expenses, Administrative and General (A&G) expenses and Repairs and Maintenance (R&M) expenses. The summary of O&M expenses is as below:

Table 11: O&M Expenses for FY 2015-16, as submitted by MSETCL (Rs. Crore)

O&M Expenses	MYT	Normative	MSETCL
	Order		Petition
Employee Expenses			909.32
A&G Expenses			190.74
R&M Expenses			214.80
Total Operation & Maintenance			
Expenses (Net of capitalisation)	1,399.09	1,845.71	1,314.87

- 4.2.2 The actual O&M expenses incurred are less than the normative. The reasons for major deviations in actual O&M expenses incurred in FY 2015-16 as compared to FY 2014-15 have been submitted.
- 4.2.3 MSETCL's submissions on each of these expenditure heads, and the Commission's analysis are detailed below.

4.3 Employee Expenses

MSETCL's Submission

- 4.3.1 The Employee expenses for FY 2015-16 are arrived at after taking into consideration the actual expenses (including prior period Employee Expenses) as per the audited accounts, expense capitalized and SLDC Employee Expense.
- 4.3.2 The Prior Period Employee Expenses are the Employee expenses which were finalised in FY 2015-16 and therefore, not claimed in the ARR of the previous years.

Prior Period Employee expenses are sought to be approved as a part of Net Employee Expenses.

- 4.3.3 The Basic Salary has increased by Rs. 22.80 Crore in FY 2015-16 as compared to FY 2014-15, which is attributed to promotions and annual increments.
- 4.3.4 Dearness Allowance (DA) has increased in FY 2015-16 over FY 2014-15 by Rs. 57.54 Crore on account of regular upward revision in the rate of DA which in turn has resulted in increase in salaries of staff. DA is a component of salary and is computed on the basic salary of employees. The weighted average DA rate for FY 2015-16 was 119% as against the weighted average DA rate of 105.92% applicable during FY 2014-15. MSETCL has submitted the applicable DA rates for FY 2010-11 to FY 2015-16 in its Petition.
- 4.3.5 Other allowances have increased by Rs. 73.69 Crore in FY 2015-16 as compared to FY 2014-15 on account of the following reasons:
 - i. Medical Allowances MSETCL has introduced mediclaim policy covering major diseases for its employees in FY 2015-16. An amount of Rs. 11.6 Crore approximately has been spent for the premium towards this mediclaim policy.
 - ii. Trainings MSETCL has expanded its training for employees to various locations across the country which has resulted in increase in training cost by Rs. 3.18 Crore.
 - iii. Leave Encashment Based on the actuarial valuation, MSETCL has considered an increase in provision of leave encashment to the tune of Rs. 59.02 Crore.
- 4.3.6 Provident Fund contribution has increased by Rs. 23.76 Crore in FY 2015-16 as compared to FY 2014-15. Provident Fund contribution being statutory payment increases with increase in Basic salary and accordingly is sought to be approved on actual as per the Audited Accounts for FY 2015-16.
- 4.3.7 The employee expenses for FY 2015-16 as submitted by MSETCL are shown in the Table below:

Employee Expenses	MSETCL Petition
Gross Employee Expenses	996.09
Less: Expenses Capitalised	85.37
Net Employee Expenses	910.71
Less: SLDC Employee Expense	14.43
Net Employee Expense after adjustment for SLDC Employee	896.28

Table 12: Employee Expenses for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Employee Expenses	MSETCL Petition
Expense	
Add: Prior Period Employee Expense	13.04
Net Employee Expense after adjustment for SLDC and other	909.32
Expense	

Commission's Analysis and Ruling

4.3.8 The Commission has examined the component-wise comparison of actual Employee expenses for FY 2015-16 vis-a-vis FY 2014-15 submitted by MSETCL, as shown in the following Table:

Table 13: Deviation analysis of Employee Expenses for FY 2015-16 (Rs. Crore)

Particulars	FY	FY	Difference
	2014-15	2015-16	
	Actual	Actual	
Basic Salary	261.34	284.14	22.80
Dearness Allowance (DA)	276.12	333.66	57.54
House Rent Allowance	37.21	32.55	(4.66)
Earned Leave Encashment	14.24	7.87	(6.37)
Other Allowances	44.38	118.07	73.69
Medical Reimbursement	2.36	1.60	(0.76)
Overtime Payment	27.87	30.70	2.83
Bonus/Ex-Gratia Payments	11.91	12.12	0.21
Staff welfare expenses	4.09	4.80	0.71
Payment under Workmen's	0.12	0.18	0.06
Compensation Act			
Provident Fund Contribution	58.65	82.41	23.76
Pension Payments	0.08	0.08	(0.00)
Gratuity Payment	109.16	84.26	(24.90)
Leave Encashment on Retirement	61.62	3.64	(57.98)
Gross Employee Expenses	909.15	996.09	86.94

- 4.3.9 The Commission has examined the reasons for increase in Basic Salary, DA, Other Allowances, PF contribution etc. as well as the documentary evidence such as DA rate circulars, Audited Annual Accounts, Actuarial Valuation Report etc.
- 4.3.10 Increase in Basic Salary is on account of promotions and annual increments. The Commission accepts the reasons submitted by MSETCL for such increase and approves these elements as claimed by it.

- 4.3.11 The Commission accepts the DA as an uncontrollable factor since it is declared from time to time by the Government, and the Commission approves the DA as per MSETCL's submission.
- 4.3.12 Similarly, the Provident Fund contribution being statutory payment increases with increase in Basic salary and hence the Commission approves the contribution to PF as per MSETCL's submission.
- 4.3.13 In response to the break-up and justification sought for Other Allowances, MSETCL submitted that there is an increase in Other Allowances on account of premium paid for employee medi-claim policy, increase in trainings at multiple locations and leave encashment which is based on the actuarial valuation. These have been verified from the Audited Annual Accounts. Accordingly, the Commission approves the same.
- 4.3.14 The Commission has considered capitalised Employee expenses as per Audited Annual Accounts, and the MSLDC related Employee expenses as sought by MSETCL.
- 4.3.15 The Commission had explained the disallowance of prior period expenses as follows in Case No. 39 of 2013:

"4.12.5. The Commission opines that such expenses, being O&M in nature, is not considered in this Order, as prudent O&M expenses of previous years were approved by the Commission in previous True-up Orders after detailed scrutiny. Allowing prior period O&M expenses in this Order will lead to approval of certain imprudent expenses disallowed previously. Similarly, prior period expenses on account of interest and finance charges need not be considered as interest expenses were approved in previous Orders on the basis of normative loan balance and considering prior period interest expenses will lead to approval of interest expenses over and above the normative interest, which is not desirable. Hence, the Commission disallows prior period expenses claimed by MSETCL in the Petition."

4.3.16 Similarly, the Commission had also not considered the prior period expenses in the Order in Case No. 207 of 2014 as well as MYT Order in Case No. 31 of 2016 and hence the Commission is not inclined to review the O&M expenses of previous years, which were approved by it in the respective Orders for previous Trued-up years after detailed scrutiny. Accordingly, the Commission disallows prior period employee expenses now claimed by MSETCL for FY 2015-16. The employee expenses approved by the Commission for FY 2015-16 are as shown in the Table below:

Particulars	MTR Petition	Approved in this Order	
Gross Employee Expenses	996.09	996.09	
Less: Expenses Capitalised	85.37	85.37	
Net Employee Expenses	910.71	910.71	
Less: SLDC Employee Expense	14.43	14.43	
Net Employee Expense after adjustment	896.28	896.28	
for SLDC Employee Expense			
Add: Prior Period Employee Expense	13.04	-	
Total Employee Expense	909.32	896.28	

Table 14: Employee Expenses approved by Commission for FY 2015-16 (Rs. Crore)

4.3.17 The Commission approves Net Employee Expenses of Rs. 896.28 Crore on Truing-up of ARR for FY 2015-16.

4.4 Administrative and General Expenses

MSETCL's Submission

- 4.4.1 MSETCL's assets base has been increasing since the past few years which directly impact various heads of A&G Expenses like electricity charges, vehicle hiring expenses and security expenses.
- 4.4.2 The increase in A&G expenses is mainly on account of following reasons:
 - Increase in Electricity Charges: The electricity charges have increased in FY 2015-16 over FY 2014-15 due to increase in the asset base and increase in electricity Tariff of MSEDCL (vide order dated June 26, 2015 in Case No. 121 of 2014) has also contributed to the increase in electricity charges. Therefore, MSETCL has sought the increase in electricity charges of Rs 5.97 Crore based on the Audited Accounts.
 - Increase in Professional, Consultancy and Technical Fees: Professional, Consultancy and Technical Fees have increased in FY 2015-16 over FY 2014-15 on account of two studies carried out by MSETCL for improvement initiatives. Details of the same are provided below:
 - In FY 2015-16 expenditure was incurred for payment to M/s. Power Research & Development Consultancy (PRDC) for providing consultancy services for System Improvement & preparation of Road map for implementation of Smart Grid in MSETCL in respect of below activities:
 - a) Automated Fault Analysis System;
 - b) Dynamic Line Rating;

- c) High Tension Low Sag Conductor;
- d) Integrated Volt-Var Control;
- e) Energy Storage;
- f) City Monitoring System;
- g) Renewable Energy Management System;
- Further, a road map for implementation of Wide Area Measurement System (WAMS) in FY 2015-16 was prepared by MSETCL and was carried out by M/s. Power Research & Development Consultancy (PRDC). Accordingly, an increase of Rs. 3.47 Crore based on audited accounts is sought under this head.
- Increase in Purchase related advertisement expenses: A new e-tendering system for R&M works was implemented since December, 2015. During the implementation of e-tendering system certain difficulties were encountered which led to a poor response of the bidders which necessitated re-floating as well as extending the deadlines for a number of tenders which is generally accompanied by intimation of such extension/re-floating through advertisements. This led to increase in the advertisement expenses in FY 2015-16. Therefore, there is an increase of Rs 3.15 Crore in Purchase related advertisement expenses based on Audited Accounts.
- Decrease in IT related expenses / computer stationery: The overall IT related expenses have decreased as compared to the previous year. The change in the expenses is mainly contributed by cost towards SAP-ERP implementation; increased AMC charges; Upgradation / Software for Earthing design; Installation of OS and other applications; Recurring charges for NPLS bandwidth was higher in FY 2014-15. These changes in expenses have led to overall decrease of Rs. 4.29 Crore under this head in FY 2015-16.
- 4.4.3 The A&G expenses for FY 2015-16 as per the Audited Accounts with some adjustments as submitted by MSETCL are shown in the Table below:

Administrative and General Expense	MSETCL Petition
Gross A&G Expenses	234.16
Less: Expenses Capitalised	37.98
Net A&G Expenses	196.18
Less: SLDC A & G Expense	6.36
Net A & G Expense after adjustment for SLDC A & G	189.82
Expense	
Less: RLDC Fees & WRPC charges	-

Table 15: A&G Expenses, as submitted by MSETCL for FY 2015-16 (Rs. Crore)

Administrative and General Expense	MSETCL Petition
Net A&G Expense after adjustment for RLDC Fees &	189.82
WRPC charges	
Prior Period Expense: Administration & Other Expenses	0.92
Net A&G expense after considering administration &	190.74
other expenses	

Commission's Analysis and Ruling

4.4.4 The Commission has examined the component-wise comparison of actual A&G expenses for FY 2015-16 vis-a-vis FY 2014-15 submitted by MSETCL, as shown in the following Table:

 Table 16: Deviation analysis of A&G Expenses for FY 2015-16 (Rs. Crore)

Particulars	FY	FY	Difference
	2014-15	2015-16	
	Actual	Actual	
Rent Rates & Taxes	20.51	21.31	0.80
Insurance	3.63	3.07	(0.57)
Telephone & Postage, etc.	4.45	4.83	0.38
Legal charges & Audit fee	1.12	1.16	0.05
Professional, Consultancy, Technical fee	5.48	8.96	3.47
Conveyance & Travel	7.98	9.19	1.21
Electricity charges	46.95	52.92	5.97
Water charges	5.07	4.53	(0.54)
Security arrangements	46.35	47.92	1.57
Fees & subscription	7.78	7.59	(0.19)
Books & periodicals	0.07	0.05	(0.01)
Computer Stationery / IT and communication	17.11	12.82	(4.29)
expenses			
Printing & Stationery	2.30	2.92	0.62
Advertisements	0.29	0.33	0.04
Purchase Related Advertisement Expenses	5.35	8.50	3.15
License Fee and other related fee	0.11	0.10	(0.01)
Vehicle Running Expenses Truck / Delivery Van	5.94	4.99	(0.95)
Vehicle Hiring Expenses Truck / Delivery Van	14.30	16.09	1.79
Freight On Capital Equipment	0.99	0.05	(0.94)
Miscellaneous Expenses	0.22	0.46	0.24
Office Expenses	9.71	9.23	(0.48)
Other Expenses	16.12	17.13	1.01
Total	221.84	234.16	12.33

- 4.4.5 The Commission notes that there is significant increase in electricity charges, consulting fees and purchase related advertisement expenses, the reasons for which have been provided by MSETCL vide response to data gaps and also re-iterated in its revised Petition. Break up of Miscellaneous Expenses, Office Expenses and Other Expenses under broad heads for FY 2015-16 has also been submitted vide response to data gaps. The Commission has analysed the reasons provided for deciding if the cost deviations have resulted from uncontrollable factors.
- 4.4.6 MSETCL has claimed that the increase in electricity charges is due to increase in asset base and in the electricity Tariff. The Commission concludes that, as a result of the increase in consumption at new asset facilities, the increase in retail Tariffs, etc., the increased expenditure was inevitable. Hence, the Commission has approved it as submitted by MSETCL.
- 4.4.7 The professional, consultancy and technical fees have increased on account of two technical studies commissioned by MSETCL. The Commission accepts that expenses towards technological advancement are required from time to time and approves the same as submitted by MSETCL.
- 4.4.8 The Commission notes that the purchase related advertisement expenses have increased on account of issues pertaining to the e-tendering system which caused inadequate response from vendors. This necessitated re-tendering and timeline extensions for multiple tenders and its intimation through advertisements. Hence, the increase in cost. The Commission also notes that online procurement platforms such as e-tendering are expected to increase the transparency of the process, ensure wider participation and competition, smoothen the procurement process and also reduce the time taken to complete the same. Contrary to that, the operational issues in the new etendering system implemented by MSETCL for R&M activities have resulted in expenditure which could have been avoided under normal circumstances. The Commission expects that these issues would have been appropriately addressed by MSETCL and should not arise in the future. Considering the fact that a new system was being implemented by MSETCL which has a possibility of teething issues, the Commission has considered this increase as a one-time cost impact and approved the same as submitted by MSETCL. Such increases may not be considered by the Commission in future.
- 4.4.9 The IT related expenses / computer stationery expenses were lower in FY 2015-16 as compared to FY 2014-15 and the Commission has approved it as submitted by MSETCL.
- 4.4.10 The Commission has considered capitalised A&G expenses as per Audited Annual Accounts, and the MSLDC related A&G expenses as sought by MSETCL.

- 4.4.11 The rationale for disallowance of prior period expenses has been dealt with at paras.4.3.15 and 4.3.16 of this Order. Accordingly, the Commission has not considered the prior period A&G expenses claimed by MSETCL.
- 4.4.12 Accordingly, the Commission approves the A&G expenses as per the following Table.
 - Table 17: A&G Expenses approved by Commission for FY 2015-16 (Rs. Crore)

Particulars	MTR	Approved in			
	Petition	this Order			
Gross A&G Expenses	234.16	234.16			
Less: Expenses Capitalised	37.98	37.98			
Net A&G Expenses	196.18	196.18			
Less: SLDC A & G Expense	6.36	6.36			
Net A & G Expense after adjustment for	189.82	189.82			
SLDC A & G Expense					
Add: Prior Period A&G Expenses	0.92	-			
Total A&G expense	190.74	189.82			
* RLDC Fees and WRPC charges are shown separately and hence not					
included in A&G expenses					

4.4.13 The Commission approves Net A&G Expenses of Rs. 189.82 Crore on Truing-up of ARR for FY 2015-16.

4.5 Repairs and Maintenance Expenses

MSETCL's Submission

- 4.5.1 The R&M expenses for FY 2015-16 are arrived at after taking into consideration the actual R&M expenses as per the audited accounts, expenses capitalized and MSLDC R&M expenses.
- 4.5.2 The major reason for decrease in R&M expenses in FY 2015-16 as compared to FY 2014-15 are as follows:
 - The number of failure of EHV power transformers in FY 2015-16 has reduced to 8 as compared to 22 in FY 2014-15.
 - MSETCL has framed a policy for Life Extension schemes since February 2016 which includes replacement of old switchyard equipment. These old equipment have been replaced by new equipment which has resulted in reduction in the failure of various switchyard equipment and thereby reduced the R&M expenditure. Total Equipment failure in No. (EHV, CTs, PTs, CBs) in FY 2014-15 was 92, in FY 2015-16 it was 74 and in FY 2016-17 it was 52.

- MSETCL has implemented e-tendering system for R&M works since December, 2015. As there were certain difficulties in implementing the etendering system, it has led to reduction in R&M works during FY 2015-16.
- 4.5.3 The Prior Period R&M expense claimed in the present Petition comprises of 'Operating Expenses of Previous years', 'Material related expenses of previous years' and 'Other income related to prior period' of R&M nature. These expenses were finalised in FY 2015-16 and therefore, not claimed in the ARR of the previous years.
- 4.5.4 The R&M expenses for FY 2015-16 as submitted by MSETCL are shown in the following Table.

Repair and Maintenance Expense	MSETCL	
	Petition	
Gross R&M Expenses	187.62	
Less: Expenses Capitalised	0.50	
Net R&M Expenses	187.12	
Less: SLDC R&M Expense	1.03	
Net R&M Expense after adjustment for SLDC R&M Expense	186.09	
Prior Period R&M expenses	28.71	
Net R&M Expenses (after adjustments)	214.80	

Table 18: R&M Expenses, as submitted by MSETCL for FY 2015-16 (Rs. Crore)

Commission's Analysis and Ruling

4.5.5 The Commission has examined the component-wise comparison of actual R&M expenses for FY 2015-16 vis-a-vis FY 2014-15 submitted by MSETCL, as shown in the following Table:

Particulars	FY 2014-15	FY 2015-16	Difference
	Actual	Actual	
Plant and Machinery	216.00	115.34	(29.93)
Building Expense		4.59	
Civil Expense		34.69	
Hydraulic Work expense		0.19	
Line expense		21.17	
Others		10.10	
Vehicles	0.80	0.59	(0.21)
Furniture and Fixtures	0.05	0.03	(0.02)
Office Equipment	1.21	0.93	(0.28)

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	FY	FY	Difference
	2014-15	2015-16	
	Actual	Actual	
Gross R&M Expenses	218.07	187.62	(30.45)

- 4.5.6 The Commission has examined the submission of MSETCL in respect of R&M expenses including reasons for reduction in these expenses as compared to the previous year, along with the Audited Annual Accounts and has considered the amount booked in the Audited Annual Accounts for the approval of R&M expenses.
- 4.5.7 The Commission has considered capitalised R&M expenses as per the Audited Annual Accounts, and the MSLDC related R&M expenses as per MSETCL's submissions.
- 4.5.8 Vide response to data gaps, MSETCL submitted a break up of prior period R&M expenses as follows:
 - Other Income related to prior period Rs. 9.15 Crore
 - Operating Expenses of Previous years Rs. 18.56 Crore
 - Material related expenses of previous years Rs. 1.00 Crore
- 4.5.9 On further query regarding the reason for prior period income being added to expenses, MSETCL clarified that MSETCL has created a general ledger for "Other income related to prior period" for booking of prior period income as well as adjustment/withdrawal of prior period income. At the end of the year, net balance of the booking and adjustment/withdrawal of prior period income is reflected in the annual accounts. Therefore, due to the netting off effect of the booking and adjustments, this general ledger reflects a debit balance and therefore is considered as an expense.
- 4.5.10 The rationale for disallowance of prior period expenses has been dealt with in the MTR Order, and at paras. 4.3.15 and 4.3.16 of the present Order. Accordingly, the Commission has disallowed the prior period R&M expenses claimed by MSETCL.
- 4.5.11 The Commission also notes the submission of MSETCL regarding the reduction in the R&M works during FY 2015-16 on account of certain difficulties in implementing the e-tendering system which led to reduction in R&M expenses.
- 4.5.12 The R&M expenses approved by the Commission are as per the following Table.

Particulars	MTR Petition	Approved in this Order
Gross R&M Expenses	187.62	187.62
Less: Expenses Capitalised	0.50	0.50
Net R&M Expenses	187.12	187.12
Less: SLDC R&M Expense	1.03	1.03
Net R&M Expense after adjustment for	186.09	186.09
SLDC R&M Expense		
Add: Prior Period R&M expenses	28.71	-
Net R&M Expenses	214.80	186.09

Table 20: R&M Expenses approved by Commission for FY 2015-16 (Rs. Crore)

4.5.13 The Commission approves net R&M Expenses of Rs. 186.09 Crore on Truing-up of ARR for FY 2015-16.

4.6 Normative and Actual O&M Expenses

Commission's Analysis and Ruling

- 4.6.1 The Commission has considered the closing balance of actual Bays and Ckt. Km. approved in the MYT Order in Case No. 31 of 2016 for FY 2014-15 as the opening balance for FY 2015-16. The Bays of past years on which capitalisation was previously disallowed but approved in this Order are also included in the opening balance. The Bays and Ckt. Km. added during the year are also considered.
- 4.6.2 The Commission approves the normative O&M expenses based on the actual Bays and Ckt. Km. in FY 2015-16 and the actual O&M expenses for FY 2015-16 as discussed in earlier paragraphs, as per the following Table.

Table 21: Normative and Actual O&M Expenses for FY 2015-16 approved byCommission (Rs. Crore)

Particulars	MYT MTR Order Petition		Approved in this Order		
Normative O&M Expenses	1,399.10	1,845.71	1,585.51		
Actual O&M Expenses					
Employee Expense		909.32	896.28		
A&G Expense		190.74	189.82		
R&M Expense		214.80	186.09		
Total Actual O&M Expenses	1,399.10	1,314.87	1,272.20		

4.6.3 The Commission approves the normative O&M Expenses of Rs. 1,585.51 Crore and actual O&M Expenses of Rs. 1,272.20 Crore prior to sharing of efficiency gain/loss, on Truing-up of ARR for FY 2015-16.

4.7 Capital Expenditure and Capitalisation

MSETCL's Submission

4.7.1 Capitalisation of Rs. 1,638.72 Crore was approved in the Order in Case No. 31 of 2016 considering only those schemes which were approved in-principle. In the present Petition a Capitalisation of Rs. 2,128.86 Crore is claimed based on actual capitalization during the year. The break-up of the capitalisation is as shown in the following table:

Table 22: Break up of Capitalisation for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Sr. No.	Particulars	Amount
1	Capitalisation as per Books	2,150.70
2	Less: SLDC Capitalisation	2.12
3	Less: Capitalisation claimed under Out Right Contribution (ORC)	19.69
4	Less: Capitalisation claimed under TSP	0.03
	Total Capitalisation claimed in the revised petition	2,128.86

4.7.2 The capitalization has been higher than that approved previously by the Commission due to rigorous efforts and follow-up by MSETCL in resolving issues such as RoW and related court cases, requirement of forest clearances in some schemes, delay in land acquisition, delay in availability of police protection, permissions required from Railways, availability of outages etc.

Table 23: Capitalisation	for FY 2015-16, as submitted by	y MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
DPR	1,534.24	1,982.86
Non-DPR	104.48	146.00
Total	1,638.72	2,128.86

Commission's Analysis and Ruling

4.7.3 The Commission notes MSETCL's submission regarding the higher actual capitalisation during FY 2015-16 on account of the dedicated efforts and follow-up by MSETCL. Considering that execution of the capex schemes is phased across multiple years of the Control Period, the Commission has analysed the capital expenditure and capitalisation details submitted for all years from FY 2015-16 to FY 2019-20 in this Section and discussed its approach for approval of the capitalisation across these years.

- 4.7.4 The Commission is, however, concerned about the overall delay in execution and completion of approved capital expenditure schemes. This not only affects the development of the Transmission network, but also means that MSETCL's revenue recovery gets delayed and in turn affects its financial position to undertake further network development. Alternatively, such delay causes escalation in project costs and MSETCL recovers higher revenue (eventually from end consumers) than actually required during the year. The Commission had observed a similar position in its previous two Orders.
- 4.7.5 Despite directives to undertake need-based Capex after assigning due priority to schemes in its successive Orders, MSETCL continues to project Capex as a shelf of schemes/projects without any prioritisation. Thus, schemes approved long back and which may have lost their relevance continue to be executed well beyond their approved timelines, and schemes which are actually necessary get deferred for want of administrative approvals, regulatory approval, funds, manpower and so on.
- 4.7.6 According to MSETCL, the main reasons for delay were RoW issues and related Court cases, requirement of Forest clearances in some schemes, delay in land acquisition, delay in availability of police protection, permissions required from Railways, availability of outages, etc. These issues are not peculiar or unique to MSETCL but are common to most Transmission projects. The performance shows that MSETCL failed to consider them adequately at the planning stage and while estimating time-lines and work sequences. In its Annual Performance Review (APR) Order for MSETCL for FY 2007-08 (Case No. 70 of 2007), the Commission had observed as follows:

"However, the Commission would like to reiterate that in-principle approval of the scheme does not absolve the senior management of MSETCL of their responsibility to prioritise various schemes and undertake cost benefit analysis and financial analysis to validate the commercial prudence of each scheme. MSETCL should ensure that the projected benefits actually accrue for the benefit of the stakeholders. It would be essential to monitor progress of each scheme as well as track expenditure and benefits accrued as per the scheme."

- 4.7.7 The Commission reiterates these observations. The Commission is concerned regarding the time taken for the schemes, as against the phasing initially envisaged by MSETCL and/or approved by the Commission. As evident from the historical performance of MSETCL in this respect, it is observed that there are hardly any schemes which are completed within the stipulated timelines on account of repetitive reasons such RoW issues, clearances, permissions, contractual issues etc. which are not unique to it.
- 4.7.8 While approving the capitalisation for DPR schemes, the Commission has considered the schemes submitted by MSETCL on actuals for FY 2015-16 and FY 2016-17 and projections for FY 2017-18 to FY 2019-20, in respect of which in-principle approval

has been granted or whose DPRs have been submitted for in-principle approval. The DPR schemes approved were scrutinized based on the Cost Benefit Analysis (CBA) reports and most recent half yearly progress report and the current status of these schemes was also verified by the Commission.

- The Commission observes that most of the schemes approved prior to FY 2012-13 but 4.7.9 were still under execution have now been short-closed by MSETCL. Capitalisation against such schemes is claimed based on put to use of assets in respective years. Some of these schemes are still work in progress and capitalisation is claimed based on put to use of assets in respective years. The Commission has scrutinized the details of assets put to use for each of these schemes and allowed capitalisation against them based on the respective year of capitalisation. Cost over-run was observed in some of these schemes for which detailed justification was sought from MSETCL, which was submitted. One of the reasons for cost over-run is the time lag between the approval and actual execution of the scheme on account of which the approval of the capital expenditure scheme was done at historical rates whereas the actual cost incurred during execution was much higher at current rates. Also, despite repeated directives issued while approving capex schemes in-principle, MSETCL has not updated its Standard of Rates (SoR) (generally referred to as cost data) as per the prevailing market rates. Other reasons for delay and cost over-run include RoW issues and related Court cases, price and quantity variation, requirement of Forest clearances in some schemes, delay in land acquisition, delay in availability of police protection, permissions required from Railways, availability of outages, etc. The Commission has approved capitalisation against such schemes after detailed scrutiny and prudence check, in the year of actual put to use / expected put to use of assets. However, MSETCL should first seek a fresh prior approval for such schemes in case any further capitalisation is to be claimed in future.
- 4.7.10 The Commission has adopted a similar approach for approval of the capitalisation for the rest of the DPR schemes approved in FY 2012-13 and thereafter. Further, MSETCL should submit a detailed Cost-Benefit Analysis report along with details of assets put to use including the date/year, in the prescribed formats, for each scheme against which it seeks capitalisation in future. Moreover, details of time and cost overrun, if any, including break-up of the cost over-run on account of reasons such as RoW compensation, IDC, price variation, quantity variation among others should also be submitted.
- 4.7.11 There are 12 schemes for which DPR is yet to be submitted for in-principle approval. The Regulation 23.5 of the MYT Regulations, 2015 specifies as under:

"23.5 The Commission may approve, for each year of the Control Period, an additional amount equivalent to 20% of the total capital expenditure approved for that year, towards planned or unplanned capital expenditure that is yet to be approved by the Commission."

- 4.7.12 In accordance with the aforementioned provision of the MYT Regulations, 2015, the Commission has provisionally approved the capitalisation claimed against these schemes which is within the 20% ceiling specified in the Regulations, subject to True up. **MSETCL** is directed to submit the DPR seeking in-principle approval for these schemes within three months from this Order, complete in all respects such as demand from the Distribution Licensee, technical study, consent of the STU, analysis of least cost alternatives and rates as per the latest SoR etc. In case MSETCL fails to do so, the capitalisation approved against such schemes shall be entirely disallowed in the subsequent Tariff proceedings, along with holding cost.
- 4.7.13 There are 5 DPR schemes with cost over-run on account of delay, cost escalation due to price and quantity variation, RoW issues, outages as well as change in scope; for which no justification has been submitted despite being sought repeatedly. The Commission has disallowed any cost over-run over and above the approved DPR cost of these schemes. No capitalisation towards these schemes shall be allowed in future.
- 4.7.14 There are 36 DPR schemes for which capitalisation is claimed against the cost of land and civil work; site survey; partial Transmission Line and Bay work; Sub-station is back charged (charged at lower voltage as source as the Transmission Line work in not complete); line is charged but Sub-station work is incomplete; in-principle approval is not sought etc. Further, it is observed that while MSETCL claims part capitalisation against the assets however, these are not being put to use mainly on account of following reasons:
 - a) The work related to the Sub-station is completed but the source Transmission Line is not complete and hence there is no utilisation of the Sub-stations assets;
 - b) The work related to the Sub-station and source Transmission Line is completed however, down steam EHV network of MSETCL to evacuate power is not completed;
 - c) The Sub-station, source Transmission Line and down steam EHV network of MSETCL to evacuate power are completed however, the network of the Distribution Licensee is not ready. Hence, the entire EHV assets gets stranded;
 - d) HV and EHV Bays are commissioned but not in use;
- 4.7.15 As no assets have been put to use for these schemes, the Commission has disallowed the capitalisation towards these schemes. From the foregoing discussion, it is evident that there are combined capex schemes involving both Sub-stations and associated Transmission Lines where the Sub-station work gets completed however, the work related to the associated Transmission Line remains pending on account of reasons such as ROW issues and related court cases, permission from authorities, contractual issues etc. In such cases MSETCL claims capatilsation stating that the work pertaining to the Sub-station is completed however, the entire asset does not get utilised. Therefore, in order prevent such

instances of non-utilisation of assets and also optimise costs, MSETCL shall execute the scope of work pertaining to both the Transmission Line and Substation simultaneously giving a higher priority to Transmission Line related works as in most cases the delay in observed in the execution of the Transmission Lines.

- 4.7.16 Out of these 36 schemes, there are 18 schemes (for example 220 kV Narsi Substation, 220 kV Warud Sub-station, 220 kV Lonand MIDC Sub-station; 110 kV Miraj Jaisingpur Line) for which the Commission had approved part capitalisation up to FY 2014-15 in its previous Orders. Since no assets have been put to use against these schemes, the Commission has disallowed the cumulative capitalisation of Rs. 125.74 Crore approved up to FY 2014-15 over and above the capitalisation claimed for future years (FY 2015-16 to FY 2019-20) for these schemes. This disallowed capitalisation has been adjusted in the opening GFA of FY 2015-16 for the purpose of computation of the ARR components.
- 4.7.17 The previously disallowed capitalisation allowed now for the years from FY 2015-16 to FY 2019-20 is included in the addition to capitalisation during the respective year.
- 4.7.18 The non-DPR capitalisation for each year from FY 2015-16 to FY 2019-20 is considered as submitted by MSETCL, subject to a cap of 20% of the DPR capitalisation approved in this Order.
- 4.7.19 The list of capex schemes against which capitalisation is claimed by MSETCL (for the period from FY 2015-16 to FY 2019-20) and is considered by the Commission for analysis and approval is at Appendix 5.
- 4.7.20 The following Table summarizes the capitalisation approved/disallowed for FY 2014-15 to FY 2019-20.

Table 24: Summary of Capitalisation for FY 2015-16 to FY 2019-20, considered byCommission (Rs. Crore)

Particulars	No.of Schemes	Cummulative capitalisation	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20
		up to FY 2014-15					
DPR Capitalisation Allowed	584	-	1,843.35	1,521.82	1,140.35	920.04	1,360.00
Non-DPR Capitalisation Allowed	400	-	146.00	120.44	79.76	184.01	34.80
DPR Capitalisation Dis-allowed	36	125.74	111.34	38.03	(0.91)	100.01	35.90

4.7.21 In the MYT Order in Case No. 31 of 2016 the Commission had noted that it is not satisfied with the quality of capitalisation related information being provided by MSETCL in its Tariff Petitions, which reflects poorly on the manner in which the information is being maintained by MSETCL itself. Incomplete or inaccurate information affects the decision-making process and the Commission is constrained to

base its decisions on the information available. The Commission re-iterates these observations and directs MSETCL to submit complete accurate and complete information

4.7.22 The capitalisation for FY 2015-16 approved by the Commission after prudence check is given in the Table below:

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
DPR Capitalisation		1,982.86	1,843.35
Non-DPR Capitalisation		146.00	146.00
Add: Past period disallowed capitalisation		-	115.21
approved in FY 2015-16*			
Total Approved Capitalisation	1,638.72	2,128.86	2,104.55

* Part of the disallowed capitalisation claimed by MSETCL in the past years (FY 2010-11 to FY 2014-15) are considered for approval in FY 2015-16 by the Commission.

4.7.23 The Commission approves capitalisation of Rs. 2,104.55 Crore on Truing-up of ARR for FY 2015-16. This includes capitalisation of Rs. 115.21 Crore approved now towards previously disallowed schemes for past years (FY 2010-11 to FY 2014-15), in FY 2015-16.

4.8 Depreciation

MSETCL's Submission

- 4.8.1 Opening GFA for FY 2015-16 is considered as the closing GFA for FY 2014-15 approved by the Commission; after considering the impact of disallowed capitalization for FY 2010-11 to 2014-15. Depreciation has been calculated considering the average depreciation rate of 3.28% (i.e. computed average rate considering the depreciation and average GFA during the year as per the audited accounts). The impact of FRP Scheme on Fixed Assets as per annual accounts for FY 2015-16 is considered to derive the depreciation rate of 3.28%.
- 4.8.2 The Government of Maharashtra has notified "Maharashtra Electricity Reforms Transfer (First Amendment) Scheme 2016" on 31 March, 2016. As per the scheme, the fixed assets taken over by the Government of Maharashtra shall be considered to have been transferred to the MSETCL at the market value prevailing on 5 June, 2005. Pursuant to this notification, Net Fixed Assets of MSETCL increased by an amount Rs. 6,288.93 Crore (i.e. difference between old net fixed asset value and new net fixed asset value) in FY 2015-16.
- 4.8.3 Further, Regulation 27.9 of MYT Regulations, 2011 provides for passing on the benefit of revaluation of assets of a Transmission Licensee to its long term Transmission System Users in case such revaluation does not affect the Tariff

adversely. In view of FRP scheme, assets of MSETCL have been adjusted. However, in line with Regulation 27.9 and directive of the Holding company vide letter no. MSEBHCL/FRP/269 dated 7 July 2015, MSETCL has reduced the amount of Rs.6,288.93 Crore from the closing net fixed asset and corresponding depreciation of Rs.135.74 Crore for FY 2015-16 while computing ARR. The asset class-wise break up of depreciation computed on account of FRP scheme is provided as under:

Table 26: Depreciation on account of FRP scheme for FY 2015-16, as submitted byMSETCL (Rs. Crore)

Sr. No.	Particulars	Depreciation
1	Sub-Station	38.23
2	Buildings	37.92
3	Hydraulic works	0.00
4	Civil Works	1.41
5	Lines	95.43
6	Vehicles	0.01
7	Furniture & fixtures	0.00
8	Computer/printer/UPS/peripherals	0.01
9	Fax Machine	0.36
10	Water Cooler	0.04
11	Air conditioner	0.02
12	Amortisation of Leasehold land Assets	0.00
13	Total	173.44
14	Less: FRP Depreciation on Scrap Assets	37.70
15	Net FRP Depreciation	135.74

^{4.8.4} The summary of the Depreciation as approved in the MYT Order in Case No. 31 of 2016 and as claimed in this Petition is shown in the Table below:

Table 27: Depreciation for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Depreciation	845.39	716.12

Commission's Analysis and Ruling

4.8.5 The Commission has noted MSETCL's submissions, and has approved the depreciation in line with the MYT Regulations, 2011. The Commission has considered the closing GFA of FY 2014-15 approved in the Order in Case No. 31 of 2016 and included the disallowed capitalisation for past years as approved in the present Order to compute the opening GFA for FY 2015-16. Further, as discussed in

para 4.7.14 of this Order, the Commission has also deducted from the opening balance of GFA for FY 2015-16, the cumulative capitalisation upto FY 2014-15 (upto Order in Case No. 31 of 2016) allowed for schemes which are disallowed now on account of them being scrapped or no legitimate capitalisation shown against these schemes in future and for which such part capitalisation was allowed previously. Accordingly, the opening GFA has been considered as Rs. 20,561.31 Crore. Further, addition in assets in FY 2015-16 is considered as per the capitalisation approved at para. 4.7 of this Order.

- 4.8.6 The notes to the Audited Annual Accounts mention that the straight line method is adopted and the asset class wise depreciation rates in the MYT Regulations, 2011 are considered for computation of depreciation charged during the year. The Commission has verified that the impact of FRP is excluded while computing the rate of depreciation. Accordingly, the Commission has computed the applicable depreciation rate by considering the depreciation amount as a percentage of the average of actual opening GFA and closing GFA as per the Audited Annual Accounts for FY 2015-16 excluding the depreciation pertaining to FRP, which amounts to 3.28% for FY 2015-16, for the calculation of depreciation.
- 4.8.7 The Commission considered retirement of assets during the year to arrive at the closing balance of assets. Accordingly, depreciation for FY 2015-16 has been computed on the average of opening and closing GFA approved by the Commission and the approved depreciation rate as mentioned earlier.
- 4.8.8 Accordingly, the Commission approves the Depreciation for FY 2015-16 as summarised in the following Table:

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Opening GFA	20,594.29	20,817.65	20,468.55
Add: Additional Capitalization during the	1,638.72	2,128.86	2,104.55
year			
Less: Retirement/Adjustments	50.00	38.72	38.72
Closing GFA	22,183.02	22,907.79	22,534.38
Average Depreciation Rate	3.95%	3.28%	3.28%
Total Depreciation	845.39	716.12	704.29

Table 28: Depreciation for FY 2015-16 approved by Commission (Rs. Crore)

4.8.9 The Commission approves Depreciation of Rs. 704.29 Crore on Truing-up of ARR for FY 2015-16.

4.9 Interest on Long Term Loans

MSETCL's Submission

- 4.9.1 The Interest on Long Term Loans is computed in accordance with the Regulation 33 of MYT Regulations, 2011. The closing balance of loan of FY 2014-15, calculated after taking into account the impact of capitalization claimed against the disallowed capitalization for FY 2010-11 to 2014-15 is considered as the opening balance of loan for FY 2015-16. A debt-equity ratio of 79.96:20.04 is considered for funding the capitalisation.
- 4.9.2 With regard to retirement of assets, in the books of accounts, assets not in use include 10% residual value of assets for which 90% depreciation has already been charged. Hence, the same has been considered as retirement of assets during the year. Further, where assets have been considered for scrapping, the same will also be considered for retirement. The total retirement of assets for FY 2015-16 has been computed as Rs. 38.72 Crore.
- 4.9.3 MSETCL has considered repayment of normative loan equal to the depreciation. The actual interest rate considered is higher than the rate approved in the Order in Case No. 31 of 2016 for the FY 2015-16. This interest rate is applied to the average of opening balance and closing balance of loan for the year to compute the interest expense on the normative long term loans as approved in the Order in Case No. 31 of 2016.
- 4.9.4 Long term loans are availed from major Financial Institutions (FI), viz., PFC, JICA, REC, IFC, Bank of Baroda, Union Bank of India, Bank of Maharashtra and Oriental Bank of Commerce to fund the capital expenditure.

Table 29: Interest on Long Term Loans for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Interest on Long Term Loans	755.49	831.48

Commission's Analysis and Ruling

4.9.5 The Commission has considered the opening balance of loan for FY 2015-16 as the closing balance for FY 2014-15 approved in the Order in Case No. 31 of 2016, after adjusting for the previously disallowed capitalisation for past years as approved in this Order as well as the cumulative capitalisation upto FY 2014-15 disallowed in this Order. The Commission observes that MSETCL has funded different capital expenditure schemes at different debt-equity ratios of 80:20, 75:25 and 70:30 and accordingly computed a weighted average debt-equity ratio of 79.96:20.04. The

Commission has computed the debt-equity ratio for FY 2015-16 at 79.89:20.11 for approved capitalisation of FY 2015-16.

- 4.9.6 The Commission has considered the repayment of normative loan equal to the depreciation approved for FY 2015-16 in this Order.
- 4.9.7 The reduction of loans due to retirement of assets is considered as submitted by MSETCL. The Commission has examined the computation for weighted average interest rate for the loan portfolio at the beginning of the FY 2015-16 as well as the documentary evidence substantiating the same, and considered this rate for computing the interest expenses for FY 2015-16.
- 4.9.8 The Commission in the MYT Order in Case No. 31 of 2016, had ruled the following:

"5.9.11 In view of the foregoing, the Commission has considered the rate of 10.75% for computing the interest expenses in the provisional Truing-up for FY 2015-16. This rate is applied to the average of opening and closing balance of loans for the year to compute the interest expense on normative Long Term Loans. If the actual weighted average interest rate for FY 2015-16 is higher, the Commission shall consider it at the time of Truing-up for FY 2015-16 to determine interest expenses, but without any carrying cost."

- 4.9.9 In view of the above, the Commission has computed the interest expenses on the approved normative loan for FY 2015-16 by applying the interest rate of 10.75% approved in the MYT Order as well as the weighted average interest rate considered in the present Order at 11.15%. The difference of these two values of interest expenses is excluded while computing the carrying/holding cost. The computation of carrying/holding cost is dealt with in subsequent Sections of this Order.
- 4.9.10 The interest expenses for FY 2015-16 approved by the Commission are as shown in the Table below.

Table 30: Interest on Long Term Loans for FY 2015-16 approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Opening Balance of Net Normative Loan	6,815.00	6,979.72	6,714.41
Retirement of Assets	50.00	38.72	38.72
Debt % considered for reduction in loan due to	80.00%	80.00%	80.00%
retirement/adjustment of assets			
Less: Reduction of Normative Loan due to retirement	40.00	30.98	30.98
or replacement of assets			
Total Capitalization	1,638.72	2,128.86	2,104.55
Debt Component	80.00%	79.96%	79.89%
Addition of Normative Loan due to capitalisation	1,310.98	1,702.13	1,681.40
Repayment of Normative loan during the year	845.39	716.12	704.29
Closing Balance of Net Normative Loan	7,240.59	7,934.76	7,660.54
Weighted average Rate of Interest on actual Loans	10.75%	11.15%	11.15%
(%)			
Interest Expenses	755.49	831.48	801.40

4.9.11 The Commission approves Interest on Long Term Loans as Rs. 801.40 Crore on Truing-up of ARR for FY 2015-16.

4.10 Other Interest and Finance Charges

MSETCL's Submission

4.10.1 The finance charges in FY 2015-16 have increased mainly on account of charges towards prepayment of expensive loans. The table below provides the other interest and finance charges for FY 2015-16:

Table 31: Other Interest and Financing Charges for FY 2015-16, as submitted byMSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Other Interest and Financing Charges	5.46	6.80

Commission's Analysis and Ruling

4.10.2 The Commission has examined the submissions of MSETCL and reasons for higher other interest and financing charges. On query, MSETCL submitted the break-up of the financing charges as well as its reconciliation with the Audited Accounts. It has incurred Stamp Duty of Rs. 0.10 Crore, Service Fee of Rs. 0.01 Crore, bank charges of Rs. 0.07 Crore, pre-payment charges of loan of Rs. 6.43 Crore and Guarantee charges of Rs. 0.18 Crore. Interest on Late Payment of ST amounting to Rs. 2.67 Crore has not been claimed by MSETCL. Accordingly, the Commission approves the same as shown in the Table below.

Table 32: Other Interest and Financing Charges for FY 2015-16 approved byCommission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Other interest and finance	5.46	6.80	6.80

4.10.3 The Commission approves the actual Interest and Finance Charges of Rs. 6.80 Crore on Truing-up of ARR for FY 2015-16, as claimed by MSETCL.

4.11 Interest on Working Capital

MSETCL's Submission

- 4.11.1 As per Regulation 35 of MYT Regulations, 2011, IoWC has been computed based on the norms and the actual audited elements of ARR like O&M expenses, book value of stores, materials and supplies and revenue from Transmission Charges.
- 4.11.2 The MYT Regulations, 2011 stipulate that the rate of IoWC as the State Bank of India Advance Rate (SBAR) as on the date on which the application for determination of Tariff is made. MSETCL had filed the MYT Petition in Case No. 31 of 2016 for Truing up of FY 2014-15, Provisional Truing up of FY 2015-16 and the ARR for 3^{rd} control period FY 2016-17 to FY 2019-20 on 10 February, 2016. The applicable rate of interest on working capital prevalent on this date was 10.8% (SBI Base Rate 9.3% + 1.5%).
- 4.11.3 MSETCL has utilized its internal accruals for funding its working capital requirements and for the Capex plan. Due to effective management of cash flows, it was able to prudently meet its working capital requirement in FY 2015-16. The actual interest paid on working capital loan is Rs 1.55 Crore. The details of the IoWC claimed by MSETCL are shown in the Table below:

Table 33: Interest on Working Capital for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	Revised Normative	MSETCL Petition
Interest on Working Capital	58.06	57.06	1.55

Commission's Analysis and Ruling

4.11.4 The Commission scrutinized the submissions of MSETCL with regard to the computation of IoWC and estimated normative working capital requirement in accordance with Regulation 35.2 as follows:

- Revised normative O&M expenses based on the actual Bays and Ckt. Km. as approved in this Order for FY 2015-16 are considered for calculating working capital requirements as against the actual values considered by MSETCL.
- The book value of store, materials and supplies is as submitted by MSETCL.
- Revenue from Transmission Charges from the TSUs for April to May, 2015 is considered at Rs. 922.66 Crore (at Rs. 461.33 Crore per month as per the InSTS Tariff Order in Case No. 123 of 2014) and for June, 2015 to March, 2016 at Rs. 2,236.60 Crore (at Rs. 223.66 Crore as per InSTS Tariff Order in Case No. 57 of 2015) i.e. a total revenue of Rs. 3,159.26 Crore.
- 4.11.5 The rate of interest of 10.80% is considered for computing the normative IoWC in line with the stand taken in the Order in Case No. 31 of 2016 and MSETCL submissions. The relevant extract of the Order is reproduced below:

"5.11.5 The Commission had sought justification for taking 10.80% for IoWC. MSETCL submitted that its short term loans are at rate of around 9.65% to 9.70%, and hence a rate of 10.80% is considered for IoWC. MSETCL sought that, in case the IoWC is actually higher, the shortfall may be allowed at the time of Truing-up. Considering the lower interest rate for funding working capital requirements, the Commission has considered the IoWC for FY 2015-16 at 10.80%, as submitted by MSETCL. The Commission shall consider the actual IoWC at the time of Truing-up, but no carrying cost would be allowed."

- 4.11.6 The Commission verified the Annual Accounts and observed that there is no security deposit from TSUs.
- 4.11.7 The IoWC approved by the Commission for FY 2015-16 is as given in the Table below.

Table 34: Interest on Working Capital for FY 2015-16 approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Operations and Maintenance Expenses for one month	116.59	109.57	132.13
One-twelfth of the sum of book value of stores,	26.11	23.87	23.87
materials and supplies at end of each month			
One and a half months of the expected revenue from	394.91	394.91	394.91
transmission charges at the prevailing tariffs			
Less: Amount of Security Deposit from Transmission	-	-	-
Total Working Capital Requirement	537.61	528.35	550.91
Interest Rate (%)	10.80%	10.80%	10.80%
Normative Interest on Working Capital	58.06	57.06	59.50

4.11.8 The Commission approves the normative IoWC of Rs. 59.50 Crore on Truing-up of ARR for FY 2015-16. The net entitlement of MSETCL towards the IoWC after sharing of efficiency gains/losses is set out subsequently.

4.12 Return on Equity

MSETCL's Submission

4.12.1 MSETCL has worked out the Return on Equity for FY 2015-16 in accordance with the Regulation 32 of the MYT Regulations, 2011. Regulatory equity at the beginning of FY 2015-16 has been considered the same as the closing balance of regulatory equity of FY 2014-15 calculated after taking into account the impact of capitalization claimed against the disallowed capitalization for FY 2010-11 to 2014-15. Further, 20% of the capitalization during the year has been considered for addition in equity. Reduction in equity due to retirement/adjustments of assets in FY 2015-16 has also been considered as 20% of actual retirement of assets/adjustments based on the methodology adopted in the Order in Case No. 207 of 2014. Further, in accordance with the MYT Regulations, 2011, a rate of 15.5% has been considered for computing RoE.

Table 35: Return on Equity for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Return on Equity	802.77	817.53

Commission's Analysis and Ruling

- 4.12.2 As per the principle for RoE computation specified in the MYT Regulations, 2011, the Commission considered the closing balance of regulatory equity for FY 2014-15, after adjusting for the impact of previously disallowed capitalisation for past years as approved in this Order as well as the cumulative capitalisation upto FY 2014-15 disallowed in this Order, as the opening balance of equity for FY 2015-16. Addition in equity due to approved capitalisation in FY 2015-16 is considered at the weighted average debt-equity ratio of 79.89-20.11 computed by the Commission.
- 4.12.3 The Commission has considered retirement of assets as submitted by MSETCL based on the Audited Annual Accounts for FY 2015-16, and reduced equity to the extent of 20% of the value of retired assets. It has computed RoE at the rate of 15.5% as per the Regulations. RoE as approved by the Commission for FY 2015-16 is set out in the Table below.

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Regulatory Equity at the beginning of the year	5,020.27	5,064.94	4,995.12
Capitalisation during the year	1,638.72	2,128.86	2,104.55
Consumer Contribution and Grants used during the	-	-	-
year for Capitalisation			
Equity portion of capitalisation during the year	327.74	426.72	423.15
Reduction in Equity Capital on account of retirement /	10.00	7.76	7.74
replacement of assets			
Regulatory Equity at the end of the year	5,338.01	5,483.90	5,410.53
RoE %	15.50%	15.50%	15.50%
Return on Regulatory Equity at the beginning of the	778.14	785.07	774.24
year			
Return on Equity portion of capitalisation during the	24.63	32.47	32.19
year			
Total Return on Regulatory Equity	802.77	817.53	806.44

Table 36: Return on Equity for FY 2015-16 approved by Commission (Rs. Crore)

4.12.4 The Commission approves Return on Equity of Rs. 806.44 Crore on Truing-up of ARR for FY 2015-16.

4.13 Income Tax

MSETCL's Submission

- 4.13.1 In accordance with MYT Regulations, 2011, MSETCL has claimed Income Tax as a part of ARR for FY 2015-16. The Current Tax has been paid as per the provisions of the Income Tax Act, 1961 in respect of Taxable Income for the year, after considering permissible tax exemption, reduction/disallowance.
- 4.13.2 While estimating the Income Tax for FY 2015-16, MSETCL had considered income and expenses for the year and estimated an amount of Rs.26.62 Crore. As against such estimation the actual Income Tax works out to Rs.23.09 Crore.

Table 37: Income Tax for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Income Tax	26.62	23.09

Commission's Analysis and Ruling

- 4.13.3 The Commission has examined the Income Tax Return as well as the Income Tax computation submitted by MSETCL.
- 4.13.4 The MYT Regulations, 2011 stipulate that Income Tax on account of efficiency gains and incentive shall not be a pass through:

"34.1 The Commission, in its MYT Order, shall provisionally approve Income Tax payable for each year of the Control Period, if any, based on the actual income tax paid on permissible return as allowed by the Commission relating to the electricity business regulated by the Commission, as per latest Audited Accounts available for the applicant, subject to prudence check:

Provided that no Income Tax shall be considered on the amount of efficiency gains and incentive earned by the Generating Companies, Transmission Licensees and Distribution Licensees."

- 4.13.5 Income Tax is also payable by MSETCL on the efficiency gains and incentive earned during the year. Hence, to give effect to the Regulations, the efficiency gains and incentive recoverable by MSETCL for FY 2015-16 as approved in this Order have been deducted from the taxable income submitted by MSETCL in its Petition. The Commission has re-computed the Income Tax payable considering the revised taxable income and keeping all the other elements unchanged as per MSETCL's submission, which amounts to Nil Income Tax liability.
- 4.13.6 Considering the above, the Commission approves Income Tax expenses as shown in the Table below.

Table 38: Income Tax for FY 2015-16 approved by Commission (Rs. Crore)

Particulars	MYT MTR Order Petition		Approved in this Order	
Income Tax	26.62	23.09	-	

4.13.7 The Commission approves Nil Income Tax on Truing-up of ARR for FY 2015-16.

4.14 Contribution towards Contingency Reserves

MSETCL's Submission

4.14.1 Contribution towards Contingency Reserves is made in accordance with Regulation 36 of MYT Regulations, 2011 and within the prescribed limits (between 0.25 % and 0.50 % of the original cost of fixed assets annually), and is invested in the approved class of securities authorized under the Indian Trusts Act, 1882. Actual contribution to Contingency Reserves as per the Audited Accounts is as per the following Table.

Table 39: Contribution to Contingency Reserves for FY 2015-16, as submitted byMSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Contribution to Contingency Reserves	51.49	52.04

Commission's Analysis and Ruling

4.14.2 The MYT Regulations, 2011 provide that:

"36.1 Where the Transmission Licensee or Distribution Licensee has made an appropriation to the Contingency Reserve, a sum not less than 0.25 per cent and not more than 0.5 per cent of the original cost of fixed assets shall be allowed annually towards such appropriation in the calculation of aggregate revenue requirement...."

4.14.3 The Commission verified that the actual contribution to Contingency Reserves as per the Audited Annual Accounts are within the range of 0.25% - 0.50% of the approved opening GFA of FY 2015-16, computed by deducting the approved amount of disallowed capitalisation. This adjustment is in line with the stand of the Commission in its MYT Order in Case No. 39 of 2013:

"4.15.6 The Commission opined that since disallowed capitalisation for previous years has been approved in the present Order, MSETCL wouldn't have set aside its contribution towards contingency reserves for such capitalisation in FY 2011-12. Hence, the Commission computed contribution to contingency reserves at 0.25% of approved opening GFA for FY 2011-12 less approved disallowed capitalisation of past years."

- 4.14.4 The Commission has verified that the accumulated Contingency Reserves of MSETCL do not exceed 5% of the original cost of fixed assets as stipulated in the MYT Regulations, 2011. The addition to the Contingency Reserves during the year FY 2015-16 is verified from the Audited Annual Accounts as well as the documentary evidence submitted vide response to data gaps. Further, vide response to data gaps, MSETCL has clarified that the entitlement for Contingency Reserves for FY 2015-16 in the Petition is 0.25% of the opening GFA which amounts to Rs. 52.07 Crore. Whereas in the Audited Annual Accounts, the Contingency Reserves of Rs. 52.01 Crore includes Rs. 51.49 Crore for FY 2015-16 and Rs. 0.52 Crore as adjustment for Truing up of ARR FY 2014-15 as per Order in Case No. 31 of 2016.
- 4.14.5 Considering that the contribution to Contingency Reserves for FY 2014-15 on True up has already been allowed in the MYT Order in Case No. 31 of 2016, the Commission has only considered the actual amount of Contingency Reserves pertaining to FY 2015-16 at Rs. 51.49 Crore as per the Audited Annual Accounts for FY 2015-16, in this Order. The contribution to Contingency Reserves approved by the Commission is shown in the Table below.

Table 40: Contribution towards Contingency Reserves for FY 2015-16 approved by
Commission (Rs. Crore)

Particulars	MYT Orde r	MTR Petition	Approved in this Order
Contribution to Contingency Reserves	51.49	52.04	51.49

4.14.6 The Commission approves Rs. 51.49 Crore as contribution towards Contingency Reserves on Truing-up of ARR for FY 2015-16.

4.15 Revenue from Transmission Charges, Income from Wheeling Charges and Point of Connection (PoC) Charges

MSETCL's Submission

- 4.15.1 The revenue from Transmission Tariff allowed per month for April, 2015 to March, 2016 was Rs. 3,159.26 Crore (as per InSTS Order in Case No. 123 of 2014 dated 14 August, 2014 for the period April, 2015 to May, 2015 and InSTS Order in Case No. 57 of 2015 dated 26 June, 2015 for the period June, 2015 to March, 2016), and the same has been considered for Truing-up.
- 4.15.2 MSETCL also earned revenue for wheeling Central Sector power to Goa and Dadra and Nagar Haveli and other Generators, as shown in the Audited Accounts which is considered for Truing up.
- 4.15.3 MSETCL has also earned revenue from Point of Connection (PoC) charges for Inter-State Transmission System (ISTS) lines of Rs. 59.13 Crore as per receipts for FY 2015-16.
- 4.15.4 MSETCL has shown the following revenue from Transmission Tariff and other sources:

Table 41: Revenue from Transmission Charges and other sources for FY 2015-16, assubmitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Revenue from Transmission Tariff	-	3,159.26
Revenue from Wheeling Charges from Goa and Dadra & Nagar Haveli and other sources	61.91	47.82
PoC Charges for Inter-State Lines (ISTS)	59.10	59.13

Commission's Analysis and Ruling

4.15.5 The Commission has considered the approved revenue as per the InSTS Tariff Orders, which is also set out by MSETCL in its Petition, as the revenue recovered from Transmission charges; and income from Dadra & Nagar Haveli Wheeling Charges and PoC Charges for wheeling Inter-State power to Goa, as verified from the Audited Annual Accounts. Accordingly, the revenue from Transmission Charges and other sources as approved by the Commission is given in the Table below:

Table 42: Revenue from Transmission Charges and other sources for FY 2015-16approved by Commission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Revenue from Transmission Charges	-	3,159.26	3,159.26
Income from Wheeling Charges from Goa, Dadra and Nagar Haveli and other sources	61.91	47.82	47.82
Income from PoC charges for Inter-State lines	59.10	59.13	59.13

4.15.6 The Commission approves revenue from Transmission Tariff as Rs. 3,159.26 Crore, income from Goa, Dadra & Nagar Haveli and other sources towards Wheeling Charges as Rs. 47.82 Crore, and PoC Charges for Inter-State Transmission Lines as Rs. 59.13 Crore on Truing-up of ARR for FY 2015-16.

4.16 Non-Tariff Income

MSETCL's Submission

- 4.16.1 Non-Tariff Income has increased in FY 2015-16 over FY 2014-15 primarily on account of increase in revenue from short term Open Access Charges and income from supervisory services. It includes the interest earned on Contingency Reserves and other investment, revenue from Open Access charges, excess provision written back, other miscellaneous income, etc. Apart from these, MSETCL has also considered profit and revenue from sale of scrap, as in the MYT / previous MTR Order. Accordingly, only the revenue from sale of scrap of items which are of revenue expenditure in nature has been considered as Non-Tariff Income.
- 4.16.2 On the analogy of the subsequent MYT Regulations, 2015, MSETCL has not included the DPC recoverable from the TSUs in the Non-Tariff Income for FY 2015-16. Further, MSETCL has stated that it has neither realised nor included this DPC in its books of accounts.

Particulars	MYT Order	MSETCL Petition
Non-Tariff Income	1,016.80	210.04

Table 43: Non-Tariff Income	for FY 2015-16	as submitted b	v MSETCL (Rs.	Crore)
	101 1 1 2013-10	, as submitted b		CIUC

Commission's Analysis and Ruling

4.16.3 The DPC payable by MSEDCL was not waived by the Commission vide the Order in Case No. 151 of 2014 and the same was payable by the Transmission System User i.e. MSEDCL and recoverable by Transmission Licensees. The Commission has set out the reasons for inclusion of the Delayed Payment Charges (DPC) as a part of Non-

Tariff Income for FY 2015-16 in its previous Orders in Case No. 207 of 2014 (MTR Order) as well as Case No. 31 of 2016 (MYT Order).

- 4.16.4 Moreover, the APTEL in the judgments vide Appeal Nos. 244 of 2015 in the matter of Tata Power Co. Generation, Appeal No. 246 of 2015 of Tata Power Co. Transmission, Appeal Nos. 250 of 2015 and 242 of 2016 of Jaigad Power Transco Ltd. and Review Appeal Nos 7 and 8 of 2017 in the matter of Jaigad Power Transco Ltd. has upheld the stand of the Commission in this matter. Moreover, the issue is also under the consideration of the Supreme Court however, no stay on the Commission's Order has been granted. Accordingly, the Commission retains its stand of including DPC as a part of Non-Tariff Income for FY 2015-16.
- 4.16.5 Further, since the Truing up of FY 2015-16 is governed by the provisions of MYT Regulations, 2011, the provisions of MYT Regulations, 2015 cannot be applied to FY 2015-16, as has been claimed by MSETCL.
- 4.16.6 The Commission verified the details of the Non-Tariff Income submitted by MSETCL from the Audited Annual Accounts and also considered the DPC for FY 2015-16 approved in the Order in Case No. 31 of 2016 at Rs. 855 Crore, and accordingly approves the Non-Tariff Income including the DPC for FY 2015-16 as per the following Table.

Table 44: Non-Tariff Income for FY 2015-16 approved by Commission (Rs. Crore)

Particulars	MYT MTR Order Petition		Approved in this Order
Non-Tariff Income	1,016.80	210.04	1,065.04

4.16.7 The Commission approves Rs. 1,065.04 Crore as Non-Tariff Income on Truingup of ARR for FY 2015-16.

4.17 Incentive on Transmission System Availability

MSETCL's Submission

4.17.1 MSETCL has sought incentive on Transmission System Availability as per the following Table.

Table 45: Incentive on Transmission System Availability for FY 2015-16, as submittedby MSETCL (Rs. Crore)

Particulars	Incentive
HVAC	51.44
HVDC	14.35
Total	65.79

Commission's Analysis and Ruling

4.17.2 The Commission verified the actual Availability from the MSLDC certification. Accordingly, the Commission has allowed incentive on Transmission System Availability as follows.

Table 46: Incentive on Transmission System Availability for FY 2015-16 approved by
Commission (Rs. Crore)

Particulars	Actual Availability (%)	Target Availability (%)	ARR of FY 2015-16	% Allocation of ARR	ARR Allocation	Incentive
HVAC	99.72%	98.00%	2,472,18	85.04%	2,102.34	40.59
HVDC	94.56%	92.00%	2,472.10	14.96%	369.84	11.32
Total						51.91

4.17.3 The Commission approves the incentive of Rs. 51.91 Crore for higher Transmission System Availability on Truing-up of ARR for FY 2015-16.

4.18 Sharing of gains/losses

MSETCL's Submission

O&M Expenses

4.18.1 The summary of the sharing of efficiency gain/(loss) for O&M expenses based on the controllable and uncontrollable parameters is as shown in the following Table.

Table 47: Sharing of efficiency gain/(loss) for O&M Expenses for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	Normative for FY 2015-16	Audited/ Actual for FY 2015- 16	Entitleme nt as per Regulation /Order	Efficiency Gain/(Loss)	Efficiency Gain/(Loss) shared with TSUs	Net Entitleme nt of MSETCL
O&M Expenses	1,845.71	1,314.87	1,845.71	530.84	176.95	1,668.76

Interest on Working Capital

4.18.2 In accordance with the MYT Regulations, 2011, efficiency gain on IoWC needs to be computed if the actual IoWC is less than the normative. The difference between the IoWC computed based on norms and the actual IoWC has been considered as the efficiency gain. The computation of efficiency gain is given below:

Table 48: Sharing of efficiency gain/(loss) for Interest on Working Capital for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	Normative for FY 2015-16	Audited/ Actual for FY 2015- 16	Entitleme nt as per Regulation /Order	Efficiency Gain/(Loss)	Efficiency Gain/(Loss) shared with TSUs	Net Entitleme nt of MSETCL
Interest on Working Capital	57.06	1.55	57.06	55.51	18.50	38.56

Commission's Analysis and Ruling

- 4.18.3 The Commission has re-computed the normative O&M expenses based on the actual number of Bays and Ckt. Km. for FY 2015-16. The O&M expenses have been considered as controllable expenses. The efficiency gain/loss on the difference between the revised normative and the actual approved O&M expenses is computed as per the MYT Regulations, 2011. 1/3rd of the efficiency gain is shared with the TSUs, and the remaining is added to the net entitlement of O&M expenses of MSETCL, in line with the Regulations.
- 4.18.4 In the case of IoWC, the efficiency gain / loss is computed as the difference between the actual IoWC incurred in FY 2015-16 and the normative IoWC approved by the Commission after considering other elements of expenditure and revenue as approved after Truing-up.
- 4.18.5 1/3rd of the efficiency gain on this account is shared with the TSUs, and the remaining is added to the net entitlement of IoWC of MSETCL, in line with the Regulations.
- 4.18.6 The summary of sharing of efficiency gains/(losses) as approved by the Commission is shown in the Table below.

Table 49: Sharing of efficiency gain/(loss) due to variation in O&M Expenses and Interest on Working Capital for FY 2015-16 approved by Commission (Rs. Crore)

Particulars	Normative for FY 2015- 16	Audited/ Actual for FY 2015-16	Entitlement as per Regulation/ Order	Efficiency Gain/(Loss)	Efficiency Gain/(Loss) shared with TSUs	Net Entitlement of MSETCL
Operation & Maintenance Expenses	1,585.51	1,272.20	1,585.51	313.31	104.44	1,481.08
Interest on Working Capital	59.50	1.55	59.50	57.95	19.32	40.18

4.18.7 The Commission approves the net entitlement against O&M Expenses at Rs. 1,481.08 Crore, and against Interest on Working Capital at Rs. 40.18 Crore, after sharing of efficiency gains, on Truing-up of ARR for FY 2015-16.

4.19 Summary of Truing-up of ARR for FY 2015-16

MSETCL's Submission

4.19.1 The summary of the True up of ARR for FY 2015-16, as submitted by MSETCL is shown in the following Table:

Table 50: Summary of Truing-up of ARR for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	Order in	Normative	FY 2015-16	Net
	Case No. 31		Audited	Entitlement
	of 2016		(Actual)	after
				sharing of
	1 200 10	1 0 4 5 5 1	1 21 4 05	gain/(Loss)
Operation & Maintenance	1,399.10	1,845.71	1,314.87	1,668.76
Expenses				
Depreciation Expenses	845.39	-	716.12	716.12
Interest on Loan Capital	755.49	-	831.48	831.48
Other Interest and Finance Charges	5.46	-	6.80	6.80
Interest on Working Capital	58.06	57.06	1.55	38.56
Income Tax	26.62	-	23.09	23.09
Contribution to contingency	51.49	-	52.04	52.04
reserves				
Total Revenue Expenditure	3,141.61	-	2,945.96	3,336.86
Add: Return on Equity Capital	802.77	-	817.53	817.53
Aggregate Revenue Requirement	3,944.38	-	3,763.49	4,154.39
Less: Non-Tariff Income	1,016.80	-	210.04	210.04
Less: Income from Wheeling	61.91	-	47.82	47.82
Charges from Goa and Dadra and				
Nagar Haveli and other sources				
Less: Income from PoC charges for	59.10	-	59.13	59.13
Inter-State lines				
Aggregate Revenue Requirement	2,806.57	-	3,446.50	3,837.40
from Transmission				
Add: Incentive on higher	-	-	51.44	51.44
Transmission System Availability				
of HVAC System				
Add: Incentive on higher	-	-	14.35	14.35
Transmission System Availability				
of HVDC System				
Revenue from Transmission	-	-	3,159.26	3,159.26
Tariff				
Revenue Gap/(Surplus) for current	-	-	-	743.93
year				

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	Order in Case No. 31 of 2016	Normative	FY 2015-16 Audited (Actual)	Net Entitlement after sharing of gain/(Loss)
Revenue Gap/(Surplus) till	-	-	-	(1,337.78)
previous year				
Cumulative Revenue	-	-	-	(593.85)
Gap/(Surplus) till the year				

Commission's Analysis and Ruling

4.19.2 The summary of the net ARR and efficiency gains, as approved by the Commission for FY 2015-16, is shown in the following Table:

Table 51: Summary of Truing-up of ARR for FY 2015-16 approved by Commission (Rs. Crore)

Particulars	MYT Order	Normative	Actual	Net Entitlement after sharing of gain/(Loss)
Operation & Maintenance Expenses	1,399.10	1,585.51	1,272.20	1,481.08
Depreciation Expenses	845.39	-	704.29	704.29
Interest on Loan Capital	755.49	-	801.40	801.40
Other Interest and Finance Charges	5.46	-	6.80	6.80
Interest on Working Capital	58.06	59.50	1.55	40.18
Income Tax	26.62	-	-	-
Contribution to contingency reserves	51.49	-	51.49	51.49
Total Revenue Expenditure	3,141.61	-	2,837.73	3,085.24
Add: Return on Equity Capital	802.77	-	806.44	806.44
Aggregate Revenue Requirement	3,944.38	-	3,644.17	3,891.68
Less: Non Tariff Income	1,016.80	-	1,065.04	1,065.04
Less: Income from Wheeling Charges from Goa and Dadra	61.91	-	47.82	47.82
and Nagar Haveli and other sources				
Less: Income from PoC charges for Inter-State lines	59.10	-	59.13	59.13
Aggregate Revenue Requirement from Transmission	2,806.57	-	2,472.18	2,719.68
Add: Incentive on higher Transmission System Availability	-	-	51.91	51.91
Revenue from Transmission Tariff	-	-	3,159.26	3,159.26
Revenue Gap/(Surplus) for current year	-	-	-	(387.66)
Revenue Gap/(Surplus) till previous year	-	-	-	(985.09)
Cumulative Revenue Gap/(Surplus) till the year	-	-	-	(1,372.75)

4.19.3 The detailed analysis underlying the Commission's approval of individual ARR elements on Truing up of ARR for FY 2015-16 is already set out above, however, the variation in the ARR sought by the MSETCL and that approved by the Commission in this Order is mainly on account of disallowance of prior period O&M expenses and lower approval of capitalisation which impacts the depreciation, Interest on Long Term Loans, RoE, IoWC and Availability Incentive approved by the Commission. Further, the Commission has computed the Income Tax liability of MSETCL excluding the efficiency gains and Availability Incentive which is nil in the case of

FY 2015-16. Moreover, the Commission has maintained the stand of including the DPC as a part of Non-Tariff Income in FY 2015-16, as per the MYT Order in Case No. 31 of 2016.

- 4.19.4 The Revenue Surplus till the previous year considered by MSETCL in the summary Table submitted, as approved in the Order in Case No. 31 of 2016 is Rs. 1,337.79 Crore which includes the Revenue Surplus of Rs. 352.71 Crore on provisional Truing up of FY 2015-16. Since, the final Revenue Gap/Surplus is computed on Truing up for FY 2015-16 in this Order, separately, retaining this provisional Revenue Surplus in the computation of cumulative Gap/Surplus would amount to double counting of the same and hence it is excluded from the computation of cumulative Gap/Surplus.
- 4.19.5 The Commission approves a cumulative Revenue Surplus of Rs. 1,372.75 Crore on Truing-up of ARR for FY 2015-16, considering the efficiency gain and incentive for the year, to be recovered in the ARR for FY 2018-19. The holding cost on the Revenue Surplus for FY 2015-16 after Truing-up is dealt with in subsequent Sections of this Order.

5 TRUING-UP OF ARR FOR FY 2016-17

5.1 Background

- 5.1.1 MSETCL has sought Truing-up of ARR for FY 2016-17 considering actual expenditure and revenue as per the Audited Accounts and in accordance with the MYT Regulations, 2015. It has submitted reasons for variations in the actual expenses for FY 2016-17 as compared to those approved in the MYT Order in Case No. 31 of 2016.
- 5.1.2 MSETCL has adopted the INd-AS accounting standards FY 2016-17 onwards. However, Truing up of the ARR is sought considering the values as per the existing IGAAP accounting standards.
- 5.1.3 The analysis underlying the Commission's approval is set out below.

5.2 Operation & Maintenance Expenses

5.2.1 MSETCL has computed the O&M expenses in accordance with Regulation 58 of the MYT Regulations, 2015 which comprises Employee expenses, Administration and General (A&G) expenses and Repairs and Maintenance (R&M) expenses. The summary of O&M expenses is as given below:

Table 52: O&M Expenses for FY 2016-17, as submitted by MSETCL (Rs. Crore)

O&M Expenses	MYT	Normative	MSETCL
	Order		Petition
Employee Expenses			977.11
A&G Expenses			254.21
R&M Expenses			142.89
Total Operation & Maintenance			
Expenses (Net of capitalisation)	1,469.05	2,030.45	1,374.21

- 5.2.2 The actual O&M expenses incurred are less than the normative. The reasons for major deviations in actual O&M expenses incurred in FY 2016-17 as compared to FY 2015-16 have been submitted.
- 5.2.3 MSETCL's submissions on each of these expenditure heads, and the Commission's analysis are detailed below.

5.3 Employee Expenses

MSETCL's Submission

5.3.1 The Employee expenses for FY 2016-17 are arrived at after taking into consideration the actual expenses as per the Audited Accounts, expense capitalized and SLDC Employee Expense.

- 5.3.2 The Earned Leave Encashment which is dependent on actual claim of employees has increased by Rs. 22.67 Crore in FY 2016-17 as compared to FY 2015-16.
- 5.3.3 Dearness Allowance (DA) has increased in FY 2016-17 over FY 2015-16 by Rs. 11.70 Crore on account of regular upward revision in the rate of DA which in turn has resulted in increase in salaries of staff. DA is a component of salary and is computed on the basic salary of employees. The weighted average DA rate for FY 2016-17 was 131.25% as against the weighted average DA rate of 119% applicable during FY 2015-16 and 105.92% during FY 2014-15. MSETCL has submitted the applicable DA rates for FY 2010-11 to FY 2016-17 in its Petition.
- 5.3.4 Staff Welfare Expenses have increased owing to consideration of Medi-claim policy amounting to Rs. 12.20 Crore being included in the Staff Welfare Expenses instead of Other Allowance. The break-up of Staff Welfare Expenses is as shown in the following table:

Particular	Amount
Medical Expenses	19.85
Canteen Expenses	0.28
Education Expenses	0.01
Uniform and Liveries Expenses	0.70
Recreation Expenses	0.05
Other Welfare Expenses	1.06
Insurance Premium Payable under LIC	0.93
Group Team Assurance	
Board's Contribution towards MSEB	0.49
Employee Development Welfare Trust	
Total	23.37

Table 53: Break up of Staff Welfare Expenses for FY 2016-17, as submitted byMSETCL (Rs. Crore)

- 5.3.5 Other allowances have increased by Rs. 40.23 Crore in FY 2016-17 as compared to FY 2015-16 on account of the following reasons:
 - i. Medical Allowances Medical Allowance has reduced by Rs. 12.20 Crore as the impact of Mediclaim policy has been included under Staff Welfare Expenses.
 - ii. Contributory Provident Fund MSETCL contributes to Contributory Provident Fund in case of shortfall in Fair Value of planned assets and an amount of Rs.19.43 Crore has been provided for the same.

- iii. Leave Encashment Based on the actuarial valuation, MSETCL has considered an increase in provision of leave encashment to the tune of Rs. 27.57 Crore.
- 5.3.6 The employee expenses for FY 2016-17 as submitted by MSETCL are shown in the Table below:

Table 54: Employee Expenses for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Employee Expenses	MSETCL
	Petition
Gross Employee Expenses	1,067.49
Less: Expenses Capitalised	76.83
Net Employee Expenses	990.66
Less: SLDC Employee Expense	13.55
Net Employee Expense after adjustment for SLDC Employee	977.11
Expense	
Add: Prior Period Employee Expense	-
Net Employee Expense after adjustment for SLDC and other	977.11
Expense	

Commission's Analysis and Ruling

5.3.7 The Commission has examined the component-wise comparison of actual Employee expenses for FY 2016-17 vis-a-vis FY 2015-16 submitted by MSETCL, as shown in the following Table:

Table 55: Deviation analysis of Employee Expenses for FY 2016-17 (Rs. Crore)

Particulars	FY	FY	Difference
	2015-16	2016-17	
	Actual	Actual	
Basic Salary	284.14	273.72	(10.42)
Dearness Allowance (DA)	333.66	345.36	11.70
House Rent Allowance	32.55	31.58	(0.98)
Earned Leave Encashment	7.87	30.54	22.67
Other Allowances	118.07	158.31	40.23
Medical Reimbursement	1.60	0.58	(1.02)
Overtime Payment	30.70	33.08	2.38
Bonus/Ex-Gratia Payments	12.12	13.63	1.51
Staff welfare expenses	4.80	23.37	18.57
Payment under Workmen's	0.18	-	(0.18)
Compensation Act			
Provident Fund Contribution	82.41	73.89	(8.52)

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	FY	FY	Difference
	2015-16	2016-17	
	Actual	Actual	
Pension Payments	0.08	0.06	(0.01)
Gratuity Payment	84.26	83.37	(0.89)
Leave Encashment on Retirement	3.64	-	(3.64)
Gross Employee Expenses	996.09	1,067.49	71.40

- 5.3.8 The Commission has examined the reasons for increase in DA, Earned Leave Encashment, Other Allowances, Staff Welfare Expenses etc. as well as the documentary evidence such as DA rate circulars, Audited Annual Accounts, Actuarial Valuation Report etc.
- 5.3.9 The Commission vide data gaps sought the break-up of Staff Welfare Expenses and Other Allowances. Vide response to data gaps, MSETCL submitted the break-up of these expense heads, which have been scrutinized. On further query, regarding Employee Development Welfare Trust sub-head under Staff Welfare Expenses, MSETCL clarified that as per Circular No. 22639 dated 19/05/1973, the money in the Employee Development Welfare Trust may be utilized to pay for the expenditure on (i) construction of staff clubs, recreation, halls and Labour Welfare centers, (ii) equipment such as furniture, lockers, radios, record-players, water coolers and indoor and outdoor games, sports materials, library books grant of scholarships and prizes to school children (iii) provision of health and welfare services, maternity centers, furniture and equipment of canteens for employees (iv) medicines, (v) community and social education of employees such as literacy classes, etc. and also to give relief to the employees in distress. MSETCL further clarified that no interest income is earned from this Trust. On further query regarding the Electricity charge allowance sub-head under the Other Allowances head, MSETCL clarified that it is paid to the rank of additional Executive Engineer as per Administrative Circular no. 408 dated 05/07/2014. Furthermore, electricity supervisory allowance is paid to the officers equivalent to the rank of Executive Engineer and above as per administrative Circular no. 409 dated 05/07/2014.
- 5.3.10 The Commission accepts the DA as an uncontrollable factor since it is declared from time to time by the Government, and the Commission approves the DA as per MSETCL's submission.
- 5.3.11 Similarly, the Earned Leave Encashment is dependent on the actual claims by employees and hence the Commission approves it as per MSETCL's submission.
- 5.3.12 MSETCL has submitted that Staff Welfare Expenses have increased on account of the Mediclaim policy premium being included in the Staff Welfare Expenses instead of Other Allowance. The Commission accepts the same and approves the Staff Welfare Expenses as per MSETCL's submission.

- 5.3.13 The contribution to Contributory Provident Fund in case of shortfall in Fair Value of planned assets is an uncontrollable expense and the provision for Leave Encashment is based on actuarial valuation which is again uncontrollable and the Commission approves the same as submitted by MSETCL.
- 5.3.14 The Commission has considered capitalised Employee expenses as per Audited Annual Accounts, and the MSLDC related Employee expenses as sought by MSETCL.
- 5.3.15 The employee expenses approved by the Commission for FY 2016-17 are as shown in the Table below:

Particulars	MTR Petition	Approved in this Order
Gross Employee Expenses	1,067.49	1,067.49
Less: Expenses Capitalised	76.83	76.83
Net Employee Expenses	990.66	990.66
Less: SLDC Employee Expense	13.55	13.55
Net Employee Expense after adjustment	977.11	977.11
for SLDC Employee Expense		
Add: Prior Period Employee Expense	-	-
Total Employee Expense	977.11	977.11

Table 56: Employee Expenses for FY 2016-17 approved by Commission (Rs. Crore)

5.3.16 The Commission approves net Employee Expenses of Rs. 977.11 Crore on Truing-up of ARR for FY 2016-17.

5.4 Administrative and General Expenses

MSETCL's Submission

- 5.4.1 MSETCL's assets base has been increasing since the past few years which directly impact various heads of A&G Expenses like electricity charges, vehicle running and hiring expenses, security expenses and other A&G expenses. The major reason for increase in A&G Expenses in FY 2016-17 as compared to FY 2015-16, is on account of higher outsourced personnel salary, charges for security arrangements and sundry debtors written off.
- 5.4.2 The increase in A&G expenses is mainly on account of following reasons:
 - Increase in Charges for Security arrangements: The security charges have increased by Rs. 9.48 Crore owing to increase in number of Sub-stations, increase in Dearness Allowance of the security personnel and increase in security arrangements like CCTV cameras, fencing, etc.

- *Increase in salary of outsourced personnel*: The salary of outsourced personnel has increased by Rs. 4.56 Crore in FY 2016-17 over FY 2015-16 due to increase in Dearness Allowance of these personnel.
- Decrease in Professional, Consultancy and Technical Fees: Professional, Consultancy and Technical Fees have increased in FY 2015-16 over FY 2014-15 on account of two studies carried out by MSETCL for improvement initiatives, as elaborated in earlier Sections. However, in FY 2016-17 these expenses have returned to normal levels and hence the decrease as compared to FY 2015-16.
- Decrease in IT related expenses / computer stationery: The decrease in IT related expenses / Computer Stationery is predominantly owing to the following reasons:
- AMC for 11 Modules of SAP-ERP was carried out by IBM in FY 2015-16 whereas AMC for only 5 Modules of SAP-ERP was covered in FY 2016-17.
- Recurring expenditure on Data Centre Co-location, Hosting and Managed IT services reduced after migrating from M/s IBM to M/s ESDS datacentre.
- Separate Internet Bandwidth and P2P links expenditure was incurred in FY 2015-16, whereas the same was covered in the work order of M/s ESDS in FY 2016-17.
- After completion of IBM support contract of 4 years and handing over of ERP support documents to MSETCL, the balance 10% AMC amount was paid in FY 2015-16.
- One time payment towards SSL certificate was made in FY 2015-16.
- AMC and DBA Services for Central Purchase Agency (CPA) e-tendering was discontinued in FY 2016-17.
- 5.4.3 The A&G expenses for FY 2016-17 as per the Audited Accounts as submitted by MSETCL are shown in the Table below:

Administrative and General Expense	MSETCL Petition
Gross A&G Expenses	273.40
Less: Expenses Capitalised	13.97
Net A&G Expenses	259.43
Less: SLDC A & G Expense	5.22
Net A & G Expense after adjustment for SLDC A & G Expense	254.21

Administrative and General Expense	MSETCL Petition
Less: RLDC Fees & WRPC charges	-
Net A&G Expense after adjustment for RLDC Fees &	254.21
WRPC charges	
Prior Period Expense: Administration & Other Expenses	-
Net A&G expense after considering administration &	254.21
other expenses	

Commission's Analysis and Ruling

5.4.4 The Commission has examined the component-wise comparison of actual A&G expenses for FY 2016-17 vis-a-vis FY 2015-16 submitted by MSETCL, as shown in the following Table:

Table 58: Deviation analysis of A&G Expenses for FY 2016-17 (Rs. Crore)

Particulars	FY	FY	Difference
	2015-16	2016-17	
	Actual	Actual	
Rent Rates & Taxes	21.31	23.48	2.17
Insurance	3.07	3.41	0.34
Telephone & Postage, etc.	4.83	4.88	0.04
Legal charges & Audit fee	1.16	1.54	0.38
Professional, Consultancy, Technical fee	8.96	3.98	(4.98)
Conveyance & Travel	9.19	9.59	0.40
Electricity charges	52.92	51.71	(1.21)
Water charges	4.53	5.43	0.90
Security arrangements	47.92	57.40	9.48
Fees & subscription	7.59	7.25	(0.34)
Books & periodicals	0.05	0.11	0.05
Computer Stationery / IT and communication expenses	12.82	3.46	(9.36)
Printing & Stationery	2.92	2.75	(0.17)
Advertisements	0.33	0.55	0.21
Purchase Related Advertisement Expenses	8.50	10.07	1.57
License Fee and other related fee	0.10	0.09	(0.01)
Vehicle Running Expenses Truck / Delivery Van	4.99	5.10	0.11
Vehicle Hiring Expenses Truck / Delivery Van	16.09	18.50	2.41
Freight On Capital Equipment	0.05	0.04	(0.01)
Miscellaneous Expenses	0.46	2.93	2.47
Office Expenses	9.23	11.34	2.11
Other Expenses	17.13	49.82	32.69
Total	234.16	273.41	39.24

- 5.4.5 The Commission notes that there is significant increase in security expenses and outsourced personnel salary whereas a decrease in consultancy fees and IT related expenses, the reasons for which have been provided by MSETCL vide response to data gaps and also re-iterated in its revised Petition. The Commission has analysed the reasons provided for deciding if the cost deviations have resulted from uncontrollable factors.
- 5.4.6 MSETCL has claimed that the increase in the security charges have increased owing to increase in number of substations, increase in Dearness Allowance of the security personnel and increase in security arrangements like CCTV cameras, fencing, etc. The Commission accepts that this increased expenditure was inevitable and hence, has approved it as submitted by MSETCL.
- 5.4.7 In response to a query, MSETCL submitted the break-up of Other Expenses under broad heads viz. Sundry debit Balance written off, outsourced Personnel salary, expenditure on meetings/conferences, commission on sale of scrap among others. Further, MSETCL also submitted that the salary of outsourced personnel has increased due to increase in Dearness Allowance of these personnel. The Commission observes that increase in Other Expenses as compared to the previous year are on account of aforementioned elements and accepts the reasons submitted and approves this expense as submitted by MSETCL.
- 5.4.8 The IT related expenses / computer stationery expenses as well as the technical and consultancy fees were lower in FY 2016-17 as compared to FY 2015-16 and the Commission has approved these as submitted by MSETCL.
- 5.4.9 The Commission observed that MSETCL has included expenses towards Corporate Social Responsibility (CSR) amounting to Rs. 0.80 Crore in the A&G expenses for FY 2016-17. The Commission has disallowed the CSR expenses claimed in FY 2016-17, in line with the stand taken in the MYT Order of Maharashtra Eastern Grid Power Transmission Co. Ltd. (MEGPTCL) in Case No. 66 of 2014. The relevant extract of the said Order is reproduced below:

3.12.2 As regards contribution towards Corporate Social Responsibility (CSR), the Commission is of the view that if the company or the shareholders of the company wish to contribute/donate towards charitable causes, the same should be contributed from return earned out of the business, rather than passing on such costs to the consumers. The Commission also points out that the Companies Act, 2013 also contains sections exclusively dealing with the aspects related to Corporate Social Responsibility. It has been prescribed that certain part (at least 2%) of the average net profit of the last three preceding years has to be spent on CSR activities every year. Accordingly, the Companies Act also envisages that the expenditure towards CSR has to be funded through the returns earned by the company.

3.12.3 The Commission's view in the matter has been upheld by the Hon'ble Appellate Tribunal for Electricity in its Order in the matter of Appeal No. 104, 105 and 106 of 2012 dated 28 November, 2013. The relevant part of the Order is reproduced below for reference:

3.12.4 Thus, the Commission is of the view that these costs are towards the Petitioner's Corporate Social Responsibility and are not necessary for the functioning of any Utility. Accordingly, these expenses should not be passed on to the transmission system users who are beneficiaries of the InSTS as they are not benefiting from the same and thus, these expenses should be borne by the Petitioner. The Petitioner may incur such expenses from the returns earned out of the business."

- 5.4.10 The Commission has considered capitalised A&G expenses as per Audited Annual Accounts, and the MSLDC related A&G expenses as sought by MSETCL.
- 5.4.11 Accordingly, the Commission approves the A&G expenses as per the following Table.

Particulars	MTR Petition	Approved in this Order
Gross A&G Expenses	273.41	272.60
Less: Expenses Capitalised	13.97	13.97
Net A&G Expenses	259.43	258.63
Less: SLDC A & G Expense	5.22	5.22
Net A & G Expense after adjustment for SLDC A & G Expense	254.21	253.41
Add: Prior Period A&G Expenses	-	-
Total A&G expense	254.21	253.41

Table 59: A&G Expenses for FY 2016-17 approved by Commission (Rs. Crore)

5.4.12 The Commission approves net A&G Expenses of Rs. 253.41 Crore on Truing-up of ARR for FY 2016-17.

5.5 Repairs and Maintenance Expenses

MSETCL's Submission

- 5.5.1 The R&M expenses for FY 2016-17 are arrived at after taking into consideration the actual R&M expenses as per the Audited Accounts, expenses capitalized and MSLDC R&M expenses.
- 5.5.2 The major reason for decrease in R&M expenses in FY 2016-17 as compared to FY 2015-16 are as follows:
 - MSETCL has framed a policy for Life Extension schemes since February 2016 which includes replacement of old switchyard equipment. These old equipment have been replaced by new equipment which has resulted in reduction in the failure of various switchyard equipment and thereby reduced the R&M expenditure. Total Equipment failure in No. (EHV, CTs, PTs, CBs) in FY 2014-15 was 92, in FY 2015-16 it was 74 and in FY 2016-17 it was 52.
 - MSETCL has implemented e-tendering system for R&M works since December, 2015. As there were certain difficulties in implementing the e-tendering system, it has led to reduction in R&M works during FY 2016-17.
- 5.5.3 The R&M expenses for FY 2016-17 as submitted by MSETCL are shown in the following Table.

Repair and Maintenance Expense	MSETCL
	Petition
Gross R&M Expenses	145.31
Less: Expenses Capitalised	1.25
Net R&M Expenses	144.06
Less: SLDC R&M Expense	1.17
Net R&M Expense after adjustment for SLDC R&M Expense	142.89
Prior Period R&M expenses	-
Net R&M Expenses (after adjustments)	142.89

Table 60: R&M Expenses for FY 2016-17 as submitted by MSETCL (Rs. Crore)

Commission's Analysis and Ruling

5.5.4 The Commission has examined the component-wise comparison of actual R&M expenses for FY 2016-17 vis-a-vis FY 2015-16 submitted by MSETCL, as shown in the following Table:

Particulars	FY	FY	Difference
	2015-16	2016-17	
	Actual	Actual	
Plant and Machinery	115.34	91.76	(23.58)
Building Expense	4.59	4.05	(0.54)
Civil Expense	34.69	33.51	(1.18)
Hydraulic Work expense	0.19	0.04	(0.15)
Line expense	21.17	12.53	(8.64)
Others	10.10	1.95	(8.15)
Vehicles	0.59	0.55	(0.04)
Furniture and Fixtures	0.03	0.05	0.02
Office Equipment	0.93	0.88	(0.05)
Gross R&M Expenses	187.62	145.32	(42.31)

Table 61: Deviation analysis of R&M Expenses for FY 2016-17 (Rs. Crore)

- 5.5.5 The Commission has examined the submission of MSETCL in respect of R&M expenses including reasons for reduction in these expenses as compared to the previous year, along with the Audited Annual Accounts and has considered the amount booked in the Audited Annual Accounts for the approval of R&M expenses.
- 5.5.6 The Commission has considered capitalised R&M expenses as per the Audited Annual Accounts, and the MSLDC-related R&M expenses as per MSETCL's submissions.
- 5.5.7 MSETCL has stated that on account of difficulties in implementing the e-tendering system, there was reduction in R&M works during FY 2016-17 and corresponding reduction in the R&M expenses.
- 5.5.8 The R&M expenses approved by the Commission are as per the following Table.

Table 62: R&M Expenses for FY 2016-17 approved by Commission (Rs. Crore)

Particulars	MTR	Approved in
	Petition	this Order
Gross R&M Expenses	145.31	145.31
Less: Expenses Capitalised	1.25	1.25
Net R&M Expenses	144.06	144.06
Less: SLDC R&M Expense	1.17	1.17
Net R&M Expense after adjustment for	142.89	142.89
SLDC R&M Expense		
Add: Prior Period R&M expenses	-	-
Net R&M Expenses	142.89	142.89

5.5.9 The Commission approves net R&M Expenses of Rs. 142.89 Crore on Truing-up of ARR for FY 2016-17.

5.6 Normative and Actual O&M Expenses

- 5.6.1 The Commission has considered the closing balance of actual Bays and Ckt. Km. approved in this Order for FY 2015-16 as the opening balance for FY 2016-17. The Bays and Ckt. Km. added during the year are also considered.
- 5.6.2 The Commission approves the normative O&M expenses based on the actual Bays and Ckt. Km. in FY 2016-17 and the actual O&M expenses for FY 2016-17 as discussed in earlier paragraphs, as per the following Table.

Table 63: Normative and Actual O&M Expenses for FY 2016-17 approved byCommission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order	
Normative O&M Expenses	1,469.05	2,030.45	1,736.77	
Actual O&M Expenses				
Employee Expense		977.11	977.11	
A&G Expense		254.21	253.41	
R&M Expense		142.89	142.89	
Total Actual O&M Expenses	1,469.05	1,374.21	1,373.41	

5.6.3 The Commission approves the normative O&M Expenses of Rs. 1,736.77 Crore and actual O&M Expenses of Rs. 1,373.41 Crore prior to sharing of efficiency gain/loss, on Truing-up of ARR for FY 2016-17.

5.7 Capital Expenditure and Capitalisation

MSETCL's Submission

5.7.1 Capitalisation of Rs. 1,393.21 Crore was approved in the MYT Order in Case No. 31 of 2016 considering only those schemes which were approved in-principle. In the present Petition a Capitalisation of Rs. 1,690.69 Crore (wrongly mentioned as Rs. 1,677.65 Crore in the Petition) is claimed based on actual capitalization during the year. The break-up of the capitalisation is as shown in the following table:

Table 64: Break up of Capitalisation for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Sr. No.	Particulars	Amount
1	Capitalisation as per Books	1,716.33
2	Less: SLDC Capitalisation	1.58
3	Less: Capitalisation claimed under ORC	24.01
4	Less: Capitalisation claimed under PSDF	0.02
5	Less: Capitalisation claimed under TSP	0.03
	Total Capitalisation claimed in the revised petition	1,690.69

5.7.2 The capitalization has been higher than that approved previously by the Commission due to rigorous efforts and follow-up by MSETCL in resolving issues such as RoW and related court cases, requirement of forest clearances in some schemes, delay in land acquisition, delay in availability of police protection, permissions required from Railways, availability of outages etc.

Particulars	MYT	MSETCL
	Order	Petition
DPR	1,213.15	1,570.25
Non-DPR	180.05	120.44
Total	1,393.21	1,690.69

Table 65: Capitalisation for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Commission's Analysis and Ruling

5.7.3 The Commission has elaborated the analysis underlying its approval of the capitalisation for FY 2015-16 to FY 2019-20 in the paras 4.7.3 to 4.7.21 of this Order. Accordingly, the capitalisation for FY 2016-17 approved by the Commission after prudence check is given in the Table below:

Table 66: Capitalisation for FY 2016-17 approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
DPR Capitalisation		1,570.25	1,521.82
Non-DPR Capitalisation		120.44	120.44
Add: Past period disallowed capitalisation			23.03
approved in FY 2016-17*		-	
Total Approved Capitalisation	1,393.21	1,690.69	1,665.29

* Part of the disallowed capitalisation claimed by MSETCL in the past years (FY 2010-11 to FY 2014-15) are considered for approval in FY 2016-17 by the Commission.

5.7.4 The Commission approves capitalisation of Rs. 1,665.29 Crore on Truing-up of ARR for FY 2016-17. This includes capitalisation of Rs. 23.03 Crore approved now towards previously disallowed schemes for past years (FY 2010-11 to FY 2014-15) based on actual put to use of assets in FY 2016-17.

5.8 Depreciation

MSETCL's Submission

5.8.1 Opening GFA for FY 2016-17 is considered same as the closing GFA for FY 2015-16 approved by the Commission; after considering the impact of disallowed capitalization for FY 2010-11 to 2014-15. Depreciation has been calculated considering the average depreciation rate of 3.89% (i.e. computed average rate considering the depreciation and average GFA during the year as per the Audited

Accounts). The impact of FRP Scheme on Fixed Assets as per Audited Annual Accounts for FY 2016-17 is considered (i.e. depreciation pertaining to this has been excluded while computing average rate) to derive the depreciation rate of 3.89%.

- 5.8.2 The Government of Maharashtra has notified "Maharashtra Electricity Reforms Transfer (First Amendment) Scheme 2016" on 31 March 2016. As per the scheme, the fixed assets taken over by Government of Maharashtra shall be considered to have been transferred to the MSETCL at the market value prevailing on 5 June, 2005. Pursuant to this notification, Net Fixed Assets of MSETCL increased by an amount Rs. 6,288.93 Crore (i.e. difference between old net fixed asset value and new net fixed asset value) in FY 2015-16.
- 5.8.3 Further, Regulation 23.10 of MYT Regulations, 2015 provides for passing on the benefit of revaluation of assets of a Transmission Licensee to its long term Transmission System User in case such revaluation does not affect the Tariff adversely. In view of FRP scheme, assets of MSETCL have been adjusted. However, in line with Regulation 23.10 and directive of Holding company vide letter no. MSEBHCL/FRP/269 dated 7 July 2015, MSETCL's assets have been adjusted. Accordingly, MSETCL has reduced a depreciation amount by Rs. 106.57 Crore while computing Aggregate Revenue Requirement for FY 2016-17. The asset class-wise break up of depreciation computed on account of FRP scheme is provided as under:

Table 67: Depreciation on account of FRP scheme for FY 2016-17, as submitted byMSETCL (Rs. Crore)

Sr. No.	Particulars	Depreciation
1	Sub-Station	34.40
2	Buildings	0.20
3	Hydraulic works	0.00
4	Civil Works	1.32
5	Lines	70.09
6	Vehicles	0.01
7	Furniture & fixtures	0.00
8	Computer/printer/UPS/peripherals	0.01
9	Fax Machine	0.36
10	Water Cooler	0.02
11	Air conditioner	0.02
12	Amortisation of Leasehold land Assets	0.14
13	Total	106.57

5.8.4 The summary of the depreciation as approved in the MYT Order in Case No. 31 of 2016 and as claimed in this Petition is shown in the Table below:

Table 68: Depreciation for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Depreciation	921.21	923.18

Commission's Analysis and Ruling

- 5.8.5 The Commission has noted MSETCL's submissions, and has approved the depreciation in line with the MYT Regulations, 2015. The Commission has considered the closing GFA of FY 2015-16 approved in the present Order to compute the opening GFA for FY 2016-17. Further, addition in assets in FY 2016-17 is considered as per the capitalisation approved at para. 4.7 of this Order.
- 5.8.6 The notes to the Audited Annual Accounts mention that the straight line method is adopted and the asset class wise depreciation rates in the MYT Regulations, 2015 are considered for computation of depreciation charged during the year. The Commission has verified that the impact of FRP is excluded while computing the rate of depreciation. Accordingly, the Commission has computed the applicable depreciation rate by considering the depreciation amount as a percentage of the average of actual opening GFA and closing GFA as per the Audited Annual Accounts for FY 2016-17, which amounts to 3.89% for FY 2016-17, for the calculation of depreciation.
- 5.8.7 The Commission considered retirement of assets during the year to arrive at the closing balance of assets. Accordingly, depreciation for FY 2016-17 has been computed on the average of opening and closing GFA approved by the Commission and the approved depreciation rate as mentioned earlier.
- 5.8.8 Accordingly, the Commission approves the depreciation for FY 2016-17 as summarised in the following Table:

Particulars	MYT Order	MTR Petition	Approved in this Order
Opening GFA	22,183.02	22,907.79	22,534.38
Add: Additional Capitalization during the	1,393.21	1,690.69	1,665.29
year			
Less: Retirement/Adjustments	53.85	5.03	5.03
Closing GFA	23,522.37	24,593.45	24,194.65
Average Depreciation Rate	4.03%	3.89%	3.89%
Total Depreciation	921.22	923.18	908.17

Table 69: Depreciation for FY 2016-17 approved by Commission (Rs. Crore)

5.8.9 The Commission approves Depreciation of Rs. 908.17 Crore on Truing-up of ARR for FY 2016-17.

5.9 Interest on Long Term Loans

MSETCL's Submission

- 5.9.1 The Interest on Long Term Loans is computed in accordance with the Regulation 29 of MYT Regulations, 2015. The closing balance of loan of FY 2015-16 submitted in this Petition, is considered as the opening balance of loan for FY 2016-17. A weighted average debt-equity ratio of 79.93:20.07 is considered for funding the capitalisation.
- 5.9.2 With regard to retirement of assets, in the books of accounts, assets not in use include 10% residual value of assets for which 90% depreciation has already been charged. Hence, the same has been considered as retirement of assets during the year. Further, where assets have been considered for scrapping, the same will also be considered for retirement. The total retirement of assets for FY 2016-17 has been computed as Rs. 5.03 Crore.
- 5.9.3 MSETCL has considered repayment of normative loan equal to the depreciation. The actual interest rate considered is higher than the rate approved in the MYT Order in Case No. 31 of 2016 for the FY 2016-17. The weighted-average rate of interest across the year is considered for computation of the interest on the normative loan. This interest rate is applied to the average of opening balance and closing balance of loan for the year to compute the interest expense on the normative long term loans.
- 5.9.4 Long term loans are availed from major Financial Institutions (FI), viz., PFC, JICA, REC, IFC, Bank of Baroda, Union Bank of India, Bank of Maharashtra and Oriental Bank of Commerce to fund the capital expenditure.

Table 70: Interest on Long Term Loans for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Interest on Long Term Loans	786.12	895.33

Commission's Analysis and Ruling

5.9.5 The Commission has considered the opening balance of loan for FY 2016-17 as the closing balance of loan for FY 2015-16 as approved in this Order. The Commission observes that MSETCL has funded different capital expenditure schemes at different debt:equity ratios of 80:20, 75:25 and 70:30 and accordingly computed a weighted average debt-equity ratio of 79.93:20.07 for FY 2016-17. The Commission has computed a weighted average debt-equity ratio of 79.87:20.13 for capitalisation of FY 2016-17.

- 5.9.6 The Commission has considered the repayment of normative loan equal to the depreciation approved for FY 2016-17 in this Order.
- 5.9.7 The reduction of loans due to retirement of assets is considered as submitted by MSETCL. The Commission has examined the computation for weighted average interest rate for the loan portfolio during the FY 2016-17 as well as the documentary evidence substantiating the same, and considered this rate for computing the interest expenses for FY 2016-17.
- 5.9.8 The Commission in the MYT Order in Case No. 31 of 2016, had ruled the following:

"6.5.8 The weighted average rate of interest on the loan portfolio at the beginning of FY 2016-17, as submitted by MSETCL, is 11.19%. However, as elaborated at paras. 5.9.9 to 5.9.11, the Commission has taken the interest rate of 10.75%, and applied it to the average of opening and closing balance of loan for the year to compute the interest expense on normative long term loans. Any variation in the interest rate shall be dealt with at the time of Truing-up. In case the actual interest rates are higher, no carrying cost shall be allowed on any under-recovery in the Interest on Long Term Loans."

- 5.9.9 In view of the above, the Commission has computed the interest expenses on the approved normative loan for FY 2015-16 by applying the interest rate of 10.75% approved in the MYT Order as well as the weighted average interest rate considered in the present Order at 10.99%. The difference of these two values of interest expenses is excluded while computing the carrying/holding cost. The computation of carrying/holding cost is dealt with in subsequent Sections of this Order.
- 5.9.10 The interest expenses for FY 2016-17 approved by the Commission are as shown in the Table below.

Table 71: Interest on Long Term Loans for FY 2016-17 approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Opening Balance of Net Normative Loan	7,240.59	7,934.76	7,660.54
Retirement of Assets	53.85	5.03	5.03
Debt % considered for reduction in loan due to	80.00%	80.00%	80.00%
retirement/adjustment of assets			
Less: Reduction of Normative Loan due to retirement	43.08	4.02	4.02
or replacement of assets			
Total Capitalization	1,393.21	1,690.69	1,665.29
Debt Component	79.58%	79.93%	79.87%
Addition of Normative Loan due to capitalisation	1,108.68	1,351.32	1,330.00
Repayment of Normative loan during the year	921.22	923.18	908.17
Closing Balance of Net Normative Loan	7,384.97	8,358.87	8,078.34
Weighted average Rate of Interest on actual Loans	10.75%	10.99%	10.99%
(%)			
Interest Expenses	786.12	895.33	864.85

5.9.11 The Commission approves Interest on Long Term Loans as Rs. 864.85 Crore on Truing-up of ARR for FY 2016-17.

5.10 Other Interest and Finance Charges

MSETCL's Submission

5.10.1 The table below provides the actual other interest and finance charges for FY 2016-17:

Table 72: Other Interest and Financing Charges for FY 2016-17, as submitted byMSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Other Interest and Financing Charges	5.46	0.69

Commission's Analysis and Ruling

5.10.2 The Commission has examined the submissions of MSETCL regarding the other interest and financing charges including the break up and reconciliation with the Audited Annual Accounts provided vide response to data gaps. The break-up of other interest and financing charges includes Rs. 0.32 Crore towards Service Fee, Rs. 0.08 Crore towards bank charges, Rs. 0.07 Crore towards guarantee charges and Rs. 0.22 Crore towards debt restructuring premium. Accordingly, the Commission approves the same as shown in the Table below.

Table 73: Other Interest and Financing Charges for FY 2016-17 approved byCommission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Other interest and finance charges	5.46	0.69	0.69

5.10.3 The Commission approves the actual Interest and Finance Charges of Rs. 0.69 Crore on Truing-up of ARR for FY 2016-17, as claimed by MSETCL.

5.11 Interest on Working Capital

MSETCL's Submission

- 5.11.1 As per Regulation 31.2 of MYT Regulations, 2015, IoWC has been computed based on the norms and the actual audited elements of ARR like O&M expenses, Gross Fixed Assets and revenue from Transmission Charges.
- 5.11.2 The MYT Regulations, 2015 stipulate that for the purpose of Truing up, the rate of interest on working capital shall be equal to weighted average Base Rate prevailing during the concerned year plus 1.5%. A weighted average Base Rate of 9.29% plus 1.5% is considered for FY 2016-17. Hence, the applicable rate of 10.79% has been considered for determining normative Interest on Working Capital. However, MSETCL has considered the actual Interest on Working Capital paid during FY 2016-17 for Truing up.
- 5.11.3 MSETCL has utilized its internal accruals for funding its working capital requirements. Due to effective management of cash flows, it was able to prudently meet its working capital requirement in FY 2016-17. The details of the IoWC claimed by MSETCL are shown in the Table below:

Table 74: Interest on Working Capital for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	Normative	MSETCL Petition
Interest on Working Capital	58.06	63.76	42.72

Commission's Analysis and Ruling

5.11.4 The Commission scrutinized the submissions of MSETCL with regard to the computation of IoWC and estimated normative working capital requirement in accordance with Regulation 31.2 of the MYT Regulations, 2015 as follows:

- Revised normative O&M expenses based on the actual Bays and Ckt. Km. as approved in this Order for FY 2016-17 are considered for calculating working capital requirements.
- Maintenance spares at 1% of approved opening GFA for FY 2016-17.
- Revenue from Transmission Charges from the TSUs for April to June, 2016 is considered at Rs. 670.98 Crore (at Rs. 223.66 Crore per month as per the InSTS Tariff Order in Case No. 57 of 2015) and for July, 2016 to March, 2017 at Rs. 1,308.51 Crore (at Rs. 145.39 Crore per month as per InSTS Tariff Order in Case No. 91 of 2016) i.e. a total revenue of Rs. 1,979.51 Crore.
- 5.11.5 The Commission has computed the interest rate for IoWC by adding the weighted average Base Rate during FY 2016-17 i.e. 9.29% and 150 basis points i.e. 1.50% to derive a total of 10.79% in line with the provisions of the Regulation 31.2 (b) of the MYT Regulations, 2015 and which is also same as MSETCL's submission.
- 5.11.6 The Commission verified the Annual Accounts and observed that there is no security deposit from TSUs.
- 5.11.7 The normative IoWC approved by the Commission for FY 2016-17 is as given in the Table below.

Table 75: Interest on Working Capital for FY 2016-17 approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Operations and Maintenance Expenses for one month		114.52	144.73
Maintenance Spares @1% of the Opening GFA		229.08	225.34
One and a half months of the expected revenue from		247.44	247.44
transmission charges at the prevailing tariffs			
Less: Amount of Security Deposit from Transmission		-	-
System Users			
Total Working Capital Requirement		591.03	617.51
Interest Rate (%)		10.79%	10.79%
Normative Interest on Working Capital	58.06	63.76	66.62

5.11.8 The Commission approves the normative IoWC of Rs. 66.62 Crore on Truing-up of ARR for FY 2016-17. The net entitlement of MSETCL towards the IoWC after sharing of efficiency gains/losses is set out subsequently.

5.12 Return on Equity

MSETCL's Submission

5.12.1 MSETCL has worked out the Return on Equity for FY 2016-17 in accordance with the Regulation 28 of the MYT Regulations, 2015. Regulatory equity at the beginning of FY 2016-17 has been considered the same as the closing balance of regulatory

equity of FY 2015-16 calculated after taking into account the impact of capitalization claimed against the disallowed capitalization for FY 2010-11 to 2014-15.

- 5.12.2 MSETCL has considered debt-equity ratio of 80:20 till FY 2015-16 and 75:25 FY 2016-17 onwards. Therefore, for computation of Return on Equity, it has considered weighted average debt equity ratio, FY 2016-17 onwards. The same is computed at 79.93:20.07 for FY 2016-17.
- 5.12.3 Reduction in equity due to retirement/adjustments of assets in FY 2016-17 has been considered as 20% of actual retirement of assets/adjustments. As per direction of the Holding Company, MSETCL has considered RoE of 7.5% against the rate of 15.5% specified in the MYT Regulations, 2015, as shown in the following Table:

Table 76: Return on Equity for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Return on Equity	410.62	423.98

Commission's Analysis and Ruling

- 5.12.4 As per the principle for RoE computation specified in the MYT Regulations, 2015, the Commission considered the closing balance of regulatory equity for FY 2015-16 approved in this Order, as the opening balance of equity for FY 2016-17. Addition in equity due to approved capitalisation in FY 2016-17 is considered at the weighted average debt-equity ratio of 79.87-20.13 computed by the Commission.
- 5.12.5 The Commission has considered retirement of assets as submitted by MSETCL based on the Audited Annual Accounts for FY 2016-17, and reduced equity to the extent of 20% of the value of retired assets.
- 5.12.6 The Commission has computed RoE at the rate of 7.5% in line with the stand taken in the MYT Order in Case No. 31 of 2016 and as sought by MSETCL in the present Petition. RoE as approved by the Commission for FY 2016-17 is set out in the Table below.

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Regulatory Equity at the beginning of the year	5,338.01	5,483.90	5,410.53
Capitalisation during the year	1,393.21	1,690.69	1,665.29
Consumer Contribution and Grants used during the	-	-	-
year for Capitalisation			
Equity portion of capitalisation during the year	284.52	339.37	335.29
Reduction in Equity Capital on account of retirement /	10.77	1.01	1.01
replacement of assets			
Regulatory Equity at the end of the year	5,611.76	5,822.26	5,744.81
RoE %	7.50%	7.50%	7.50%
Return on Regulatory Equity at the beginning of the	400.35	411.29	405.79
year			
Return on Equity portion of capitalisation during the	10.27	12.69	12.54
year			
Total Return on Regulatory Equity	410.62	423.98	418.33

Table 77: Return on Equity for FY 2016-17 approved by Commission (Rs. Crore)

5.12.7 The Commission approves Return on Equity of Rs. 418.33 Crore on Truing-up of ARR for FY 2016-17.

5.13 Income Tax

MSETCL's Submission

- 5.13.1 In accordance with MYT Regulations, 2015, MSETCL has claimed Income Tax as a part of ARR for FY 2016-17. The Current Tax has been paid as per the provisions of the Income Tax Act, 1961 in respect of Taxable Income for the year, after considering permissible tax exemption, reduction/disallowance.
- 5.13.2 Income Tax of Rs. 90.11 Crore was claimed in the MYT Petition applying MAT rate of 21.34% on RoE. Vide the MYT Order in Case No. 31 of 2016, Income Tax of Rs. 111.41 Crore was approved. Since revenue from Transmission Charges for FY 2016-17 has reduced to Rs. 1,979.51 Crore as compared to Rs. 3,386.34 Crore as claimed in the MYT petition, the actual Income Tax for FY 2016-17 has reduced to Rs. 11.45 Crore based on provisions of Income Tax Act, 1961.
- 5.13.3 MSETCL has sought actual Income Tax paid for FY 2016-17. The Income Tax as approved in the MYT Order in Case No. 31 of 2016 and actual Income Tax based on the revenue and expenses of FY 2016-17 is shown in the table below.

Table 78: Income Tax for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Income Tax	111.41	11.45

Commission's Analysis and Ruling

- 5.13.4 The Commission has examined the Income Tax Return as well as the Income Tax computation submitted by MSETCL.
- 5.13.5 The MYT Regulations, 2015 stipulate that Income Tax on account of efficiency gains and incentive as well as Delayed Payment Charges (DPC) or Interest on DPC and income from Other Business shall not be a pass through:

"33.1 The Commission, in its MYT Order, shall provisionally approve Income Tax payable for each year of the Control Period based on the actual Income Tax paid by the Generating Company or Licensee or MSLDC, in case the Generating Company or Licensee or MSLDC has not engaged in any other regulated or unregulated Business or Other Business, as allowed by the Commission relating to the electricity Business regulated by the Commission, as per latest available Audited Accounts, subject to prudence check:

Provided further that no Income Tax shall be considered on the amount of income from Delayed Payment Charges or Interest on Delayed Payment or Income from Other Business, as well as on the income from any source that has not been considered for computing the Aggregate Revenue Requirement:

Provided also that no Income Tax shall be considered on the amount of efficiency gains and incentive approved by the Commission, irrespective of whether or not the amount of such efficiency gains and incentive are billed separately:"

- 5.13.6 Income Tax is also payable by MSETCL on the efficiency gains and incentive earned during the year as well as on the DPC, interest on DPC and income from Other Business. Hence, to give effect to the Regulations, the efficiency gains and incentive recoverable by MSETCL for FY 2016-17 as approved in this Order as well as the DPC of Rs. 855 Crore booked in the Audited Accounts of FY 2016-17 have been deducted from the taxable income submitted by MSETCL in its Petition. The Commission has re-computed the Income Tax payable considering the revised taxable income and keeping all the other elements unchanged as per MSETCL's submission, which amounts to Nil Income Tax liability.
- 5.13.7 Considering the above, the Commission approves Income Tax expenses as shown in the Table below.

Particulars	MYT Order	MTR Petition	Approved in this Order
Income Tax	111.41	11.45	-

Table 79: Income Tax for FY 2016-17 approved by Commission (Rs. Crore)

5.13.8 The Commission approves Nil Income Tax on Truing-up of ARR for FY 2016-17.

5.14 Contribution towards Contingency Reserves

MSETCL's Submission

5.14.1 Contribution towards Contingency Reserves is made in accordance with Regulation 34 of MYT Regulations, 2015 and within the prescribed limits (between 0.25 % and 0.5 % of the original cost of fixed assets annually), and is invested in the approved class of securities authorized under the Indian Trusts Act, 1882. The investment towards Contingency Reserves has been made in FY 2017-18 instead of FY 2016-17 owing to cash flow constraints. The Contribution to Contingency Reserves as per the Audited Accounts is as per the following Table.

Table 80: Contribution to Contingency Reserves for FY 2016-17, as submitted byMSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Contribution to Contingency Reserves	55.46	57.27

Commission's Analysis and Ruling

- 5.14.2 The Commission has verified that the accumulated Contingency Reserves of MSETCL do not exceed 5% of the original cost of fixed assets as stipulated in the MYT Regulations, 2015. The Commission sought documentary evidence substantiating the actual investment of the contingency reserves in approved class of securities, however, MSETCL was unable to submit the same. Moreover, vide response to data gaps as well as in its revised Petition MSETCL submitted that it has invested the contribution towards Contingency Reserves pertaining to FY 2016-17 in the approved securities in the FY 2017-18 owing to cash flow constraints.
- 5.14.3 The MYT Regulations, 2015 provide that:

"34.1 Where the Licensee has made a contribution to the Contingency Reserve, a sum not less than 0.25 per cent and not more than 0.5 per cent of the original cost of fixed assets shall be allowed annually towards such contribution in the calculation of Aggregate Revenue Requirement:"

5.14.4 In view of the foregoing, since MSETCL has booked the contribution towards Contingency Reserves in the Audited Accounts for FY 2016-17 however, not actually invested the same, the Commission is not inclined to approve the same in FY 2016-17. However, considering the submission of MSETCL, the Commission has provisionally approved this contribution towards Contingency Reserves pertaining to FY 2016-17 in FY 2017-18, subject to True up. 5.14.5 The contribution to Contingency Reserves approved by the Commission is shown in the Table below.

Table 81: Contribution towards Contingency Reserves for FY 2016-17 approved by Commission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Contribution to Contingency Reserves	55.46	57.27	-

5.14.6 The Commission has not approved any contribution towards Contingency Reserves on Truing-up of ARR for FY 2016-17. However, the same has been provisionally approved in FY 2017-18, subject to True up.

5.15 Revenue from Transmission Charges, Income from Wheeling Charges and Point of Connection (PoC) Charges

MSETCL's Submission

- 5.15.1 The revenue from Transmission Tariff allowed per month for April, 2016 to March, 2017 was Rs. 1,979.51 Crore (as per InSTS Order in Case No. 57 of 2015 for the period April to June, 2016 and InSTS Order in Case No. 91 of 2016 for the period July, 2016 to March, 2017), and the same has been considered for Truing-up.
- 5.15.2 MSETCL also earned revenue for wheeling Central Sector power to Goa and Dadra and Nagar Haveli and other Generators, as shown in the Audited Accounts which is considered for Truing up.
- 5.15.3 MSETCL has also earned revenue from Point of Connection (PoC) charges for Inter-State Transmission System (ISTS) lines for FY 2016-17.
- 5.15.4 MSETCL has shown the following revenue from Transmission Tariff and other sources:

Table 82: Revenue from Transmission Charges and other sources for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Revenue from Transmission Tariff	1,744.70	1,979.51
Revenue from Wheeling Charges from Goa and Dadra & Nagar Haveli and other sources	61.91	43.62
PoC Charges for Inter-State Lines (ISTS)	178.55	97.68

Commission's Analysis and Ruling

5.15.5 The Commission has considered the approved revenue as per the InSTS Tariff Orders, which is also set out by MSETCL in its Petition, as the revenue recovered from

Transmission charges; and income from Dadra & Nagar Haveli Wheeling Charges and PoC Charges for wheeling Inter-State power to Goa, as verified from the Audited Annual Accounts. Accordingly, the revenue from Transmission Charges and other sources as approved by the Commission is given in the Table below:

Table 83: Revenue from Transmission Charges and other sources for FY 2016-17approved by Commission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Revenue from Transmission Charges	1,744.70	1,979.51	1,979.51
Income from Wheeling Charges from Goa, Dadra	61.91	43.62	43.62
and Nagar Haveli and other sources			
Income from PoC charges for Inter-State lines	178.55	97.68	97.68

5.15.6 The Commission approves revenue from Transmission Tariff as Rs. 1,979.51 Crore, income from Goa, Dadra & Nagar Haveli and other sources towards Wheeling Charges as Rs. 43.62 Crore, and PoC Charges for Inter-State Transmission Lines as Rs. 97.68 Crore on Truing-up of ARR for FY 2016-17.

5.16 Non-Tariff Income

MSETCL's Submission

5.16.1 Non-Tariff Income has decreased in FY 2016-17 over FY 2015-16 primarily on account of decrease in revenue from Short Term Open Access Charges. It includes the interest earned on Contingency Reserves and other investment, revenue from Open Access Charges, excess provision written back, other miscellaneous income, etc.

Table 84: Non-Tariff Income for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Non-Tariff Income	229.97	167.51

Commission's Analysis and Ruling

5.16.2 The Commission verified the details from the Audited Annual Accounts, and approves the Non-Tariff Income for FY 2016-17 as per the following Table.

Table 85: Non-Tariff Income for FY 2016-17 approved by Commission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Non-Tariff Income	229.97	167.51	167.51

5.16.3 The Commission approves Rs. 167.51 Crore as Non-Tariff Income on Truing-up of ARR for FY 2016-17.

5.17 Incentive on Transmission System Availability

MSETCL's Submission

5.17.1 MSETCL has sought incentive on Transmission System Availability as per the following Table.

Table 86: Incentive on Transmission System Availability for FY 2016-17, as submittedby MSETCL (Rs. Crore)

Particulars	Incentive
HVAC	18.80
HVDC	5.70
Total	24.50

Commission's Analysis and Ruling

5.17.2 The Commission noted that MSETCL has considered the incorrect availability benchmarks for computing the incentive for FY 2016-17 i.e. 98% for HVAC instead of 99% and 95% for HVDC instead of 96%. The Commission has considered the availability benchmarks for computing incentive in line with the MYT Regulations, 2015. The Commission verified the actual Availability from the MSLDC certification. Accordingly, the Commission has allowed incentive on Transmission System Availability as follows:

Table 87: Incentive on Transmission System Availability for FY 2016-17 approved by
Commission (Rs. Crore)

Particulars	Actual Availability (%)	Target Availability (%)	ARR of FY 2016-17	% Allocation of ARR	ARR Allocation	Incentive
HVAC	99.64%	99.00%	3,299.36	85.04%	2,805.77	18.66
HVDC	97.07%	96.00%	5,299.30	14.96%	493.58	5.49
Total						24.15

5.17.3 The Commission approves the incentive of Rs. 24.15 Crore for higher Transmission System Availability on Truing-up of ARR for FY 2016-17.

5.18 Sharing of gains/losses

MSETCL's Submission

O&M Expenses

5.18.1 The summary of the sharing of efficiency gain/(loss) for O&M expenses based on the controllable and uncontrollable parameters is as shown in the following Table.

Table 88: Sharing of efficiency gain/(loss) for O&M Expenses for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	Normative for FY 2016-17	Audited/ Actual for FY 2016- 17	Entitleme nt as per Regulation /Order	Efficiency Gain/(Loss)	Efficiency Gain/(Loss) shared with TSUs	Net Entitleme nt of MSETCL
O&M Expenses	2,030.45	1,374.21	2,030.45	656.24	437.49	1,592.96

Interest on Working Capital

5.18.2 In accordance with the MYT Regulations, 2015, IoWC needs to be treated as efficiency gain if the actual interest paid on working capital is less than the normative. Hence, the difference of IoWC computed based on norms and actual IoWC has been considered as efficiency gain. The computation of efficiency gain is given below:

Table 89: Sharing of efficiency gain/(loss) for Interest on Working Capital for FY 2015-16, as submitted by MSETCL (Rs. Crore)

Particulars	Normative for FY 2016-17	Audited/ Actual for FY 2016- 17	Entitleme nt as per Regulation /Order	Efficiency Gain/(Loss)	Efficiency Gain/(Loss) shared with TSUs	Net Entitleme nt of MSETCL
Interest on Working Capital	63.76	42.72	63.76	21.04	14.03	49.73

Commission's Analysis and Ruling

- 5.18.3 The Commission has re-computed the normative O&M expenses based on the actual number of Bays and Ckt. Km. for FY 2016-17. The O&M expenses have been considered as controllable expenses. The efficiency gain/loss on the difference between the revised normative and the actual approved O&M expenses is computed as per the MYT Regulations, 2015. 2/3rd of the efficiency gain is shared with the TSUs, and the remaining is added to the net entitlement of O&M expenses of MSETCL, in line with the Regulations.
- 5.18.4 In the case of IoWC, the efficiency gain / loss is computed as the difference between the actual IoWC incurred in FY 2016-17, substantiated by documentary evidence submitted by MSETCL in the form of an extract of its trial balance for FY 2016-17 for the relevant head and the normative IoWC approved by the Commission after considering other elements of expenditure and revenue as approved after Truing-up.
- 5.18.5 2/3rd of the efficiency gain on this account is shared with the TSUs, and the remaining is added to the net entitlement of IoWC of MSETCL, in line with the Regulations.

5.18.6 The summary of sharing of efficiency gains/(losses) as approved by the Commission is shown in the Table below.

Table 90: Sharing of efficiency gain/(loss) due to variation in O&M Expenses and Interest on Working Capital for FY 2016-17 approved by Commission (Rs. Crore)

Particulars	Normative for FY 2016- 17	Audited/ Actual for FY 2016-17	Entitlement as per Regulation/ Order	Efficiency Gain/(Loss)	Efficiency Gain/(Loss) shared with TSUs	Net Entitlement of MSETCL
Operation & Maintenance Expenses	1,736.77	1,373.41	1,736.77	363.36	242.24	1,494.53
Interest on Working Capital	66.62	42.72	66.62	23.90	15.93	50.69

5.18.7 The Commission approves the net entitlement against O&M Expenses at Rs. 1,494.53 Crore, and against Interest on Working Capital at Rs. 50.69 Crore, after sharing of efficiency gains, on Truing-up of ARR for FY 2016-17.

5.19 Summary of Truing-up of ARR for FY 2016-17

MSETCL's Submission

5.19.1 The summary of the True up of ARR for FY 2016-17, as submitted by MSETCL is shown in the following Table:

Table 91: Summary of Truing-up of ARR for FY 2016-17, as submitted by MSETCL (Rs. Crore)

Particulars	Order in Case No. 31 of 2016	Normative	FY 2016-17 Audited (Actual)	Net Entitlement after sharing of gain/(Loss)
Operation & Maintenance Expenses	1,469.05	2,030.45	1,374.21	1,592.96
Depreciation Expenses	921.22	-	923.18	923.18
Interest on Loan Capital	786.12	-	895.33	895.33
Other Interest and Finance Charges	5.46	-	0.69	0.69
Interest on Working Capital	58.06	63.76	42.72	49.73
Income Tax	111.41	-	11.45	11.45
Contribution to Contingency Reserves	55.46	-	57.27	57.27
Total Revenue Expenditure	3,406.79	-	3,304.86	3,530.62
Add: Return on Equity Capital	410.62	-	423.98	423.98
Aggregate Revenue Requirement	3,817.40	-	3,728.84	3,954.60
Less: Non-Tariff Income	229.97	-	167.51	167.51
Less: Income from Wheeling Charges	61.91	-	43.62	43.62
from Goa and Dadra and Nagar Haveli and other sources				
Less: Income from PoC charges for Inter- State lines	178.55	-	97.68	97.68

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	Order in Case No. 31 of 2016	Normative	FY 2016-17 Audited (Actual)	Net Entitlement after sharing of gain/(Loss)
Aggregate Revenue Requirement	3,346.97	-	3,420.02	3,645.78
from TransmissionAdd: Incentive on higher TransmissionSystem Availability of HVAC System	-	-	18.80	18.80
Add: Incentive on higher Transmission System Availability of HVDC System	-	-	5.70	5.70
Revenue from Transmission Tariff	-	-	1,979.51	1,979.51
Revenue Gap/(Surplus) for current year	-	-	-	1,690.78
Impact of past period disallowed capitalisation	8.23	-	-	-
Revenue Gap/(Surplus) till previous	(1,337.79)	-	-	(593.85)
year				
Carrying/(Holding) Cost	(272.71)		-	-
Cumulative Revenue Gap/(Surplus) till the year	(1,602.28)	-	-	1,096.93

Commission's Analysis and Ruling

5.19.2 The summary of the net ARR and efficiency gains, as approved by the Commission for FY 2016-17, is shown in the following Table:

Particulars	MYT Order	Normative	Actual	Net Entitlement after sharing of gain/(loss)
Operation & Maintenance Expenses	1,469.05	1,736.77	1,373.41	1,494.53
Depreciation Expenses	921.22	-	908.17	908.17
Interest on Loan Capital	786.12	-	864.85	864.85
Other Interest and Finance Charges	5.46	-	0.69	0.69
Interest on Working Capital	58.06	66.62	42.72	50.69
Income Tax	111.41	-	-	-
Contribution to contingency reserves	55.46	-	-	-
Total Revenue Expenditure	3,406.79	-	3,189.85	3,318.94
Add: Return on Equity Capital	410.61	-	418.33	418.33
Aggregate Revenue Requirement	3,817.40	-	3,608.18	3,737.26
Less: Non Tariff Income	229.97	-	167.51	167.51
Less: Income from Wheeling Charges from Goa and Dadra and Nagar Haveli and other sources	61.91	-	43.62	43.62
Less: Income from PoC charges for Inter-State lines	178.55	-	97.68	97.68
Aggregate Revenue Requirement from Transmission	3,346.97	-	3,299.36	3,428.44
Add: Impact of Disallowed Capitalisation allowed in Case No. 31 of 2016	-	-	-	8.23
Add: Carrying Cost / (Holding Cost) allowed in Case No. 31 of 2016	-	-	-	(272.71)
Add: Incentive on higher Transmission System Availability	-	-	24.15	24.15
Revenue from Transmission Tariff	-	-	1,979.51	1,979.51
Revenue Gap/(Surplus) for current year	-	-	-	1,208.61
Revenue Gap/(Surplus) till previous year	-	-	-	(1,372.75)
Cumulative Revenue Gap/(Surplus) till the year	-	-	-	(164.15)

Table 92: Summary of Truing-up of ARR for FY 2016-17 approved by Commission (Rs.
Crore)

- 5.19.3 The detailed analysis underlying the Commission's approval of individual ARR elements on Truing up of ARR for FY 2016-17 is already set out above, however, the variation in the ARR sought by the MSETCL and that approved by the Commission in this Order is mainly on account of lower approval of capitalisation which impacts the depreciation, Interest on Long Term Loans, RoE, IoWC and Availability Incentive approved by the Commission. Further, the Commission has computed the Income Tax liability of MSETCL excluding the efficiency gains and Availability Incentive in line with the MYT Regulations, 2015, which is nil in the case of FY 2016-17. Moreover, the contribution to Contingency Reserves for FY 2016-17 is allowed in FY 2017-18 based on MSETCL's submission that they have been invested in the approved securities in FY 2017-18.
- 5.19.4 The Commission approves a cumulative Revenue Surplus of Rs. 164.15 Crore on Truing-up of ARR for FY 2016-17, considering the efficiency gain and incentive for the year, to be recovered in the ARR for FY 2018-19. The carrying/holding cost on the Revenue Gap/Surplus for FY 2016-17 after Truing-up is dealt with in subsequent Sections of this Order.

6 PROVISIONAL TRUING-UP OF ARR FOR FY 2017-18

6.1 Background

- 6.1.1 MSETCL has sought provisional Truing-up of ARR for FY 2017-18 as per provisional (unaudited) financial figures for FY 2017-18, under the MYT Regulations, 2015.
- 6.1.2 The detailed analysis underlying the Commission's approval of various ARR elements for the provisional Truing-up for FY 2017-18 is set out below. The final approvals shall be accorded based on Audited Annual Accounts and prudence check at the time of Truing-up.

6.2 **Operation & Maintenance Expenses**

MSETCL's Submission

- 6.2.1 O&M expenses comprise employee expenses, A&G expenses and R&M expenses. Normative O&M expenses in the MYT Order in Case No. 31 of 2016 were approved at Rs. 1,542.51 Crore considering the methodology of 5% escalation year-on-year for FY 2015-16 and FY 2016-17, proposed by MSETCL.
- 6.2.2 As per the provisions of MYT Regulations, 2015, normative O&M Expenses for FY 2017-18 are computed at Rs. 2,214.93 Crore. O&M Expenses on normative basis may result in significant over recovery and higher tax liability. Therefore, it has estimated O&M expenses on the provisional (unaudited) financial figures for FY 2017-18. However, if the actual O&M expenses turn out to be higher, the shortfall may be allowed at the time of final Truing up.

Particulars	FY 2017-18		
	MYT	Normative	MSETCL
	Order		Petition
Operation & Maintenance Expenses	1,542.51	2,214.93*	1,329.69
Employee Expenses	-	-	856.51
A&G Expenses			255.00
R&M Expenses			218.17

Table 93: O&M Expenses for FY 2017-18, as submitted by MSETCL (Rs. Crore)

* *MSETCL* has considered a value of Rs. 2,181.59 Crore in the table 66 of its Petition whereas Rs. 2,214.93 Crore is considered in the text of the Petition.

6.2.3 MSETCL's submissions on the components of the overall O&M expenses and the Commission's analysis are detailed below.

6.3 Employee Expenses

MSETCL's Submission

- 6.3.1 DA has increased in FY 2017-18 over FY 2016-17 by Rs. 17.93 Crore on account of regular upward revision in the rate of DA, which in turn has resulted in increase in salaries of staff. DA is a component of salary and is computed on the basic salary. The weighted average DA rate for FY 2017-18 was 136.25% as against 131.25% in FY 2016-17, 119% in FY 2015-16 and 105.92% for FY 2014-15. Summary of the applicable DA rates for the period of FY 2010-11, FY 2011-12, FY 2012-13, FY 2013-14, FY 2014-15, FY 2015-16, FY 2016-17 and FY 2017-18 are submitted.
- 6.3.2 MSETCL has an obligation towards gratuity and a defined benefit retirement plan covering eligible employees. The Plan provides a lump sum payment to vested employees at retirement, death while in employment or on termination of employment of an amount equivalent to 15 days' salary for each year of service subject to a maximum of 20 months' salary or the provisions of the Payment of Gratuity (Amendment) Act, 1997, whichever is more beneficial. Vesting occurs after five years of service. As per Accounting Standard 15, the provision for gratuity is made based on the Actuarial Valuation. The calculation is made on the projected benefit obligation which has been used on unit credit method. Actuarial gains and losses are recognised in the Profit and Loss account based on valuation made as at the year end. The amount of Gratuity amounts to Rs. 39.16 Crore as per provisional unaudited figures for FY 2017-18.
- 6.3.3 The leave encashment is payable to employees as per the Company scheme. The whole Privilege Leave (PL)/ half average pay (HP) leave to the credit of employees can be encashed at the time of superannuation / final settlement of their accounts. Encashment of leave is done only on the applicable PL/HP salary. Provisioning for leave encashment has increased in FY 2017-18 over FY 2016-17, being carried out based on the Actuarial and, moreover, there is an increase in expense for provision for leave encashment. An amount of Rs. 12.34 Crore has been arrived at as per provisional unaudited figures for FY 2017-18.
- 6.3.4 The provisional unaudited gross employee expenses for FY 2017-18 are as shown in the following Table.

	FY 201	17-18	
Particulars	MYT Order MSET Petitio		
Basic Salary		266.59	
Dearness Allowance (DA)	N.A.	363.29	
House Rent Allowance		33.46	

Table 94: Employee Expenses for FY 2017-18, as submitted by MSETCL (Rs. Crore)

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

	FY 2017-18	
Particulars	MYT Order	MSETCL Petition
Earned Leave Encashment		12.34
Other Allowances		83.43
Medical Reimbursement		0.20
Overtime Payment		34.29
Bonus/Ex-Gratia Payments		13.89
Staff welfare expenses		9.79
Payment under Workmen's Compensation Act		-
Provident Fund Contribution		74.84
Pension Payments		0.10
Gratuity Payment		39.16
Leave Encashment on Retirement		-
Gross Employee Expenses		931.44
Less: Expenses Capitalised		61.14
Net Employee Expenses		870.30
Less: SLDC Employee Expense		13.79
Net Employee Expense after adjustment for SLDC Employee Expense		856.51
Add: Prior Period Employee Expense		-
Net Employee Expense after adjustment for SLDC and other Expense		856.51

Commission's Analysis and Ruling

- 6.3.5 The Commission has examined the submissions of MSETCL. As sought, MSETCL has provided the unaudited actuals for employee cost for the FY 2017-18 since the year is over and the same have been scrutinized.
- 6.3.6 The estimated DA, gratuity payment and leave encashment on retirement have increased in FY 2017-18 over FY 2016-17, for the reasons cited by MSETCL at paras. 6.3.1 to 6.3.3. The Commission accepts MSETCL's submission, and provisionally approves these elements accordingly.
- 6.3.7 The employee expenses provisionally approved for FY 2017-18 are as shown in the Table below.

Table 95: Employee Expenses for FY 2017-18 approved by Commission (Rs. Crore)

Particulars	MTR Petition	Approved in this Order
Gross Employee Expenses	931.44	931.44
Less: Expenses Capitalised	61.14	61.14
Net Employee Expenses	870.30	870.30
Less: SLDC Employee Expense	13.79	13.79
Net Employee Expense after adjustment	856.51	856.51
for SLDC Employee Expense		
Add: Prior Period Employee Expense	-	-
Total Employee Expense	856.51	856.51

6.3.8 The Commission approves Employee Expenses of Rs. 856.51 Crore on provisional Truing-up of ARR for FY 2017-18.

6.4 Administrative and General Expenses

MSETCL's Submission

6.4.1 The asset base has been increasing since the past few years, impacting various heads of A&G Expenses like electricity charges, vehicle running and hiring expenses, security expenses and other A&G expenses. The Table below captures the A&G expenses for FY 2017-18 arrived at based on provisional (unaudited) financial figures for FY 2017-18.

Particulars	FY 2017-18	
	MYT	MSETCL
	Order	Petition
Gross A&G Expenses		276.39
Less: Expenses Capitalised		13.73
Net A&G Expenses		262.66
Less: MSLDC A&G Expense		7.66
Net A&G Expense after adjustment for MSLDC A&G	N.A.	255.00
Expense		
Prior period expense: Administration and Other Expenses		-
Net A&G expense after considering administration and]	255.00
other expenses		

Commission's Analysis and Ruling

- 6.4.2 The Commission has examined the submissions of MSETCL. As sought, MSETCL has provided the unaudited actuals for A&G expenses for the FY 2017-18 since the year is over, which have been scrutinized.
- 6.4.3 The Commission provisionally approves the A&G expenses as shown in the Table below.

Table 97: A&G Expenses for FY 2017-18 approved by Commission (Rs. Crore)

Particulars	MTR Petition	Approved in this Order
Gross A&G Expenses	276.39	276.39
Less: Expenses Capitalised	13.73	13.73
Net A&G Expenses	262.66	262.66
Less: SLDC A & G Expense	7.66	7.66
Net A & G Expense after adjustment for	255.00	255.00
SLDC A & G Expense		
Add: Prior Period A&G Expenses	-	-
Total A&G expense	255.00	255.00

6.4.4 The Commission approves A&G expenses of Rs. 255.00 Crore on Provisional Truing-up of ARR for FY 2017-18.

6.5 Repairs and Maintenance Expenses

MSETCL's Submission

6.5.1 The Table below captures the R&M expenses for FY 2017-18 as per the provisional (unaudited) financial figures for FY 2017-18.

Table 98: R&M Expenses for FY 2017-18, as submitted by MSETCL (Rs. Crore)

Particulars	FY 2017-18	
	MYT	MSETCL
	Order	Petition
Plant & Machinery, Building, Civil Works,	N.A.	221.14
Hydraulic Works, Lines & Cables Networks		
Vehicles		0.55
Furniture & Fixtures		0.04
Office Equipment		0.82
Gross R&M Expenses		222.55
Less: Expenses Capitalised		2.69
Net R&M Expenses		219.86
Less: SLDC R&M Expense]	1.69

Particulars	FY 2017-18	
	MYT	MSETCL
	Order	Petition
Net R&M Expense after adjustment for SLDC		218.17
R&M Expense		
Prior Period R&M expenses		-
Net R&M Expenses (after adjustments)		218.17

* There is a mismatch in the figures considered in the table 70 of the Petition and that considered in the financial model format 2.5. The correct figures as per the format 2.5 of the financial model are reproduced here.

Commission's Analysis and Ruling

- 6.5.2 The Commission has examined the submissions of MSETCL. As sought, MSETCL has provided the unaudited actuals for R&M expenses for the FY 2017-18 since the year is over, which have been scrutinized.
- 6.5.3 The Commission provisionally approves the R&M expenses as shown in the Table below.

Particulars	MTR Petition	Approved in this Order
Gross R&M Expenses	222.55	222.55
Less: Expenses Capitalised	2.69	2.69
Net R&M Expenses	219.86	219.86
Less: SLDC R&M Expense	1.69	1.69
Net R&M Expense after adjustment for	218.17	218.17
SLDC R&M Expense		
Add: Prior Period R&M expenses	-	-
Net R&M Expenses	218.17	218.17

Table 99: R&M Expenses for FY 2017-18 approved by Commission (Rs. Crore)

6.5.4 The Commission approves R&M Expenses of Rs. 218.17 Crore on Provisional Truing-up of ARR for FY 2017-18.

6.6 Total O&M Expenses

6.6.1 MSETCL has computed both the revised normative O&M expenses as well as unaudited actual O&M expenditure for FY 2017-18, and has sought approval for the latter. MSETCL's actual O&M expenses for FY 2015-16 and FY 2016-17 as well as unaudited actuals for FY 2017-18 are lower than the normative O&M expenses for the respective years. Moreover, MSETCL has itself sought the unaudited actuals O&M expenses rather than those computed on the normative basis. Accordingly, the Commission approves the unaudited actual O&M expenditure for FY 2017-18 as sought by MSETCL, after prudence check. In case the actual O&M expenses are

found to be higher at the time of Truing-up, they shall be considered subject to prudence check but without carrying cost on the difference. The O&M expenses approved for FY 2017-18 are as per the following Table.

Particulars	MYT Order	MTR Petition	Approved in this Order	
Normative O&M Expenses	1,542.51	2,214.93	1,881.20	
Unaudited Actual O&M Expenses				
Employee Expense		856.51	856.51	
A&G Expense		255.00	255.00	
R&M Expense		218.17	218.17	
Total Actual O&M Expenses	1,542.51	1,329.69	1,329.69	

6.6.2 The Commission has determined the revised normative O&M expenses for FY 2017-18 as Rs. 1,881.20 Crore. The Commission has also approved the total O&M Expenses (under the heads of Employee, A&G and R&M expenses) of Rs. 1,329.69 Crore on Provisional Truing-up of ARR for FY 2017-18, which is considered as a part of ARR.

6.7 Capital Expenditure and Capitalisation

MSETCL's Submission

6.7.1 Capitalisation of Rs. 1,083.97 Crore was approved in the MYT Order in Case No. 31 of 2016. The Capitalisation proposed in this Petition is as per the following Table.

Table 101: Capitalisation for FY 2017-18, as submitted by MSETCL (Rs. Crore)

Particulars	MYT	MSETCL
	Order	Petition
DPR Capitalisation	923.04	1,296.19
Non-DPR Capitalisation	160.92	79.76
Total Capitalisation	1,083.97	1,375.95

Commission's Analysis and Ruling

6.7.2 The Commission has elaborated the analysis underlying its approval of the capitalisation for FY 2015-16 to FY 2019-20 in the paras 4.7.3 to 4.7.21 of this Order. Accordingly, the capitalisation for FY 2017-18 approved by the Commission after prudence check is given in the Table below:

Table 102: Capitalisation for FY 2017-18 approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
DPR Capitalisation		1,296.19	1,140.35
Non-DPR Capitalisation		79.76	79.76
Add: Past period disallowed capitalisation		_	16.09
approved in FY 2017-18*			
Total Approved Capitalisation	1,083.97	1,375.95	1,236.20

* Part of the disallowed capitalisation claimed by MSETCL in the past years (FY 2010-11 to FY 2014-15) are considered for approval in FY 2017-18 by the Commission.

6.7.3 The Commission approves Capitalisation of Rs. 1,236.20 Crore on provisional Truing-up of ARR for FY 2017-18. This includes capitalisation of Rs. 16.09 Crore approved now towards previously disallowed schemes for past years (FY 2010-11 to FY 2014-15) based on the put to use of assets in FY 2017-18.

6.8 Depreciation

MSETCL's Submission

6.8.1 Depreciation for FY 2017-18 is computed at the rates provided in the MYT Regulations, 2015. MSETCL has computed the average asset retirement percentage for the year based on the average retired assets as a percentage of the opening GFA of the previous 5 years FY 2012-13 to FY 2016-17. This rate has been applied on the opening GFA of FY 2017-18 to arrive at the amount of retired assets for the year. Depreciation has been calculated at the average rate of 3.96%, which has been calculated by taking the weighted average rate of depreciation of the previous year (i.e. 3.89%) on the opening GFA net of retired assets in the year and 5.28% on the capitalisation added during FY 2017-18. The depreciation sought to be approved is as per the following Table.

Table 103: Depreciation for FY 2017-18, as submitted by MSETCL	(Rs. Crore)
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Particulars	MYT Order	MSETCL Petition
Depreciation	982.17	999.10

Commission's Analysis and Ruling

- 6.8.2 For computing depreciation, the Commission has considered the closing GFA of FY 2016-17 approved in this Order as the opening GFA for FY 2017-18. Further, addition in assets in FY 2017-18 is considered as per the capitalisation approved for FY 2017-18 in this Order.
- 6.8.3 The Commission has computed the rate of depreciation of 3.95% considering the methodology employed by MSETCL as elaborated in para. 6.8.1; on the approved

values of opening GFA and addition to capitalisation for FY 2017-18, in line with the approach in the MYT Order in Case No. 31 of 2016. The Commission has also considered the retirement of assets during the year as submitted by MSETCL and also deducted the grants received as submitted by MSETCL, to arrive at the closing balance of assets.

6.8.4 The depreciation approved by the Commission for FY 2017-18 is summarised in the following Table.

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Opening GFA	23,522.37	24,593.45	24,194.65
Add: Additional Capitalization during the	1,083.97	1,375.95	1,236.20
year			
Less: Retirement/Adjustments	57.10	1.05	1.05
Less: Grants	-	101.84	101.84
Closing GFA	24,549.23	25,866.51	25,327.97
Average Depreciation Rate	4.09%	3.96%	3.95%
Total Depreciation	982.17	999.10	978.79

Table 104: Depreciation for FY 2017-18 approved by Commission (Rs. Crore)

6.8.5 The Commission approves depreciation of Rs. 978.79 Crore on provisional Truing-up of ARR for FY 2017-18.

6.9 Interest on Long Term Loans

MSETCL's Submission

- 6.9.1 The interest on long term loans is computed as per Regulation 29 of the MYT Regulations, 2015.
- 6.9.2 The opening balance of normative loan for FY 2017-18, has been considered as equal to the closing loan balance of FY 2016-17 calculated after taking into account the impact of capitalization claimed against the disallowed capitalization for FY 2010-11 to 2014-15. MSETCL has considered the funding of the capital expenditure requirement through a weighted average debt-equity ratio of 79.37:20.63.
- 6.9.3 With regard to retirement of assets, in the books of accounts assets not in use includes 10% residual value of assets for which 90% depreciation has already been charged. Hence, the same is considered as retirement of assets during the years. Further, where assets have been considered for scrapping, that is also considered for retirement of the assets. The total retirement of assets arrived as per provisional unaudited figures for FY 2017-18 is Rs. 1.05 Crore.
- 6.9.4 Repayment of normative loan is considered as equal to the total of the depreciation.

6.9.5 The weighted average interest rate considered is lower than that approved in the MYT Order in Case No. 31 of 2016. This rate has been applied on the average of opening balance and closing balance of loans for the year to compute the interest expense on the normative long term loans. The interest expenses claimed are as per the following Table.

Table 105: Interest on Long Term Loans for FY 2017-18, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Interest on Long Term Loans	784.75	858.79

Commission's Analysis and Ruling

- 6.9.6 The Commission has considered the opening balance of loan for FY 2017-18 the same as the closing balance of loan for FY 2016-17 approved in this Order, and a weighted average debt-equity ratio of 79.31:20.69 for capitalisation of FY 2017-18 to determine the normative addition in loans during the year.
- 6.9.7 The Commission has considered the repayment of normative loan equal to the depreciation approved for FY 2017-18 in this Order. The reduction of loans due to retirement of assets is considered as submitted by MSETCL, after scrutiny.
- 6.9.8 In line with the Regulation 29.5 of the MYT Regulations, 2015, the weighted average interest rate on the actual loan portfolio at the beginning of the year is to be considered for computing the interest expenses. The Commission sought the computation of the weighted average interest rate from MSETCL. Vide response to data gaps, MSETCL has submitted the weighted average rate of interest on the actual loan portfolio during the year FY 2017-18 at 10.28%. Considering that the financial year is over and the weighted average interest rate during the year reflects the actual interest rate prevalent during the year, the Commission has applied the weighted average rate of interest submitted by MSETCL to the average of opening and closing balance of normative loans for the year, for computing the interest expenses for FY 2017-18. This is also in line with the approach to be taken at the time of final Truing up for FY 2017-18 in line with the Regulations.
- 6.9.9 Accordingly, the Commission approves the interest expense for FY 2017-18 as given in the Table below.

Table 106: Interest on Long Term Loans for FY 2017-18 approved by Commission (Rs. Crore)

Particulars	МҮТ	MTR	Approved in
	Order	Petition	this Order
Opening Balance of Net Normative Loan	7,384.97	8,358.87	8,078.34
Retirement of Assets	57.10	1.05	1.05
Debt % considered for reduction in loan due to	80.00%	80.00%	80.00%
retirement/adjustment of assets			
Less: Reduction of Normative Loan due to retirement	45.68	0.84	0.84
or replacement of assets			
Less: Grants	-	101.84	80.77
Total Capitalization	1,083.97	1,375.95	1,236.20
Debt Component	79.14%	79.37%	79.31%
Addition of Normative Loan due to capitalisation	857.84	1,092.03	980.40
Repayment of Normative loan during the year	982.17	999.10	978.79
Closing Balance of Net Normative Loan	7,214.96	8,349.12	7,998.35
Weighted average Rate of Interest on actual Loans	10.75%	10.28%	10.28%
(%)			
Interest Expenses	784.75	858.79	826.34

6.9.10 The Commission approves Interest on Long Term Loans of Rs. 826.34 Crore on provisional Truing-up of ARR for FY 2017-18.

6.10 Other Interest and Finance Charges

MSETCL's Submission

6.10.1 Provisional unaudited other interest and finance charges of Rs. 0.27 Crore are sought to be approved, as compared to Rs. 5.46 Crore approved in the MYT Order.

Commission's Analysis and Ruling

6.10.2 The Commission has examined MSETCL's submission and approves the interest and finance charges claimed by MSETCL.

Table 107: Other Interest and Finance Charges for FY 2017-18 approved by
Commission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Other interest and finance	5.46	0.27	0.27
charges			

6.10.3 The Commission approves Other Interest and Finance Charges of Rs. 0.27 Crore on Provisional Truing-up of ARR for FY 2017-18, as claimed by MSETCL.

6.11 Interest on Working Capital

MSETCL's Submission

- 6.11.1 As per Regulation 31.2 of the MYT Regulations, 2015, IoWC has been computed based on the norms and the estimated elements of ARR like O&M expenses, Gross Fixed Assets and revenue from Transmission Charges.
- 6.11.2 The MYT Regulations, 2015 stipulate that the rate of IoWC be equal to weighted average Base Rate prevailing during the concerned year plus 1.5%. MSETCL has considered weighted average of applicable Base Rate till 30 November, 2017 and current One Year MCLR for the remaining period of FY 2017-18 which works to 8.70% plus 1.5% which gives an applicable rate of 10.20% which has been considered for determining IoWC. MSETCL has considered estimated IoWC for the purpose of Provisional Truing up of FY 2017-18. However, MSETCL has sought the provisional (unaudited) IoWC for FY 2017-18 to be approved. The details of the Interest on Working Capital as approved by the Commission in the MYT Order in Case No. 31 of 2016 and as claimed by MSETCL in this Petition for FY 2017-18 is shown in the following Table:

Table 108: Interest on Working Capital for FY 2017-18, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Interest on Working Capital	58.06	18.68
Interest on Working Capital as per norms	-	81.00

Commission's Analysis and Ruling

6.11.3 The Commission has computed the normative IoWC considering the following:

- Provisional O&M expenses approved based on the unaudited actual figures for FY 2017-18.
- The opening GFA approved in this Order for FY 2017-18.
- Transmission Charges levied on TSUs as per the InSTS Tariff Order in Case No. 91 of 2016 for April, 2017 to March, 2018 at Rs. 291.59 Crore per month, i.e. a total revenue of Rs. 3,499.03 Crore in FY 2017-18.
- 6.11.4 The interest rate for computing IoWC is considered as per Regulation 31.2 (c) of the MYT Regulations, 2015, which is the weighted average of the SBI Base rate till 28 November, 2017 and thereafter, one year MCLR as on 29 November, 2017 which works out to 8.70% plus 150 basis points, as per the first amendment to MYT Regulations 2015. Thus, the interest rate of 10.20% (8.70% + 1.50% = 10.20%) has

been considered for estimation of the IoWC. The Commission has applied this rate to compute the normative IoWC.

- 6.11.5 MSETCL has computed both the normative IoWC and the unaudited actual IoWC for FY 2017-18 however, claimed the unaudited actual to be approved for provisional Truing up. The Commission has computed the normative IoWC and also examined the unaudited actual IoWC as sought by MSETCL. The Commission has, however, considered the unaudited actual IoWC as a part of ARR for FY 2017-18, as sought by MSETCL. MSETCL has further sought that, in case the IoWC is actually higher, the shortfall may be allowed at the time of Truing-up. The Commission shall consider the actual IoWC at the time of Truing-up, but no carrying cost would be allowed on the differential between the actual IoWC and the revised normative IoWC computed at the time of True up.
- 6.11.6 The normative and unaudited actual IoWC as approved by the Commission for FY 2017-18 is shown in the Table below:

Table 109: Interest on Working Capital for FY 2017-18 approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Operations and Maintenance Expenses for one month		110.81	110.81
Maintenance Spares @1% of the Opening GFA		245.93	241.95
One and a half months of the expected revenue from		437.38	437.38
transmission charges at the prevailing tariffs			
Less: Amount of Security Deposit from Transmission		-	-
System Users			
Total Working Capital Requirement		794.12	790.13
Interest Rate (%)		10.20%	10.20%
Normative Interest on Working Capital	58.06	81.00	80.56
Unaudited Actual Interest on Working Capital	-	18.68	18.68

6.11.7 The Commission has determined the normative Interest on Working Capital as Rs. 80.56 Crore. The Commission has also approved however, the unaudited actual Interest on Working Capital of Rs. 18.68 Crore which is considered in the ARR, on provisional Truing-up of ARR for FY 2017-18.

6.12 Return on Equity

MSETCL's Submission

6.12.1 The RoE for FY 2017-18 is computed in accordance with the Regulation 28 of the MYT Regulations, 2015. Regulatory equity at the beginning of the year has been considered same as regulatory equity at the end of the FY 2016-17 calculated after taking into account the impact of capitalization claimed against the disallowed capitalization for FY 2010-11 to 2014-15. Further 20.63% of the capitalisation has been considered for addition in equity during the year based on the weighted average

debt-equity ratio of 79.37:20.63 for FY 2017-18. Reduction in equity due to retirement of assets in FY 2017-18 has been considered as 20% of actual retirement of assets/adjustments. As per direction of the Holding Company, MSETCL has considered RoE of 7.5% against the rate of 15.5% specified in the MYT Regulations, 2015. However, MSETCL sought that in case of shortfall in ARR, it may review the decision on reduction in RoE from the rate of 15.5% as permitted under the MYT Regulations, 2015, at the time of True up. The RoE claimed by MSETCL is as shown in the following Table:

Table 110: Return on Equity for FY 2017-18, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Return on Equity	428.93	443.49

Commission's Analysis and Ruling

- 6.12.2 As per the principle for RoE computation specified in the MYT Regulations, 2015, the Commission considered the closing balance of regulatory equity for FY 2016-17 approved in this Order, as the opening balance of equity for FY 2017-18. Addition in equity due to approved capitalisation in FY 2017-18 is considered at the weighted average debt-equity ratio of 79.31-20.69 computed by the Commission.
- 6.12.3 The Commission has considered retirement of assets as submitted by MSETCL, and reduced equity to the extent of 20% of the value of retired assets.
- 6.12.4 The Commission has computed RoE at the rate of 7.5% in line with the stand taken in the MYT Order in Case No. 31 of 2016 and as sought by MSETCL in the present Petition. Any subsequent change in MSETCL's stand may be dealt with appropriately by the Commission at the time of Truing-up, but no carrying cost on any impact on this account shall be allowed. RoE as approved by the Commission for FY 2017-18 is set out in the Table below.

Table 111: Return on H	Equity for 1	FY 2017-18	approved by	Commission	(Rs. Crore)
	squity for s		approved by	Commission (

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Regulatory Equity at the beginning of the year	5,611.17	5,822.26	5,744.81
Capitalisation during the year	1,083.97	1,375.95	1,236.20
Consumer Contribution and Grants used during the	-	101.84	21.07
year for Capitalisation			
Equity portion of capitalisation during the year	226.12	283.92	255.80
Reduction in Equity Capital on account of retirement /	11.42	0.21	0.21
replacement of assets			
Regulatory Equity at the end of the year	5,825.87	6,004.13	5,979.34
RoE %	7.50%	7.50%	7.50%
Return on Regulatory Equity at the beginning of the	420.88	436.67	430.86
year			
Return on Equity portion of capitalisation during the	8.05	6.82	8.79
year			
Total Return on Regulatory Equity	428.93	443.49	439.66

6.12.5 The Commission approves Return on Equity of Rs. 439.66 Crore on Provisional Truing-up of ARR for FY 2017-18.

6.13 Income Tax

MSETCL's Submission

6.13.1 Income Tax is claimed as a part of ARR for FY 2017-18 In accordance with MERC (MYT) Regulations, 2015. Current Tax has been paid as per the provisions of the Income Tax Act, 1961 in respect of Taxable Income for the year, after considering permissible tax exemption, reduction/disallowance. As against the approved Income Tax of Rs. 116.38 Crore, the estimated Income Tax amounts to Rs. 157.05 Crore. Further, the payment of Income Tax is carried out quarterly, on the basis of the anticipated revenue from Tariff, Non-Tariff Income and income from other sources as the actual revenue gets finalised after the finalisation of the Annual Accounts. Accordingly, Income tax based on estimate for FY 2017-18 is sought to be approved as shown in the following Table:

Particulars	MYT Order	MSETCL Petition
Income Tax	116.38	157.05

Commission's Analysis and Ruling

6.13.2 Under the MYT Regulations, the Commission may provisionally approve Income Tax payable for each year of the Control Period considering the actual Income Tax payable as per the latest Audited Accounts. The Income Tax as per the latest available Audited Accounts is for FY 2016-17 which is approved as Nil in this Order, in

accordance with the MYT Regulations, 2015. Accordingly, the Commission has considered Nil Income Tax liability for FY 2017-18, subject to True up.

6.13.3 Accordingly, the Income Tax expense approved for FY 2017-18 is as given in the Table below.

Table 113: Income	Tax for FY	2017-18 appr	oved by Comn	nission (Rs. Crore)
				1.551011 (1150 01010)

Particulars	MYT Order	MTR Petition	Approved in this Order
Income Tax	116.38	157.05	-

6.13.4 The Commission approves Nil Income Tax Expenses on Provisional Truing-up of ARR for FY 2017-18.

6.14 Contribution towards Contingency Reserves

MSETCL's Submission

6.14.1 Contribution towards Contingency Reserves is made in accordance with Regulation 34 of the MYT Regulations, 2015. MSETCL has ensured that the accumulated Contingency Reserves do not exceed 5% of the original cost of fixed assets and are invested in approved securities. Accordingly, the contribution towards Contingency Reserves sought to be approved is shown in the Table below.

Table 114: Contribution towards Contingency Reserves for FY 2017-18, as submitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Contribution towards Contingency Reserves	58.81	61.48

Commission's Analysis and Ruling

6.14.2 The Commission has verified that the accumulated Contingency Reserves do not exceed 5% of the original cost of fixed assets as stipulated in the MYT Regulations, 2015, and accordingly considered the contribution as 0.25% of opening GFA of FY 2017-18 approved in this Order. Further, MSETCL has stated that it has invested the contribution towards Contingency Reserves pertaining to FY 2016-17 in the approved securities in FY 2017-18. Accordingly, as discussed in para 5.14.4 of this Order the Commission has considered the contribution towards Contingency Reserves for FY 2016-17 as as submitted by MSETCL (presuming this amount would be invested in FY 2017-18) and approved it for inclusion in the ARR for FY 2017-18. The contribution towards Contingency Reserves approved for FY 2017-18, subject to True up based on documentary evidence and Audited Accounts, is as shown in the Table below.

Table 115: Contribution towards Contingency Reserves for FY 2017-18 approved by Commission (Rs. Crore)

Particulars	MYT Orde r	MTR Petition	Approved in this Order
Contribution to Contingency Reserves	58.81	61.48	117.76

6.14.3 The Commission approves contribution to Contingency Reserves of Rs. 117.76 Crore on provisional Truing-up of ARR for FY 2017-18. This includes Contingency Reserves for FY 2016-17 of Rs. 57.27 Crore for FY 2016-17 and Rs. 60.49 Crore for FY 2017-18.

6.15 Revenue from Transmission Charges, Income from Wheeling Charges and Point of Connection Charges

MSETCL's Submission

- 6.15.1 Revenue from Transmission Tariff is computed at Rs. 3,499.03 Crore as per the InSTS Order in Case No. 91 of 2016, applicable from April, 2017 to March, 2018.
- 6.15.2 MSETCL also earns revenue for wheeling Central Sector power to Goa and Dadra & Nagar Haveli and from other Generators which is to be considered in Provisional Truing-up. This has increased in FY 2017-18 owing to wheeling charges from the additional users of the Transmission network.
- 6.15.3 MSETCL has considered the Income from PoC Charges of Inter State Transmission Lines in accordance with CERC Order Nos. 256/TT/2013 and 173/TT/2016 dated 18 May, 2015 and 19 December, 2017, respectively, however, these are subject to final adjustment with PGCIL with respect to the PoC charges as applicable in line with the CERC Orders. Accordingly, MSETCL has considered income from PoC Charges of Rs. 97.68 Crore.
- 6.15.4 The following is the revenue from Transmission Tariff and other sources:

Table 116: Revenue from Transmission Charges and other sources for FY 2017-18, assubmitted by MSETCL (Rs. Crore)

Particulars	MYT Order	MSETCL Petition
Revenue from Transmission Tariff	-	3,499.03
Revenue from Wheeling Charges from Goa, Dadra & Nagar Haveli and other sources	61.91	164.96
PoC Charges for Inter-State Lines	178.55	97.68

Commission's Analysis and Ruling

6.15.5 The Commission has taken the approved revenue as per the InSTS Tariff Order as the revenue recovered from Transmission Charges; income from Wheeling power to Dadra & Nagar Haveli and PoC Charges for wheeling Central Sector power through Inter-State Lines to Goa, as submitted by MSETCL. Any variation in actual would be dealt with during Truing-up for FY 2017-18. Accordingly, the revenue from Transmission Charges and other sources as approved is given in the Table below:

Table 117: Revenue from Transmission Charges and other sources for FY 2017-18approved by Commission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Order	Petition	this Order
Revenue from Transmission Charges	3,499.03	3,499.03	3,499.03
Income from Wheeling Charges from Goa, Dadra	61.91	164.96	164.96
and Nagar Haveli and other sources			
Income from PoC charges for Inter-State lines	178.55	97.68	97.68

6.15.6 The Commission approves revenue from Transmission Tariff as Rs. 3,499.03 Crore, income from Dadra & Nagar Haveli and other sources towards Wheeling Charges as Rs. 164.96 Crore and PoC Charges for wheeling Central Sector power to Goa through Inter-State Lines as Rs. 97.68 Crore on Provisional Truing-up of ARR for FY 2017-18.

6.16 Non-Tariff Income

MSETCL's Submission

- 6.16.1 The Non-Tariff Income includes the interest earned on Contingency Reserves and other investments, revenue from open access charges, excess provision written back, other miscellaneous income, etc. The Non-Tariff Income has been deducted from the ARR.
- 6.16.2 The Non-Tariff Income is as shown in the following Table.

Table 118: Non-Tariff Income for FY 2017-18, as submitted by MSETCL (Rs. Crore)

Particulars	MYT	MSETCL
	Order	Petition
Non-Tariff Income	237.56	178.58

Commission's Analysis and Ruling

6.16.3 The Commission has examined the submission of MSETCL and accordingly approved the Non-Tariff Income for FY 2017-18. as per the following Table.

Table 119: Non-Tariff Income for FY 2017-18 approved by Commission (Rs. Crore)

Particulars	MYT Order	MTR Petition	Approved in this Order
Non-Tariff Income	237.56	178.58	178.58

6.16.4 The Commission approves Non-Tariff Income of Rs. 178.58 Crore on Provisional Truing-up of ARR for FY 2017-18.

6.17 Summary of Provisional Truing-up of ARR for FY 2017-18

MSETCL's Submission

6.17.1 The following Table summarises the provisional Truing-up of ARR for FY 2017-18:

Table 120: Summary of provisional Truing-up of ARR for FY 2017-18, as submitted byMSETCL (Rs. Crore)

Particulars	Order in	Normative	FY 2017-18
	Case No. 31		(Provisional)
	of 2016		
Operation & Maintenance Expenses	1,542.51	*2,214.93	1,329.69
Depreciation Expenses	982.17		999.10
Interest on Loan Capital	784.75		858.79
Other Interest and Finance Charges	5.46		0.27
Interest on Working Capital	58.06	81.00	18.68
Income Tax	116.38		157.05
Contribution to contingency reserves	58.81		61.48
Total Revenue Expenditure	3,548.13		3,425.06
Add: Return on Equity Capital	428.93		443.49
Aggregate Revenue Requirement	3,977.06		3,868.55
Less: Non-Tariff Income	237.56		178.58
Less: Income from Wheeling Charges	61.91		164.96
from Goa and Dadra and Nagar Haveli			
and other sources			
Less: Income from PoC charges for	178.55		97.68
Inter-State lines			
Aggregate Revenue Requirement	3,499.03		3,427.32
from Transmission			
Revenue from Transmission Tariff	-		3,499.03
Revenue Gap/(Surplus) for current	-		(71.71)
year			
Revenue Gap/(Surplus) till previous	-		1,096.93
year			
Cumulative Revenue Gap/(Surplus)	-		1,025.22

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	Order in Case No. 31 of 2016	Normative	FY 2017-18 (Provisional)
till the year			

* *MSETCL* has mentioned Rs. 2,181.59 Crore in the table 83 of the Petition however, it is considered as Rs. 2,214.93 Crore in the financial model.

Commission's Analysis and Ruling

6.17.2 Based on the approvals discussed in the earlier paragraphs, the summary of the provisional Truing-up for FY 2017-18 is given in the following Table.

Table 121: Summary of provisional Truing-up of ARR for FY 2017-18 approved byCommission (Rs. Crore)

Particulars	MYT	MTR	Approved in
	Orde r	Petition	this Order
Operation & Maintenance Expenses	1,542.51	1,329.69	1,329.69
Depreciation Expenses	982.17	999.10	978.79
Interest on Loan Capital	784.75	858.79	826.34
Other Interest and Finance Charges	5.46	0.27	0.27
Interest on Working Capital	58.06	18.68	18.68
Income Tax	116.38	157.05	-
Contribution to contingency reserves	58.81	61.48	117.76
Total Revenue Expenditure	3,548.13	3,425.06	3,271.53
Add: Return on Equity Capital	428.93	443.49	439.66
Aggregate Revenue Requirement	3,977.06	3,868.55	3,711.18
Less: Non Tariff Income	237.56	178.58	178.58
Less: Income from Wheeling Charges from Goa and Dadra	61.91	164.96	164.96
and Nagar Haveli and other sources			
Less: Income from PoC charges for Inter-State lines	178.55	97.68	97.68
Aggregate Revenue Requirement from Transmission	3,499.03	3,427.32	3,269.96
Revenue from Transmission Tariff	-	3,499.03	3,499.03
Revenue Gap/(Surplus) for current year	-	(71.71)	(229.07)
Revenue Gap/(Surplus) till previous year	-	1,096.93	(164.15)
Cumulative Revenue Gap/(Surplus) till the year	-	1,025.22	(393.22)

6.17.3 The detailed analysis underlying the Commission's approval of individual ARR elements on provisional Truing up of ARR for FY 2017-18 is already set out above, however, the variation in the ARR sought by the MSETCL and that approved by the Commission in this Order is mainly on account of lower approval of capitalisation which impacts the depreciation, Interest on Long Term Loans and RoE approved by the Commission. Moreover, the Income Tax liability for FY 2017-18 is Nil as computed in line with the MYT Regulations, 2015. Further, the contribution to Contingency Reserves for FY 2016-17 is allowed in FY 2017-18 based on MSETCL's submission that they have been invested in the approved securities in FY 2017-18.

6.17.4 The Commission approves a cumulative Revenue Surplus of Rs. 393.22 Crore on Provisional Truing-up of ARR for FY 2017-18, to be adjusted in the ARR for FY 2018-19. This includes the cumulative Revenue Surplus determined by the Commission on Truing-up for FY 2015-16 and FY 2016-17.

7 REVISED ESTIMATES OF ARR FOR FY 2018-19 AND FY 2019-20

7.1 Background

7.1.1 MSETCL has computed the revised estimates of ARR for FY 2018-19 and FY 2019-20 under the MYT Regulations, 2015. The analysis underlying the Commission's approval is set out below.

7.2 Operation & Maintenance Expenses

MSETCL's Submission

- 7.2.1 The norms for O&M expenditure stipulated for MSETCL in the MYT Regulations, 2015 are substantially lower than the norms for the other two Transmission Licensees, viz. Reliance Infrastructure Ltd. (R-Infra-T) and Tata Power Co. (TPC-T).
- 7.2.2 The computation of normative O&M expenses for FY 2018-19 and FY 2019-20 is based on the number of Bays and Ckt. Km. The projection of Bays and Ckt. Km. is as per the following Table.

Particulars	FY	FY					
	2018-19	2019-20					
Transmission Line Length (Ckt. Km.)							
HVDC	1,504	1,504					
765 kV	-	-					
400 kV	8,415	8,415					
>66 kV and <400 kV	35,733	35,733					
66 kV and less	3,279	3,279					
Total No. of Bays							
765 kV	9	9					
400 kV	527	527					
>66 kV and <400 kV	6,654	6,654					
66 kV and less	8,656	8,656					

Table 122: Projection of Ckt. Km. and number of Bays for FY 2018-19 and FY 2019-20

Note - There is a mismatch in the details of Bays and Ckt. Km. considered in the above table and that considered in the financial model. The above Table is reproduced as per MSETCL's Petition.

7.2.3 MSETCL has also projected the O&M expenses for FY 2018-19 over FY 2017-18 on escalation basis as per the following Table:

Particulars	FY	FY
	2017-18	2018-19
Employee Expenses	856.51	856.51
Add: Yearly increment 10%		85.65
Add: Wage Revision and new employees 20%		188.43
Total Employee Expenses		1,130.60
A&G Expenses	255.00	255.00
Add: Yearly increment 5%		12.75
Total A&G Expenses		267.75
R&M Expenses	218.17	218.17
Add: Yearly increment 5%		10.91
Total R&M Expenses		229.08
Total O&M Expenses		1,627.43

Table 123: Computation of O&M Expense increase from FY 2017-18 to FY 2018-19

- 7.2.4 The O&M expenses of Rs. 1,627.43 Crore derived as per the above stated methodology for FY 2018-19 are escalated by 5% to derive the O&M expenses for FY 2019-20 which work out to Rs. 1,708.80 Crore.
- 7.2.5 MSETCL has projected the O&M expenditure as the minimum of the normative O&M expenses (based on Bays and Ckt. Km.) and their actual increment with year-on-year escalation.
- 7.2.6 The projected O&M expenses are lower than the normative. However, if the actual O&M expenses turn out to be higher, the shortfall may be allowed at the time of Truing-up. The Table below projects the O&M expenditure for FY 2018-19 and FY 2019-20.

Table 124: O&M Expenses for FY 2018-19 and FY 2019-20, as submitted by MSETCL (Rs. Crore)

Particular	FY 2018-19	FY 2019-20
Total O&M Expenses-Petition	1,627.43	1,708.80
Total O&M Expenses-Normative	2,437.72	2,714.35

Commission's Analysis and Ruling

7.2.7 As discussed in earlier Sections of this Order, the actual O&M expenses in the Audited Accounts for FY 2015-16 as well as FY 2016-17 and the unaudited actual expenses for FY 2017-18 are lower than the respective normative O&M expenses. Hence, approving the projections of the O&M expenses for FY 2018-19 and FY 2019-20 on a normative basis may result in significant over-recovery of O&M expenses and a higher Tax liability for MSETCL.

- The Commission has therefore decided, to approve the O&M expenses as per the 7.2.8 methodology proposed by MSETCL. However, the Commission has observed that MSETCL has considered an escalation of 20% pertaining to wage revision and new employees without providing any information regarding the break-up of these two elements separately. The Commission in the past Orders also, has taken a stand that the impact of wage revision will be passed on only after it actually happens, subject to prudence check. Further, considering that the O&M norms determined for MSETCL were based on the past cost trends, and hence reflect the expenditure undertaken by MSETCL in the normal course of business, would also include the impact of wage revisions undertaken in the past. Accordingly, these norms would generally factor in such cost increases as well to some extent. The Commission has, therefore, not considered the escalation factor pertaining to wage revision while computing the O&M expenses for FY 2018-19 and FY 2019-20. Moreover, the Commission, in the past Orders in Case Nos. 31 of 2016 and 207 of 2014 has allowed the actual impact of wage revision without sharing of efficiency gains/ losses on True up, considering it to be an uncontrollable parameter. Accordingly, if actual O&M expenses turn out be higher, they may be considered, subject to prudence check, at the time of Truing-up. The Commission would also undertake the sharing of gain / (loss) at that time, but not allow any carrying cost on that account. In view of the above, the O&M expenses for FY 2017-18 approved in this Order are escalated at the rates submitted by MSETCL after excluding the escalation factor pertaining to the wage revision to derive the expenses for FY 2018-19, and the O&M expenses for the subsequent year FY 2019-20 have been computed similarly.
- 7.2.9 The O&M expenses approved by the Commission for FY 2018-19 and FY 2019-20 are as per the following Table.

Table 125: O&M Expenses for FY 2018-19 and FY 2019-20 approved by Commission(Rs. Crore)

Particulars	FY 2018-19				FY 2019-20	
	MYT MTR Approved in		MYT	MTR	Approved in	
	Order	Petition	this Order	Order	Petition	this Order
Total O&M Expenses	1619.63	1627.43	1,439.00	1,700.61	1,708.80	1,510.95

7.2.10 The Commission approves the revised estimates of O&M Expenses of Rs. 1,439.00 Crore for FY 2018-19 and Rs. 1,510.95 Crore for FY 2019-20.

7.3 Capital Expenditure and Capitalisation

MSETCL's Submission

7.3.1 The Capitalisation of assets for FY 2018-19 and 2019-20 projected for approval is as per the following Table.

Table 126: Capitalisation for FY 2018-19 and FY 2019-20, as submitted by MSETCL (Rs. Crore)

Particulars	FY 2018-19		FY 2019-20		
	Capex	Capitalisation	Capex	Capitalisation	
DPR					
Capitalisation		1,001.82		1,236.83	
Non-DPR					
Capitalisation		198.37		34.80	
Total Claimed	1,085.33	1,200.19	1,009.65	1,271.63	

Commission's Analysis and Ruling

7.3.2 The Commission has elaborated the analysis underlying its approval of the capitalisation for FY 2015-16 to FY 2019-20 in the paras 4.7.3 to 4.7.21 of this Order. Accordingly, the capitalisation for FY 2018-19 and FY 2019-20 approved by the Commission after prudence check is given in the Table below.

Table 127: Capitalisation for FY 2018-19 and FY 2019-20 approved by Commission (Rs. Crore)

Particulars	FY 2018-19			FY 2019-20		
	MYT Order	MTR Petition	Approved in this Order	MYT Order	MTR Petition	Approved in this Order
DPR Capitalisation		1,001.82	920.04		1,236.83	1,360.00
Non-DPR Capitalisation		198.37	184.01		34.80	34.80
Add: Past period disallowed capitalisation		-	-		-	5.67
approved in FY 2018-19 and FY 2019-						
20*						
Total Approved Capitalisation	672.63	1,200.19	1,104.05	827.68	1,271.63	1,400.47

* Part of the disallowed capitalisation claimed by MSETCL in the past years (FY 2010-11 to FY 2014-15) are considered for approval in FY 2019-20 by the Commission.

- 7.3.3 The Commission has allowed the capitalisation for the DPR schemes in the year in which the assets are expected to be put to use and hence, certain capitalisation claimed by MSETCL in past years (FY 2015-16 to FY 2018-19) has been allowed in the FY 2019-20. On account of the same, the capitalisation approved for FY 2019-20 is higher than that proposed by MSETCL.
- 7.3.4 The Commission approves revised estimates of Capitalisation of Rs. 1,104.05 Crore for FY 2018-19, which does not include any past period disallowed capitalisation and of Rs. 1,400.47 Crore for FY 2019-20 which includes past period disallowed capitalisation of Rs. 5.67 Crore towards assets expected to be put to use in FY 2019-20.

7.4 Depreciation

MSETCL's Submission

7.4.1 The depreciation for FY 2018-19 and FY 2019-20 is computed as per the rates specified in the MYT Regulations, 2015. Average asset retirement percentage for the year is based on the average retired assets as percentage of the opening GFA of the five years from FY 2012-13 to FY 2016-17. This rate is applied on the opening GFA of FY 2018-19 and FY 2019-20 to arrive at the amount of retired assets for the respective years. Depreciation has been calculated considering the weighted average rate of depreciation of the previous year on the opening GFA net of assets retired in the year, and 5.28% on capitalisation added during the respective years. Accordingly, the depreciation rate computed is 4.02% for FY 2018-19 and 4.07% for FY 2019-20. The depreciation sought for FY 2018-19 and FY 2019-20 is as per the following Table.

Table 128: Depreciation for FY 2018-19 and FY 2019-20, as submitted by MSETCL(Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Depreciation	1,062.50	1,125.91

Commission's Analysis and Ruling

- 7.4.2 For computing Depreciation, the Commission has considered the closing GFA of FY 2017-18 approved in this Order as the opening GFA for FY 2018-19. Addition of assets in FY 2018-19 is considered as per the capitalisation approved in this Order. Similarly, the closing GFA for FY 2018-19 so derived is considered as the opening GFA for FY 2019-20. Addition to assets for FY 2019-20 is considered as per the capitalisation approved in this Order.
- 7.4.3 The Commission has computed the rate of depreciation of 4.01% and 4.07% for FY 2018-19 and FY 2019-20 respectively, considering the methodology employed by MSETCL as elaborated in para. 7.4.1; on the approved values of opening GFA and addition to capitalisation for FY 2018-19 and similarly for FY 2019-20, in line with the approach in the MYT Order in Case No. 31 of 2016. The Commission has also considered the retirement of assets during the year as submitted by MSETCL and also deducted the grants received as submitted by MSETCL, to arrive at the closing balance of assets.
- 7.4.4 The Depreciation approved by the Commission for FY 2018-19 and FY 2019-20 is summarised in the following Table.

Table 129: Depreciation for FY 2018-19 and FY 2019-20 approved by Commission (Rs. Crore)

Particulars	FY 2018-19				FY 2019-20	
	MYT Order	MTR Petition	Approved in this Order	MYT Order	MTR Petition	Approved in this Order
Opening GFA	24,549.23	25,866.51	25,327.97	25,162.26	27,023.64	26,389.02
Add: Additional Capitalization during the year	672.63	1,200.19	1,104.05	827.68	1,271.63	1,400.47
Less: Retirement/Adjustments	59.60	41.24	41.18	61.09	43.06	42.85
Closing GFA	25,162.26	27,023.64	26,389.02	25,928.85	28,252.21	27,746.64
Average Depreciation Rate	4.12%	4.02%	4.01%	4.16%	4.07%	4.07%
Total Depreciation	1,023.60	1,062.50	1,036.10	1,061.49	1,125.91	1,101.46

7.4.5 The Commission approves the revised estimates of depreciation of Rs. 1,036.10 Crore for FY 2018-19 and Rs. 1,101.46 Crore for FY 2019-20.

7.5 Interest on Long Term Loans

MSETCL's Submission

- 7.5.1 The Interest on Long Term Loans is computed as per Regulation 29 of the MYT Regulations, 2015. The capital expenditure is funded through loans from LIC, JICA, IFC, PFC, Union Bank of India, Bank of Baroda and Oriental Bank of Commerce. Loan addition has been considered at the weighted average debt-equity ratio of 78.58:21.42 and 76.27:23.73 for the years FY 2018-19 and FY 2019-20 respectively, on the proposed capitalisation during the year.
- 7.5.2 The rate of 10.28% is considered instead of 10.75% (weighted average interest taking the actual loan portfolio during the FY 2017-18) considering the rate applicable on 31 March, 2018. In case of any actual shortfall, Interest on Long Term Loans may be allowed as per the MYT Regulations, 2015. The interest expenses proposed are as per the following Table.

Table 130: Interest on Long Term Loans for FY 2018-19 and FY 2019-20, as submittedby MSETCL (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Interest on Long Term Loans	850.36	832.65

Commission's Analysis and Ruling

7.5.3 The Commission has considered the closing loan balance for FY 2017-18 approved in this Order as the opening balance for FY 2018-19. The Commission has computed the weighted average debt-equity ratio of 78.58:21.42 for FY 2018-19 and 76.27:23.73 for FY 2019-20 for deriving the debt component of the approved capitalisation added during the respective years for approving the Interest on Long Term Loans. Similarly, the equity component of the respective years is considered for deriving the equity component of the approved capitalisation added during the respective years.

- 7.5.4 The Commission has considered the repayment of loan equal to the approved depreciation for respective years.
- 7.5.5 The reduction in loan is computed by multiplying the value of retired assets considered in this Order with the percentage debt funding, considered as 80% since the assets being retired would historically have been funded at 80% debt. This would be finalised based on the Audited Annual Accounts at the time of Truing-up.
- 7.5.6 The weighted average rate of interest on the loan portfolio during FY 2017-18, as submitted by MSETCL, is 10.28%. The Commission has taken this interest rate for FY 2018-19 and FY 2019-20 and applied it to the average of opening and closing balance of loan for the year to compute the interest expense on normative long term loans. Any variation in the interest rate shall be dealt with at the time of Truing-up. In case the actual interest rates are higher, no carrying cost shall be allowed on any under-recovery in the Interest on Long Term Loans.
- 7.5.7 The Interest on Long Terms Loans approved by the Commission is as per the following Table.

Table 131: Interest on Long Term Loans for FY 2018-19 and FY 2019-20 approved by
Commission (Rs. Crore)

Particulars		FY 2018-19			FY 2019-20	
	MYT	MTR	Approved in	MYT	MTR	Approved in
	Order	Petition	this Order	Order	Petition	this Order
Opening Balance of Net Normative Loan	7,214.96	8,349.12	7,998.35	6,671.52	8,194.89	7,795.41
Retirement of Assets	59.60	41.24	41.18	61.09	43.06	42.85
Debt % considered for reduction in loan due to	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%
retirement/adjustment of assets						
Less: Reduction of Normative Loan due to retirement or	47.68	32.99	32.94	48.87	34.45	34.28
replacement of assets						
Total Capitalization	672.63	1,200.19	1,104.05	827.68	1,271.63	1,400.47
Debt Component	78.47%	78.58%	78.58%	78.49%	76.27%	76.27%
Addition of Normative Loan due to capitalisation during	527.84	943.07	867.53	649.65	969.92	1,068.19
the year						
Repayment of Normative loan during the year	1,023.60	1,062.50	1,036.10	1,061.49	1,125.91	1,101.46
Closing Balance of Net Normative Loan	6,671.52	8,194.89	7,795.41	6,210.81	8,004.45	7,727.85
Weighted average Rate of Interest on actual Loans (%)	10.75%	10.28%	10.28%	10.75%	10.28%	10.28%
Interest Expenses	746.40	850.36	811.80	692.43	832.65	797.90

7.5.8 The Commission approves the revised estimates of Interest on Long Term Loans of Rs. 811.80 Crore FY 2018-19 and Rs. 797.90 Crore for FY 2019-20.

7.6 Other Interest and Finance Charges

MSETCL's Submission

7.6.1 The other interest and finance charges for FY 2018-19 and FY 2019-20 have been arrived at based on the average of these expenses of FY 2015-16, FY 2016-17 and FY 2017-18, as per the following Table.

Table 132: Other Interest and Finance Charges for FY 2018-19 and FY 2019-20, assubmitted by MSETCL (Rs. Crore)

Particulars	FY	FY
	2018-19	2019-20
Other Interest and Finance Charges	2.59	2.59

Commission's Analysis and Ruling

7.6.2 The Commission has examined and accepted the Other Interest and Finance Charges as proposed by MSETCL, as shown in the following Table.

Table 133: Other Interest and Finance Charges for FY 2018-19 and FY 2019-20approved by Commission (Rs. Crore)

Particulars	FY 2018-19				FY 2019-20	
	MYT Order	MTR Petition	Approved in this Order	MYT Order	MTR Petition	Approved in this Order
Other interest and finance charges	5.46	2.59	2.59	5.46	2.59	2.59

7.6.3 The Commission approves the revised estimates of other Interest and Finance Charges of Rs. 2.59 Crore each for FY 2018-19 and FY 2019-20.

7.7 Interest on Working Capital

MSETCL's Submission

- 7.7.1 As per Regulation 31.2 of the MYT Regulations, 2015, the IoWC has been computed based on the norms and the estimated elements of ARR like O&M expenses, Gross Fixed Assets and revenue from Transmission Charges. The Regulations stipulate that the rate of IoWC shall be the SBI Base Rate prevailing during the year of filing the Petition plus 150 basis points. In line with the First Amendment to the MYT Regulations, 2015, pursuant to which the definition of the Base Rate is modified to include one-year Marginal Cost of Funds based Lending Rate (MCLR) as declared by SBI, MSETCL has considered the MCLR of 8.15% plus 1.5% i.e. 9.65% as the applicable interest rate for computation of IoWC for FY 2018-19 and FY 2019-20. However, in view of optimal working capital management, MSETCL has claimed estimated IoWC instead of the normative for FY 2018-19 and FY 2019-20.
- 7.7.2 The Table below indicates the IoWC calculated based on norms and based on the estimates of MSETCL for FY 2018-19 and FY 2019-20.

Table 134: Interest on Working Capital for FY 2018-19 and FY 2019-20, as submittedby MSETCL (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Interest on Working Capital estimated by MSETCL	10.00	10.00

Particulars	FY 2018-19	FY 2019-20
Interest on Working Capital as per norms	83.18	86.96

Commission's Analysis and Ruling

- 7.7.3 MSETCL has computed the normative IoWC for FY 2018-19 and FY 2019-20 in line with MYT Regulations, 2015, but has applied the IoWC estimated for these years.
- 7.7.4 The actual IoWC for FY 2015-16 and FY 2016-17 is substantially lower than that approved in the MYT Order on a normative basis and the revised normative value computed in this Order. The IoWC estimated by MSETCL for FY 2017-18 is also substantially lower than that approved in the MYT Order. Accordingly, as stated by MSETCL, the IoWC is lower than the normative levels on account of optimal working capital management. Therefore, the Commission accepts MSETCL's proposal to consider the estimated IoWC for FY 2018-19 and FY 2019-20. However, any variation in the IoWC at the time of Truing-up shall be considered without any carrying cost.
- 7.7.5 Accordingly, the IoWC approved by the Commission is as shown in the Table below.

Table 135: Interest on Working Capital for FY 2018-19 and FY 2019-20 approved by
Commission (Rs. Crore)

Particulars	FY 2018-19				FY 2019-20	
	MYT	MTR	Approved in	MYT	MTR	Approved in
	Order	Petition	this Order	Order	Petition	this Order
Operations and Maintenance Expenses for one month		135.62	119.92		142.40	125.91
Maintenance Spares @1% of the Opening GFA		258.67	253.28		270.24	263.89
One and a half months of the expected revenue from		467.71	358.30		488.51	440.68
transmission charges at the prevailing tariffs						
Less: Amount of Security Deposit from Transmission		-	-		-	-
System Users						
Total Working Capital Requirement		861.99	731.50		901.14	830.49
Interest Rate (%)		9.65%	9.45%		9.65%	9.45%
Normative Interest on Working Capital	58.06	83.18	69.13	58.06	86.96	78.48
Estimated Interest on Working Capital	-	10.00	10.00	-	10.00	10.00

7.7.6 The Commission has computed the revised estimates of normative Interest on Working Capital of Rs. 69.13 Crore for FY 2018-19 and Rs. 78.48 Crore for FY 2019-20. The Commission has however, approved the estimated IoWC of Rs. 10.00 Crore each for FY 2018-19 and FY 2019-20 as claimed by MSETCL, as a part of ARR for these years, respectively.

7.8 Contribution to Contingency Reserves

MSETCL's Submission

7.8.1 The contribution to Contingency Reserves is computed at 0.25% of the opening GFA as provided in Regulation 34 of the MYT Regulations, 2015:

Table 136: Contribution to Contingency Reserves for FY 2018-19 and FY 2019-20, as submitted by MSETCL (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Contribution to Contingency Reserves during the year	64.67	67.56

Commission's Analysis and Ruling

- 7.8.2 The Commission has verified that the accumulated Contingency Reserves of MSETCL do not exceed 5% of the original cost of fixed assets as stipulated in Regulation 34.1 of the MYT Regulations, 2015.
- 7.8.3 The Commission has considered contribution to Contingency Reserves at 0.25% of the opening GFA in accordance with the Regulations and based on the capitalisation approved in this Order. Accordingly, the approved contribution to Contingency Reserves is as given in the Table below.

Table 137: Contribution to Contingency Reserves for FY 2018-19 and FY 2019-20approved by Commission (Rs. Crore)

Particulars	FY 2018-19				FY 2019-20	
	MYT		Approved in			Approved in
	Order	Petition	this Order	Order	Petition	this Order
Contribution to Contingency Reserves	61.37	64.67	63.32	62.91	67.56	65.97

7.8.4 The Commission approves the revised estimates of contribution to Contingency Reserves of Rs. 63.32 Crore for FY 2018-19 and Rs. 65.97 Crore for FY 2019-20.

7.9 Return on Equity

MSETCL's Submission

- 7.9.1 MSETCL has estimated the Return on Equity for FY 2018-19 and FY 2019-20 in accordance with the Regulation 28 of the MERC (MYT) Regulations, 2015. Regulatory equity at the beginning of FY 2018-19 and FY 2019-20 has been considered same as the closing balance of regulatory equity of respective previous year after taking into account the impact of capitalization claimed against the disallowed capitalization for FY 2010-11 to 2014-15. The addition to equity is considered at the weighted average debt-equity ratio of 78.58-21.42 and 76.27-23.73 for FY 2018-19 and FY 2019-20, respectively. Reduction in equity due to retirement / adjustments of assets in FY 2018-19 and FY 2019-20 has been considered as 20% of estimated retirement of assets / adjustments.
- 7.9.2 MSETCL has considered return on equity at a rate of 7.5% for FY 2018-19 and FY 2019-20 in line with direction of the Holding Company and MSETCL's Board Resolution dated 23 November, 2017. A copy of the Board Resolution and the

direction of the Holding Company have been submitted in the Petition. The RoE claimed for FY 2018-19 and FY 2019-20 is as per the following Table.

Table 138: Return on Equity for FY 2018-19 and FY 2019-20, as submitted byMSETCL (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Return on Regulatory Equity claimed	459.57	473.83
Return on Regulatory Equity as per Regulations	949.79	991.64

7.9.3 MSETCL sought that in case of shortfall in ARR, it may review the decision on reduction in RoE from the rate of 15.5% as permitted under the MYT Regulations, 2015, at the time of True up.

Commission's Analysis and Ruling

- 7.9.4 The Commission has considered the regulatory equity at the end of FY 2017-18, as approved in this Order, as the opening balance for FY 2018-19. The approved closing balance of equity for FY 2018-19 in this Order is considered as the opening balance for FY 2019-20.
- 7.9.5 The addition in the equity balance for the respective years is considered at a weighted average debt:equity rate of 78.58:21.42 and 76.27:23.73 for FY 2018-19 and FY 2019-20 respectively, as computed by the Commission. The reduction of equity balance pertaining to retired assets projected for the respective years is considered at 20% since the assets being retired would have been funded in the past at 20% equity.
- 7.9.6 MSETCL has claimed RoE at a reduced rate of 7.5% for FY 2018-19 and FY 2019-20. In the light of the above, the Commission, vide data gaps, had asked MSETCL for detailed justification for a lower rate of RoE, and to address its queries regarding its impact on financial stability and creditworthiness. MSETCL's responses are discussed below.
 - Funding of shortfall due to lower RoE to maintain financial health:

The following cash flow projections are submitted by MSETCL.

Table 139: Cash flow projections for FY 2017-18 to FY 2019-20, as submitted byMSETCL (Rs. Crore)

Particulars	FY 2017-18	FY 2018-19	FY 2019-20
Cash Inflow			
ARR*	3,648.82	3,981.07	4,116.72
RoE %	7.50%	7.50%	7.50%
Return on Equity	441.21	455.09	475.03

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	FY	FY	FY
	2017-18	2018-19	2019-20
Cash Outflow			
Capex	1,251.58	1,648.66	598.35
Equity %	20.58%	21.65%	23.72%
Equity Contribution	257.57	356.93	141.93
CSR Expenses	-	35.00	54.00
Investment towards Contingency	61.46	60.00	66.57
Reserves			
Total Cash Outflow	319.03	451.93	262.50
Cash Surplus	122.18	3.16	212.53

Note- This table is submitted vide response to data gaps on 19 January, 2018 subsequent to which the revised Petition was filed on 11 June, 2018 which has revised ARR numbers.

- MSETCL stated that, it has a special reserve of Rs. 139.39 Crore as on 31 March, 2017 which shall be allowed to be used in case of shortfall.
- The shortfall in the investment for Contingency Reserve in FY 2018-19 will be made in FY 2019-20 from the surplus cash.
- Readiness of Banks/FIs to fund the debt requirement of capex schemes in future REC has already conveyed its approval for the new schemes of Rs. 3,271.25 Crore and further schemes to be sanctioned during FY 2017-18 at a concessional rate of 10.75% with a rebate of 85 basis points. A loan agreement of Rs. 300 Crore is executed with Bank of India on 9 August, 2017 with an interest rate of 8.93% p.a. with yearly reset. MSETCL has also invited offers for long term loan of Rs. 1000 Crore through tender and offers have been received from various banks and financial institutions with the interest rate being in the range of 8-8.5%, which are under finalisation.
- **Impact on creditworthiness** MSETCL's creditworthiness will not be adversely affected by the reduction in RoE as it will not affect its debt servicing capacity because the loan repayment obligation will be taken care of by the deprecation component of the ARR and the interest component is a pass-through in the Tariff. Thus, MSETCL has a comfortable debt service coverage ratio, which is the key concern for any financial institution.
- Considering the RoE proposed for FY 2018-19 and FY 2019-20, MSETCL will have sufficient funds from operations to repay the annual debt, which would be around Rs. 900 1000 Crore. MSETCL can also undertake the proposed Capex through the debt and equity funding. Considering this, MSETCL can retain its current CARE 'A' rating. MSETCL has submitted the availability of funds from operation as follows:

Particulars	FY 2017-18	FY 2018-19	FY 2019-20
Cash Inflow			
ARR*	3,648.82	3,981.07	4,116.72
RoE %	7.50%	7.50%	7.50%
Return on Equity	441.21	455.09	475.03
Depreciation	987.91	1,043.32	1,105.44
Fund from operations	1,429.12	1,498.41	1,580.47

Table 140: Fund availability from operations for FY 2017-18 to FY 2019-20 (Rs. Crore)

Note- This table is submitted vide response to data gaps on 19 January, 2018 subsequent to which the revised Petition was filed on 11 June, 2018 which has revised ARR numbers.

- 7.9.7 In response to a query regarding its ability to meet its estimated expenses in the relevant years, MSETCL submitted details of the projected expenses and revenue for FY 2017-18 to FY 2019-20.
- 7.9.8 The Commission has analysed the projected expenses and income for FY 2018-19 and FY 2019-20 submitted by MSETCL considering the approvals accorded in this Order for the respective expense and income elements. MSETCL has projected a Revenue Surplus for these two years on a stand-alone basis. The Revenue Surpluses from the past years, which reduce the actual recovery from Transmission Tariff for the year, have been considered as these Surpluses are assumed to be available with MSETCL for meeting expenses during the year.
- 7.9.9 The Commission has reworked the projected cash flow statement submitted by MSETCL, considering the expenses as per MSETCL and the revenue projections based on the ARR approved in this Order for the relevant years. The Commission has also considered the cumulative Revenue Surplus up to FY 2017-18 approved in this Order as being available to meet the projected expenses in FY 2018-19.

Particulars	FY		FY		FY
	2017-18	20)18-19	2019-20	
	MSETCL	MSETCL	Commission's	MSETCL	Commission's
	Sub-	Sub-	Analysis	Sub-	Analysis
	mission	mission		mission	
	Proj	ected Expens	ses		
Loan Repayment -Existing Loans	937.00	915.00	915.00	915.00	915.00
Loan Repayment -New Loans					
Interest Payment - Existing Loans	665.00	615.00	615.00	600.00	600.00
Interest Payment - New Loans	40.00	55.00	55.00	30.00	30.00
Financing and Guarantee Charges	3.75	3.75	2.59	3.75	2.59
O&M Expenses	1462.89	1814.29	1,627.43	1905.01	1,708.80
Interest on Working Capital	22.00	10.00	10.00	10.00	10.00
Equity infusion for funding capital	257.57	356.93	356.93	141.93	141.93

Table 141: Projected expenses and revenue for FY 2017-18 to FY 2019-20(Rs. Crore)

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	FY		FY		FY
	2017-18	2018-19		20	019-20
	MSETCL	MSETCL	Commission's	MSETCL	Commission's
	Sub-	Sub-	Analysis	Sub-	Analysis
	mission	mission		mission	
	Proj	ected Expens	ses		
expenditure					
Income Tax	129.49	97.12	98.07	101.37	102.40
Contribution to Contingency	61.46	63.77	64.67	66.57	67.56
Reserves					
Total Expenditure Projected	3,579.16	3,930.86	3,744.69	3,773.63	3,578.28
	Pro	jected Incon	ne		
ARR	3,978.75	4,334.23	3,147.42	4,495.43	3,655.06
Non-Tariff Income	184.27	202.69	214.08	222.96	235.49
Income from Wheeling Charges	47.99	52.78	181.46	58.06	199.60
from Goa and Dadra and Nagar					
Haveli and other sources					
PoC Charges	97.68	97.68	55.62	97.68	5.99
Past Surplus excluding DPC	-	-	236.17	-	-
DPC	-	-	-	-	-
Total Projected Income	3,648.82	3,981.07	3,834.75	4,116.72	4,096.14
Funding Shortfall/(Surplus)	(69.66)	(50.21)	(90.06)	(343.09)	(517.86)

Note- 1 This table is submitted vide response to data gaps on 19 January, 2018 subsequent to which the revised Petition was filed on 11 June, 2018 which has revised ARR numbers. The figures considered in the Commission's Analysis for the O&M expenses, financing and guarantee charges, Contingency Reserves and Income Tax are as submitted in the revised Petition by MSETCL.

Note - 2 Commission's Analysis is carried out for FY 2018-19 and FY 2019-20 only since FY 2017-18 is over.

- 7.9.10 After examining MSETCL's submissions and based on the above analysis, the Commission is of the view that, prima facie, the proposed reduction in rate of RoE in FY 2018-19 and FY 2019-20 may not result in a shortfall in cash flow, debt service coverage ratio or adversely impact its creditworthiness. The Commission notes that MSETCL has projected a Revenue Surplus for both these years considering book expenses and expected income.
- 7.9.11 Considering the foregoing, in the meantime the Commission has taken a considered decision to approve the RoE for FY 2018-19 and FY 2019-20 at 7.5%, as sought by MSETCL. Any subsequent change in MSETCL's stand may be dealt with appropriately by the Commission at the time of Truing-up, but no carrying cost for any impact on this account shall be allowed.
- 7.9.12 The RoE approved by the Commission for FY 2018-19 and FY 2019-20 is as per the following Table.

Table 142: Return on Equity for FY 2018-19 and FY 2019-20 approved by Commission(Rs. Crore)

Particulars		FY 2018-19			FY 2019-20	
	MYT Order	MTR Petition	Approved in this Order	MYT Order	MTR Petition	Approved in this Order
Regulatory Equity at the beginning of the year	5,959.34	6,004.13	5,979.34	5,959.34	6,251.16	6,207.23
Capitalisation during the year	827.68	1,200.19	1,104.05	827.68	1,271.63	1,400.47
Consumer Contribution and Grants used during the year for Capitalisation	-	1.82	0.39	-	-	-
Equity portion of capitalisation during the year	178.02	257.12	236.52	178.02	301.71	332.28
Reduction in Equity Capital on account of retirement / replacement of assets	12.22	8.27	8.24	12.22	8.63	8.57
Regulatory Equity at the end of the year	6,125.14	6,251.16	6,207.23	6,125.14	6,544.24	6,530.94
RoE %	15.50%	7.50%	7.50%	15.50%	7.50%	7.50%
Return on Regulatory Equity at the beginning of the year	903.10	450.31	448.45	923.70	468.84	465.54
Return on Equity portion of capitalisation during the year	10.30	9.26	8.55	12.85	10.99	12.14
Total Return on Regulatory Equity	913.40	459.57	457.00	936.55	479.83	477.68

^{7.9.13} The Commission approves the revised estimates of Return on Equity of Rs. 457.00 Crore for FY 2018-19 and Rs. 477.68 Crore for FY 2019-20.

7.10 Income Tax

MSETCL's Submission

7.10.1 As per Regulation 33 of the MYT Regulations, 2015, the provisional Income Tax payable for each year shall be based on the actual Income Tax paid by MSETCL. It has considered the MAT rate of 21.34% on the RoE for FY 2018-19 and FY 2019-20 for computation of Income Tax. The MAT rate has been applied since MSETCL is covered by MAT for the FY 2018-19 and FY 2019-20. Accordingly, the Income Tax proposed for approval is as per the following Table.

Table 143: Income Tax for FY 2018-19 and FY 2019-20, as submitted by MSETCL (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Income Tax	98.07	102.40

Commission's Analysis and Ruling

7.10.2 The MYT Regulations, 2015 provide that the Commission may provisionally approve Income Tax payable for each year considering the actual Income Tax payable as per the latest Audited Accounts. Any difference between the actual and approved Income Tax would be allowed for recovery at the time of MTR or Truing-up:

> "33.1 The Commission, in its MYT Order, shall provisionally approve Income Tax payable for each year of the Control Period based on the actual Income Tax paid by the Generating Company or Licensee or MSLDC, in case the Generating Company or Licensee or MSLDC has not engaged in any other

regulated or unregulated Business or Other Business, as allowed by the Commission relating to the electricity Business regulated by the Commission, as per latest available Audited Accounts, subject to prudence check:...

...33.3 Variation between the Income Tax actually paid or Income Tax on regulatory Profit Before Tax of the regulated Business of Generating Company or Licensee or MSLDC, as applicable, and the Income Tax approved by the Commission for the respective Year after truing-up, shall be allowed for recovery as part of the Aggregate Revenue Requirement at the time of Mid-term Review or Truing-up, subject to prudence check.."

- 7.10.3 The Income Tax as per the latest available Audited Accounts is for FY 2016-17 and as approved in this Order is Nil in accordance with the MYT Regulations, 2015. Accordingly, the Commission has considered Nil Income Tax liability for FY 2018-19 and FY 2019-20, subject to True up.
- 7.10.4 Accordingly, the Income Tax approved by the Commission for FY 2018-19 and FY 2019-20 is as per the following Table.

Table 144: Income Tax for FY 2018-19 and FY 2019-20 approved by Commission (Rs. Crore)

Particulars	FY 2018-19				FY 2019-20	
	MYT Order	MTR Petition	Approved in this Order	MYT Order	MTR Petition	Approved in this Order
Income Tax	247.82	98.07	-	254.10	102.40	-

7.10.5 The Commission approves Nil Income Tax each for FY 2018-19 and FY 2019-20.

7.11 Non-Tariff Income

MSETCL's Submission

7.11.1 MSETCL has computed Non-Tariff Income by considering year on year increase of 10% for Non-Tariff Income components in FY 2017-18 for FY 2018-19 and FY 2019-20. The total Non-Tariff Income as submitted by MSETCL is as per the following Table.

Table 145: Non-Tariff Income for FY 2018-19 and FY 2019-20, as submitted byMSETCL (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Non-Tariff Income	196.44	216.09

Commission's Analysis and Ruling

- 7.11.2 The Commission has examined the submission of MSETCL and accordingly approved the Non-Tariff Income for FY 2018-19 and FY 2019-20 except for the estimation of the loss on Foreign Exchange Rate Variation since movement of the foreign exchange rates cannot be predicted.
- 7.11.3 The Non-Tariff Income approved by the Commission is as given in the Table below.

Table 146: Non-Tariff Income for FY 2018-19 and FY 2019-20 approved by
Commission (Rs. Crore)

Particulars	FY 2018-19		FY 20			
	MYT	MTR	Approved in	MYT	MTR	Approved in
	Order	Petition	this Order	Order	Petition	this Order
Non-Tariff Income	245.55	196.44	214.08	253.96	216.09	235.49

7.11.4 The Commission approves the revised estimates of Non-Tariff Income of Rs. 214.08 Crore for FY 2018-19 and Rs. 235.49 Crore for FY 2019-20.

7.12 Income from Wheeling Charges and Point of Connection Charges

MSETCL's Submission

7.12.1 MSETCL has computed income from wheeling Central Sector power to Goa and Dadra & Nagar Haveli and other sources by considering year on year increase of 10% on such income in FY 2017-18 for FY 2018-19 and FY 2019-20, as shown in the following Table.

Table 147: Income from Wheeling Charges from Goa, Dadra & Nagar Haveli, and other sources for FY 2018-19 and FY 2019-20, as submitted by MSETCL (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20
Income from Wheeling Charges from Goa and Dadra and	181.46	199.60
Nagar Haveli and other sources		

7.12.2 MSETCL has considered the Income from PoC Charges of Inter State Transmission Lines in accordance with CERC Order Nos. 256/TT/2013 and 173/TT/2016 dated 18 May, 2015 and 19 December, 2017, respectively. MSETCL has taken into account the Income from PoC Charges of Inter State Transmission Lines including the interest on overdue amount as per the aforementioned CERC Orders, computed considering the interest rate as per the applicable Tariff Regulations (CERC (Terms and Conditions of Tariff) Regulations, 2009 and CERC (Terms and Conditions of Tariff) Regulations, 2014). However these are subject to final adjustment with PGCIL with respect to the PoC charges as applicable in line with the CERC Orders in this respect. The total amount due for FY 2018-19 is computed at Rs. 55.62 Crore and in the absence of the interest for FY 2019-20 is computed at Rs. 5.99 Crore, as shown in the following Table.

Table 148: Income from PoC Charges for FY 2018-19 and FY 2019-20, as submitted byMSETCL (Rs. Crore)

Particulars	FY 2018-19		FY 20	19-20
	MYT MSETCL		MYT MSETC	
	Order	Petition	Order	Petition
PoC Charges	178.55	55.62	178.55	5.99

Commission's Analysis and Ruling

7.12.3 The Commission has considered the income from Wheeling Charges from Goa, Dadra & Nagar Haveli, Goa and other sources as well as income from PoC Charges from Inter-State Transmission Lines for FY 2018-19 and FY 2019-20 as submitted by MSETCL, subject to Truing-up, as shown in the Table below.

Table 149: Income from Wheeling Charges from Dadra & Nagar Haveli, Goa and other sources and income from PoC Charges for FY 2018-19 and FY 2019-20 approved by Commission (Rs. Crore)

Particulars	FY 2018-19			FY 2019-20			
	MYT Order	MTR Petition	Approved in this Order	MYT Order	MTR Petition	Approved in this Order	
Income from Wheeling Charges from	61.91	181.46	181.46	61.91	199.60	199.60	
Goa, Dadra and Nagar Haveli and other							
sources							
Income from PoC charges for Inter-State	178.55	55.62	55.62	178.55	5.99	5.99	
lines							

7.12.4 The Commission approves the income from Wheeling Charges from Goa, Dadra & Nagar Haveli, Goa and other sources of Rs. 181.46 Crore for FY 2018-19 and Rs. 199.60 Crore for FY 2019-20. The Commission also approves the income from PoC Charges of Rs. 55.62 Crore for FY 2018-19 and Rs. 5.99 Crore for FY 2019-20.

7.13 Carrying Cost/Holding Cost for Trued-up ARR for FY 2015-16 and FY 2016-17

MSETCL's Submission

7.13.1 The Carrying Cost for cumulative Revenue Gap till FY 2018-19 (FY 2015-16 to FY 2017-18) is computed by MSETCL as shown in the following Table:

Table 150: Computation on Carrying cost for Revenue Gap, as submitted by MSETCL(Rs. Crore)

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
Opening balance of Revenue Gap	743.93	743.93	2,434.71
Add: Gap during the year	-	1,690.78	0
Less: Recovery during the year	0	0	0
Closing balance of Revenue Gap	743.93	2,434.71	2,434.71
Rate of Interest	11.04%	10.79%	10.20%
Carrying Cost	41.05	171.45	124.16
Total Carrying Cost			336.66

7.13.2 Further, MSETCL has also sought carrying cost on the impact of disallowed capitalisation as shown in the following Table:

Table 151: Computation of Carrying Cost on impact of disallowed capitalisation, as submitted by MSETCL (Rs. Crore)

Particulars	FY							
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Applicable Rate	12.26%	14.40%	14.61%	14.58%	14.75%	11.04%	10.79%	10.20%
Opening balance	0.00	0.82	5.97	11.38	28.00	55.50	55.50	55.50
Additions during year	0.82	5.15	5.41	16.62	27.50	0.00	0.00	0.00
Closing	0.82	5.97	11.38	28.00	55.50	55.50	55.50	55.50
balance								
Carrying cost on opening balance	0.00	0.12	0.87	1.66	4.13	6.13	5.99	2.83
Carrying cost on addition during the year	0.05	0.37	0.40	1.21	2.03	0.00	0.00	0.00
Total	0.05	0.49	1.27	2.87	6.16	6.13	5.99	2.83
Total Carrying Cost								25.78

Commission's Analysis and Ruling

7.13.3 The Commission has computed the carrying/holding cost on the approved Revenue Gap/(Surplus) derived after Truing up of ARR for FY 2015-16 and FY 2016-17. As discussed in paras 4.9.9 and 5.9.9 of this Order, the difference of the interest expenses computed by applying the rates approved in the MYT Order and now is excluded while computing the carrying / holding cost. This differential is computed as shown in the following Table:

Table 152: Differential Interest expenses for FY 2015-16 and FY 2016-17 excluded fromthe computation of carrying/holding cost (Rs. Crore)

Particulars	FY	FY
	2015-16	2016-17
Interest expenses computed in this Order	801.40	864.85
Interest expenses computed on approved	772.65	845.96
normative loan by applying weighted average		
interest rate of 10.75% approved in MYT		
Order in Case No. 31 of 2016		
Difference	28.75	18.89

- 7.13.4 Accordingly, the effective Revenue Surplus for FY 2015-16 works out to Rs. 468.33 Crore (Surplus of Rs. 439.57 Crore less interest expense difference of Rs. 28.75 Crore).
- 7.13.5 Further, the cumulative Revenue Surplus upto FY 2015-16 has been restated as elaborated in para 4.19.3. This will impact the cumulative Gap/Surplus at the end of each year from FY 2016-17 to FY 2018-19. Further, the impact of disallowed capitalisation allowed on True up of FY 2014-15 as well as the carrying cost on Revenue Surplus of FY 2014-15 computed upto FY 2016-17, both to be recovered in FY 2016-17, have not been considered either on the expense side or the revenue side by MSETCL. The Commission has accordingly, determined the effective Revenue Gap/(Surplus) on Truing up of FY 2016-17 considering all these parameters. Moreover, the difference of the interest expenses for FY 2016-17 computed above is also excluded while computing this effective Revenue Gap/(Surplus). The effective Revenue Gap computed for FY 2016-17 is as shown in the following Table:

Particulars	Effective Revenue Gap for FY 2016-17
Standalone ARR of FY 16-17 on True up (excluding incentive)	3,428.44
Less: difference of interest expenses computed using interest rate	18.89
approved in MYT Order and the present Order	
Net Aggregate Revenue Requirement on True up - (A)	3,409.56
Revenue from InSTS	1,979.51
Add: Carrying cost on surplus of FY 2014-15 calculated upto FY 2016-17	272.71
Less:Impact of disallowed capitalisation	8.23
Add: Revenue surplus upto 2014-15	985.09
Total effective revenue recovery in FY 2016-17 - (B)	3,229.08
Effective Revenue Gap on True up of FY 2016-17 (A-B)	180.48

Table 153: Effective Revenue Gap for FY 2016-17 (Rs. Crore)

- 7.13.6 The interest rates considered for computing the IoWC for respective years from FY 2015-16 to FY 2018-19 in this Order are applied for computing the carrying/holding cost.
- 7.13.7 The Commission observes that MSETCL has also claimed carrying cost on the impact of disallowed capitalisation amounting to Rs. 25.78 Crore along with the carrying cost on True up of FY 2015-16 and FY 2016-17 in its Petition. In the MYT Order in Case No. 39 of 2013, the Mid-Term Performance Review (MTR) Order in Case No. 207 of 2014 and the last MYT Order in Case No. 31 of 2016, the impact of disallowed capitalisation on Interest on Working Capital (IoWC), contribution to Contingency Reserves, sharing of gains / losses and carrying cost on increase in ARR due had not been considered. In line with the principles adopted for these parameters in those Orders, the Commission has not considered the impact on these items due to the disallowed capitalisation now being approved. Accordingly, the Commission has not allowed any carrying cost on the impact of disallowed capitalisation.
- 7.13.8 Accordingly, the following Table summarises the computation of carrying/holding cost determined in the present Order.

Table 154: Carrying/Holding cost for Trued-up ARR for FY 2015-16 and FY 2016-17approved by Commission (Rs. Crore)

Particulars	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
Opening balance of Revenue Gap/(Surplus)	-	(468.33)	(287.84)	(287.84)
Addition during the year	(468.33)	180.48	-	-
Less: Recovery during the year	-	-	-	(287.84)
Closing balance of Revenue Gap/(Surplus)	(468.33)	(287.84)	(287.84)	-
Rate of Interest	10.80%	10.79%	10.20%	9.45%
Carrying Cost/(Holding Cost)	(25.29)	(40.79)	(29.35)	(13.60)
Total Carrying Cost/(Holding Cost)				(109.02)

7.13.9 The Commission approves an effective Holding Cost of Rs. 109.02 Crore on the cumulative Revenue Gap/(Surplus) pursuant to the True up of ARR for FY 2015-16 and FY 2016-17. This shall be adjusted in the ARR for FY 2018-19.

7.14 Summary of revised estimates of ARR for FY 2018-19 and FY 2019-20

MSETCL's Submission

7.14.1 Based on the submissions made in the Petition, MSETCL has projected the ARR for FY 2018-19 and FY 2019-20 as per the following Table.

Table 155: ARR for FY 2018-19 and FY 2019-20, as submitted by MSETCL (Rs. Crore)

Particulars	FY	FY
	2018-19	2019-20
Operation & Maintenance Expenses	1,627.43	1,708.80
Depreciation Expenses	1,062.50	1,125.91

MERC Order on approval of Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and revised estimates of ARR for FY 2018-19 and FY 2019-20 for MSETCL

Particulars	FY	FY
	2018-19	2019-20
Interest on Loan Capital	850.36	832.65
Interest on Working Capital	10.00	10.00
Other Interest and Finance Charges	2.59	2.59
Income Tax	98.07	102.40
Contribution to Contingency Reserves	64.67	67.56
Total Revenue Expenditure	3,715.62	3,849.90
Add: Return on Equity Capital	459.57	479.83
Aggregate Revenue Requirement	4,175.19	4,329.73
Less: Non-Tariff Income	196.44	216.09
Less: Income from Wheeling Charges from Goa and	181.46	199.60
Dadra and Nagar Haveli and other sources		
Less: Income from PoC Charges for Inter-State lines	55.62	5.99
Aggregate Revenue Requirement from Transmission	3,741.67	3,908.05
Add: Cumulative Revenue gap/(surplus) till previous year	1,025.22	-
Add: Impact of disallowed capitalisation	55.50	-
Add: Carrying Cost	362.44	-
Net Revenue required from Transmission Tariff	5,184.83	3,908.05

Commission's Analysis and Ruling

7.14.2 Based on the analysis detailed in the above paragraphs, the Commission has approved the revised estimates of ARR of MSETCL for FY 2018-19 and FY 2019-20 as shown in the following Table.

Particulars		FY 2018-19		FY 2019-20			
	MYT Order	MTR Petition	Approved in this Order	MYT Order	MTR Petition	Approved in this Order	
Operation & Maintenance Expenses	1,619.63	1,627.43	1,439.00	1,700.61	1,708.80	1,510.95	
Depreciation Expenses	1,023.60	1,062.50	1,036.10	1,061.49	1,125.91	1,101.46	
Interest on Loan Capital	746.40	850.36	811.80	692.43	832.65	797.90	
Other Interest and Finance Charges	5.46	2.59	2.59	5.46	2.59	2.59	
Interest on Working Capital and on Consumer	58.06	10.00	10.00	58.06	10.00	10.00	
Security Deposits							
Income Tax	247.82	98.07	-	254.10	102.40	-	
Contribution to contingency reserves	61.37	64.67	63.32	62.91	67.56	65.97	
Total Revenue Expenditure	3,762.34	3,715.62	3,362.80	3,835.06	3,849.90	3,488.87	
Add: Return on Equity Capital	913.40	459.57	457.00	936.55	479.83	477.68	
Aggregate Revenue Requirement	4,675.74	4,175.19	3,819.80	4,771.61	4,329.73	3,966.55	
Less: Non Tariff Income	245.55	196.44	214.08	253.96	216.09	235.49	
Less: Income from Wheeling Charges from Goa and	61.91	181.46	181.46	61.91	199.60	199.60	
Dadra and Nagar Haveli and other sources							
Less: Income from PoC charges for Inter-State lines	178.55	55.62	55.62	178.55	5.99	5.99	
Aggregate Revenue Requirement from	4,189.73	3,741.67	3,368.64	4,277.19	3,908.05	3,525.47	
Transmission							
Add: Impact of Disallowed Capitalisation	-	55.50	-	-	-	-	
Add: Carrying Cost / (Holding Cost)	-	362.44	(109.02)	-	-	-	
Revenue Gap/(Surplus) till previous year	-	1,025.22	(393.22)	-	-	-	
Net Aggregate Revenue Requirement	4,189.73	5,184.83	2,866.40	4,277.19	3,908.05	3,525.47	

Table 156: Revised estimates of ARR for FY 2018-19 and FY 2019-20 approved byCommission (Rs. Crore)

7.14.3 The detailed analysis underlying the Commission's approval of individual ARR elements for FY 2018-19 and FY 2019-20 is already set out above, however, the variation in the ARR sought by the MSETCL and that approved by the Commission in this Order is mainly on account of lower approval of O&M expenses which excludes the escalation factor pertaining to wage revision considered by MSETCL. Further, there is cumulative impact of lower approval of capitalisation in previous years (FY 2015-16 to FY 2017-18) which impacts the depreciation, Interest on Long Term Loans and RoE approved by the Commission. Moreover, the Income Tax liability for FY 2018-19 and FY 2019-20 is Nil as computed in line with the MYT Regulations, 2015... Moreover, the revised estimates of ARR of FY 2018-19 also include past period Surplus as well as associated holding cost.

7.14.4 The Commission approves the revised estimates of ARR of Rs. 2,866.40 Crore for FY 2018-19 and Rs. 3,525.47 Crore for FY 2019-20, to be recovered through the subsequent InSTS Tariff Order.

8 EARLIER DIRECTIVES, AND COMPLIANCE STATUS

8.1 Background

8.1.1 The Commission had given certain directives to MSETCL in the MYT Order in Case No. 31 of 2016. The directives and the status of compliance are set out below.

8.2 Benchmarking of proposed costs

Directive

8.2.1 MSETCL is directed to include benchmarking of the proposed costs with the relevant PGCIL cost data along with the Cost Benefit Analysis when submitting Detailed Project Reports (DPRs) for in-principle approval of capital investment.

MSETCL's Response

8.2.2 As directed by the Commission, MSETCL is in process of studying the cost data details along with the cost benefit analysis of 400 kV projects of M/s. PGCIL, since it mostly deals with 400 kV projects, and will implement the same in the forthcoming MSETCL projects while submitting these for in-principle approval.

Commission's Observations/Ruling

8.2.3 The Commission has noted the submissions of MSETCL.

8.3 Details of 66 kV Transmission network

Directive

8.3.1 The Commission has observed that MSETCL has upgraded/eliminated 66kV network over a period of time, but, no information in this regard has been submitted by it. In absence of such information, the Commission has considered the details of Bays and Ckt. Km. as submitted by MSETCL. However, MSETCL is directed to submit the year-wise details of upgradation/elimination of 66 kV network along with its impact on the ARR elements, in the MTR Petition for the 3rd Control Period.

MSETCL's Response

8.3.2 MSETCL has submitted year wise information of elimination of the 66kV network.

Commission's Observations/Ruling

8.3.3 MSETCL's submission is noted. However, MSETCL has not submitted the impact of upgradation / elimination of the 66kV network on the ARR in this Petition. MSETCL

is directed to submit the year-wise details of upgradation/elimination of 66 kV network along with its impact on the ARR elements in the next Tariff Petition.

8.4 Re-visiting 13 schemes with negligible capitalisation

Directive

8.4.1 There are 13 schemes which were approved before March, 2011 but have negligible capitalisation in FY 2014-15 and thereafter, or are not initiated or are very old schemes which are not yet completed. The Commission has disallowed capitalisation pertaining to these schemes. MSETCL should re-visit such schemes to see they are still required or to seek revised approval.

MSETCL's Response

8.4.2 Most of these schemes are very old schemes and minor capitalization was appearing during FY 2014-15. Some of the schemes were delayed due to some severe RoW problems. Now most of the schemes are closed in the system and for all closed schemes the work is completed or short closed. The scheme wise detailed justification is submitted as a part of the Petition.

Commission's Observations/Ruling

8.4.3 The Commission notes MSETCL's submission. The Commission has dealt with the allowance / disallowance of the capitalisation claimed against these schemes in the earlier Sections of this Order.

8.5 No Capitalisation claimed for 63 schemes

Directive

8.5.1 There are 63 schemes for which there is no claim of capitalisation from FY 2014-15 to FY 2019-20.0f these, some are already completed and some others are ongoing but for which no progress is visible. The Commission has deemed all such schemes to be closed or cancelled, as the case may be, and disallowed the capitalisation towards these schemes. MSETCL should re-visit such schemes to determine their necessity and seek revised approval.

MSETCL's Response

8.5.2 Out of total 63 schemes, most of them are very old. Most of these schemes are closed in the system as the work is completed. Very few schemes are cancelled. Some of the schemes are kept on hold as they were not included in STU plan and now are considered in revised STU plan. The capitalisation claimed in FY 2014-15 is very negligible. The scheme wise detailed justification is submitted as a part of the Petition.

Commission's Observations/Ruling

8.5.3 The Commission notes MSETCL's submission. The Commission has dealt with the allowance / disallowance of the capitalisation claimed against these schemes in the earlier Sections of this Order.

8.6 DPR not submitted for schemes

Directive

8.6.1 MSETCL's capitalisation claims include 21 ongoing schemes and 126 proposed schemes for which DPRs have not been submitted for in-principle approval. The Commission has disallowed capitalisation pertaining to these schemes, for which MSETCL should first seek in-principle approval.

MSETCL's Response

8.6.2 There are two types of scheme under this reason, disallowed by the Commission. There are 29 ongoing schemes and balance schemes are proposed / projected schemes. For most of the ongoing schemes, the DPR was submitted to the Commission and the reference number of the correspondence is mentioned in the detailed explanation sheet. Some proposed schemes were under the approval process at the time of submission of the ARR Petition and the Commission's approval against those schemes was received subsequently. Also, for schemes projected for the period from FY 2017-18 to 2019-20, the DPR could not be submitted to MERC as the schemes were not prepared. The scheme wise detailed justification is submitted as a part of the Petition.

Commission's Observations/Ruling

8.6.3 The Commission notes MSETCL's submission. The Commission has dealt with the allowance / disallowance of the capitalisation claimed against these schemes in the earlier Sections of this Order.

8.7 Four Schemes initiated in MSEB period

Directive

8.7.1 4 schemes were initiated in the erstwhile MSEB period (in FY 1996-97, FY 1997-98, FY 1999-2000, FY 2002-03). Schemes pertaining to Line works in Nagpur Zone with a Board Resolution of 1996 and a 220 kV Pargaon Sub-station with Board Resolution of 1999 figure in the capitalisation claimed by MSETCL. The Commission is surprised to find that schemes initiated around twenty years ago are still under implementation. MSETCL has not provided detailed information regarding past capitalisation and assets capitalised against these schemes. Hence, the Commission has disallowed the capitalisation pertaining to these schemes. MSETCL is directed to

report their status and obtain approval of the Commission before seeking capitalisation against them.

MSETCL's Response

8.7.2 These are very old schemes but now closed in the system. The minor balance capitalisation was captured in FY 2014-15. The scheme wise detailed justification is submitted as a part of the Petition.

Commission's Observations/Ruling

8.7.3 The Commission notes MSETCL's submission. The Commission has dealt with the allowance / disallowance of the capitalisation claimed against these schemes in the earlier Sections of this Order.

8.8 Schemes not verified due to incomplete information

Directive

8.8.1 5 ongoing and 13 proposed schemes could not be verified due to incomplete information. Elementary information as required for prudence check by the Commission has not been submitted by MSETCL in respect of these schemes. Hence, the Commission has not allowed Capitalisation pertaining to these schemes. MSETCL may furnish the requisite details along with documentary evidence to substantiate its claims in subsequent Tariff Petitions for approval of Capitalisation pertaining to these schemes.

MSETCL's Response

8.8.2 The information of all of these 5 ongoing schemes is provided as a part of this Petition. Most of the schemes are now closed in the system as the work is completed. Most of the schemes out of the 13 schemes were proposed schemes and proposals for some of these are now under process, while the work for other schemes is covered in the revised STU plan. Also, there is no capitalization claimed during FY 2014-15 against these schemes. The scheme wise detailed justification is submitted as a part of the Petition.

Commission's Observations/Ruling

8.8.3 The Commission notes MSETCL's submission. The Commission has dealt with the allowance / disallowance of the capitalisation claimed against these schemes in the earlier Sections of this Order.

8.9 Utilisation of Bays

Directive

8.9.1 MSETCL should follow-up with MSEDCL for utilisation of all the Bays disallowed by the Commission.

MSETCL's Response

8.9.2 MSETCL is doing the regular follow up with MSEDCL for utilization of unutilized bays on account of which load is taken during the FY 2015-16 & FY2016-17 on a total of 183 bays. Also, there are total 696 bays earmarked for utilization (including spare bays as per MSETCL's policy i.e. 2 Nos. of bays per Sub-station for HV consumer or urgent requirement of MSEDCL) as on April, 2017. The copies of correspondence with MSEDCL are submitted as a part of the Petition.

Commission's Observations/Ruling

8.9.3 MSETCL's compliance is noted. Documentary evidence submitted in support of MSETCL's claim for follow-up with MSEDCL for utilisation of the Bays is also examined. The Commission has dealt with the allowance / disallowance of the capitalisation claimed against such Bays in the earlier Sections of this Order. However, MSETCL has not made the Commission aware about its policy of maintaining two spare bays at each Sub-station. As on date, MSETCL has more than 650 EHV Sub-stations and considering two spare bays at each sub-station, then the quantity of spares bays would exceed 1000 bays which would lead to blocking of substantial cost in such un-utilised assets. Further, there does not appear to be any urgent demand from the Distribution Licensees for Transmission infrastructure as they are also required to construct 33 / 22 kV Lines and Sub-stations to feed the consumers. Hence, MSETCL should construct additional bays on priority only in case there is a demand from the Distribution Licensees. Therefore, the Commission directs the STU to apprise the Commission regarding the exact quantum of spare / un-utilised bays of all the Transmission Licensees in the State of Maharashtra, within three months from the date of this Order.

8.10 Capex proposals regarding schemes for Distribution Licensees

Directive

8.10.1 Capex proposals submitted by MSETCL for in-principle approval in respect of schemes for use by a Distribution Licensee should henceforth be accompanied by a commitment letter from such Licensee confirming the requirement and its readiness to utilize the assets, upon completion, without delay, failing which the Commission may not accord in-principle approval to such schemes. This requirement shall not apply to schemes undertaken only for strengthening the InSTS.

MSETCL's Response

8.10.2 MSETCL has noted this directive and accordingly the new proposals for in-principle approval are being accompanied by the commitment letter from MSEDCL confirming the utilization of the assets upon its completion, without any delay.

Commission's Observations/Ruling

8.10.3 MSETCL's compliance is noted. MSETCL is directed to continue following this requirement for all such proposals in future. Moreover, henceforth, if the asset is not put to use without any valid reasons, the Commission may consider allowing the ARR on the Capital Cost of the asset depreciated for the period from the approved completion as per in-principle approval to the actual completion and put to use.

8.11 Study of best practices in Transmission

Directive

8.11.1 The Commission observes that a study which provides meaningful benchmarks and national best practices in Transmission which can be implemented in Maharashtra after State-specific customisation needs to be undertaken by MSETCL. MSETCL is directed to undertake the necessary studies and update the Commission on the status of implementation of the above identified measures as well as the study pertaining to best practises in Transmission at the time of the next Mid-term Review filing.

MSETCL's Response

- 8.11.2 MSETCL has taken-up the programme of installation of capacitor banks at EHV & HV level in a phased manner. Under the first phase, MSETCL has already added 580 MVAR of capacitive compensation and sanctioned schemes for installation of capacitor banks (PH II 705 MVAR) & (PH III 1180 MVAR). This has resulted in significant improvement in voltage profile as well as loss reduction.
- 8.11.3 With regard to the modern trends and best practices in Transmission, feasibility of use of Flexible AC Transmission System Devices (FACTS) is being studied. A team of MSETCL's engineers have already visited one such installation of static VAR compensation (SVC) of M/s Siemens. Further, possibility of installation of STATCOM is also being explored at locations where acute variation in system Voltage is experienced during Peak & Off peak hours. Furthermore, it is proposed to use HTLS conductor having low losses, as a replacement for critically loaded lines.

Commission's Observations/Ruling

8.11.4 MSETCL's compliance is noted. Further, MSETCL is directed to submit to the Commission, a detailed report covering the aspects of the study undertaken and inferences drawn from this study within three months from this Order.

9 RECOVERY OF TRANSMISSION CHARGES

As MSETCL forms a part of the InSTS, its approved ARR for FY 2018-19 and FY 2019-20 shall be allowed to be recovered through the Commission's subsequent InSTS Transmission Tariff Order in terms of the Intra-State Transmission pricing framework and as specified in the MYT Regulations, 2015.

10 APPLICABILITY OF THE ORDER

This Order on approval of the Truing-up of ARR for FY 2015-16 and FY 2016-17, Provisional Truing-up of ARR for FY 2017-18 and the revised estimates of ARR for FY 2018-19 and FY 2019-20 shall come into force from 1 September, 2018.

The Petition of the Maharashtra State Electricity Transmission Co. Ltd. in Case No. 168 of 2017 stands disposed of accordingly.



<u>Appendix – 1</u>

Sr. No.	Name of the representative	Organisation
1.	Shri Rohit Jadye	PwC
2.	Ms. Kavita Mahajan	MSETCL
3.	Shri. S. S. Rajurkar	MSETCL
4.	Shri. C. N. Bendre	MSETCL
5.	Mrs. J. N. Chimte	MSETCL
6.	Shri. M. L. Gutte	MSETCL
7.	Shri. K. D. Daware	MSETCL
8.	Shri. S. N. Suryavanshi	MSETCL
9.	Shri. S. D. Sharma	MSETCL
10.	Shri. U. P. Lanjewar	MSETCL
11.	Shri. A. R. Kelkar	MSETCL

List of persons at the pre-admittance discussion on 14 December, 2018

<u>Appendix – 2</u>

List of persons at the pre-admittance discussion on 22 February, 2018

Sr. No.	Name of the representative	Organisation
1.	Shri R Chavan	MSETCL
2.	Shri S. D. Sharma	MSETCL
3.	Shri S. S. Rajurkar	MSETCL
4.	Shri S. N. Suryawanshi	MSETCL
5.	Smt. C. N. Bendre	MSETCL
6.	Shri A. S. Kadam	MSETCL
7.	Shri Naman Hegde	PwC
8.	Shri M. L. Gutte	MSETCL
9.	Smt. Smita P. Pathare	MSETCL
10.	Shri K. D. Daware	MSETCL
11.	Shri U. P. Lanjewar	MSETCL
12.	Smt. Akshata Naik	MSETCL
13.	Shri Rohit Jadye	PwC

<u>Appendix – 3</u>

	List of persons at the rubbe mean	ig on 25 July, 2010
Sr. No.	Name of the Participant	Organisation
1	Shri Sunil Dutt Sharma	MSETCL
2	Shri Swapnil Kumre	MSETCL
3	Shri Tej Singh	MSETCL
4	Smt. J. M. Wagh	MSETCL
5	Shri S. N. Suryawanshi	MSETCL
6	Shri V. K. Sathe	MSETCL
7	Shri S. N. Bhopale	MSETCL
8	Shri A. N. Kalekar	MSETCL

List of persons at the Public Hearing on 23 July, 2018

<u>Appendix – 4</u>

List of schemes pertaining to Disallowed Capitalisation considered for analysis and approval

1. FY 2010-11 Wind Evacuation Schemes

Wind Evacuation Schemes disallowed earlier in FY 2010-11

Sr. No.	Name of Developer	Capitalisation Approved (Rs. Crore)*	Status of Approval	Year in which Capitalisation has been considered
1	Enercon India	3.20	Approved	FY 2015-16
2	Wind World (I) ltd	1.60	Approved	FY 2015-16
3	Suzlon Energy Ltd	5.26	Approved	FY 2015-16
4	Suzlon Energy Ltd	5.26	Approved	FY 2016-17
	Total	15.33		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

2. FY 2011-12: (Capitalisation claimed on utilisation of 33/22/11 kV Bays)

Sr. No.	Name of scheme	Zone	Nu	ımber bays	-	Name of Feeder/bays	Status of Approval	Year	No. of Bays	Total Amount
			33 kV	22 kV	11 kV				Approved	(Rs. Lakh)*
1	Establishment of 132/33 kV at Hiwarkhed S/S, Dist. Akola	Amravati	1	0	0	33kv Belkhed	Approved	FY 2017-18	1	18.57
2	Establishment of 132/33 kV S/S at Patur, Dist Akola	Amravati	1	0	0	33 kV Channi	Approved	FY 2016-17	1	18.57
3	Establishment of 132/33 kV	Aurangabad	1	0	0	33KV Iktuni	Approved	FY 2015-16	1	18.57
	Badnapur S/S, Dist. Jalna	Aurangabad	1	0	0	33KV Keli gawan	Disallowed		0	-
4	132 kV Soygaon S/S	Aurangabad	1	0	0	33 KV Jarandi	Approved	FY 2016-17	1	18.57

Sr. No.	Name of scheme	Zone	Nı	ımbeı bays	· of	Name of Feeder/bays	Status of Approval	Year	No. of Bays	Total Amount
			33 kV	22 kV	11 kV				Approved	(Rs. Lakh)*
5	Establishment of 132/33 kV S/Sat Mahakala, Dist. Jalna	Aurangabad	1	0	0	33kkV Chandnaappuri	Approved	FY 2015-16	1	18.57
6	Establishment of 220/132/33 kV S/S at Hingoli, Dist. Hingoli	Aurangabad	1	0	0	33kV Water Supply	Approved	FY 2016-17	1	18.57
7	Establishment of 132/33 kV S/Sat Sonpeth, Dist. Parbhani	Aurangabad	1	0	0	33kV Injegaon	Approved	FY 2016-17	1	18.57
8	Installation of additional (1 x 25 MVA, 132/33 kV) T/F capacity at 132 kV Basmat S/S	Aurangabad	1	0	0	33kV Gunda	Approved	FY 2017-18	1	18.57
9	Establishment of 220 kV S/S at Patoda, Dist. Beed	Aurangabad	1	0	0	33kV Kuslamb	Approved	FY 2016-17	1	18.57
10	Establishment of 220/132/33 kV	Aurangabad	1	0	0	33kV Waradhwadi	Approved	FY 2016-17	1	18.57
	Paranda S/S, Dist. Osmanabad	Aurangabad	1	0	0	33kV Shirala rural	Approved	FY 2016-17	1	18.57
		Aurangabad	1	0	0	33kV Jawala	Approved	FY 2016-17	1	18.57
		Aurangabad	1	0	0	33kV Anala	Approved	FY 2016-17	1	18.57
11	Establishment of 220 kV S/Sat Tuljapur, Dist. Osmanabad	Aurangabad	1	0	0	33KV Kati Feeder	Approved	FY 2016-17	1	18.57
12	Establishment of 220 kV S/Sat	Karad	1	0	0	33kV Kurni	Approved	FY 2015-16	1	18.57
	Mudhaltitta, Dist. Kolhapur	Karad	1	0	0	33kV Mudhaltita	Approved	FY 2015-16	1	18.57
13	220 kV Kagal S/S	Karad	1	0	0	33kV Mantri Metallic	Approved	FY 2015-16	1	18.57
		Karad	1	0	0	33kV Minor	Approved	FY 2015-16	1	18.57
		Karad	1	0	0	33kV Apple sponge	Approved	FY 2015-16	1	18.57

Sr. No.	Name of scheme	Zone		ımbeı bays		Name of Feeder/bays	Status of Approval	Year	No. of Bays	Total Amount
			33 kV	22 kV	11 kV				Approved	(Rs. Lakh)*
		Karad	1	0	0	33kV KOEL	Approved	FY 2015-16	1	18.57
		Karad	1	0	0	33kV Ambe	Approved	FY 2015-16	1	18.57
		Karad	1	0	0	33kV UTP	Approved	FY 2015-16	1	18.57
		Karad	1	0	0	33kV GPI	Approved	FY 2015-16	1	18.57
		Karad	1	0	0	33kV Oswal	Approved	FY 2015-16	1	18.57
		Karad	1	0	0	33kV Hupari	Approved	FY 2015-16	1	18.57
14	Installation of additional T/F in 220 kV Sawantwadi S/S	Karad	1	0	0	33kV Malewad Feeder	Approved	FY 2017-18	1	18.57
15	Replacement of existing transformers by higher capacity transformers in Kolhapur Circle	Vashi	1	0	0	33kV MIDC feeder	Approved	FY 2015-16	1	18.57
16	Establishment of 220 kV Niwali- Phata S/S Dist. Ratnagiri	Vashi	1	0	0	33kV Pali- Sakharpa Feeder	Approved	FY 2015-16	1	18.57
		Vashi	1	0	0	33kV Kotavade Feeder	Approved	FY 2015-16	1	18.57
		Vashi	1	0	0	33kV Panval Feeder	Approved	FY 2016-17	1	18.57
17	Establishment of 220 kV S/S at Bapgaon, Dist Thane	Vashi	0	1	0	22 kV Renissance Feeder	Approved	FY 2017-18	1	18.57
18	Establishment of 400/220 kV S/S at Chakan, Dist. Pune	Pune	0	1	0	22 KV Chimbli feeder	Approved	FY 2016-17	1	18.57
		Pune	0	1	0	22 KV Alandi phata feeder	Approved	FY 2015-16	1	18.57
		Pune	0	1	0	22 KV Renuka	Approved	FY 2016-17	1	18.57

Sr. No.	Name of scheme	Zone	Nu	umber bays	_	Name of Feeder/bays	Status of Approval	Year	No. of Bays	Total Amount
			33 kV	22 kV	11 kV				Approved	(Rs. Lakh)*
						feeder				
19	220 kV Yewalewadi S/S (VSNL)	Pune	0	1	0	22kV Bopkhel (Infra II)	Approved	FY 2017-18	1	18.57
		Pune	0	1	0	22kV Dhanori (Infra II)	Approved	FY 2017-18	1	18.57
20	132 kV Shirur	Pune	1	0	0	33kV Nimone	Approved	FY 2017-18	1	18.57
21	Establishment of 220/22 kV S/Sat Urse, Tal. Maval, Dist. Pune	Pune	0	1	0	22kV La-Montana	Approved	FY 2015-16	1	18.57
22	Establishment of 132/33 kV Lakhandur S/S, Dist. Bhandara	Nagpur	1	0	0	33kv KESHORI	Approved	FY 2016-17	1	18.57
23	132 kV Bharshingi, Dist. Nagpur	Nagpur	1	0	0	33 KV WATHODA	Approved	FY 2016-17	1	18.57
		Nagpur	1	0	0	33 KV THADIPAWANI	Approved	FY 2017-18	1	18.57
24	Installation of additional (1 x 25	Nagpur	1	0	0	33kV Chakpiranji	Approved	FY 2016-17	1	18.57
	MVA, 132/33 kV T/F) capacity at 132 kV Mul S/S	Nagpur	1	0	0	33kV Mul-2	Approved	FY 2016-17	1	18.57
25	Installation of additional (1 x 25	Nashik	1	0	0	1) 33kV Golegaon	Approved	FY 2016-17	1	18.57
	MVA, 132/33 kV) T/F capacity at 132 kV Bodwad S/S	Nashik	1			2) 33kV Ranjani	Approved	FY 2016-17	1	18.57
		Total Bays	39	7	0	46		Total Approved	45	835.65
								Total Approved (Rs. Crore)	45	8.36

* This is the gross capitalisation considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

3. FY 2012-13 : (Capitalisation claimed on utilisation of 33/22/11 kV Bays)

Sr No	Scheme	Zone	Nui	nber of	bays	Name of Feeder/bays	Status of Approval	Year	No. of	Total Amount
No.			33 kV	22 kV	11 kV		Арргота		Bays approved	(Rs. Lakh)*
1	220 KV Jalna	AURANGABAD	2	0	0	33KV Switching	Disallowed		-	-
						33KV Matsodari	Approved	FY 2016-17	1	18.57
2	132 KV Pishor	AURANGABAD	1	0	0	shelgaon feeder	Approved	FY 2016-17	1	18.57
3	132KV Vaijapur	AURANGABAD	2	0	0	33kv Loni	Approved	FY 2016-17	1	18.57
						33KV Talegaon	Approved	FY 2016-17	1	18.57
4	220KV Bhokar	AURANGABAD	4	0	0	33 KV Matul	Approved	FY 2015-16	1	18.57
		AURANGABAD				33 KV Bhosi	Approved	FY 2016-17	1	18.57
		AURANGABAD				33 KV Kini	Approved	FY 2016-17	1	18.57
		AURANGABAD				33 KV Bhokar	Approved	FY 2016-17	1	18.57
5	132KV Pangri	AURANGABAD	2	0	0	33kV Sangam	Approved	FY 2016-17	1	18.57
		AURANGABAD				33kV Parli Arban	Approved	FY 2015-16	1	18.57
6	220KV Paranda	AURANGABAD	4	0	0	33kV Waradhwadi	Approved	FY 2016-17	1	18.57

Sr	Scheme	Zone	Nur	nber of	bays	Name of Feeder/bays	Status of	Year	No. of	Total
No.			33 kV	22 kV	11 kV		Approval		Bays approved	Amount (Rs. Lakh)*
		AURANGABAD				33kV Shirala rural	Approved	FY 2016-17	1	18.57
		AURANGABAD				33kV Jawala	Approved	FY 2016-17	1	18.57
		AURANGABAD				33kV Anala	Approved	FY 2016-17	1	18.57
7	132Kv Raimoha	AURANGABAD	2	0	0	33 KV SAKSHALPIMPRI	Approved	FY 2015-16	1	18.57
		AURANGABAD				33 kV FULSANGVI	Approved	FY 2016-17	1	18.57
8	220KV Niwaliphata SS	KARAD	3	-	-	33kV Pali-Sakharpa Feeder	Approved	FY 2015-16	1	18.57
						33kV Kotavade Feeder	Approved	FY 2015-16	1	18.57
						33kV Panval Feeder	Approved	FY 2016-17	1	18.57
9	220 KV Khopoli (Tambati)	VASHI		1		22kV ALLana	Approved	FY 2015-16	1	18.57
10	100 KV Khopoli -	VASHI		2		22kV Lauji	Approved	FY 2017-18	1	18.57
	JBIC					22kV mulgon	Approved	FY 2016-17	1	18.57
11	Estt. of 220KV	Pune		4		22kV Jahangir Nagar-1	Approved	FY 2015-16	1	18.57
	Magarpatta	Pune				22kV Jahangir Nagar- 2	Approved	FY 2015-16	1	18.57
		Pune				22kV PMC WATERPLANTDRAINAGE	Approved	FY 2015-16	1	18.57
		Pune				22kV M/S Marvel Sigma Homes Pvt.Ltd.	Approved	FY 2015-16	1	18.57

Sr	Scheme	Zone	Nun	nber of	bays	Name of Feeder/bays	Status of	Year	No. of	Total
No.			33 kV	22 kV	11 kV	•	Approval		Bays approved	Amount (Rs. Lakh)*
12	Estt. of 220KV Khadakwasla	PUNE		8		PMC Warje Water works	Approved	FY 2016-17	1	18.57
	(Nanded city)	PUNE				Urbangram	Approved	FY 2016-17	1	18.57
		PUNE				Khadakwasala	Approved	FY 2015-16	1	18.57
		PUNE				Amit 1	Approved	FY 2015-16	1	18.57
		PUNE				Madhukosh	Approved	FY 2016-17	1	18.57
		PUNE				Rajyog	Approved	FY 2015-16	1	18.57
		PUNE				Takshshila	Approved	FY 2015-16	1	18.57
		PUNE				PMC NDA Water works	Approved	FY 2016-17	1	18.57
13	220KV Bhosari (Akurdi) SS	PUNE		1		22kV Wadmukhwadi	Approved	FY 2016-17	1	18.57
14	132KV NCL SS	PUNE		1		22kV C-DAC	Approved	FY 2016-17	1	18.57
15	220KV Virur SS	NAGPUR	1	0	0	33 kv Tohogaon	Approved	FY 2016-17	1	18.57
16	220KV Hinganghat SS	NAGPUR	1			33 KV Hinganghat 1	Approved	FY 2015-16	1	18.57
17	Aug by replace/addition under NGP Zone	NAGPUR	1			33 kV Jaitala	Approved	FY 2015-16	1	18.57
	132 kV Hingana-I	NAGPUR	1	0	0	33 kV Issali	Approved	FY 2016-17	1	18.57
		NAGPUR					Approved		-	-
		NAGPUR					Approved		-	-
18	132KV Ghatanji SS	AMARAVATI	1	nil	nil	Shiroli	Approved	FY 2015-16	1	18.57
19	132KV Pandharkawada-II SS	AMARAVATI	1			Rajurwadi	Approved	FY 2016-17	1	18.57

Sr	Scheme	Zone	Nun	nber of	bays	Name of Feeder/bays	Status of	Year	No. of	Total
No.			33 kV	22 kV	11 kV		Approval		Bays approved	Amount (Rs. Lakh)*
20	220KV Badnera SS	AMARAVATI	1			MIDC-I	Approved	FY 2015-16	1	18.57
21	220KV Dondaicha SS	NASIK	3	0	0	33KV Degav	Approved	FY 2016-17	1	18.57
		NASIK				33KV Vaidane	Approved	FY 2016-17	1	18.57
		NASIK				33KV Dondaicha Urban	Approved	FY 2016-17	1	18.57
22	132KV Manmad	NASIK	1			33 kv Manmad	Approved	FY 2015-16	1	18.57
23	132KV Taloda	NASIK	2	0	0	33KV Pratappur	Approved	FY 2015-16	1	18.57
		NASIK				33KV Khapar	Approved	FY 2016-17	1	18.57
24	220KV Shahada	NASIK	2	0	0	33KV Kudawad	Approved	FY 2016-17	1	18.57
						33KV Kudawad	Approved	FY 2016-17	1	18.57
		Total Bays	35	17	0	52	Total Approved		51	947.07
							Total Approved (Rs. Crore)		51	9.47

* This is the gross capitalisation considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

4. FY 2012-13 B – (Scheme approved in-principle during or before March 2011 for which there is negligible capitalization)

Sr. No.	MERC Approved Name	Capitalization (Rs. Crore)*	Status of the Scheme	Year of Approval
		(Its. Crore)"	Scheme	
1	1- Establishment of 132/33 kV substation at Rajur, Dist- Jalna	7.31	Approved	FY 2015-16
	2- Establishment of 220/22 kV substation at Khudus, Dist- Thane			
	3- Establishment of 220/100 kV substation at Vasai, Dist- Thane			

Sr. No.	MERC Approved Name	Capitalization (Rs. Crore)*	Status of the Scheme	Year of Approval
2	Establishment of 400/220 kV Hinjewadi substation, Dist. Pune	0.05	Approved	FY 2019-20
3	Establishment of 400/220 kV Kudus substation, dist. Thane	4.51	Approved	FY 2017-18
Total		11.87		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

5. FY 2012-13 C – (Negligible capitalization as per half yearly progress report)

Sr. No.	Name of the Scheme	Capitalization	Status of	Year of Approval
		(Rs. Crore)*	Approval	
1	Establishment of 100/22 KV Mumbra S/S, Dist-Thane	0.03	Approved	FY 2015-16
2	Establishment of 220/33 KV substation with 2x25 MVA,220/33 KV T/Fs at	0.00	Approved	FY 2015-16
	Bhalwani, DistSolapur"			
3	Establishment of 132/33 kV substation at Arni, Dist. Yavatmal	0.41	Approved	FY 2015-16
4	Establishment of 132/33 KV Sub-station at Bhusawal, Dist Jalgaon	0.11	Approved	FY 2016-17
5	Establishment of 132/33 KV Sub-station at Dharni, Dist. Amravati	0.03	Approved	FY 2016-17
	Total	0.59		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

6. FY 2012-13 D – (DPR not submitted earlier)

Sr. No.	Name of the Scheme	Capitalization (Rs. Crore)*	Status of Approval	Year of Approval
1	Rep. of equip. at 220KV Parli GCR	3.03	Approved	FY 2015-16
2	Aug of ss under Nasik Zone	-	Disallowed	

Sr. No.	Name of the Scheme	Capitalization (Rs.	Status of	Year of Approval
		Crore)*	Approval	
	Aug. of various ss under Nasik Zone by		Disallowed	
	REPLACEMENT OF T/Fs in PUNE		Disallowed	
	Aug. by replacement of T/F	14.43	Approved	FY 2015-16
	Aug by replace/addition under NGP Zone		Approved	FY 2015-16
	220KV Nalasopara		Approved	FY 2015-16
	220 KV Khopoli (Tambati)		Approved	FY 2015-16
	Total	17.47		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

7. FY 2012-13 E – (Part capitalization on account of land development, civil work etc.)

Sr.	Name of the Scheme	Capitalization	Status of	Year of
No.		(Rs. Crore)*	Approval	Approval
1	Establishment of 400/220 kV Kudus substation, dist. Thane	4.51	Approved	FY 2017-18
2	Establishment of 2 x 50 MVA, 132/33 KV Sub-station at Manegaon, Tal Sangola, Dist	0.85	Approved	FY 2016-17
	Solapur			
3	Establishment of,220/33 kV Sub-station at Vairag, Dist. Solapur	0.36	Approved	FY 2016-17
4	Establishment of 132/33 kV substation at Arni, Dist. Yavatmal	0.41	Approved	FY 2015-16
5	Establishment of 132/33 KV Sub-station at Dharni, Dist. Amravati	0.03	Approved	FY 2016-17
6	Installation of additional 4 x 167 MVA, 400/220/33 kV ICT each at 400 kV Nagothane S/S	7.00	Approved	FY 2015-16
	& 400 kV Newkoyana S/S			
Tota		13.16		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

8.	FY 2013-14 A –	(Capitalisation	claimed	on utilisation	of 33/22/11 kV Bays)
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Sr.	Name of the Scheme	Zone	Number of bays		f bays	Name of Feeder/bays	Status of	Year of	No. of	Total
No.			33				Approval	Approval Approval	Bays	Amount
			kV	kV	kV				Approved	(Rs. Lakh)*
1	220KV Deogaon- Rangari	AURANGABAD	1	0	0	33KV Devgaon Rangari	Approved	FY 2016-17	1	18.57
2	Aug of Pishor, Pathri&Satara(Deolai) ss	AURANGABAD	1	0	0	33KV Shelgaon bay	Approved	FY 2016-17	1	18.57
3	132 KV Raimoha	AURANGABAD	1	0	0	33 KV SAKSHALPIMPRI	Approved	FY 2015-16	1	18.57
		AURANGABAD	1	0	0	33 kV FULSANGVI	Approved	FY 2016-17	1	18.57
7	100KV Tambati	VASHI	0	1	0	22kV Polygamma	Disallowed		-	-
5	132KV Shirur SS	PUNE	1	0	0	33kV Nimone	Approved	FY 2017-18	1	18.57
6	220KV Tadali SS	NAGPUR	2	0	0	33KV OMTEE STEEL	Approved	FY 2015-16	1	18.57
		NAGPUR				33KV NEW TADALI	Approved	FY 2016-17	1	18.57
7	220KV Wardha-II SS	NAGPUR	1	0	0	33kV Borgaon	Approved	FY 2016-17	1	18.57
		NAGPUR	1	0	0	33 kV Sewagram 2	Approved	FY 2017-18	1	18.57
		NAGPUR	1	0	0	33 kV Hinganghat	Approved	FY 2016-17	1	18.57
8	132KV Ghodegaon SS	NASIK	1	0	0	33KV MIDC Pandharipool	Approved	FY 2015-16	1	18.57
		NASIK	1	0	0	33KV Ghodegaon	Approved	FY 2016-17	1	18.57
		NASIK	1	0	0	33KV VRS Food Ltd.	Approved	FY 2016-17	1	18.57
9	132KV Murtizapur SS	AMARAVATI	1	0	0	Kanshivini	Approved	FY 2017-18	1	18.57
10	132KV Darwah	AMARAVATI	1	0	0	33KV yard (Darwha)	Approved	FY 2015-16	1	18.57

Sr.	Name of the Scheme	Zone	Number of bays		f bays	Name of Feeder/bays	Status of	Year of	No. of	Total
No.			33	22	11		Approval	Approval	Bays	Amount
			kV	kV	kV				Approved	(Rs. Lakh)*
		Total No of Bays	15	1	0	16	Total		15	278.55
							Approved			
			•	•	•		Total		15	2.79
							Approved			
							(Rs. Crore)			

* This is the gross capitalisation considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

9. FY 2013-14 B – (Scheme approved in-principle during or before March 2011 for which there is negligible capitalization)

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Approval
1	1- Establishment of 132/33 kV substation at Rajur, Dist- Jalna	0.11	Approval	FY 2015-16
	2- Establishment of 220/22 kV substation at Khudus, Dist- Thane			
	3- Establishment of 220/100 kV substation at Vasai, Dist- Thane			
2	Establishment of 400/220 kV Hinjewadi substation, Dist. Pune	-	Disallowed	
3	Establishment of 400/220 kV Kudus substation, dist. Thane	5.82	Approval	FY 2017-18
4	Evacuation of wind energy in Nasik & Karad Zone of MSETCL in part-I	6.81	Approval	FY 2016-17
Total		12.74		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Approval
1	Establishment of 220/33 KV substation with 2x25 MVA,220/33 KV T/Fs at	0.11	Approved	FY 2015-16
	Bhalwani, DistSolapur"			
2	Installation of 125 MVAR, 400KV Bus shunt reactor bay at 400 kV Warora	9.53	Disallowed	
	substation			
3	Establishment of 132/33 KV Sub-station at Erandol, Dist. Jalgaon	1.01	Approved	FY 2017-18
4	Establishment of 132/33 KV Sub-station at Bhusawal, Dist Jalgaon	0.28	Approved	FY 2016-17
5	Establishment of 2X25 MVA, 132/33 kV substation at Rajur, Tal. Akole, Dist.	0.38	Approved	FY 2016-17
	Ahemadnagar			
Total		11.31		

10. FY 2013-14 C – (Negligible capitalization as per half yearly progress report)

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

11. FY 2013-14 D – (DPR not submitted earlier)

Sr. No.	Name of the Scheme	Capitalisation (Rs. Crore)*	Status of Approval	Year of Approval
1	Rep. of equip. at 220KV Parli GCR	0.24	Approved	FY 2015-16
2	Aug. by replacement of T/F	0.90	Approved	FY 2015-16
3	Aug by replace/addition under NGP Zone	0.88	Approved	FY 2015-16
4	Aug of ss under Nasik Zone	-	Disallowed	
5	Aug. of various ss under Nasik Zone by	-	Disallowed	
6	REPLACEMENT OF T/Fs in PUNE	-	Disallowed	
7	132KV Akola-I(Gorakshan Rd) SS	1.57	Approved	FY 2015-16
	132KV Jambazar SS		Approved	FY 2015-16
	Total	3.59		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

Sr. No.	Name of the Scheme	Capitalisation (Rs. Crore) *	Status of Approval	Year of Approval
1	Establishment of 220/132/33 KV s/s at Kopergoan District Ahmadnagar.	(0.08)	Approved	FY 2015-16
2	Establishment of 400/220 kV Kudus substation, dist. Thane	5.82	Approved	FY 2019-20
3	Establishment of 132/33 KV Sub-station at Pimpalgaon (Khadki), Tal Ambegaon, Dist. – Pune	(0.06)	Approved	FY 2015-16
4	Establishment of 2 x 50 MVA, 132/33 KV Sub-station at Manegaon, TalSangola, Dist. – Solapur	0.33	Approved	FY 2016-17
Total		6.00		

12. FY 2013-14 E – (Part capitalization on account of land development, civil work etc.)

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

13. FY 2013-14 F – (Disallowed due to Cost over-run)

Sr. No.	Name of the Scheme	Capitalisation (Rs. Crore)*	Status of Approval	Year of Approval
1	Establishment of 132 KV Nivali in Latur District.	2.14	Approved	FY 2015-16
2	Augmentation of T/F capacities in various EHV s/stns in Aurangabad Circle	1.75	Approved	FY 2015-16
Total		3.89		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

Sr.No.	Name of the Scheme	Zone	Num	Number of bays		Name of Feeder/bays	Status of	Year of	No. of Bays	Total
			33	22	11		Approval	Approval	approved	Amount
			kV	kV	kV					(Rs.
										Lakh)*
1	Estt. of 100KV Mumbra	Vashi	0	3	0	DAHISAR	Approved	FY 2016-17	1	18.57
	S/S	Vashi				UTTAR SHIV	Approved	FY 2017-18	1	18.57
		Vashi				KALYAN PHATA	Approved	FY 2016-17	1	18.57
2	Aug by replace of T/F	Vashi	0	4	0	22 kV Runwal City	Approved	FY 2016-17	1	18.57
	under Kalwa Circle (for	Vashi				22 kV Rustomjee	Approved	FY 2017-18	1	18.57
	colrchem)	Vashi				22 kV Tarangan-3	Approved	FY 2017-18	1	18.57
		Vashi				22 kV Kailas Nagar	Approved	FY 2017-18	1	18.57
3	100KV Ambernath-III	Vashi	0	1	0	22 Kv Gaikwad Pada-1	Approved	FY 2016-17	1	18.57
4	220KV Warora SS	Nagpur	1	0	0	33kV WPCL	Approved	FY 2015-16	1	18.57
5	Aug. by replacement of T/F	Nagpur	1	0	0	33 KV Spintex	Approved	FY 2016-17	1	18.57
	(Hinganghat)									
	TOTAL Bays		2	8	0	10	Total		10	185.70
							Approved			
							Total		10	1.86
							Approved (Rs.			
							Crore)			

14. FY 2014-15 : (Capitalisation claimed on utilisation of 33/22/11 kV Bays)

* This is the gross capitalisation considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
1	Evetn of Tarapur Extn	-	Approved	FY 2015 - 16
2	Evacuatn of power Uran CCCP	-	Disallowed	
3	Evacuation of Power generated by JSW	0.23	Approved	FY 2015 - 16
4	Estt. of 132kv level at 220kv Tilwani	0.08	Approved	FY 2015 - 16
5	110KV Ln fr 220KV I'Karnji-110KV Kurndwd	-	Disallowed	
6	220KV Nagothane Wadkhal line	-	Approved	FY 2015 - 16
7	220KV Wathar SS	0.33	Approved	FY 2015 - 16
8	220KV Jath SS	6.48	Approved	FY 2015 - 16
9	Estt. of 132KV Dapcheri S/S	-	Disallowed	
10	Estt. of 220 KV Palghar s/s	-	Disallowed	
11	220 kV Ichalkaranji S/S	0.16	Approved	FY 2015 - 16
12	Rplc of old BB prot scheme by Numeric BB	-	Approved	FY 2015 - 16
13	Rplc of old BB prot scheme by Numeric BB	-	Disallowed	
	Total - A	7.28		
14	ABT Metering & VSAT Commn.	-	Approved	FY 2015 - 16
15	ABT Metering & VSAT Commn.	0.52	Approved	FY 2015 - 16
16	ABT Metering & VSAT Commn.	0.31	Approved	FY 2015 - 16
17	ABT Metering System	0.21	Approved	FY 2015 - 16
18	ABT Metering System	0.01	Approved	FY 2015 - 16
19	ABT Metering System	-	Approved	FY 2015 - 16
20	ABT Metering System	0.04	Approved	FY 2015 - 16
21	ABT Metering System	0.09	Approved	FY 2015 - 16
22	LE-Repl. of old equip O&M Circle Panvel	0.32	Approved	FY 2015 - 16
23	LE-Repl. of equip 400KV RSO&M Dn Kalwa	0.09	Approved	FY 2015 - 16
24	220KV Niwaliphata SS	1.95	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
25	Estt. of 220KV Bapgaon S/S	-	Disallowed	
26	Estt. of 132kV Jawhar SS	-	Disallowed	
27	132KV Khanapur SS	-	Disallowed	
28	220KV Kondhwa (GIS)	2.07	Approved	FY 2015 - 16
29	220KV Gadchandur SS	0.07	Approved	FY 2015 - 16
30	132 KV Narsi	0.01	Approved	FY 2015 - 16
31	220 KV Khadki S/s & Parvati S/s	1.43	Approved	FY 2015 - 16
32	220 KV BHOSARI & CHINCHWAD S/S	4.26	Approved	FY 2015 - 16
33	Replac. of ICT at 400kV Khadka-Bhusaval	4.54	Approved	FY 2015 - 16
	Total - B	15.92		
34	PS to MHADA Colony at New C'pur, Ghugus	-	Disallowed	
35	Even of power-Gupta (GEPL) Usegaon,C'pur	-	Disallowed	
36	Evcn-Urjankur Tatyasaheb, Kolhapur	-	Disallowed	
37	Rep. of equip. at 220KV Parli GCR	-	Approved	FY 2015 - 16
38	Estt. of 132KV Bibvewadi	-	Disallowed	
39	220KV Rajgurunagar SS	-	Approved	FY 2015 - 16
40	132KV Mahur	-	Disallowed	
41	Estt. of 765KV at Koradi & Akola	-	Disallowed	
42	Estt. of 765KV at Koradi & Akola	-	Disallowed	
43	Estt. of 220 KV Viroda s/s	-	Approved	FY 2015 - 16
44	132kV Amdapur SS,Parbhani	-	Disallowed	
45	220KV Nalasopara	-	Approved	FY 2015 - 16
46	220KV Boisar-II	-	Approved	FY 2015 - 16
47	132KV Indapur SS	0.01	Approved	FY 2015 - 16
48	132KV Akola-I(Gorakshan Rd) SS	0.04	Approved	FY 2015 - 16
49	132KV Ahmedpur	-	Disallowed	
50	220 KV Khopoli	0.06	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
51	220KV Sunflag SS	0.00	Approved	FY 2015 - 16
52	110KV Chambukhadi SS	1.81	Approved	FY 2015 - 16
53	132KV Jambazar SS	0.05	Approved	FY 2015 - 16
54	132KV Yavat SS	0.24	Approved	FY 2015 - 16
55	Aug of ss under Nasik Zone	-	Disallowed	
57	REPLACEMENT OF T/Fs in PUNE	-	Disallowed	
58	Aug. by replacement of T/F	1.08	Approved	FY 2015 - 16
59	Aug by replace/addition under NGP Zone	0.60	Approved	FY 2015 - 16
56	Aug. of various ss under Nasik Zone by	-	Disallowed	
60	1×50 MVA, 220/33 KV transformer at 220 KV Raymond substation	-	Disallowed	
61	1 × 200 MVA, 220/132 KV transformer at 220 KV Satana substation	-	Disallowed	
62	Replacementof2x25MVA,132/33kVby2 x 50 MVA ,132/33kV power transformers at 132kV Pahur S/sby	-	Approved	FY 2015 - 16
	Total - C	3.89		
185	Repl of condr for 220kv lamboli-bale ln	0.14	Approved	FY 2015 - 16
186	100KV Bapgaon-Bhiwandi Link Line	-	Approved	FY 2015 - 16
187	132KV Ambad - 220KV Jalna SCDC Line	-	Approved	FY 2015 - 16
188	220KV Vita-Pandharpur-Lamboti LL	-	Approved	FY 2015 - 16
189	220KV Miraj-Ichalkaranji LL	-	Approved	FY 2015 - 16
190	132KV Shrigonda-Bhose LL	-	Approved	FY 2015 - 16
191	132KV Sinner-Sangamner LL	-	Approved	FY 2015 - 16
192	132KV Butibori-Khapri LL	-	Approved	FY 2015 - 16
193	132KV Saoner-Katol LL	-	Approved	FY 2015 - 16
194	132KV Bhandara-Kardha LL	-	Approved	FY 2015 - 16
195	132KV Sakoli-Kaulewada LL	-	Approved	FY 2015 - 16
196	132KV Nagpur-I - Nagpur-II LL	-	Approved	FY 2015 - 16
197	132KV Nagpur-II-Kanhan LL	-	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
198	220KV Virur-Ashti LL	-	Approved	FY 2015 - 16
199	220KV Wani-Warora LL	-	Approved	FY 2015 - 16
200	220KV Wardha-I-Yavatmal LL	-	Approved	FY 2015 - 16
201	220KV Amravati-Ambazari LL	-	Approved	FY 2015 - 16
202	220KV C'pur MIDC-C'pur-I LL	-	Approved	FY 2015 - 16
203	220KV C'pur MIDC-Gadchandur LL	-	Approved	FY 2015 - 16
204	132KV Parli-Parbhani for Gangakhed	5.39	Approved	FY 2015 - 16
205	132 KV Pardi - Sahuli SC/DC Line	-	Approved	FY 2015 - 16
206	132KV Shelu SS	-	Disallowed	
207	132KV Barshi-Takli SS	-	Disallowed	
208	220KV Sangli SS	-	Approved	FY 2015 - 16
209	132KV Tumsar SS	-	Approved	FY 2015 - 16
210	132KV Alapalli SS	-	Approved	FY 2015 - 16
211	132KV Sahuli SS	-	Approved	FY 2015 - 16
212	220 KV Narsi	-	Disallowed	
213	220 KV Pachod	-	Approved	FY 2015 - 16
214	Estt. of 220KV Dapcheri S/S	-	Approved	FY 2015 - 16
215	220KV Kondhwa SS	-	Approved	FY 2015 - 16
216	Estt. of 220KV Bhiwandi-IV -Rajlaxmi S/S	-	Approved	FY 2015 - 16
217	Estt. 100kV Agardanda SS	-	Approved	FY 2015 - 16
218	Estt. 132KV Kothali(Nagardeola) SS	0.09	Approved	FY 2015 - 16
219	132KV Waghluj dhanora (Ashti-II) SS	-	Approved	FY 2015 - 16
220	Estt. of 220 KV EON KHARADI s/s	-	Approved	FY 2015 - 16
221	132kV Bhugaon, Mulshi,Pune	-	Approved	FY 2015 - 16
222	Addnl T/F O&M Cr Pune (77/18.1.07)	1.96	Approved	FY 2015 - 16
223	110KV Atit	1.95	Approved	FY 2015 - 16
224	132KV Karangi-Akkalkot LL	-	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
	Total - D	9.53		
226	Line Works in Nagpur Zone	-	Approved	FY 2015 - 16
227	Link Lines under Nagpur Zone	-	Approved	FY 2015 - 16
228	220KV Pargaon SS	0.51	Approved	FY 2017 - 18
229	220KV Mudshingi SS	0.09	Approved	FY 2015 - 16
	Total - E	0.60		
230	220KV Ghatodi-Wani LL	-	Approved	FY 2015 - 16
231	132kV Dhanki SS,Yavatmal	-	Disallowed	
232	132KV Narsi-Mukhed SCDC Line	-	Disallowed	
	Total - F	-		
233	Bhokar Pada (ORC)	-	Disallowed	
234	Line diversion for WCL Bhatadi (ORC)	-	Disallowed	
235	33KV Electrode line diversion for WCL (-	Disallowed	
236	ORC work for water pumping scheme, Ambad	-	Disallowed	
237	ORC work for M/s Perkins India Pvt Ltd	-	Disallowed	
238	EHV line shifting under EHV OM Cir NASIK	-	Disallowed	
239	ORC-33KV Express FDR Ujani canal Barshi	-	Disallowed	
240	132 kV PS to Daund TSS & Yawat TSS, Pune	-	Disallowed	
241	ORC-Increase height 400Kv line for RVNL	-	Disallowed	
242	Divr'n 400KV S/C Loni'd-Kalwa-Padghe lin	-	Disallowed	
243	2X22kV bay220kV Chinchwad for M/S PCNDTA	-	Disallowed	
244	ORC- 33KV Express FDR Ujani canal Puluj	-	Disallowed	
245	Height raising of 66KV Tumsar-Madgi line	-	Disallowed	
246	D/E 220KV CT Breaker,Iso @ 220KV Uran	-	Disallowed	
247	220KV Tembhu LIS	-	Disallowed	
248	220KV Matradevi(Ghugus)	-	Disallowed	
	Total - G	-		

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
249	132 KV Nanduri	-	Approved	FY 2015 - 16
250	Trf,. Aug In Tr.O& M Karad Zone	0.09	Approved	FY 2015 - 16
251	110KV Kundal SS	0.07	Approved	FY 2015 - 16
252	Replacement of T/Fs under Nagpur Zone.	-	Approved	FY 2015 - 16
253	132KV Manmad SS	-	Approved	FY 2015 - 16
	Total - H	0.16		
254	220Kv Nandgaon Peth - Warud DC Line	-	Disallowed	
255	220Kv Nandgaon Peth - Anjangaon DC Line	-	Disallowed	
256	220KV S/Stn.Shenda Park 2019-20	-	Disallowed	
257	CONVERSIONOFEXISTING132kVKALE(T)-220KVWATHARLINETODCUSINGSAMEROW - 35 KM. CONVERSION OF SC TO DC. </td <td>-</td> <td>Disallowed</td> <td></td>	-	Disallowed	
258	132 KV Deoli end bay & 132 KV Seloo end bay at 220/132 KV Bhugaon (Wardha-II) s/stn	-	Disallowed	
259	132 KV Bhugaon (Wardha-II) bay at 132/33 KV Deoli S/stn	-	Disallowed	
260	Establishment of 220KV Nagpur Ringmain by U/G cable	-	Disallowed	
261	S/C to D/C conversion of Chinchwad-Nagar- Narayangaon	-	Disallowed	
262	LILO on 132 kV Chinchwad Ganeshkhind line & 2 no.feeder bay at 132 kV Rahatani SS	-	Disallowed	
263	2ND CIRCUIT STRINGING FROM 220 KV JEUR -PAREWADI LINE - 22 KM	-	Disallowed	
264	Replacement of conductor 132 kV Boisar-II-Lupin- MIDC Line	-	Disallowed	
265	Replacement of conductor 100 kV DC Line from 220 kV Padghe to 100 kV Bhiwandi High Ampacity.	-	Disallowed	
266	Replacement of Insulator strings of 400 kV Dhule-SSNNL Ckt-I&II by long rod porcelen insulator from loc no. 189-364 (69 KM)	-	Disallowed	
	Total - I	-		
267	220KV LILO on Kanhan-Umred Ln	-	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
268	132KV Gangapur-Vaijapur SCDC Line	0.12	Approved	FY 2015 - 16
269	220KV Vairag (Rev 2013-14)	0.89	Approved	FY 2016 - 17
270	220KV Mukhai	-	Disallowed	
271	220KV Parvati SS	0.12	Approved	FY 2015 - 16
	Total - J	1.13		
272	80MVAR Reactor at 400KV Karad	-	Approved	FY 2015 - 16
273	Evn of Wind Energy in Nasik/Karad Zone	-	Approved	FY 2015 - 16
274	Providing shunt capacitor in var. Zones	-	Approved	FY 2015 - 16
275	Providing shunt capacitor in var. Zones	0.43	Approved	FY 2015 - 16
276	Providing shunt capacitor in var. Zones	0.02	Approved	FY 2015 - 16
277	Providing shunt capacitor in var. Zones	-	Approved	FY 2015 - 16
278	125MVAR bus shunt reactor bay at Warora	-	Disallowed	
279	Buscond repl at Padgha s/s	1.04	Approved	FY 2015 - 16
280	220KV Lns for 400KV PGCIL SS	-	Approved	FY 2015 - 16
281	Estt. of 220KV Vasai S/S	-	Approved	FY 2015 - 16
282	132KV Jam SS	26.12	Approved	FY 2015 - 16
283	Estt. of 220KV Kudus S/S (Wada-II)	0.79	Approved	FY 2015 - 16
284	132 KV Rajur SS- (Aurangabad)	0.01	Approved	FY 2015 - 16
285	400KV Nanded	-	Approved	FY 2015 - 16
286	Estt. of 100KV Mumbra S/S	2.34	Approved	FY 2015 - 16
287	Estt. of 400KV Kudus S/S	1.43	Approved	FY 2019 - 20
288	Estt. of 400KV Kudus S/S	-	Approved	FY 2017 - 18
289	400KV Hinjewadi SS (not to use)	-	Disallowed	
290	Estt. 132KV Karkee SS	-	Disallowed	
291	Estt. of 220 KV Bhalavani S/S	2.54	Approved	FY 2015 - 16
292	400KV Hinjewadi GIS SS	-	Disallowed	
293	132KV Dharni SS	-	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
294	Estt. of 220 KV MALIKPETH s/s	-	Disallowed	
295	Estt. 132KV at Bhusawal SS	-	Approved	FY 2016 - 17
296	Estt. 132KV at Arni substation	-	Approved	FY 2015 - 16
297	220KV Sangli SS	-	Disallowed	
298	132 KV Mhaswad SS	-	Disallowed	
299	220kV Kudus/Wada-II/Bhaveghar S/S-Mod	3.10	Approved	FY 2015 - 16
300	33kV at 400kV Hinjewadi GIS SS	-	Disallowed	
301	220kV Nandgaonpeth (MIDC),AMT	-	Disallowed	
302	220KV Apta	-	Approved	FY 2015 - 16
303	220 KV Mahad	-	Approved	FY 2015 - 16
304	220 KV Ambernath-III	0.04	Approved	FY 2015 - 16
305	100 KV Patalganga	-	Approved	FY 2015 - 16
306	Aug. of 400KV Kalwa S/S	0.01	Approved	FY 2015 - 16
307	Aug of S/S under Karad Circle	-	Approved	FY 2015 - 16
308	220KV Kandalgaon	-	Approved	FY 2015 - 16
309	2nd Ckt. Stringing of 220 KV Miraj- Tilwani Line	-	Approved	FY 2015 - 16
310	132 KV Rajur SS	-	Approved	FY 2015 - 16
311	Estt. 132KV at Erandol s/s	-	Approved	FY 2015 - 16
312	400KV Jejuri-Winjhar DC Ln	-	Disallowed	
	Total - K	37.87		
313	Proc & Instl of 420 Reactor-Padge/Khrgr	-	Approved	FY 2015 - 16
314	PLCC Commn. N/wk of Data & Voice	-	Approved	FY 2015 - 16
315	PLCC Commn. N/wk of Data & Voice	-	Approved	FY 2015 - 16
316	Supply & Retrofit of old protn schemes	-	Approved	FY 2015 - 16
317	Supply & Retrofit of old protn schemes	-	Disallowed	
318	Supply & Retrofit of old protn schemes	-	Disallowed	
319	Shunt Reactor 400kV Kolhapur(Talandge)	-	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
320	400KV Bhusawal-II SS	-	Approved	FY 2015 - 16
321	LE Schems For Babhaleshwar Dn	-	Approved	FY 2015 - 16
322	LE at O&M Dn. Nasik	-	Approved	FY 2015 - 16
323	132Kv Wai - Lonand Line	-	Approved	FY 2015 - 16
324	132KV Chinchwad-Markal LL	-	Approved	FY 2015 - 16
325	132KV Phursungi-Theur LL	-	Approved	FY 2015 - 16
326	220KV Solapur-Karkamb LL	-	Approved	FY 2015 - 16
327	132KV Phaltan-Walchandnagar LL	-	Approved	FY 2015 - 16
328	132KV Shirpur from 220KV Dondaicha Ln	-	Approved	FY 2015 - 16
329	132kV DCDC Daund-Shrigonda Ln	-	Approved	FY 2018 - 19
330	220KV Amalner SS	-	Approved	FY 2015 - 16
331	220KV Alephata	-	Approved	FY 2015 - 16
332	Contrld shunt reactor(CSR) 400KV DhuleSS	-	Approved	FY 2015 - 16
333	132KV Lendra GIS SS	-	Approved	FY 2015 - 16
334	132KV Pathra	-	Approved	FY 2015 - 16
335	Estt. 132KV Bhuyar SS	-	Approved	FY 2015 - 16
336	Estt. 132KV Kothali(Nagardeola) SS	-	Approved	FY 2015 - 16
337	132 KV Pokharni SS	-	Approved	FY 2015 - 16
338	Inst & Repl 220/22/22kV Hinjewadi-II	-	Disallowed	
339	Augmentation Schemes under Nagpur Zone	-	Approved	FY 2015 - 16
340	220KV Butibori SS	-	Approved	FY 2015 - 16
341	132Kv Chakur	-	Approved	FY 2015 - 16
342	220KV Bhiwandi-II	-	Approved	FY 2015 - 16
343	400KV Parli SS	-	Approved	FY 2015 - 16
344	400KV Aurangabad (Waluj)	-	Approved	FY 2015 - 16
345	110KV Ichalkaranji SS	-	Approved	FY 2015 - 16
346	220KV Jejuri	-	Approved	FY 2015 - 16

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
347	100KV Ganeshkhind	-	Approved	FY 2015 - 16
348	132KV Kamthadi SS	-	Approved	FY 2015 - 16
349	100 KV Ambernath -JBIC	-	Approved	FY 2015 - 16
350	100 KV Thal Waishet-JBIC	-	Approved	FY 2015 - 16
351	100KV Tambati	-	Approved	FY 2015 - 16
352	220KV Chikhali SS	-	Approved	FY 2015 - 16
353	132KV Anjangaon SS	-	Approved	FY 2015 - 16
354	132KV Morshi SS	-	Approved	FY 2015 - 16
355	132KV Umerkhed-Gunj LL	-	Approved	FY 2015 - 16
356	132KV Soyegaon-Pahur Line	-	Approved	FY 2015 - 16
357	132KV Badnapur	-	Approved	FY 2015 - 16
358	v) 220KV Butibori III	-	Approved	FY 2015 - 16
359	220 kV LINK LINES CONNECTING THE SUBSTATIONS ON NAGPUR RING MAIN, viz.	-	Approved	FY 2015 - 16
360	i) 220KV Khaperkheda-Uppalwadi(U/G :13.6 ckm, O/H : 8.6ckm) (Proposed in 2018-19)	-	Approved	FY 2015 - 16
361	iv) 220 kV NEW PARDI -BUTTIBORI III D/C LINE ((To be revised beyond 2020-21) 1) M/C LINE FROM PARDI TO LOC NO 68 OF EX 132 kV LINE	-	Approved	FY 2015 - 16
362	v)220KV Butibori -Ambazari line- only stringing	-	Approved	FY 2015 - 16
363	vi) 220KV Butibori I- Butibori III	-	Approved	FY 2015 - 16
364	vii)LILO on Khaperkheda - Wardha	-	Approved	FY 2015 - 16
365	220KV Kalwan SS	-	Approved	FY 2017 - 18
366	Diversion of 220kV M/C line for Baramati Medical college and hospital through underground cable(Civil+Elect)	-	Approved	FY 2015 - 16
367	220 kV Goregaon film city (2018-19)	-	Disallowed	
368	220KV Ulwe- Node	-	Disallowed	
369	220KV Khandeshwar S/S (Panvel)	-	Disallowed	

Sr.	Name of the Scheme	Capitalisation	Status of	Year of
No.		(Rs. Crore)*	Approval	Shifting
370	Rplc of old BB prot scheme by Numeric BB	-	Disallowed	
371	Rplc of old BB prot scheme by Numeric BB	-	Disallowed	
372	Rplc of old BB prot scheme by Numeric BB	-	Disallowed	
373	T/F aug. at 220 KV Sub station Raymond	-	Disallowed	
374	Rplc of old BB prot scheme by Numeric BB	-	Disallowed	
375	132KV Yavat SS	-	Approved	FY 2015 - 16
	Total - L	-		
	Grand Total	76.38		

* This is the gross capitalisation as claimed by MSETCL and considered for analysis by the Commission. However, the Commission has approved the net capitalisation as discussed in the relevant Section of the Order.

<u>Summary of computation of previously disallowed capitalisation (for years FY 2010-11 to FY 2014-15) on Net Capitalisation</u> (depreciated cost) basis, considered for approval in this Order:

					(Rs. Crore)
Particulars	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20
Year-Wise Capitalisation considered for analysis	123.57	26.84	19.32	-	7.29
Accumulated Depreciation Till Year of Approved Capitalisation	8.37	3.81	3.23	-	1.62
Net Asset Value approved	115.21	23.03	16.09	-	5.67

<u>Appendix – 5</u>

List of Capex schemes against which capitalisation is claimed by MSETCL in FY 2015-16 to FY 2019-20 and considered for analysis and approval

Sr.	Project Definition	Scheme Name			Status			
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
1	SS/2008-09/060	220KV Deogaon-Rangari	16.79	4.23	9.18	-	-	Approved
2	SS/2008-09/061	220KV Tuljapur	17.92	3.90	1.26	-	-	Approved
3	LL/2010-11/016	220KV Malegaon-Kalwan DC Ln	-	-	36.28	7.91	-	Approved
4	LL/2010-11/011	132 KV Pardi - Sahuli SC/DC Line	-	-	-	-	-	Approved
5	LL/2010-11/013	132KV Kalwan-Satana Line	(0.01)	(0.17)	-	-	-	Approved
6	SS/2008-09/062	220KV Bhokar	19.90	5.22	-	0.08	-	Approved
7	SS/2008-09/044	220KV Bhose (Belwandi) SS	1.62	2.64	-	-	-	Approved
8	LL/2008-09/077	132KV Shrigonda-Bhose LL	0.06	-	-	-	-	Approved
9	SS/2011-12/001	Estt. of 220 KV Sakri (Shivajinagar) s/s	1.55	2.68	3.43	-	-	Approved
10	SS/2008-09/028	220KV Malegaon SS	0.08	-	91.35	-	-	Approved
11	SS/2008-09/030	220KV Anjangaon SS	-	10.39	63.26	-	-	Approved
12	SS/2008-09/069	220 KV Krishnoor	-	-	12.78	10.00	-	Approved
13	LL/2008-09/085	220KV Bhusawal- Chalisgaon LL	88.91	3.53	0.28	-	-	Approved
14	LL/2008-09/086	220KV Chalisgaon-	0.06	(0.02)	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Status				
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		Bab'war LL						
15	SS/2008-09/042	220KV Sayane SS	31.07	4.37	0.49	-	-	Approved
16	SS/2008-09/007	220KV South Solapur	1.04	0.23	-	-	-	Approved
17	SS/2008-09/067	220 KV Phulambri	16.59	9.43	4.97	-	-	Approved
18	SS/2008-09/029	220KV Nandgaon-Peth SS	52.35	6.15	5.62	-	-	Approved
19	SS/2008-09/066	132 KV Sonpeth	1.15	0.59	-	-	-	Approved
20	SS/2008-09/053	132KV Pulgaon SS	0.06	11.95	-	-	-	Approved
21	SS/2008-09/024	220KV Yewalewadi SS VSNL	0.05	1.01	(0.01)	-	-	Approved
22	SS/2008-09/058	220KV Ballarshah SS	-	44.74	5.12	-	-	Approved
23	SS/2008-09/021	220KV Kagal (Hamidwada) SS	0.87	-	0.22	-	-	Approved
24	SS/2008-09/019	220KV Mudhaltitta (Bidri) SS	6.57	0.98	3.03	-	-	Approved
25	LL/2008-09/111	220KV Wardha-II-Warora LL	-	6.46	77.11	-	-	Approved
26	LL/2010-11/007	220KV Ghatodi(Pusad)- Hingoli LL	38.14	5.12	0.87	-	-	Approved
27	SS/2008-09/057	220KV Tadali SS	5.21	4.05	-	-	-	Approved
28	SS/2008-09/022	220KV Bhosari (Akurdi) SS	0.13	0.63	0.17	-	-	Approved
29	LL/2008-09/053	220KV Solapur (400 KV Lamboti)-Karkamb LL	-	-	-	-	-	Approved
30	SS/2008-09/035	132KV Jalgaon-Jamod SS	-	35.44	20.19	-	-	Approved
31	SS/2008-09/065	132 KV Shengaon	-	-	29.71	-	-	Approved
32	SS/2008-09/005	132KV Waghdari	22.03	2.86	0.16	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status (Approved / Disallowed)
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	
33	LL/2008-09/001	220KV Khandalgaon- Dasturi Link Line	-	-	-	-	29.48	Approved
34	SS/2008-09/039	132KV Vadjire SS	-	-	-	24.00	10.00	Approved
35	SS/2008-09/054	132KV Sahuli SS	-	-	-	-	-	Approved
36	SS/2008-09/059	132KV Soygaon	3.03	0.81	0.18	-	-	Approved
37	SS/2008-09/034	132KV Deolgaon Raja SS	0.17	29.36	5.45	-	-	Approved
38	SS/2008-09/025	132KV Karajgi SS	4.46	0.11	0.01	0.30	-	Approved
39	SS/2008-09/048	132KV Morgaon-Arjuni SS	-	-	-	10.00	-	Approved
40	SS/2008-09/032	132 kV Yavatmal MIDC	-	23.02	2.97	-	-	Approved
41	SS/2008-09/045	132KV Ghargaon SS	-	-	-	14.00	-	Approved
42	LL/2008-09/057	132KV Khaparale- Sangamner LL	1.48	3.41	0.97	-	-	Approved
43	LL/2008-09/058	132KV Akole-Sangamner LL	0.01	(0.05)	-	-	-	Approved
44	SS/2008-09/071	132KV Pangri	0.12	1.98	-	-	-	Approved
45	SS/2008-09/006	Estt. of 132KV Soregaon	0.71	0.01	-	-	-	Approved
46	LL/2010-11/008	220KV Akola(Apatapa)- Balapur(MIDC) LL	1.42	1.16	-	-	-	Approved
47	SS/2008-09/047	132KV Seloo SS	6.45	0.55	-	-	-	Approved
48	LL/2008-09/088	132KV Kardha-Asangaon LL	1.24	-	-	-	-	Approved
49	LL/2008-09/059	132KV Dondaicha-Shirpur LL	-	0.93	24.27	-	-	Approved
50	LL/2008-09/094	132KV Sindewahi- Bramhapuri LL	-	-	-	0.58	0.06	Approved
51	LL/2008-09/137	132KV Shirpur from	-	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	Status			
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		220KV Dondaicha Ln						
52	LL/2008-09/065	220KV K'pur-Sawantwadi LL	0.20	0.75	0.45	-	-	Approved
53	LL/2008-09/021	132KV LL from 132KV Kalamb-220KV Paranda	0.70	0.42	-	-	-	Approved
54	LL/2008-09/030	132KV Washim-Jambazar LL	2.56	0.36	-	-	-	Approved
55	LL/2008-09/090	132KV Kalmeshwar- Hingna LL	-	-	-	3.15	0.35	Approved
56	LL/2008-09/007	132KV Gangapur-Vaijapur SCDC Line	0.63	0.24	-	-	-	Approved
57	LL/2008-09/019	132KV Parli-Parbhani for Gangakhed	0.99	0.49	-	-	-	Approved
58	LL/2008-09/035	132KV Dusarbid-Mantha LL	4.30	2.27	0.60	-	-	Approved
59	LL/2008-09/060	132KV Phaltan- Walchandnagar LL	-	-	-	-	-	Approved
60	LL/2008-09/033	132KV Daryapur- Anjangaon LL	0.10	0.01	0.11	-	-	Approved
61	LL/2008-09/044	132KV Chinchwad-Markal LL	0.48	-	-	-	-	Approved
62	LL/2008-09/032	132KV Digras-Darwah LL	0.21	0.11	-	-	-	Approved
63	LL/2008-09/017	132KV Ahmedpur-Chakur SCDC Line	12.92	0.93	-	-	-	Approved
64	LL/2008-09/072	110KV Chambukhadi-Kale	-	13.22	2.59	-	-	Approved
65	LL/2008-09/012	132KV Nilanga-Umerga SCDC Line	0.92	0.11	-	-	-	Approved

Sr.	Project Definition	Scheme Name	Capitalisation (Rs. Crores)					Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
66	LL/2008-09/043	132KV Karanjgi-Mandrup LL	0.48	-	-	-	-	Approved
67	LL/2008-09/018	132KV Purna-Basmath SCDC Line	0.25	0.30	-	-	-	Approved
68	LL/2008-09/071	110KV Karad (Ogalewadi)- Tembu	-	0.68	-	-	-	Approved
69	LL/2008-09/103	132KVLnfr132KVBhoom-220KVParanda LL	0.05	-	-	-	-	Approved
70	LL/2008-09/040	132KV Daund-Yawat LL	0.56	0.14	2.03	-	-	Approved
71	LL/2008-09/024	132Kv Wai - Lonand Line	0.77	-	-	-	-	Approved
72	LL/2008-09/092	132KV Amgaon-Amgaon TSS LL	1.48	0.13	-	-	-	Approved
73	LL/2008-09/095	132KV Kalmeshwar- Saoner LL	0.33	0.05	-	-	-	Approved
74	LL/2008-09/020	132KV Nanded-Umri (Strg. only)	0.18	0.11	-	-	-	Approved
75	LL/2008-09/022	132KV Washim- Mangrulpir LL	0.02	0.07	-	-	-	Approved
76	LL/2008-09/010	132KV Deolai - 220KV Chitegaon Line	0.58	0.01	-	-	-	Approved
77	LL/2008-09/028	132Kv Peth - Shirala SCDC Line	0.20	0.04	-	-	-	Approved
78	LL/2008-09/025	132KV Umerkhed-Gunj LL	0.01	0.02	-	-	-	Approved
79	LL/2008-09/089	132KV Butibori-Khapri LL	4.33	-	-	-	-	Approved
80	LL/2008-09/074	132KV Malegaon II(New- Malegaon I(old) LL	-	(0.02)	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
81	LL/2008-09/110	220KV C'pur MIDC- Gadchandur LL	0.72	-	-	-	-	Approved
82	LL/2008-09/105	220KV Wani-Warora LL	0.53	-	-	-	-	Approved
83	LL/2008-09/049	220KV Vita-Pandharpur- Lamboti LL	0.29	-	-	-	-	Approved
84	SS/2008-09/050	132KV Alapalli SS	-	-	-	-	-	Approved
85	LL/2010-11/010	132KV Degaon-Mandrup Ln at Soregaon SS	0.04	-	-	-	-	Approved
86	SS/2008-09/049	132KV Tumsar SS	-	-	-	-	-	Approved
87	LL/2008-09/109	220KV C'pur MIDC-C'pur- I LL	-	-	-	-	-	Approved
88	SS/2009-10/003	Estt. of 220KV Dapcheri S/S	-	-	-	-	-	Approved
89	SS/2008-09/077	132 KV Nanduri	-	-	-	-	-	Approved
90	SS/2008-09/070	220 KV Pachod	-	-	-	-	-	Approved
91	SS/2008-09/026	220KV Sangli SS	-	-	-	-	-	Approved
92	LL/2008-09/107	220KV Amravati-Ambazari LL	-	-	-	-	-	Approved
93	LL/2008-09/106	220KV Wardha-I-Yavatmal LL	-	-	-	-	-	Approved
94	LL/2008-09/104	220KV Virur-Ashti LL	-	-	-	-	-	Approved
95	LL/2008-09/099	132KV Nagpur-II-Kanhan LL	-	-	-	-	-	Approved
96	LL/2008-09/098	132KV Nagpur-I - Nagpur- II LL	-	-	-	-	-	Approved
97	LL/2008-09/097	132KV Sakoli-Kaulewada LL	-	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
98	LL/2008-09/096	132KV Bhandara-Kardha LL	-	-	-	-	-	Approved
99	LL/2008-09/079	132KV Sinner-Sangamner LL	-	-	-	-	-	Approved
100	LL/2008-09/062	220KV Miraj-Ichalkaranji LL	-	-	-	-	-	Approved
101	LL/2008-09/042	132KV Karangi-Akkalkot LL	-	-	-	-	-	Approved
102	LL/2008-09/003	100KV Bapgaon-Bhiwandi Link Line	-	-	-	-	-	Approved
103	LL/2009-10/001	Strengthg of PS to Greater Mumbai	244.32	107.39	26.98	-	-	Approved
104	LL/2010-11/020	UG Cable for various Zones	7.97	22.12	1.54	-	-	Approved
105	EV/2008-09/004	400KV Koradi-II SS	280.07	91.82	15.91	-	-	Approved
106	SS/2011-12/006	765/400KV Aurangabad-III SS (Ektuni)	166.21	100.45	2.07	-	-	Approved
107	LL/2012-13/001	Mod-MBR in 62/18 & 74/19 A'bad lines	2.64	17.37	0.18	-	-	Approved
108	SS/2009-10/012	400KV Nanded	135.72	79.56	7.37	-	-	Approved
109	SS/2009-10/007	220KV Walchandnagar SS	43.75	11.49	42.27	-	-	Approved
110	SS/2009-10/002	Estt. of 220KV Vile Bhagad S/S	5.13	30.17	3.76	-	-	Approved
111	SS/2011-12/018	220KV Kondhwa (GIS)	24.77	15.23	1.99	-	-	Approved
112	SS/2009-10/008	220KV Kondhwa SS	-	-	-	-	-	Approved
113	LL/2014-15/002	400kV Quad DC Ln Koradi-II-III	-	124.21	16.25	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved /
								Disallowed)
114	EV/2009-10/002	400KV Chandrapur-II SS	48.35	45.72	51.94	-	-	Approved
115	LL/2014-15/005	Reori.of 132kV lines at	-	6.59	3.41	3.52	-	Approved
		220kV Balapur SS						
116	EV/2007-08/001	220KV Balapur SS	2.70	0.55	-	-	-	Approved
117	SS/2010-11/011	400KV Alkud SS	0.05	98.30	18.40	-	-	Approved
118	AN/2012-13/019	125MVAR bus shunt	-	-	-	-	-	Approved
		reactor bay at Alkud						
119	SS/2010-11/015	400 KV Aurangabad- II	32.68	39.36	46.06	7.92	-	Approved
		(Tapti Tanda)						
120	LL/2014-15/006	220kV LILO on Waluj-	-	-	16.06	-	-	Approved
		Jalna at 400kV Thapt						
121	SS/2011-12/008	Estt. of 220 KV CHAKAN-	50.83	7.65	7.05	-	-	Approved
		II s/s						
122	SS/2011-12/019	220KV Loni Deokar s/s	-	52.80	10.07	9.93	-	Approved
123	SS/2007-08/027	220KV Bhokardhan	38.66	3.76	10.52	-	-	Approved
124	SS/2008-09/008	220 KV Partur SS	-	38.80	46.77	-	-	Approved
125	SS/2007-08/024	220KV Nagpur Ring Main	1.69	24.52	1.27	22.00	20.00	Approved
		SS						
126	LL/2006-07/002	LILO at Pardi and 2nd ckt	3.11	1.41	-	-	-	Approved
		stringing of Kanhan -						
		Umred -50 KM alongwith						
		1X220KV bay each at						
		220KV Kanhan & Umred						
		S/S						
127	SS/2011-12/005	132KV Dharni SS	-	29.20	8.10	-	-	Approved
128	SS/2011-12/002	Estt. of 220 KV Bhalavani	22.51	5.72	0.23	10.00	-	Approved
		S/S						

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
129	SS/2011-12/021	Estt. 132KV at Arni substation	21.18	5.62	-	-	-	Approved
130	SS/2012-13/012	220/33kV Manjarsumba ss,Beed	17.75	4.59	1.37	-	-	Approved
131	SS/2014-15/001	220kV Shirsuphal, Baramati, Pune	16.80	5.36	3.06	-	-	Approved
132	SS/2008-09/038	220KV Kopergaon SS	13.70	4.60	0.25	-	-	Approved
133	LL/2008-09/083	132KV Yeola-Kopargaon LL	0.08	2.94	0.70	-	-	Approved
134	SS/2010-11/003	Estt. of 100KV Mumbra S/S	18.77	2.48	1.16	-	-	Approved
135	SS/2010-11/008	132KV Manegaon SS	15.61	0.62	-	-	-	Approved
136	SS/2014-15/008	Estt 132/33kV Manegaon SS-Rev	-	2.16	0.69	-	-	Approved
137	SS/2004-05/007	R&M of EHV SS in Pune Urban Cr	0.03	-	-	-	-	Approved
138	EV/1993-94/001	400KV Dhabhol Evacuation PH-I&II	3.42	0.91	-	-	-	Approved
139	SS/1998-99/007	400KV Akola SS	4.04	-	0.85	-	-	Approved
140	SS/1998-99/008	Estt. of 220KV & 132KV Ring Main A'bad	2.08	-	-	-	-	Approved
141	SS/1998-99/005	220 KV Sawangi SS	0.48	-	-	-	-	Approved
142	TA/2006-07/079	132KV Mangrulpir	0.03	-	-	-	-	Approved
143	TA/2006-07/080	132 KV Lalkhedi	-	0.02	-	-	-	Approved
144	TA/2006-07/103	132 KV AUSA	0.06	0.05	-	-	-	Approved
145	TR/2006-07/021	132KV Nilanga	0.09	-	-	-	-	Approved
146	TA/2006-07/067	132KV Majalgaon	0.01	0.06	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status(Approved / Disallowed)Approved
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	· · ·
147	TA/2006-07/066	132KV Umri	-	0.03	-	-	-	Approved
148	TA/2006-07/027	220KV Bhigwan SS	0.00	-	-	-	-	Approved
149	TR/2006-07/004	Aug 132 KV at 220 KV S'pur 2 & Malinagar	0.20	0.53	-	-	-	Approved
150	TR/2006-07/013	132 KV Kalamb	0.08	-	-	-	-	Approved
151	TR/2006-07/002	Aug at 132 KV Degaon & S'pur MIDC	0.00	-	-	-	-	Approved
152	TR/2006-07/001	Aug Schemes under Pune Cr.	0.41	0.01	-	-	-	Approved
153	SS/1998-99/003	220KV Phursungi SS	-	-	-	-	-	Approved
154	TA/2006-07/006	Aug of 220KV Nerul	0.06	-	-	-	-	Approved
155	TA/2005-06/001	220KV Kolshet	0.06	-	-	-	-	Approved
156	TA/2006-07/014	220KV Mumewadi	0.08	0.05	-	-	-	Approved
157	TA/2006-07/015	220Kv Halkarni	-	0.11	-	-	-	Approved
158	TR/2006-07/032	132KV Uppalwadi	1.04	0.01	-	-	-	Approved
159	TA/2004-05/004	Augmentation Schemes under Nagpur Zone	-	-	-	-	-	Approved
160	TA/2004-05/001	132KV NCL SS	0.03	0.04	-	-	-	Approved
161	TA/2004-05/005	220KV Nalasopara	0.01	-	-	-	-	Approved
162	SS/2004-05/002	Estt. of 220KV A'Nath- II(Jhambul) S/S	1.91	-	-	-	-	Approved
163	TA/2000-01/001	220KV Dondaicha SS	0.32	-	-	-	-	Approved
164	SS/1997-98/001	220KV Beed SS	-	-	2.96	-	-	Approved
165	EV/2007-08/002	400KV Bhusawal-II SS	6.06	9.13	0.73	-	-	Approved
166	EV/2007-08/003	400KV Khaperkheda SS	1.02	-	0.98	-	-	Approved
167	LL/2009-10/007	220KV Nagothane	8.82	6.74	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		Wadkhal line						
168	SS/2013-14/013	220kV M/s Viraj Profile,Boisar,Thane	1.62	13.83	3.62	-	-	Approved
169	SS/2013-14/016	132kV Samsherpur, Nandurbar	9.89	5.50	1.39	-	-	Approved
170	SS/2011-12/025	Esta of 220/33kV SS Nerle of Panama Wind	14.54	-	-	-	-	Approved
171	AN/2011-12/008	Wind Energy Project 132/33kV Khaprale	-	-	-	-	-	Approved
172	SS/2013-14/011	132kV Gosikhurd,Bhandara- Modification	10.21	4.22	0.01	-	-	Approved
173	TA/2007-08/002	Aug of 400KV Schemes	0.00	-	-	-	-	Approved
174	TA/2007-08/005	400KV Jejuri SS	0.61	-	-	-	-	Approved
175	SS/2010-11/019	Estt. 132KV Pimpalgaon(Khadki) SS	0.25	12.44	11.26	8.05	-	Approved
176	LL/2008-09/008	EHV Link LInes in Aurangabad Zn	6.92	4.98	1.70	-	-	Approved
177	LL/2007-08/007	132KV Padegaon-Pishore Line	0.73	-	-	-	-	Approved
178	LL/2007-08/006	220KV Parli-Nanded Line	-	-	-	-	-	Approved
179	SS/2012-13/005	132 KV Rajur SS - Nasik	-	10.24	5.62	1.68	-	Approved
180	LL/2009-10/005	220KV Osmanabad-Barshi Line	1.21	1.15	-	-	-	Approved
181	SS/2009-10/013	220KV Paranda	1.84	0.01	-	-	-	Approved
182	SS/2007-08/031	220 KV Paranda SS	1.08	0.76	-	-	-	Approved
183	SS/2007-08/026	220KV Patoda	1.92	0.01	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
184	EV/2008-09/002	220KV Ghatodi SS	2.90	4.79	3.33	-	-	Approved
185	TA/2006-07/008	Addnl T/F O&M Cr Pune (77/18.1.07)	1.03	0.82	0.32	-	-	Approved
186	TA/2006-07/001	Instt. of addnl T/F at O&M Panvel	3.09	0.34	-	-	-	Approved
187	TA/2006-07/002	Instt. of addnl T/F at O&M Kalwa	1.12	-	-	-	-	Approved
188	TA/2006-07/063	220 KV Jalna	(0.01)	0.10	-	-	-	Approved
189	TA/2006-07/029	220KV Sawantwadi S/S	0.26	0.09	-	-	-	Approved
190	TA/2006-07/028	220KV Niwaliphata SS	0.14	0.01	-	-	-	Approved
191	TA/2006-07/026	220KV Kharepatan S/S	-	0.13	0.25	5.22	-	Approved
192	TA/2006-07/031	132KV Kankavali SS	0.13	-	-	-	-	Approved
193	TA/2006-07/032	110KV Talebazar SS	0.03	-	-	-	-	Approved
194	TA/2006-07/055	132KV Degloor	0.09	-	-	-	-	Approved
195	TR/2006-07/017	132KV Mantha	0.04	0.05	-	-	-	Approved
196	TR/2006-07/015	132KV Basmat	0.07	-	-	-	-	Approved
197	TA/2006-07/060	132 KV Akhada Balapur	0.03	0.01	-	-	-	Approved
198	TA/2006-07/054	132KV Himayatnagar	0.03	-	-	-	-	Approved
199	TA/2006-07/062	132KV Khultabad	0.00	0.01	-	-	-	Approved
200	TA/2006-07/100	132KV Purna	0.01	-	-	-	-	Approved
201	TA/2006-07/053	132 Kv Mukhed	0.01	-	-	-	-	Approved
202	LL/2010-11/004	220KV Lns for 400KV PGCIL SS	-	7.14	-	-	-	Approved
203	SS/2009-10/010	132KV Taharabad SS	3.10	2.19	0.01	-	-	Approved
204	SS/2008-09/012	132KV Someshwarnagar SS	0.07	0.01	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved /
								Disallowed)
205	SS/2004-05/003	Strenthening of EHV Ntwk	5.40	0.68	0.10	-	-	Approved
206	TR/2008-09/060	132 KV Ujani	3.15	-	-	-	-	Approved
207	TA/2008-09/056	132 KV Parbhani	0.01	-	-	-	-	Approved
208	TA/2008-09/051	220KV Osmanabad	0.19	-	-	-	-	Approved
209	TA/2008-09/060	132KV Kundalwadi	0.57	-	-	-	-	Approved
210	TR/2008-09/064	132 KV Killari	0.03	-	-	-	-	Approved
211	TA/2008-09/059	132KV Kinwat	0.51	-	-	-	-	Approved
212	TR/2008-09/067	132 KV Naldurg	0.11	-	-	-	-	Approved
213	TA/2008-09/062	132KV Udgir	0.03	-	-	-	-	Approved
214	TR/2008-09/066	132 KV Bhoom	0.04	-	-	-	-	Approved
215	TR/2008-09/068	132 KV Kaij	0.17	-	-	-	-	Approved
216	TR/2008-09/063	132 KV Ausa	0.17	-	-	-	-	Approved
217	TR/2008-09/051	132 KV Narsi	0.04	-	-	-	-	Approved
218	TR/2008-09/087	132kV Telgaon s/s	0.08	-	-	-	-	Approved
219	SS/2006-07/003	Estt. of 220KV Magarpatta	2.38	0.78	-	-	-	Approved
220	SS/2007-08/014	220KV Magarpatta SS	12.71	-	-	-	-	Approved
221	SS/2006-07/002	Estt. of 220KV Talegaon	0.82	1.38	0.06	-	-	Approved
222	SS/2006-07/004	Estt. of 220KV	0.27	1.90	2.49	-	-	Approved
		Khadakwasla (Nanded city)						
223	TA/2006-07/020	Add. Trf. In Tr.O& M	0.98	0.24	-	-	-	Approved
		Karad Zone						
224	TA/2006-07/007	Addnl T/F O&M Cr Karad	0.50	0.09	-	-	-	Approved
		(Pune)						
225	TA/2006-07/084	220KV Yavatmal	-	0.18	-	-	-	Approved
226	TA/2006-07/033	220KV Butibori SS	-	0.22	-	-	-	Approved
227	TA/2006-07/082	220KV Dhamangaon	-	0.03	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved /
								Disallowed)
228	TR/2006-07/008	220KV Amravati SS	-	-	-	-	-	Approved
229	TA/2006-07/092	220KV Dhule	-	0.35	-	-	-	Approved
230	TA/2006-07/104	132 KV Jalgaon MIDC SS	0.13	0.05	-	-	-	Approved
231	TA/2006-07/058	132Kv Latur Midc	0.07	0.31	-	-	-	Approved
232	TA/2006-07/057	132Kv Chakur	0.11	0.10	-	-	-	Approved
233	TA/2006-07/037	132KV Sakoli SS	0.10	0.05	-	-	-	Approved
234	TA/2006-07/059	132Kv Raimoha	0.03	0.12	-	-	-	Approved
235	TA/2006-07/095	132 KV Nardane	0.14	-	-	-	-	Approved
236	TA/2006-07/041	132KV Mul SS	0.04	-	-	-	-	Approved
237	TA/2006-07/093	132 KV Parola	(0.06)	-	-	-	-	Approved
238	TA/2006-07/081	220KV Akola-II	-	0.01	-	-	-	Approved
239	TA/2006-07/073	132KV Jambazar Washim	0.29	0.18	-	-	-	Approved
240	TA/2006-07/070	132KV Daryapur	0.26	0.21	-	-	-	Approved
241	TA/2006-07/074	132KV Motala	0.16	0.11	-	-	-	Approved
242	TA/2006-07/075	132KV Risod	0.04	-	-	-	-	Approved
243	TA/2006-07/071	132KV Digras	0.02	-	-	-	-	Approved
244	TA/2006-07/076	132KV Umarkhed	0.00	-	-	-	-	Approved
245	SS/2007-08/016	220KV Jath SS	3.56	1.26	1.60	-	-	Approved
246	LL/2010-11/006	132KV Jalgaon-	0.01	-	-	-	-	Approved
		Dharangaon Line						
247	SS/2013-14/014	132kV	0.02	4.71	11.35	3.89	-	Approved
		Chimangaon,Koregaon,Sat						
		ara						
248	EV/2005-06/001	Evctn of Tarapur Extn	2.70	-	-	-	-	Approved
249	SS/2007-08/025	220KV Shendra	1.96	0.36	-	-	-	Approved
250	SS/2007-08/019	132KV Ghatanji SS	0.39	1.41	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
251	SS/2007-08/020	132KV Patur SS	0.12	-	-	-	-	Approved
252	SS/2010-11/012	132KV Ghodegaon SS	0.14	3.90	0.69	-	-	Approved
253	SS/1996-97/001	Estt. of 220KV Dombivali- II(PAL) S/S	-	-	-	-	-	Approved
254	TR/2008-09/020	220KV Akola-II(Apattapa) SS	0.20	-	-	-	-	Approved
255	SS/2003-04/002	132KV Ganeshkhind SS	0.17	0.08	-	-	-	Approved
256	TR/2008-09/059	132 KV Georai	0.19	-	-	-	-	Approved
257	TR/2008-09/053	132 KV Tamsa	0.62	-	-	-	-	Approved
258	TR/2008-09/083	100KV Mhasala	-	-	-	-	-	Approved
259	TR/2008-09/057	132 KV Kandhar	0.84	-	-	-	-	Approved
260	TR/2008-09/028	132KV Malegaon SS	0.78	0.01	-	-	-	Approved
261	TR/2008-09/026	132KV Malkapur SS	0.06	0.08	-	-	-	Approved
262	TR/2008-09/069	132 KV Majalgaon	0.05	-	-	-	-	Approved
263	TR/2008-09/061	132 KV Raimoha	0.09	-	-	-	-	Approved
264	TA/2008-09/011	220KV Baramati MIDC SS	0.05	0.06	-	-	-	Approved
265	TR/2008-09/076	220KV Pirangut SS	0.02	-	-	-	-	Approved
266	LL/2010-11/012	220Kv LILO Mahad– Nagothne for Kandalgaon	2.14	0.66	0.57	-	-	Approved
267	SS/2009-10/015	132KV Nivali	2.33	0.47	-	-	-	Approved
268	SS/2006-07/010	220KV Hingoli	0.12	0.60	1.24	-	-	Approved
269	SS/2006-07/008	220KV Wani SS	0.11	-	-	-	-	Approved
270	SS/2007-08/022	132KV Lakhandur SS	0.59	0.12	-	-	-	Approved
271	SS/2006-07/011	132KV Badnapur	0.52	0.61	-	-	-	Approved
272	SS/2010-11/007	132KV Karmala SS	1.69	0.91	-	-	-	Approved
273	TA/2006-07/056	220KV Parvati SS	-	0.03	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
274	SS/2006-07/017	220KV Alephata	-	-	-	-	-	Approved
275	TA/2006-07/045	220KV Wardha-II (Bhugaon) SS	0.16	-	-	-	-	Approved
276	SS/2007-08/004	Estt. of 220KV Knowledge Park (Airoli)	0.78	0.07	-	-	-	Approved
277	SS/2007-08/001	Estt. of 220KV Sonkhar S/S	0.57	0.76	-	-	-	Approved
278	TA/2008-09/026	220KV Wardha-II SS	0.20	0.11	1.97	5.32	-	Approved
279	TR/2008-09/015	110KV Kavthemahankal SS	0.32	-	-	-	-	Approved
280	TA/2008-09/024	220KV Gadchandur SS	0.12	-	-	-	-	Approved
281	TA/2008-09/028	132KV Sindewahi SS	-	1.39	0.06	3.15	-	Approved
282	TR/2008-09/035	132KV Bramhapuri SS	0.01	-	-	-	-	Approved
283	TA/2006-07/003	220KV Nerul	1.91	-	-	-	-	Approved
284	LL/2012-13/002	Repl.of cond.with ACCC for Mumbai	-	1.80	0.76	-	-	Approved
285	TR/2008-09/021	220KV Chikhali SS	1.26	-	-	-	-	Approved
286	TR/2008-09/032	132KV Mehekar SS	-	-	-	-	-	Approved
287	TA/2008-09/023	132KV Gunj SS	0.20	-	-	-	-	Approved
288	TA/2008-09/035	132KV Manmad SS	0.08	-	-	-	-	Approved
289	TR/2008-09/084	132KV Morshi SS	0.05	-	-	-	-	Approved
290	TR/2008-09/030	132KV Anjangaon SS	0.04	-	-	-	-	Approved
291	SS/1988-89/001	Estt of SS under Nagpur Zone	0.76	-	-	-	-	Approved
292	SS/1995-96/001	220KV Chikhali SS	0.15	-	-	-	-	Approved
293	TA/2006-07/077	132KV Washim	0.01	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
294	SS/1998-99/004	400KV Jejuri	0.26	-	-	-	-	Approved
295	SS/2000-01/002	Upgrdn of G'Khind- Lonavala Ln to 132KV	0.01	0.24	(0.05)	-	-	Approved
296	SS/2004-05/001	Upgradation of Khopoli- Taloja-Kalwa line	0.21	-	-	-	-	Approved
297	TA/2008-09/002	Aug. of 400KV Nagothane S/S	1.60	-	-	-	-	Approved
298	TR/2008-09/004	220KV Chinchwad SS	0.16	-	-	-	-	Approved
299	TA/2008-09/016	220KV Malinagar SS	0.14	0.01	0.00	-	-	Approved
300	TA/2008-09/015	220KV Hinjewadi SS	0.01	0.04	-	-	-	Approved
301	TR/2008-09/003	220KV Hinjewadi SS	-	-	-	-	-	Approved
302	TA/2008-09/013	220KV TELCO SS	0.01	0.03	-	-	-	Approved
303	TA/2008-09/012	220KV Alephata SS	0.46	0.02	-	-	-	Approved
304	TR/2008-09/071	132KV Mundwa SS	0.00	-	-	-	-	Approved
305	TA/2008-09/006	132KV Kamthadi (Nigade) SS	0.00	-	-	7.62	-	Approved
306	TA/2008-09/008	132KV Shirur SS	0.14	0.13	-	-	-	Approved
307	TR/2008-09/074	132KV Kuradwadi SS	0.00	-	-	-	-	Approved
308	TR/2008-09/072	132KV Walchandnagar SS	0.02	-	-	-	-	Approved
309	TR/2008-09/009	132KV Indapur SS	0.11	-	-	-	-	Approved
310	SS/2008-09/015	400KV Lonikand-II SS	0.93	0.55	2.74	-	-	Approved
311	EV/2010-11/004	Evac. of power from Parli TPS (Extn)	1.17	0.13	-	-	-	Approved
312	TA/2007-08/003	400 Kv Talandge (Kop Lll)	1.16	0.04	-	-	-	Approved
313	SS/2007-08/012	132KV Karanja SS	0.00	-	-	-	-	Approved
314	SS/2007-08/006	Estt. of 100KV	0.67	0.03	-	-	-	Approved

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No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		Kolhare(Neral) S/S						
315	SS/2007-08/009	132KV Bambawade SS	0.13	0.11	-	-	-	Approved
316	SS/2007-08/032	132KV Chandwad SS	0.23	-	-	-	-	Approved
317	SS/2007-08/023	132KV Lendra GIS SS	-	-	-	-	-	Approved
318	SS/2008-09/036	132KV Pandharkawada-II SS	0.22	0.04	0.36	-	-	Approved
319	SS/2006-07/009	132KV Jam SS	0.57	0.42	-	-	-	Approved
320	LL/2010-11/005	132KV Amalner-Nardane Line	0.17	0.81	-	-	-	Approved
321	SS/2008-09/033	132KV Murtizapur SS	0.62	0.36	0.15	-	-	Approved
322	EV/2008-09/003	EVACUATION OF POWER GENERATED BY JSW	-	-	-	-	-	Approved
323	SS/2001-02/001	220KV Amalner SS	0.05	-	-	-	-	Approved
324	SS/2004-05/013	132 kV Kharda SS (Final bill)	0.05	-	-	-	-	Approved
325	SS/2004-05/006	132 KV Kundalwadi SS	0.65	0.04	-	-	-	Approved
326	TA/2009-10/016	400KV Aurangabad (Waluj)	(0.12)	0.44	0.05	0.00	-	Approved
327	TA/2009-10/015	400KV Bhusawal SS	0.26	-	-	-	-	Approved
328	TA/2009-10/009	400KV Parli SS	0.08	-	-	-	-	Approved
329	TA/2009-10/002	Aug. of conso scheme- Kharghar	0.01	0.06	-	-	-	Approved
330	SS/2006-07/001	Comprehensive scheme in Bhiwandi Circle	0.12	0.49	-	-	-	Approved
331	TA/2008-09/003	220KV Apta	0.01	-	-	-	-	Approved

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No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
332	TA/2008-09/067	220 KV Mahad	0.00	-	-	-	-	Approved
333	TR/2008-09/079	220KV Kandalgaon	-	-	-	-	-	Approved
334	TA/2008-09/069	100 KV Patalganga	0.35	-	-	-	-	Approved
335	TA/2008-09/068	220 KV Ambernath-III	0.07	-	-	-	-	Approved
336	LL/2007-08/003	EHV Link Lines at Karad Zone	0.30	0.09	-	-	-	Approved
337	SS/2007-08/008	Estt. of 400KV Chakan	-	0.37	(2.22)	-	-	Approved
338	SS/2010-11/024	Estt of 400KV Aurangabad-II SS (no use)	-	0.25	-	-	-	Approved
339	TA/2008-09/017	132KV Akola-I(Gorakshan Rd) SS	0.24	-	2.04	7.62	-	Approved
340	SS/2007-08/003	Estt. of 220KV Bhandup GIS S/S	0.14	0.05	-	-	-	Approved
341	SS/2007-08/007	Estt. of 132KV Navivess	0.24	0.19	-	-	-	Approved
342	LL/2005-06/001	Estt. of 132kv level at 220kv Tilwani	-	-	-	-	-	Approved
343	TA/2005-06/004	220 kV Ichalkaranji S/S	-	-	-	-	-	Approved
344	TR/2005-06/001	110KV Ichalkaranji SS	-	-	-	-	-	Approved
345	TA/2005-06/006	220KV Butibori SS	-	0.02	-	-	-	Approved
346	TA/2007-08/001	GIS bays at 100KV Bhiwandi-I	0.10	-	-	-	-	Approved
347	TA/2008-09/010	132KV Indapur SS	0.00	0.08	-	-	-	Approved
348	TA/2009-10/001	Aug. of 400KV Kalwa S/S	0.08	-	-	-	-	Approved
349	SS/2006-07/012	132 KV Elichpur	-	0.05	-	-	-	Approved
350	SS/2016-17/001	400kV Nashik Eklahare GIS S/Stn Mod	-	-	-	-	150.00	Approved

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No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
351	SS/2015-16/003	EST OF 220/132 KV MALKAPUR SS BULDHANA	-	-	-	84.00	10.88	Approved
352	SS/2015-16/002	220/132 kV Jalkot,Latur	-	-	-	84.00	10.19	Approved
353	SS/2016-17/010	Estt of 220/132/33kV Narangwadi s/s	-	-	-	-	92.23	Approved
354	SS/2016-17/003	Estt of 220/132/33 kV Jalna Nagewadi s/s	-	-	70.77	-	-	Approved
355	SS/2017-18/004	Estt of 220/132/33kV Nagbhid s/s	-	-	-	-	60.00	Approved
356	SS/2016-17/008	220/132/33kV Kekatnimbhora ss	-	-	-	-	54.57	Approved
357	SS/2016-17/002	Estt 220/132kV Viroda SS new	-	-	-	41.00	5.12	Approved
358	SS/2011-12/011	Estt. of 220 KV Viroda s/s	-	-	-	-	-	Approved
359	SS/2017-18/005	Estt. of 132/22kV EON Kharadi, Pune	-	-	-	-	44.82	Approved
360	SS/132CHAMORSH I	132 kV Chamorshi S/S	-	-	-	-	40.49	Approved
361	SS/2016-17/004	Establishemnt of 220kV GIS Shendra	-	-	-	-	37.22	Approved
362	SS/2016-17/007	Estt.132kV Dhadgaon ss,Nandurbar	-	-	-	24.00	3.60	Approved
363	SS/2010-11/023	132 kV Kothali S/S	-	-	-	-	34.55	Approved
364	SS/2011-12/023	LL-220kV Magarpatta S/S- 132kV Rastapeth	-	-	0.08	24.00	-	Approved
365	SS/2012-13/003	Estt. 132KV at Erandol s/s	-	-	24.13	6.08	-	Approved

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No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
366	SS/2016-17/005	Estt of 132kV Allapalli & Etapalli-Rev	-	-	-	-	29.22	Approved
367	SS/2013-14/009	132kV Kavathe-Yamai	-	0.00	21.97	3.26	-	Approved
368	LL/2016-17/003	220 kV link lines for 400 kV Kudus SS	-	-	-	25.00	2.48	Approved
369	SS/2010-11/006	132KV Nimboni SS	-	-	5.42	15.00	-	Approved
370	SS/2015-16/004	Est.132kV Ralegaon ss, Yavatmal	-	-	-	15.00	2.19	Approved
371	LL/2011-12/016	220kV ln frm 400kV Solapur PGCIL (Kum'ri)ss- Bale	-	-	0.05	10.00	-	Approved
372	AN/2013-14/022	125MVAR bus shunt reactor Karad	-	-	10.30	2.40	-	Approved
373	LL/2017-18/007	CONST OF 220KV BHOKARDHAN-132KV DHAD S/S	-	-	-	-	11.03	Approved
374	LL/2017-18/004	110KV SC LL PETH- BORGAON+ICT AT PETH	-	-	-	9.45	1.05	Approved
375	LL/2016-17/004	LILO 220KVDeoli-Ghatodi at 220KVYavatmal	-	-	-	8.40	-	Approved
376	Myt2017/LL22	LILO on 220 kV Parli- Osmanabad S/C line at Parli (PG)	-	-	-	3.02	0.34	Approved
377	Myt2017/LL21	LILO on both circuits of 220 kV Parli-Harangul line at Parli (PG)	-	-	-	3.02	0.34	Approved

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No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
378	LL/2017-18/006	132 KV LILO ON KANNAD-KAGZIPURA LINE	-	-	-	-	5.94	Approved
379	LL/2017-18/001	220kV DC line frm 400kV Jejuri to Lonand	-	-	-	4.59	0.51	Approved
380	LL/2014-15/003	Diversion of 220kV M/C line for Baramati Medical college and hospital through underground cable(Civil+Elect)	-	-	-	4.50	-	Approved
381	AN/2012-13/017	Shunt Reactor 400kV Kolhapur(Talandge)	-	-	11.05	-	-	Approved
382	SS/2016-17/009	Est 132kV level at 220kV Nandgaonpeth ss	-	-	4.55	-	-	Approved
383	LL/2008-09/091	132KV Saoner-Katol LL	-	-	-	-	-	Approved
384	AN/2014-15/029	Administrative building Nagpur	-	-	-	-	-	Approved
385	SS/2014-15/007	Esta of 132 /33 kV Mendhwan Sangamner	-	-	-	-	-	Approved
386	SS/2010-11/025	Estt. 132KV Bhuyar SS	-	-	-	-	-	Approved
387	TA/2008-09/001	Aug. 220KV Bhiwandi-II GIS S/S	-	-	-	-	-	Approved
388	TA/2008-09/071	220KV Bhiwandi-II	-	-	-	-	-	Approved
389	SS/2007-08/015	Contrld shunt reactor(CSR) 400KV DhuleSS	-	-	0.79	-	-	Approved
390	TA/2005-06/005	220KV Tembhurni SS	-	-	-	-	-	Approved
391	AN/2007-08/007	Evn of Wind Energy in	-	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		Nasik/Karad Zone						
392	SS/2010-11/022	Estt. 100kV Agardanda SS	-	-	-	-	-	Approved
		To be considered as 220						
		KV Dighi (Raigad)						
393	SS/2012-13/004	132 KV Pokharni SS	-	-	-	-	-	Approved
394	SS/2011-12/007	132KV Waghluj dhanora	-	-	-	-	-	Approved
		(Ashti-II) SS						
395	SS/2013-14/002	220 KV Manor S/stn	-	-	-	-	-	Approved
396	LL/2016-17/005	220kV Lines of Nagpur	-	-	-	-	-	Approved
		RingMain BR 112/12						
397	SS/2017-18/001	220/132 kV Kurunda s/s	-	-	-	-	-	Approved
		(GIS)						
398	LL/2017-18/003	Cable frm 220kV Parvati	-	-	-	-	-	Approved
		to132kV Kothrud						
399	SS/2014-15/006	132kV Bhugaon,	-	-	-	-	-	Approved
		Mulshi,Pune						
400	SS/2010-11/002	Estt. of 220KV Bhiwandi-	-	-	-	-	-	Approved
		IV -Rajlaxmi S/S						
401	AN/2015-16/029	Shifitng 220kV lines Navi	-	-	22.41	-	-	Approved
		Mum I Airport						
402	SS/2010-11/013	Estt. 220KV Jalna-MIDC	-	-	-	-	12.00	Approved
		(Nagewadi) SS						
403	SS/2010-11/014	132KV Pathra	-	-	-	-	-	Approved
404	AN/2010-11/018	Nashik Administrative	0.18	0.01	-	-	-	Approved
		Bldg						
405	LL/2011-12/010	LILO on 132kV Shahda-	-	-	-	-	-	Approved
		Taloda 2nd Circuit						

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
406	SS/2011-12/024	Estt.132KV Sarola s/s	-	-	-	-	-	Approved
407	SS/2011-12/020	Estt. of 220 KV EON KHARADI s/s	0.00	-	-	-	-	Approved
408	SS/2009-10/004	220KV Kadegaon SS	0.66	-	-	-	-	Approved
409	SS/2009-10/014	132KV MAHAKALA	(0.83)	0.70	-	-	-	Approved
410	LL/2008-09/009	132KV Ambad - 220KV Jalna SCDC Line	-	-	-	-	-	Approved
411	SS/2008-09/013	220KV Rajgurunagar SS	-	-	-	-	-	Approved
412	LL/2008-09/056	220KV Ghatodi-Wani LL	-	-	-	-	-	Approved
413	Myt2017/LL61	132 kV Sicom - Mul	-	-	-	-	7.88	Approved
414	LL/2017-18/002	400kVDC frm PGCIL Shikrapur-Lonikand-II	-	-	-	-	-	Approved
415	SS/220Adwadi(Sinna r)	220 kV Adwadi (Sinnar)	-	-	-	-	87.70	Approved
416	SS/132Sinnar(Shaha)	132 kV Shaha) S/S	-	-	-	-	49.15	Approved
417	Myt2017/LL67	220 kV Lonideokar - Tembhruni line	-	-	-	-	22.49	Approved
418	Myt2017/LL26	132 kVAmbheri (Wind) - AundhSCDC line	-	-	-	15.00	2.10	Approved
419	Myt2017/LL18	132 KV Wani - Pandharkawada D/c line	-	-	-	10.00	1.34	Approved
420	Myt2017/LL24	LILO on one ckt of 132 kV Ambad – Ghansawangi D/c line at 220 kV Partur.	-	-	-	10.00	1.32	Approved
421	Myt2017/LL57	132 kV Oglewadi –Kundal (Kirloskarwadi) at	-	-	-	-	6.93	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		Kadegaon line						
422	Myt2017/LL66	LILO on 132kV Indapur- Ujani at 220kV Lonideokar	-	-	-	-	3.96	Approved
423	Myt2017/LL14	LILO on 132 kV Theur- Sanaswadi and Theur - Markal line on MC towers.	-	-	-	2.20	-	Approved
424	LL/2016-17/002	220kV LILO Borivli- Boisar at Boisar PG	-	-	-	1.68	-	Approved
425	Myt2017/LL4	132 kVD/ClinefromGarware (EHV Consumer)to Bajaj (EHV consumer)	-	-	-	1.32	-	Approved
426	Myt2017/LL13	LILO of 132 KV Ganeshkhind Pawane at 132 KV Rahatani	-	-	-	0.11	-	Approved
427	Myt2017/LL3	132kV Shendra - Chikaltahna line	-	-	-	-	-	Approved
428	Myt2017/LL23	LILO on one ckt of Padegaon –Paithan DC line at 220 kV Chitegaon.	-	-	-	-	-	Approved
429	Myt2017/LL2	Interlink of Waluj- Padegaon with Padegaon- Sawangi	-	-	-	-	-	Approved
430	LL/1997-98/001	Link Lines under Nagpur Zone	2.85	-	-	-	-	Approved
431	LL/1996-97/001	Line Works in Nagpur Zone	-	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
432	TR/2002-03/001	220KV Mudshingi SS	-	-	-	-	-	Approved
433	SS/2004-05/009	132KV Velapur s/s	-	0.02	-	-	-	Approved
434	SS/2006-07/006	Establishment of 220/33KV	-	0.06	-	-	-	Approved
		<u>at Wathar S/S Dist.</u> <u>Kolhapur.</u>						
435	SS/2007-08/011	132KVRajurSS(Aurangabas zone)	-	0.82	-	-	-	Approved
436	SS/2009-10/005	132KV Shankarnagar SS	-	0.65	-	-	-	Approved
437	SS/2009-10/017	132 KV Ardhapur SS	-	0.06	-	-	-	Approved
438	TR/2017-18/001	Rep. of T/Fs &33kV Level creation,Wardha	-	-	-	-	15.78	Approved
439	TR/2016-17/002	Add. & Replace of T/Fs under Karad Zone	-	0.04	-	10.00	6.00	Approved
440	TR/2016-17/001	Aug. by add. & replace under Pune Zone	-	-	-	5.00	7.10	Approved
441	TR/2014-15/003	Replacement of T/Fs under Nagpur Zone.	2.35	2.44	-	10.00	-	Approved
442	TR/2012-13/011	Replac./Addition of T/F , Kolhapur circle	4.19	10.53	0.14	8.38	-	Approved
443	TR/2012-13/010	Aug by replace/addition under Vashi Zone	0.05	2.81	0.15	-	-	Approved
444	TR/2012-13/009	Replacement of T/F at 220kV Nalasopara	0.84	1.32	0.19	-	-	Approved
445	TR/2012-13/008	Aug by replace of T/F under Kalwa Circle	9.97	0.46	0.12	2.53	-	Approved
446	TR/2012-13/007	Replac. of ICT at 400kV Khadka-Bhusaval	0.33	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
447	TR/2012-13/004	AugofPishor,Pathri&Satara(Deolai) ss	-	-	-	-	-	Approved
448	TR/2012-13/003	Aug. by replacement under Aurangabad Zon	0.09	-	-	-	-	Approved
449	TR/2011-12/009	220 KV KANHAN S/S, 132KV MOUDA & PARDI	0.18	0.22	-	-	-	Approved
450	TR/2011-12/003	220 KV BHOSARI & CHINCHWAD S/S	1.12	0.01	-	-	-	Approved
451	TR/2011-12/002	220 KV Khadki S/s & Parvati S/s	0.62	-	-	-	-	Approved
452	TR/2007-08/134	100 KV Thal Waishet-JBIC	-	-	-	-	-	Approved
453	TR/2007-08/125	220 KV Borivali-JBIC	0.03	-	-	-	-	Approved
454	TR/2007-08/123	100 KV Ambernath -JBIC	-	-	-	-	-	Approved
455	TR/2007-08/113	132KV Sakri	-	0.06	-	-	-	Approved
456	TR/2007-08/105	132KV Ambad	0.25	-	-	-	-	Approved
457	TR/2007-08/091	220KV Chalisgaon	0.01	0.10	-	-	-	Approved
458	TR/2007-08/090	220KV Dhule	-	-	-	-	-	Approved
459	TR/2007-08/072	132KV Mangalwedha	0.38	-	-	-	-	Approved
460	TR/2007-08/067	220KV Barshi	1.00	-	-	-	-	Approved
461	TR/2007-08/066	220KV Pargaon(Kathapur)	-	-	-	-	-	Approved
462	TR/2007-08/065	220KV Ranjangaon	0.01	-	-	-	-	Approved
463	TR/2007-08/049	110KV Puluj	0.00	-	-	-	-	Approved
464	TR/2007-08/047	100KV Ganeshkhind	-	-	-	-	-	Approved
465	TR/2007-08/044	132KV Shirur	0.02	-	-	-	-	Approved
466	TR/2007-08/042	132KV Kuruli	0.00	-	-	-	-	Approved
467	TR/2007-08/041	220KV Jejuri	-	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
468	TR/2007-08/040	220KV Baramati	-	-	-	-	-	Approved
469	TR/2007-08/016	132 KV Boisar I (MIDC) - JBIC	-	-	-	-	-	Approved
470	TR/2007-08/009	220 KV Padghe -JBIC	0.14	-	-	-	-	Approved
471	TR/2007-08/002	220 KV Trombay -JBIC	0.30	-	-	-	-	Approved
472	TR/2007-08/001	220 KV Kalwa - JBIC	0.10	-	-	-	-	Approved
473	TR/2007-08/063	132KV Kamthadi SS	0.49	-	-	-	-	Approved
474	TR/2007-08/068	220KV Jeur	0.93	-	-	-	-	Approved
475	TA/2017-18/004	Add. of ICTs at 2Nos. of S/s, Pune Zone	-	-	-	10.00	44.51	Approved
476	TA/2017-18/003	Add. of T/Fs at 2Nos. of S/s, Nasik Zone	-	-	-	-	10.60	Approved
477	TA/2016-17/006	Aug. by add. & replace under Vashi Zone	-	-	4.34	1.66	40.00	Approved
478	TA/2016-17/005	Add. & Replace of T/Fs under Aurangabad	-	-	6.29	3.71	30.00	Approved
479	TA/2016-17/004	Add. & Replace of T/Fs under Nagpur Zone	-	-	2.23	7.77	20.00	Approved
480	TA/2015-16/012	Addition/replacement of ICTS,Nasik Zone	-	3.63	6.28	10.00	22.00	Approved
481	TA/2015-16/008	Augmentation by addition of 3x105 MVA, 400/220/33 KV ICT at 400 kV Akola S/s	-	9.35	1.91	15.00	4.00	Approved
482	TA/2015-16/006	Augmentation scheme at various substations under Amravati Zone	-	-	4.50	20.00	2.00	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status (Approved / Disallowed)
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	
483	TA/2015-16/005	Aug by addi & replace. T/F , Nashik Zone	-	3.25	4.45	20.00	43.46	Approved
484	TA/2015-16/004	Aug by addition & replace.T/FPuneZone.1)132kVBawada2)132kVWhirlpoolReplacementof2x25MVA, 132/33kVT/Fs at 132kVBawada S/S	-	-	3.60	1.40	5.33	Approved
485	TA/2015-16/003	Aug.by additional T/Fs under Vashi Zone	-	4.77	1.76	3.94	-	Approved
486	TA/2015-16/002	3x167 MVA, 400/220 KV ICT at 400 kV RS kalwa S/s	-	-	0.97	16.00	13.00	Approved
487	TA/2015-16/001	Additional ICT at 400kV Babhaleshwar S/s	-	8.23	2.57	26.00	-	Approved
488	TA/2013-14/004	Additional T/f at 220kV Pal Dombivali	8.73	0.55	-	-	-	Approved
489	TA/2012-13/005	Aug of S/S under Karad Circle	0.88	2.55	9.87	9.00	-	Approved
490	TA/2012-13/004	Aug by replace/addition under Pune zone	1.99	7.99	0.16	15.00	-	Approved
491	TA/2011-12/009	220KV SERUM S/S	4.50	0.34	-	-	-	Approved
492	TA/2008-09/048	400KV Bab'war & Dhule SS	1.09	-	-	-	-	Approved
493	TA/2011-12/013	132 KV Satpur MIDC s/s,	0.08	0.06	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status (Approved / Disallowed)
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	
		District-Nashik						
494	TA/2011-12/006	Aug 400 Kv S/Stn Padghe	1.05	0.25	-	-	-	Approved
495	TA/2010-11/002	Procurement of spare ICTs for MSETCL for Nasik Zone	7.49	-	-	-	-	Approved
496	LE/2008-09/023	Rep. of equipts at O&M Cr. Aurangabad	-	-	-	-	-	Approved
497	LE/2008-09/019	LE 11KV I/D to O/DSwgr for 66KV S/S	0.02	-	-	-	-	Approved
498	LE/2008-09/018	LE 11KV I/D to O/DSwgr Bhandara Dn	0.03	-	-	-	-	Approved
499	LE/2008-09/017	LE 11KV I/D to O/D Swgr Nagpur Dn	0.00	0.01	-	-	-	Approved
500	LE/2008-09/016	LE Tr. O&M Dn Amaravati	0.43	-	-	-	-	Approved
501	LE/2008-09/015	LE Tr. O&M Dn Akola	2.27	0.03	0.36	-	-	Approved
502	LE/2008-09/008	LE for Trans O&M Dn Ratnagiri	0.08	-	-	-	-	Approved
503	LE/2007-08/009	LES for 11KV I/D To O/D Switchgear	0.01	-	-	-	-	Approved
504	LE/2007-08/005	LE 220kv Ichalkaranji I/D- O/D Swgr	0.40	0.05	-	-	-	Approved
505	LE/2017-18/005	2nd Ckt.Stringing underAurangabad Circle	-	-	-	-	-	Approved
506	LE/2017-18/004	2nd Ckt.Stringing under Parli Circle	-	-	-	-	-	Approved
507	LE/2017-18/003	2nd Ckt. stringing under Akola & Amravati	-	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
508	LE/2017-18/002	2nd Ckt. stringing under Bhusawal Circle	-	-	-	-	-	Approved
509	LE/2017-18/001	2nd Ckt. stringing under Nashik	-	-	-	-	-	Approved
510	LE/2016-17/007	Rep of cond by HAC Abd jalna- Midc	-	-	-	-	-	Approved
511	LE/2014-15/005	Rep of Disc insulators of 400kV Lines	2.08	6.05	-	2.00	-	Approved
512	LE/2012-13/016	Rep of cond,E/W,Disc insu,re-earthing work of lines in,Rattnagiri Dn.	-	-	-	14.00	9.00	Approved
513	LE/2012-13/003	Life Extension scheme for replacement of old equipments at various EHV sub-stations under EHV O&M division Beed.	3.22	0.33	-	-	-	Approved
514	LE/2011-12/019	Rep of 66kV & 220/132kV Eqp Chndpur cl	-	0.00	-	-	-	Approved
515	LE/2010-11/014	Repl of SS materials under JAICA phse-II	2.09	1.42	0.01	-	-	Approved
516	LE/2010-11/013	LE-Repl. of equip 400KV RSO&M Dn Kalwa	0.02	-	-	-	-	Approved
517	LE/2010-11/004	Conv'sn of 11KV I/Dto O/D Switchgear(Pune)	0.71	0.05	-	-	-	Approved
518	LE/2010-11/001	LE-Repl. of old equip O&M Circle Panvel	0.01	-	-	-	-	Approved
519	LE/2008-09/025	LE Schems For	0.00	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		Babhaleshwar Dn						
520	LE/2007-08/008	LE scheme for Trans. O&M Dn Parbhani	0.31	-	-	-	-	Approved
521	LE/2004-05/006	R&M of 220KV Chinchwad SS	0.25	6.57	3.47	-	-	Approved
522	LE/2004-05/005	R&M schemes in O&M Pune Cr	0.09	-	-	-	-	Approved
523	LE/2002-03/001	LE for various EHV S/S & Lns	-	-	-	-	-	Approved
524	LE/2000-01/001	Rep. of existing equip. in Amravati Zn	0.18	-	-	-	-	Approved
525	LE/2008-09/028	Repl. of various SS Eqp. under O&M Latur	0.05	-	-	-	-	Approved
526	LE/2008-09/022	Repl. of eqip. under O&M Dn Latur	0.40	-	-	-	-	Approved
527	LE/2006-07/002	LE Repl of Eqpts Tr. O&M Cr Amaravati	0.07	-	-	-	-	Approved
528	LE/2010-11/009	Repl of old equip. at 400KV Chandrapur	-	-	-	-	-	Approved
529	LE/2009-10/009	Conversion of 220kV Isolator from double break to single break	-	0.43	-	-	-	Approved
530	LE/2008-09/034	Repl. of old BBP schemes in Nasik Zone	-	-	-	-	-	Approved
531	LE/2008-09/031	Repl of BBP scheme at Kalwa	-	-	-	-	-	Approved
532	LE/2008-09/029	Repl. of old BBP scheme at	0.20	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		Parli						
533	LE/2013-14/015	Rplc of old BB prot scheme by Numeric BB	0.05	0.44	4.02	-	-	Approved
534	AN/2016-17/039	Const. of 68 nos. new 33kV bays,Abd zone	-	-	-	12.00	13.42	Approved
535	AN/2016-17/037	Addition of 54 nos. 33kV bays,Nsk zone	-	-	0.85	10.00	12.61	Approved
536	AN/2016-17/027	Busbar Protection Schemes for 400 kV S/s	-	-	-	6.00	4.46	Approved
537	AN/2013-14/013	Hybrid Switchgear for Nagpur zone	-	-	8.00	4.83	-	Approved
538	AN/2010-11/022	Instll. of Ni Injection System in All Zones.	0.26	0.43	-	-	-	Approved
539	AN/2010-11/008	Supply & Retrofit of old protn schemes	0.05	-	-	-	-	Approved
540	AN/2009-10/024	Even of power-Gupta (GEPL) Usegaon,C'pur	-	-	-	-	-	Approved
541	AN/2008-09/021	Retrofit of old Distance Relay by Numrcl relays	0.05	0.02	0.01	-	-	Approved
542	AN/2008-09/002	Providing shunt capacitor in var. Zones	(0.20)	(0.21)	-	-	-	Approved
543	AN/2007-08/003	PLCC Commn. N/wk of Data & Voice	0.14	-	-	-	-	Approved
544	AN/2007-08/002	ERP & MIS	-	-	-	-	-	Approved
545	AN/2007-08/001	RTU SCADA & DC	0.87	0.26	0.59	-	-	Approved
546	AN/2006-07/003	Substation Monitoring System	0.81	0.04	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
547	AN/2006-07/002	Proc & Instl of 420 Reactor-Padge/Khrgr	0.01	-	-	-	-	Approved
548	AN/2006-07/001	ABT Metering System	0.03	0.09	-	-	-	Approved
549	AN/2005-06/002	80MVAR Reactor at 400KV Karad	-	0.40	-	-	-	Approved
550	AN/2005-06/001	ABT Metering & VSAT Commn.	0.17	-	-	-	-	Approved
551	AN/2015-16/037	Const. of 27 nos new 33kV bays,Amt zone	-	-	-	-	-	Approved
552	AN/2015-16/026	Shifting of Reactor at 400kV Chandrapur	-	-	9.75	-	-	Approved
553	AN/2016-17/026	33kV Capacitor bank at Bhusawal CircleP2	-	-	0.66	-	-	Approved
554	AN/2016-17/025	33kV Cap Bank Nashik Circle P2	-	-	1.83	-	-	Approved
555	SS/1999-00/003	220 kV Satara MIDC S/S	-	-	-	-	-	Approved
556	AN/2012-13/010	Installation of 125 MVAR 400 KV Bus Shunt Reactor bay at 400 KV Solapur (Lamboti) Substation	-	-	13.30	-	-	Approved
557	TA/2017-18/005	AUG BY ADD OF T/F AT WAI SS KARAD	-	-	-	-	-	Approved
558	LL/2016-17/008	LILO-Parli- Harangul&Parli-Osmanabd	-	-	-	-	-	Approved
559	LL/2017-18/009	Ambheri-Aundh 132kV SCDC Line	-	-	-	-	-	Approved
560	SS/2017-18/006	132kV Chamorshi	-	-	-	-	-	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status (Approved / Disallowed)
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	
		SS,Gadchiroli						
561	SS/2017-18/007	132 kV Sicom - Mul	-	-	-	-	-	Approved
562	SS/2017-18/009	Estt. 132kV Kothali (Nagardeola)-Rev&Mod	-	-	-	-	-	Approved
563		Lilo-Ambad-Ghansawali DC Line at 220 kV Partur	-	-	-	-	-	Approved
564		Lilo-132kV Indapur - Ujani at 220 kV Lonideokar	-	-	-	-	-	Approved
565	LL/2008-09/064	220KV Karad-Koyna LL	-	37.83	-	-	-	Approved
566	SS/2013-14/001	220kV Kudus/Wada- II/Bhaveghar S/S-Mod	21.66	4.80	0.81	-	-	Approved
567	SS/2007-08/005	Estt. of 220KV Kudus S/S (Wada-II)	1.76	-	-	-	-	Approved
568	SS/2005-06/001	Estt. of 220KV Vasai S/S	-	-	-	-	-	Approved
569	TA/2016-17/001	Add. ICT at 400kV Jejuri Pune zone	-	-	17.58	3.50	10.00	Approved
570	SS/2008-09/041	220KV Kalwan SS	-	-	3.45	-	-	Approved
571	SS/2008-09/055	132KV Bharsingi SS	-	-	24.95	-	-	Approved
572	LL/2008-09/068	110KV Ln fr 220KV O'wadi-110KV Mayni	-	-	-	6.80	-	Approved
573	LL/2008-09/125	132Kv Kankawali- Kudal Line	-	-	-	2.18	0.22	Approved
574	SS/2010-11/016	220KV Vairag (Rev 2013- 14)	-	29.27	8.03	2.52	-	Approved
575	SS/2011-12/017	Estt. 132KV at Bhusawal SS	-	17.47	1.64	-	-	Approved
576	SS/2010-11/004	Estt. of 400KV Kudus S/S	-	-	-	-	163.68	Approved

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status (Approved / Disallowed)
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	
577	LL/2010-11/019	LL from 400kV PGCIL - 220kV Hinjewadi-II	-	-	-	20.77	4.80	Approved
578	TA/2008-09/014	220KV Theur SS	-	-	4.42	3.20	-	Approved
579	LL/2011-12/007	132 KV DCDC Daund - Shirgonda LL	-	-	-	12.87	-	Approved
580	SS/2008-09/046	132KV Jat-tarodi SS	-	-	-	-	12.60	Approved
581	SS/2015-16/005	Estt.of 220/33kV s/s at Ner	-	-	-	24.01	3.99	Approved
582	TR/2015-16/003	3x167 MVA, 400/220 KV ICT at 400 kV Padghe S/s	-	-	8.03	20.00	9.93	Approved
583	TR/2008-09/073	132KV Yavat SS	1.04	-	-	-	-	Approved
584	LE/2011-12/017	Life Extension scheme for replacement of old equipments at various EHV sub-stations under EHV O&M division, Latur	-	6.09	-	7.00	-	Approved
		Approved Total	1,843.35	1,521.82	1,140.35	920.04	1,360.00	
585	SS/2013-14/008	33kV at 400kV Hinjewadi GIS SS	-	-	-	-	-	Disallowed
586	EV/2009-10/001	400KV Warora SS	14.19	8.11	0.40	0.70	-	Disallowed
587	TA/2008-09/066	132KV Ahmedpur	0.05	-	-	-	-	Disallowed
588	AN/2012-13/007	125MVAR bus shunt reactor bay at Warora	1.06	0.48	-	-	-	Disallowed
589	SS/2013-14/005	Inst & Repl 220/22/22kV Hinjewadi-II	-	0.77	0.87	-	-	Disallowed
590	SS/2013-14/020	132kV Shiradwad GIS,Kolhapur-Rev	0.24	0.28	-	-	-	Disallowed
591	SS/2007-08/002	Estt. of 220KV Bapgaon	0.06	0.07	0.51	-	-	Disallowed

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
		S/S						
592	SS/2010-11/010	Estt. of 220 KV Palghar s/s	0.12	-	-	-	-	Disallowed
593	SS/2013-14/022	Estab. of 132 kV Kanashi SS	0.06	-	-	-	-	Disallowed
594	SS/2010-11/001	Estt. of 132KV Dapcheri S/S	0.04	-	-	-	-	Disallowed
595	SS/2014-15/005	132KV LEVEL AT 400KV LONIKAND SS,PUNE	0.01	-	-	-	-	Disallowed
596	LL/2008-09/114	132KVNarsi-MukhedSCDC Line	1.13	0.10	-	-	-	Disallowed
597	SS/2008-09/004	Estt. of 132KV Bibvewadi	0.63	-	-	-	-	Disallowed
598	SS/2009-10/016	132KV Mahur	0.01	-	-	-	-	Disallowed
599	SS/2013-14/023	Establishment of 220/22kV GIS s/s at EON	-	0.22	-	-	-	Disallowed
600	TA/2012-13/001	Aug. of various ss under Nasik Zone by	6.95	7.02	-	-	-	Disallowed
601	TA/2011-12/014	Aug of ss under Nasik Zone	0.92	-	-	-	-	Disallowed
602	AN/2009-10/029	Even-Urjankur Tatyasaheb, Kolhapur	-	0.03	-	-	-	Disallowed
603	SS/2008-09/068	220 KV Narsi	3.29	1.27	-	-	-	Disallowed
604	SS/2008-09/031	220KV Warud SS	1.12	1.07	1.42	3.36	0.53	Disallowed
605	SS/2008-09/017	220KV Lonand MIDC SS	25.73	3.17	0.14	0.95	-	Disallowed
606	SS/2008-09/037	220KV Pimpalgaon (Ranwad) SS	5.90	3.84	-	-	-	Disallowed
607	SS/2008-09/056	220KV Katol SS	-	0.14	-	-	-	Disallowed
608	LL/2008-09/069	110KV Ln fr 220KV I'Karnji-110KV Kurndwd	-	0.11	-	-	-	Disallowed

Sr.	Project Definition	Scheme Name		Capita	alisation (Rs. Cr	ores)		Status
No			FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	(Approved / Disallowed)
609	LL/2008-09/070	110KV Miraj-Jaisingpur	0.06	0.79	-	-	-	Disallowed
610	SS/2011-12/003	400KV Jejuri-Winjhar DC Ln	46.84	9.31	(4.26)	95.00	35.37	Disallowed
611	EV/2008-09/001	Evacuatn of power Uran CCCP	1.87	-	-	-	-	Disallowed
612	SS/2007-08/018	132KV Barshi-Takli SS	0.04	0.85	-	-	-	Disallowed
613	SS/2011-12/022	220KV Sangli SS	0.56	0.00	-	-	-	Disallowed
614	SS/2011-12/012	132KV Khanapur SS	0.45	0.01	-	-	-	Disallowed
615	SS/2006-07/013	132KV Shelu SS	-	0.41	-	-	-	Disallowed
616	SS/2011-12/010	Estt. of 220 KV MALIKPETH s/s	-	-	-	-	-	Disallowed
617	SS/2013-14/010	220kv Nandgaon Peth (Textile Park S/Stn)	-	-	-	-	-	Disallowed
618	SS/2012-13/008	Establisment 132/33kv substation at Dhanki	-	-	-	-	-	Disallowed
619	SS/2012-13/001	132 KV Mhaswad SS	-	-	-	-	-	Disallowed
620	SS/2012-13/002	220KV Mukhai	-	-	-	-	-	Disallowed
		Disallowed Total	111.34	38.03	(0.91)	100.01	35.90	
		Grand Total	1,954.69	1,559.85	1,139.44	1,020.06	1,395.90	

Note: There are certain schemes where nil capitalisation is claimed by MSETCL and also approved in this Order. This is on account of such schemes being closed by MSETCL and no capitalisation claimed by MSETCL in future years.