

GUJARAT ELECTRICITY REGULATORY COMMISSION



Tariff Order

Truing up for FY 2013-14 and
Determination of Tariff for FY 2015-16

For

**Madhya Gujarat Vij Company Limited
(MGVCL)**

Case No. 1465 of 2014

31st March, 2015

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(GERC)**

GANDHINAGAR

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ABBREVIATIONS

A&G	Administration and General Expenses
ARR	Aggregate Revenue Requirement
CAPEX	Capital Expenditure
CERC	Central Electricity Regulatory Commission
Control Period	FY 2011-12 to FY 2015-16
DGVCL	Dakshin Gujarat Vij Company Limited
Discom	Distribution Company
EA	Electricity Act, 2003
EHV	Extra High Voltage
FPPPA	Fuel and Power Purchase Price Adjustment
FY	Financial Year
GEB	Gujarat Electricity Board
GERC	Gujarat Electricity Regulatory Commission
GETCO	Gujarat Energy Transmission Corporation Limited
GFA	Gross Fixed Assets
GoG	Government of Gujarat
GSECL	Gujarat State Electricity Corporation Limited
GUVNL	Gujarat Urja Vikas Nigam Limited
HT	High Tension
JGY	Jyoti Gram Yojna
kV	Kilo Volt
kVA	Kilo Volt Ampere
kVAh	Kilo Volt Ampere Hour
kWh	Kilo Watt Hour
LT	Low Tension Power
MGVCL	Madhya Gujarat Vij Company Limited
MTR	Mid-term Review
MU	Million Units (Million kWh)
MW	Mega Watt
MYT	Multi-Year Tariff
O&M	Operations and Maintenance
p.a.	Per Annum
PF	Power Factor
PGCIL	Power Grid Corporation of India Limited
PGVCL	Paschim Gujarat Vij Company Limited
PPA	Power Purchase Agreement
R&M	Repairs and Maintenance
RLDC	Regional Load Despatch Centre
SBI	State Bank of India
SLDC	State Load Despatch Centre
UGVCL	Uttar Gujarat Vij Company Limited
WRLDC	Western Regional Load Despatch Centre



Before the Gujarat Electricity Regulatory Commission at Gandhinagar

Case No. 1465 of 2014

Date of the Order: 31/03/2015

CORAM

Shri Pravinbhai Patel, Chairman
Dr. M. K. Iyer, Member
Shri K.M. Shringarpure, Member

ORDER

1. Background and Brief History

1.1 Background

Madhya Gujarat Vij Company Limited (hereinafter referred to as MGCVCL, or Petitioner) filed its petition on 1st December, 2014 under Section 62 of the Electricity Act, 2003, read in conjunction with the applicable Gujarat Electricity Regulatory Commission (Multi-Year Tariff) Regulations, 2011, for True-up of FY 2013-14, and determination of Tariff for FY 2015-16.

The Commission admitted the petition on 8th December, 2014 as Case No. 1465/2014.



1.2 Madhya Gujarat Vij Company Limited (MGVCL)

The Government of Gujarat unbundled and restructured the Gujarat Electricity Board with effect from 1st April, 2005. The Generation, Transmission and Distribution businesses of the erstwhile Gujarat Electricity Board were transferred to seven successor companies. The seven successor companies are listed below

Generation Gujarat State Electricity Corporation Limited (GSECL)

Transmission Gujarat Energy Transmission Corporation Limited (GETCO)

Distribution Companies:

Sl. No	Name of Company
1	Dakshin Gujarat Vij Company Limited (DGVCL)
2	Madhya Gujarat Vij Company Limited (MGVCL)
3	Uttar Gujarat Vij Company Limited (UGVCL)
4	Paschim Gujarat Vij Company Limited (PGVCL)

Gujarat Urja Vikas Nigam Limited (GUVNL), a holding company, is responsible for purchase of electricity from various sources and supply to Distribution Companies and also other activities including trading of electricity.

The Government of Gujarat, vide Notification dated 3rd October, 2006, notified the final opening balance sheets of the transferee companies as on 1st April, 2005. The value of assets and liabilities, which stand transferred from the erstwhile Gujarat Electricity Board to the transferee companies, include Madhya Gujarat Vij Company Limited (MGVCL). Assets and liabilities (gross block, loans and equity), as on the date mentioned in the Notification, have been considered by the Commission, in line with the Financial Restructuring Plan (FRP), as approved by Government of Gujarat.

1.3 Commission's Orders for the second Control period

MGVCL filed its petition under the Multi-Year Tariff Framework for the control period FY 2011-12 to FY 2015-16 on 12th May, 2011, in accordance with Gujarat Electricity Regulatory Commission (Multi-Year Tariff) Regulations, 2011.

The Commission, in exercise of the powers vested in it under Sections 61, 62 and 64 of the Electricity Act, 2003, and all other powers enabling it in that behalf, and after



taking into consideration the submissions made by MGVCL, the objections by various stakeholders, response of MGVCL, issues raised during public hearing and all other relevant material, issued the Multi-Year Tariff Order on 6th September, 2011 for the control period from FY 2011-12 to FY 2015-16, based on the GERC (MYT) Regulations, 2011.

The Commission issued the orders for truing up for FY 2010-11 and determination of Tariff for FY 2012-13 on 2nd June, 2012.

The Commission issued the order for truing up for FY 2011-12 and determination for Tariff for FY 2013-14 on 16th April 2013.

1.4 Commission's Orders for Mid-term Review of Business plan for MGVCL

MGVCL filed its Petition for Mid-term Review of Business Plan and revision of ARR for balance years for FY 2014-15 and FY 2015-16 of the control period in terms of Regulation 16.2 (i) of GERC (MYT) Regulations, 2011.

The Commission in exercise of the powers vested in it under section 61, 62 and 64 of the Electricity Act, 2003 and all other powers enabling it in that behalf and after taking into consideration the submissions made by MGVCL, the objections raised by various stakeholders, response of MGVCL, issues raised during public hearing and all other relevant material, approved the revised ARR for FY 2014-15 and FY 2015-16 in the Mid-term Review of Business Plan for MGVCL on 29th April, 2014.

The Commission issued the order for truing up for FY 2012-13 and determination of Tariff for FY 2014-15 on 29th April, 2014.

1.5 Admission of the Current Petition and Public Hearing Process

MGVCL submitted the current petition for 'Truing up' of FY 2013-14 and determination of tariff for FY 2015-16 on 1st December, 2014. The Commission admitted the petition (Case No. 1465/2015) on 8th December, 2014.

In accordance with section 64 of the Electricity Act, 2003, the Commission directed MGVCL to publish its application in the abridged form to ensure public participation.

The public notice, inviting objections / suggestions from its stakeholders on the



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petition filed by it, was published in the following newspapers on 15th December, 2014.

Sl. No.	Name of the Newspaper	Language	Date of Publication
1	The Times of India	English	15/12/2014
2	Divya Bhaskar	Gujarati	15/12/2014

The Petitioner has also placed the public notice and the petition on its website for inviting objections and suggestions on the petition.

The interested parties / stakeholders were asked to file their objections / suggestions on the petition on or before 15th January, 2015.

Some of the consumers/consumer organisations requested for extension of last date for submission of objections. The Commission granted extension of time up to 25th January, 2015.

The Commission received objections / suggestions from 19 consumer / consumer organizations. The Commission examined the objections / suggestions received and scheduled the public hearing for MGVCL on 11th February, 2015 and 13th February, 2015 at the Commission's Office at Gandhinagar and subsequently a communication was sent to the objectors to take part in the public hearing process for presenting their views in person before the Commission. The public hearing was conducted in Commission's Office in Gandhinagar on above dates.

The names of the stakeholders who filed their objections and the objectors who participated in the public hearing for presenting their objections are given below:

Sl. No.	Name of Stakeholders	Participated in the Public Hearing
1.	Western Railways	Yes
2.	Shri H.J. Patel	Yes
3.	Consumer Education and Research Society (CERS)	Yes
4.	Laghu Udyog Bharati - Gujarat	No
5.	The Kutch Salt & Allied Industries Ltd.	No
6.	Gujarat Krushi Vij Grahak Suraksha Sangh	Yes
7.	Shri V.J. Vachharajani	Yes
8.	Yash Complex Co-Operative Housing Service Society Limited, Vadodara	Yes
9.	Akhil Gujarat Grahak Sewa Kendra	No
10.	Gondal Chamber of Commerce & Industry	No
11.	Federation of Gujarat Industries	Yes
12.	Indian Captive Power Producers Association (ICPPA)	Yes
13.	Shri Amarsinh Chavda	Yes



Sl. No.	Name of Stakeholders	Participated in the Public Hearing
14.	Shri Manibhai Gigabhai Dangodara	No
15.	Utility Users' Welfare Association (UUWA)	Yes
16.	The Gandhidham Chamber of Commerce & Industry	No

A short note on the main issues raised by the objectors in the submissions with respect to the petition along with the response of MGVCCL and the Commission's views on the response are briefly given in Chapter 3.

1.6 Contents of this Order

The order is divided into nine chapters:

1. The **first** chapter provides a brief background regarding the Petitioner, the petition on hand and details of the public hearing process and the approach adopted in this Order.
2. The **second** chapter outlines a summary of MGVCCL's submission.
3. The **third** chapter deals with the public hearing process, including the objections raised by various stakeholders, MGVCCL's response and the Commission's views on the response.
4. The **fourth** chapter focuses on the details of truing up for FY 2013-14.
5. The **fifth** chapter deals with the determination of tariff for FY 2015-16.
6. The **sixth** chapter deals with the FPPPA charges.
7. The **seventh** chapter deals with wheeling charges and cross-subsidy surcharge.
8. The **eighth** chapter deals with compliance of directives and issue of fresh directives.
9. The **ninth** chapter deals with the tariff philosophy and tariff proposals for FY 2015-16.

1.7 Approach of this Order

MGVCCL has approached the Commission with the present petition for 'truing up' for the FY 2013-14 and determination of tariff for the FY 2015-16.

The Commission has undertaken truing up for the FY 2013-14, including computation of gains and losses for the FY 2013-14, based on the submissions of the petitioner and the audited annual accounts made available by the petitioner.

While truing up of FY 2013-14, the Commission has been primarily guided by the following principles:



1. Controllable parameters have been considered at the level of approval under the MYT order, unless the Commission considers that there are valid reasons for revision of the same
2. Un-controllable parameters have been revised, based on the actual performance observed.

The truing up for the FY 2013-14 has been considered, based on the GERC (MYT) Regulations, 2011. For the determination of the ARR for FY 2015-16, the Commission has considered the ARR for FY 2015-16, as approved in the Mid-term Review order dated 29th April, 2014.



2. A Summary of MGVCL's Petition

Madhya Gujarat Vij Company Limited (MGVCL) submitted the details of True-up for FY 2013-14 and revenue estimates for FY 2015-16 on 1st December, 2014.

2.1 Actuals for FY 2013-14 Submitted by MGVCL

The details of expenses under various components of ARR for FY 2013-14 are given in Table 2.1 below:

Table 2.1: Actuals Submitted by MGVCL for FY 2013-14

(Rs. Crore)			
Sl. No.	Particulars	Approved in MYT Order	Claimed in truing up
1	Cost of Power Purchase	3,965.49	3,446.64
2	Operations and Maintenance Expenses	283.85	318.83
2.1	Employee Cost	247.79	305.29
2.2	Repairs and Maintenance Expenses	44.91	44.05
2.3	Administration and General Expenses	43.08	51.00
2.4	Other Debits	9.07	1.37
2.5	Extraordinary Items	-	-
2.6	Net Prior Period Expenses / (Income)	-	(0.25)
2.7	Other Expenses Capitalised	(61.00)	(82.64)
3	Depreciation	144.19	153.09
4	Interest & Finance Charges	36.99	69.59
5	Interest on Working Capital	-	-
6	Provision for Bad Debts	3.67	1.01
7	Sub-Total [1 to 6]	4,434.19	3,989.16
8	Return on Equity	77.53	84.41
9	Provision for Tax / Tax Paid	5.84	5.38
10	Total Expenditure (7 to 9)	4,517.56	4,078.94
11	Less: Non-Tariff Income	86.75	121.51
12	Aggregate Revenue Requirement (10 - 11)	4,430.81	3,957.44

2.2 Summary of Projected Revenue Gap for FY 2015-16

Table below summarises the Aggregate Revenue Requirement projected in Mid-term Review of the Business Plan, the total revenue with the existing tariff and the proposed gap for FY 2015-16.

Table 2.2: ARR, Revenue and Gap for FY 2015-16

(Rs. Crore)		
Sl. No.	Particulars	FY 2015-16 (Projected)
1	Aggregate Revenue Requirement	4,625.80
2	Revenue Gap from True-up of FY 2013-14	54.84
3	DSM Programme expenditure	25.00
3	Total Aggregate Revenue Requirement (1 to 3)	4,705.64
4	Revenue with Existing Tariff	3,541.51
5	FPPPA Charges @ 120 paisa/kWh	960.12
6	Other Income (Consumer related)	82.00



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Sl. No.	Particulars	FY 2015-16 (Projected)
7	Agriculture Subsidy	82.00
8	Total Revenue including subsidy (5 to 8)	4,665.63
9	Gap / (Surplus) (4 - 9)	40.02

In order to bridge the revenue gap, MGVCL has proposed change in the tariff for various categories of consumers except agriculture. MGVCL has proposed overall increase of 2.57% over existing tariff and recovery of remaining unrecovered gap is proposed to be met through efficiency improvement measures or as deemed appropriate by the Commission.

Over and above, change in tariff rates, the company has proposed some minor modifications in current tariff structure. The proposed changes are outlined in the subsequent paragraphs.

2.3 MGVCL's request to the Commission:

1. To admit this petition seeking True-up for FY 2013-14 and Tariff Petition for FY 2015-16.
2. To approve the True-up for FY 2013-14 and allow sharing of gains/losses with the consumers, as per sharing mechanism prescribed in the GERC (MYT) Regulations, 2011.
3. To not consider Delayed Payment Charges in the calculation of ARR.
4. To consider approved parameters/ARR of GSECL, GETCO and SLDC while finalizing Tariff of the Petitioner.
5. Pass suitable orders for implementation of Tariff Proposal for FY 2015-16 for making it applicable from 1st April, 2015 onwards.
6. To approve the terms and conditions of Tariff and various other matters as proposed in this petition and proposed changes therein.
7. To allow recovery and unrecovered gap through efficiency improvement measures or deem fit by the Commission.
8. To grant any other relief as the Commission may consider appropriate. The petitioner craves leave of the Commission to allow further submissions, addition and alteration to this Petition as may be necessary from time to time.
9. Pass any other order as the Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.



3. Brief outline of objections raised, response from MGVCL and the Commission's View

3.0 Stakeholders' suggestions / objections, Petitioner's Response and Commission's Observation

In response to the public notice, inviting objections / suggestions of the stakeholders on the petitions filed by Discoms for truing up of FY 2013-14 and determination of tariff for FY 2015-16, a number of consumers / consumer organisations filed their objections / suggestions. Some of these objectors participated in the public hearing also. It is observed that the objections/ suggestions filed, by and large, are repetitive in nature. Some of the objections are general in nature and some are specific to the proposals submitted by the petitioner for approval of True-up for FY 2013-14 and ARR and Tariff revision for FY 2015-16. It is also noted that many of the objections/ suggestions are common to all the four Discoms and some are specific to the concerned Discom. The objections / suggestions are segregated into two groups viz. common to all Discoms and specific to concerned Discom. The Commission has, therefore, addressed the objections / suggestions issue-wise rather than objector-wise.

3.1 Common Suggestions/objections

Issue 1: Application of KVAh Tariff to LT Motive Power Consumer

Shri H.J. Patel, Retd. CE DGVCL has suggested for implementation of tariff of KVAh to LT Motive Power Consumers instead of kWh while enumerating the benefits of KVAh tariff including better discipline for power factor management, reduction in losses, reduction in transformer loading and maintaining voltage level without modification in existing meters.

Response of Discoms

The Petitioner has stated that any attempt of migration to KVAh metering might be detrimental to residential consumers as well as meter manufacturers. It has now become necessary to make consumers to improve PF through some mechanism in consumer tariff by charging low PF consumer more than those maintaining high PF. As per Commission's order dated 06.09.2011, all LTMD consumers having contract



demand above 40 KW are already with kVARh consumption tariff and with this earlier commercial category of consumers having contract demand above 40 KW are also covered in kVARh tariff. In the case of HT consumers, the PF penalty tariff already exists. For consumers having I-Phase connection, KVAh tariff and KVAh, metering is not desirable due to:

- (a) Introduction of penalty tariff for low PF consumers through some mechanism could mean either through tariff or through metering. In both cases, Discoms have to measure one more quantity other than active energy.
- (b) All existing meters measure only Active energy as per prevailing tariff requirement.
- (c) If I-Phase consumers are insisted upon to install capacitor at their installation to improve PF, it will lead to think twice on the following aspects in regard safety and hazards:
 - (i) All existing electrical and electronic appliances are rated only with Active Energy consumption and the average PF rating or reactive power consumption ratings are not specified on any electrical appliances or products. Therefore, the consumer does not have data as to how many capacitors are required to install for improvement of PF. Installation of abrupt rating capacitors may lead to safety and system problems.
 - (ii) Whether the capacitor shall be connected at mains or/on individual connecting socket.
 - (iii) If capacitors are installed at mains, the same may boost to very high voltage during use of meagre load resulting in damage/burning of other electrical products. On individual appliances, it is not possible to install as consumers do not know the VAR rating of products.
 - (iv) Location of installation of capacitor is also debatable. If capacitors are accessible to children in a house, the same may cause serious hazards to their life.

Unless the above issues are addressed at appropriate levels, it is not prudent to adopt Apparent Energy and KVAh metering and tariff. The petitioner has suggested that instead of moving towards KVAh based tariff and metering, the applicability of kVARh consumption tariff be further widened for other consumer categories as well



as for lower contract demand in case of existing consumer categories. This would serve the purpose to a large extent and would be cost effective too. Further the charges for drawal of KVARh should also be increased from Rs. 0.10/KVARh to Rs. 0.25/KVARh. This will help in achieving the same object without changing entire system.

Commission's Observation

The Commission notes the suggestion of the objector and the response of Discoms. It may be difficult at this stage to implement kVARh tariff for the category of consumer suggested by the objector. However, Discoms may explore the possibility of such alternate tariff in future.

Issue 2: Issues raised by Gujarat Krushi Vij Grahak Suraksha Sangh

The General Secretary, Gujarat Krushi Vij Grahak Suraksha Sangh, Visnagar has sought the following information and made certain observations and suggestion.

1. Quantum and quality of supply and supply hours to agriculture
2. Various revenue projections
3. Statement of defaulters – consumer category-wise
4. Statement of debts written off by debiting B&D provision account details, PDC consumer's arrears – category wise, nos. and amount in Crore.
5. Statement of outstanding debtors, both government and non-government category wise separately.
6. Statement of pending applications – year wise along with breakup of various schemes up to 10.10.2000 and thereafter separately, along with details.
Surveyed, under survey and un-surveyed
Pending with GGRC
Pending as per A,B,C,D classification
7. Status report on unmetered DTC work
8. Statement of dues to pay/recover from GOG/central govt.
9. Statement of unrecoverable debts - To be written of - year-wise.
10. Statement of overloaded feeders as bifurcated during the year or to be bifurcated during projected year along with incurred and projected capital expenditure.
11. Statement of new-substations installed, Commissioned during last 3 years and projected to be installed during the coming year.



12. No of claims received for accidents of human being / cattle along with amount paid for them.
13. No of feeders having losses more than 10%.
14. No of agricultural connections actually released during last 5 years – scheme-wise, target achievement and shortcomings along with reasons.
15. Total No. of feeders with breakup of kind/type and how many of them are having length of more than 5 KM.
16. Total no of substations with breakup of kind/type and those having allocation more than 10 villages.
17. Sub-stations running without Electrical Engineers.
18. Latest position of PDC Nos. of connections, amount of arrears (in Crore) – consumer categories those before 10.10.2000 and after to be shown separately after giving effect of reconnection, recoveries, settlement schemes 2002 and 2005, Lok Adalat, Amnesty Scheme and any other etc. Net position as per latest records.
19. Statement of faulty/closed condition meters during last 3 years.
20. Statement of year – wise agriculture applications rejected / cancelled during last 5 years along with reasons
21. Status report on RE work in rural areas i.e. revenue villages, Peta Paras, Paras etc. No covered, under progress, pending etc.
22. Statement of Agriculture connections with A1, A2, A3, A4 etc. classification with information regarding cumulative nos. existing nos. and PDC Nos.
23. Statement of Agriculture connections relating to Brick manufacturing units, No of connections and income earned from them (last 3 years)
24. HT based tariff is required to be reduced as under:
 - (a) Reduction in HP based tariff from Rs. 200 per BHP/month to Rs. 72.50/BHP/month and
 - (b) Removal of discrimination of slabs up to 7.50 HP and above required.
 - (c) Fixed charges to be totally removed
 - (d) Introduction of single and common energy / charges to be introduced in both metered and unmetered categories.
25. Introduction of special sub-category and or grant relief to farmers who accept in a group of entire feeder the meter tariff, group concession of 10/paise/unit consumption for a period minimum of 3 years.



26. Special concessional tariff for individual farmer adopting micro irrigation system e.g. drip, sprinklers, porous etc.
27. Removal of compulsion to adopt GGRC schemes, as it has become hurdle to farmers waiting for more than 10 years.
28. Abolition of Tatkai Scheme.
29. Restarting of Scheme of Energy Efficient pump-set which is discontinued and to be reintroduced in at least 57 dark zone Talukas.
30. Clarification on LTP-V tariff category – Lift irrigation
 - (i) About 125 BHP and 100 KVA for HTP-V. It should be made common.
 - (ii) Certain words needed to be adopted for surface water facilities and lifting of water from lake, tank etc. prepared in farms for water collection savings.
31. Meter charges, meter rent charges to be removed.
32. Population limit has to be raised from 15000 to 25000 for Gram Panchayat Area.
33. Supply of water by Agricultural consumers to others to help people during natural calamities:

Agriculture consumers to be allowed to use /supply the water merely to help people during natural calamities like drought, scarcity, floods, earthquake, failure of tube wells for drinking water. For this they should not be penalized and on the contrary to exempt them from charging the bills for certain period /months in such cases. The Commission should include clarification clause in the Tariff Order.
34. Power Purchase price Adjustment:

Not to allow any interim extra charges by way of Power Purchase Agreement in between the year
35. T&D Losses:

Distributions to be restricted up to 9% and transmission losses to be restricted up to 1% and both T&D losses are to be restricted to 10% and no loss to be passed on to consumers.
36. Interest on working Capital:

Interest on working capital is not grantable. Column to be removed from ARR format.
37. Action on losses including technical losses:

No sincere effort is done at sub-station and feeder level as there is no sufficient staff. Transmission losses are more than 3% and hence not acceptable after 10 years. It should be limited to 2%.



38. Replacement of non – working meters: 1.80 Lakh meters are still under non – working condition. Status report along with reasons to be submitted.
39. Fixed Charges:
Fixed Charge on Agricultural consumers to be abolished totally.
40. Directives 1, 2 & 3 not fulfilled. Feeder bifurcation work is unsatisfactory, DTC review work and replacement of conductors is reduced. Erection work under HVDS is unsatisfactory under KHUSHY scheme, the work is too poor.
41. JGY losses: Distribution losses on JGY feeders remained uncontrolled. A status report is to be submitted.
42. Distribution Transformer failure rate:
The Distribution Transformer failure rate is not mentioned.
43. Release of connections under SPA and Dark Zones (57 Nos.):
2368 SPA connections are pending release and Dark zone connections pending are 334 since 1990 to 2001 – Total 2702.
44. Theft cases:
Cases booked under section 126 and 135 not given.
45. Segregation of total loans:
The statement of segregation of total loans is not submitted.
46. Consumer charter:
This is not prepared for farmers having Agricultural Connection.
47. Providing of premises for Offices of Appellate Authority
No accommodation has been provided in the corporate office compound at Mehsana for establishment of separate offices for:
(i) Gujarat Rural Area Vij Company/board/corporation, and
(ii) Feeders management company
48. Mobile van facility for payment of bills
49. FPPPA charges to be separated and to be mentioned in the electricity consumption bills under separate columns.

Response of Discoms

The licensee has submitted, as under, to the above points raised by the Secretary, Gujarat Krushi Vij Grahak Suraksha Sangh (GKVGSS):

1. Quantum and Quality of supply to Agriculture: Minimum of 8 hours power supply has been given to agricultural sector. During cropping season more than 8 hours of power has also been given by purchasing power from various sources. In case



power supply to agriculture is given less than 8 hours, it is compensated during subsequent period when power position is improved.

A policy was formulated by GUVNL on power supply to agriculture sector as per guidelines from GoG for uniform power supply and Discoms have been implementing the same.

For better load management agricultural feeders are segregated in various groups and power supply to all the groups is given in different time zones of 8 hours each day. Every week power supply timings are changed and rotated amongst the groups.

Regarding quantum of energy, it is stated that the large number of Agricultural consumers are unmetered and energy consumed by such consumers is assessed in the basis of 1700 units / HP / annum.

2. Revenue Projections: The estimates of revenue has been worked out based on consumer category-wise sales, connected load and number of consumers approved by the Commission in its order dated 29.4.2014 in the Mid-term Review of Business Plan.
3. Details of defaulters: The statement of defaulters, consumer-wise, along with list of defaulters as on 31.12.2014 having outstanding arrears more than Rs. 1 Lac has been furnished.
4. Bad Debts Accounts: Every year certain amount of some consumers which seems to be non- recoverable, is waived by the company and charged to P&L account under “other debits”
5. Statement of Debtors: Statement of debtors as on 31.12.2014 is furnished.
6. Statement of Pending Applications: Statement of pending applications as on 31.12.2014 is furnished.
7. Status of unmetered DTs: Position as on 31.12.2014 of meters of distribution transformer level is furnished.
8. Government Dues: Generally, government dues are paid by the company regularly and government similarly pays to the company regularly.
9. Un-recoverable debts: Statement of unrecoverable debts is furnished.
10. Over Loaded Feeders: Load on the feeders is highly dynamic and feeders having either more length or found over loaded are bifurcated. No of feeders bifurcated during 2013-14 and to be bifurcated during FY 2014-15 is furnished.



11. New sub-stations: Statement of new substations Commissioned during FY 2013-14 up to March 2014 and planned to be commissioned during FY 2014-15 is furnished.
12. Compensation on Accidents: Claims and compensation given to deceased dependent or owner of animals on account of electrocution during FY 2013-14 is furnished.
13. Feeders Having Losses: Statements of feeders having losses more than 10% in FY 2013-14 is furnished.
14. Release of connections: Releasing of connections is an on-going task. Every year agricultural connections are released under various schemes, like normal, Tatkal, MIS, DIS etc. Agricultural connections released during last 5 year up to December 2014 is furnished.
15. Feeders having line length: Category-wise statement of feeders having more than 5 KM line length as on 31.12.2014 is furnished.
16. No of sub-stations: Voltage wise no. of substations as on 31.12.2014 is as under.

Sl. No	Voltage – Class	Nos.
1	400 KV	2
2	200 KV	10
3	132 KV	13
4	66 KV	159

Generally feeder supply to villages is fed through 11 KV feeder, emanating from 66 KV sub stations. Almost 95% of 66 KV substations feed power supply to more than 10 villages. Only a few GIDC & city SS are with less than 10 villages.

17. No. of sub-stations without Engineer: 66 KV and above sub-stations are owned and operated by GETCO. Generally function of substation is supervised by an Engineer.
18. PDC Connections: Statement of PDC connections and amount of arrears as on 31.12.2014 is furnished.
19. Details of faulty / locked condition meters: Statement of faulty and locked condition meters as on 31.12.2014 is furnished
20. Agriculture applications rejected/cancelled: Statement of agricultural applications rejected/cancelled with major reasons as on 31.12.2014 is furnished.
21. Rural Electrification: Electrification of petaparas, muwadas etc. is a continuous process and as and when application / request is made by any local authority or any other authority for electrification of any petapara etc., the same is electrified.



22. Agriculture Connections Category-wise: Statement of Connections – category-wise along with PDC connections as on 31.12.2014 is furnished.
23. Supply of Water to brick manufacturers: Supply to brick manufactures by an agricultural consumer is an optional facility and an agricultural consumer can opt for it, if he desires. This is not compulsory requirement.
24. Reduction in HP based Tariff: In order to ensure uniform tariff rates for all Discoms, differential bulk supply tariff mechanism is in place. The average recovery from agricultural category is less than the average cost of supply.
25. Special sub-category to Agriculture Consumers: Present tariff for agriculture is highly subsidized and hence needs no separate category
26. Concessional Tariff to micro irrigation system: Irrigation to agricultural field through micro/drip irrigation system requires less energy consumption compared to normal mode of irrigation and hence such agricultural consumers are benefited. Giving benefit to one class of consumer will result in increase in tariff of other class of consumers.
27. Adoption of GGRC Scheme: GGRC facilitates agricultural consumers for installation of micro irrigation system. Since MIS helps in conserving water and energy, it has been one of the enabling factors for the company to relax the provision for releasing agricultural connections in dark zone areas.
28. Abolition of Tatkal Scheme: The Petitioner filed a petition on the issue vide No. 1087/2011 and the Commission has issued an order and disposed of the petition.
29. EEPS Scheme: Efficient use of electrical energy helps in less energy consumption for the same quantum of work. This phenomenon is equally applicable to agriculture consumers. A demonstrative project was undertaken by replacing old pump sets in the effective pump sets. It is intended to carry out similar programmes under DSM activities.
30. Relaxation to LTP – V: LTP-V category is basically to incentivize use of surface water, such as river, canal, dam etc. and thereby promote energy and water conservation, particularly for consumers in the command area of Sardar Sarovar Project area and such other mini irrigation system, which require 24 hour power supply and therefore a separate category is provided and the same cannot be extended for filling up the 'houze' etc. prepared in farm for water collection and it will lead to operational issue also.
31. Abolition of Meter Charges: Meter charges is are recovered as per provisions of the Act and Regulations notified by the Commission.



32. Raise in Population Limits: RGP rural category tariff is applicable to Gram Panchayat areas as defined in Gram Panchayat Act but not to villages which are located within the jurisdiction of Urban Development Authority.
33. Supply of Water by Agriculture Consumer to Others: Generally power supply is to be utilized only for the purpose to which the consumer is authorized. In case of various national calamities, specific directives, if any, issued by the Commission can be followed.
34. PPPA Adjustment: The cost paid by the company/GUVNL as compared to approved base year cost for purchase of power from various sources is to be recovered by companies through PPA. Adjustment Mechanism is as per formula approved by the Commission. Since increase in cost of power is on account of reasons beyond the control of the company, decrease/increase of FPPPA will have implication on consumer by way of interest on additional fund. Discoms will have liquidity issue.
35. Transmission and Distribution Losses: The Commission approved distribution loss trajectory for FY 2014-15 and FY 2015-16. Since distribution losses being controllable, the company has given appropriate treatment to the deviation to approved loss level in the true-up petition for FY 2013-14. As the transmission losses are beyond the control Discom the actual transmission losses are considered by the company.
36. Interest on Working Capital and RoE: In the true-up petition for FY 2013-14, no claim for interest on working capital and ROE is worked out as per GERC (MYT) Regulations, 2011.
37. Reduction in Distribution Losses: The Company makes all efforts for reduction of distribution losses and ensure that loss reduction trajectory as approved by the Commission shall be followed and at the end of the control period the company shall at least achieve approved distribution loss level.
38. Replacement of non-working meters: Status of meters replaced during FY 2013-14 and during FY 2014-15 (up to 31.12.2014) are as under:

Year	Number of Meters Replaced
FY 2013-14	101567
FY 2014-15 (up to 31.12.2014)	124181

39. Abolition of fixed charges: It is a basic commercial principle to recover fixed costs through recovery of fixed charges. In the case of Discoms only 31.57% fixed cost



is recovered through fixed charges. Hence it is not possible to abolish fixed charges.

40. Reply to Directives: Compliance of directions is submitted from time to time and also in the present petition. Actual expenditure incurred under various schemes vis-à-vis approved by the Commission is provided in the petition.
41. JGY Losses: various activities have been carried out for loss reduction in JGY feeders. Due to constant efforts of the company, the losses on JGY feeders have been reduced to 35.19% during FY 2013-14 from 37.77% in FY 2012-13 which shows a decreasing trend.
42. DT Failure: Distribution Transformer failure rate for FY 2013-14 is 4.51%
43. Releasing connections under SPA Dark Zone areas: Releasing of connections is an ongoing task. Every year agricultural connections are released under various schemes like, normal, Tatkai etc.
44. Statement of Theft Cases: The details of theft cases booked under section 126 and 135 are furnished.
45. Segregation of Total Loan: The Company has filed petition for Mid-term Review of Business Plan for FY 2014-15 and 2015-16 wherein relevant details of loan were provided and the Commission has issued the order on 29.4.2014 revising ARR for FY 2014-15 to FY 2015-16.
46. Consumer Charter: The Respondent filed a separate petition on similar issue with GERC.
47. Providing Office to Appellate Authority: Section 127 of EA, 2003, provides for "Appellate Authority and in Gujarat, State "Electrical Inspector" is designated as "Appellate Authority".
48. Mobile van facility for payment of bills: Besides bills collection at sub-division offices, facilities for payment bills in rural areas are available as under:
 - E-Gram Panchayat Office
 - Post Offices
 - Collections through bankers/agencies/RTGS/NEFT.
 - Payment through ATMs of selected banks
 - Various modes of online payment
 - Village cash collection by cashier etc.
49. FPPPA Charges: The amount payable under the head FPPPA charges is shown separately in the consumer energy bills. In case of agricultural consumers same is compensated by the state government.



The Respondent has suggested some of the operational suggestions to the company which will be analysed for implementation.

Commission's Observation

The response of Discoms is noted. The Commission appreciates the efforts made by Discom to meet various targets etc. Discoms shall make efforts to bring down the JGY losses.

Issue 3: Formula for arriving Theoretical / Technical Losses

President Yash Complex Cooperative Housing Service society Limited, Vadodara, has stated that the formula used for arriving of theoretical formula differs from Discom to Discom.

Response of Discoms

The Commission has directed Discoms to segregate technical and commercial losses from the total distribution losses. Different methods prevail for calculation of technical/theoretical losses of a feeder. Each has certain assumptions for calculations and same method is followed consistently by the respective Discoms and therefore it holds good for them.

EHV system does not form part of distribution network and therefore losses in EHV system cannot be a part of distribution loss.

To illustrate the method of calculation of theoretical losses, sample calculation of one of the feeders has been enumerated in the petition and same exercise is carried out for all feeders to arrive at theoretical/technical losses.

Commission's Observation

The response of Discoms is noted.

Issue 4: Attempt to discourage Open Access users

Federation of Gujarat Industries have stated that the proposed tariff structure is one deliberate attempt to deter/discourage Open Access users from buying power from other sources after earlier attempts like:



- (i) Deemed Open Access separate tariff;
- (ii) Imposing unlawful and arbitrary conditions through undertakings by using utility consent requirement.
- (iii) demanding additional surcharges;
- (iv) Restricting to Open Access up to contract demand and;
- (v) Consent denial threatening notices for minor variations in Open Access power drawals etc.

Since the above attempts are in contravention to the provisions of EA, 2003, National Tariff Policies and Regulations framed by the Commission, the Commission is requested to take action to respect/uphold the law in preference to benefits of the petitioners.

Response of Discoms

The point wise replies to the issues raised by objectors are as under:

- (i) No such separate tariff category is proposed since the objective of Open Access consumer is to purchase power from sources other than Discoms
- (ii) The undertaking taken by Discoms is as per orders of the Commission and to ensure safety of grid and for load management purpose.
- (iii) Additional surcharge is levied as per Sec. 42 (4) of EA, 2003 after due verification by the GERC.
- (iv) Short-term Open Access is allowed within the available margin in the network.

Commission has already decided and issued orders in regard to scheduling and drawal of load by Open Access consumers in petitions No. 1325 and 1327/2013.

Commission's Observation

The response of Discoms is noted. The issues raised will be examined.

Issue 5: Single Part Tariff for industries with poor plant load factor (PLF)

M/s Ultra Tech Cements Ltd. and Aditya Birla Nova Ltd. have stated that for many industries with inherently poor PLF, present HTP-I tariff leads to very unrealistic and skewed cost of power in terms of Rs./unit, say Rs. 15/unit and even more.



Response of Discoms

It is a basic commercial principle for any organization to recover its fixed cost through recovery of fixed charges and variable cost from variable charges i.e. energy charges. Therefore present tariff structure consists of two part tariff.

Commission's Observation

The response of Discoms is noted. The tariffs are determined category wise and not based on the PLF of the industry.

Issue 6: True-Up proposal for FY 2013-14 and ARR for FY 2015-16

Laghu Udyog Bharati (LUB) Gujarat has submitted that:

1. True-up of FY 2013-14

- (a) If return on equity is considered on actual share capital of Rs. 1227.02 Crore @ 14%. The difference works out to Rs. 103.117 Crore The total current assets are Rs. 1853.34 Crore and hence the surplus is Rs.(-244.50 – 103.177 + 1835.34) equals to Rs. 1487.70 Crore Barring discussion on all issues in the petition, actually there is no ARR gap in current and previous true-up APR covered in the current petition.
- (b) The effective per unit cost is Rs. 6.13/ unit with expenses and FPPPA charges. The per unit expenses are Rs. 0.81/unit (As per ARR true-up), the Government subsidy is Rs. 0.728/Unit Agricultural consumer pays Rs. 1/- per unit and so the effective realization/unit is: $1+0.728-0.81=0.918$. If the FPPPA charges are considered, net recovery from agriculture consumer is $(0.918-1.2) = \text{Rs. } 0.282/\text{unit}$ Net loss due to Agricultural category is Rs. $(6.131+0.375) 6.506/\text{unit}$. For 6017 MU Agricultural consumption, the total loss is Rs. 3914.66 Crore recovered from other categories.
- (c) In annual accounts, the unit cost realization is shown as Rs. 2.432/unit, excluding Agricultural subsidy by Government which is shown separately. It is not clear wherefrom this amount is adjusted in the light of D4 forms for Agricultural category, which show FPPPA charges as Rs. 1.2, which are never realized. Per unit cost category wise in annual reports and True-up of FY 2013-14 proposal do not match with actual receipts.

In view of the above, all cross subsidy calculations in various presentations of ARR stand doubtful and need to be reworked out by the Commission



2. Return on equity

Further, the APTEL order in case No. 142 and 168 of 2013 supports that consumer contribution towards line component and Government grants cannot be part of equity. The Respondent suggests the following action to be taken for ARR proposal in the light of judgment of APTEL

- (i) Calculate return on equity on paid up capital only.
- (ii) Add Reserve and Surplus to net income.
- (iii) Add current assets to net income.
- (iv) No units are shown in ARR proposal on account of UI / sales back of power to GUVNL and rates applied along with GERC approval to such rates.

The Commission is therefore requested to quash ARR True-up proposal for FY 2013-14 and recalculate ARR proposals of the previous years.

3. ARR 2015-16

The respondent has raised the following points:

- (i) LUB does not find any units in APR proposals on account of UI/Sale back of power to GUVNL and rates applied along with GERC approval to such rates.
- (ii) LUB finds that PGVCL has not sought tariff revision but has sought approval to tariff schedule.
- (iii) For the revised tariff schedule, PGVCL has submitted D-4 formats showing per unit cost category wise at revised tariff schedule.
- (iv) Commission may verify from enclosed calculations that PGVCL is already getting per unit revenue, category wise, at the prevailing tariff schedule of 2014-15
- (v) New tariff schedule is not necessary as there is surplus as per D-4 formats for FY 2015-16, projected unit sale units and FY 2014-15 per unit cost as per tariff 2014-15-Tariff schedule of rates.

Issue of FPPPA subsidy to agricultural consumers is required to be resolved by the Commission. PGVCL has to explain that how it is adjusting Agricultural consumers FPPPA charges in Annual Financial Report and ARR.



Response of Discoms

1. True-up for FY 2013-14:

The Respondent has mixed up the principles of ARR with cash flow of the company. ARR is governed by GERC (MYT) Regulations, 2011 and accordingly the proposals and tariff are prepared. True-up Petition is required to be filed in which actual/normative cost along with actual revenue as per audited accounts submitted with resultant revenue gap. After detailed scrutiny and prudence the gap is approved.

2. Return on Equity:

The opening equity for FY 2013-14 is considered same as approved closing equity for FY 2012-13 and for equity addition during FY 2013-14 consumer contribution is reduced from capitalisation and remaining amount is apportioned in debt: equity ratio 70:30.

3. ARR for 2015-16:

Company has not proposed any changes in ARR for FY 2015-16 and has proposed the same as approved in Mid-term Review order dated 29.4.2011. Revenue gap for FY 2013-14, based on GERC (MYT) Regulations, 2011 and DSM expenditure as per direction of the Commission is added to work out the total ARR for FY 2015-16.

Revenue at existing as well as proposed tariff for FY 2015-16 is worked out based on sales, number of consumers and connected load as approved by the Commission for 2015-16. PPA charges are calculated at Rs. 1.20/kWh, while other income (Consumer related) and agricultural subsidy are considered same as approved in Mid-term Review order dated 29.4.2014. The total gap for all 4 Discoms is around 4.07% of the total revenue at the existing tariff. The company has proposed an overall increase of only 2.57% over the existing tariff.

UI/sales/purchase is real time phenomenon and hence cannot be projected. Regarding sale of power to GUVNL, the same has been considered while working out power purchase cost for FY 2015-16 in Mid-term Review order dated 29.4.2014. The sale proceeds has been adjusted while working out cost of power purchase at Table-11 (Net Power Purchase Cost) in the Petition. Further the



same amount is shown in financial statement of Discoms for FY 2013-14 as revenue from sale of power to GUVNL. Since power is supplied to GUVNL at Discom periphery, the cost for supply to be borne by Discoms. Out of the proceeds, GUVNL is keeping only 4 Paise/unit as approved by the Commission.

Regarding `Nil` receipt D-4 formats in some of the tariff categories, the company has not proposed any sales for these category of slabs and hence no projection of revenue for the same.

Commission's Observation

The response of Discoms is noted. The Commission has taken appropriate decision.

Issue 7: Sale of Power to GUVNL – Discriminatory Approach to OA Consumers

President, Yash Complex Cooperation Service Society Limited has stated that all Discoms have sold power to GUVNL from whom they purchase and on one hand the Open Access customer, if he has not utilized his scheduled share, though it is received in Discom area, it is not compensated. On the contrary Discom sells to GUVNL. This discriminatory approach is objectionable.

Response of Discoms

The power is sold by GUVNL on day ahead basis following scheduling mechanism as per IEGC whereas the surplus of Open Access customers is on real time basis. Therefore there is no substance in the allegation and unutilized energy of Open Access customers is compensating the system loss.

Commission's Observation

The response of Discoms is noted.

Issue 8: Income on account of Theft of energy/ diversion of energy

President, Yash Complex Cooperative Service Society Limited has stated that none of Discoms has not submitted the form D-4 containing special provision in respect of amount recovered from concerned on account of theft of energy, diversion of energy etc. Discoms have to submit details as per note 3 under special provision.



Response of Discoms

While approving the revenue gap, the Commission considered other consumer related income i.e. meters rent and service line charges, recovery from theft of power, miscellaneous charges from consumer etc. For FY 2015-16 similar methodology is adopted for working out revenue gap.

Commission's Observation

These are accounted for in other consumer related income.

Issue 9: Details of Cost of Advocate Panel for APTEL / Supreme Court

President, Yash Complex Cooperative Service Society Limited has stated that the cost of fees of Advocate panel for APTEL/Supreme court is borne by GUVNL and such details of account are not shown in the petition.

Response of Discoms

Fees paid to the advocate panel forms part of A&G charges.

Commission's Observation

The legal expenses are accounted under A&G Expenses.

Issue 10: ARR for GUVNL

President, Yash complex Cooperative service society Limited has stated that GUVNL procures power, arranges allocation area-wise generation to have uniform tariff for all Discoms within the State, finalises cost data, purchases back unused power, pays fees of advocate panel etc. on behalf of Discoms. Hence it is necessary for GUVNL to file ARR also.

Response of Discoms

GUVNL, as a trading licensee, has been entrusted with the function of bulk purchase of power from generating companies within/outside the State of Gujarat and supply in bulk to Discoms and sells power on behalf of Discoms. As per GERC Regulations on trading margin, a trading licensee can recover a trading margin of 4 paise/unit per regulations. A trading licensee is not required to file ARR Petition.



Commission's Observation

GUVNL is a holding company and entrusted with purchase of power from various sources and supply to Discoms. GUVNL's requirement is reflected in Discoms petition.

Issue 11: Expense per unit of Supply

President, Yash Complex Cooperative Service Society Limited has stated that employee cost and Administration cost/unit in respect of MGVL is highest among all Discoms, though the handling of energy is only 13.65% of total and the cost per unit except power purchase is also highest of all. The data of MGVL for ARR is far away from actual data for ARR and it needs re-verification by the Commission.

Response of Discoms

The overall growth of MGVL in terms of unit sales is minimal or negative mainly on account of Open Access. Through the employee cost and A&G cost form part of fixed costs of the company, it increases every year due to inflation and other parameters. Further at the time of restructuring, more senior employees having high salary had opted for MGVL. Hence expense per unit of supply of MGVL seems to be higher.

Commission's Observation

The Commission verifies the audited accounts while truing up.

Issue 12: Clarifications on Merger of Connections and Agricultural Subsidy

President, Yash Complex Consumers Service Society Limited has stated that.

Merger of connections:

- NRGP/LTMD category having load up to 40 KW has an option to go to LTMD and vice versa. NRGP consumer having 20 KW load can opt for LTMD but whether he is to be billed on reordered demand or 85% of contract demand whichever is higher or 85% of LTMD limit of 40 KW i.e. 32 KW is not clear. This needs clarification.

Response of Discoms

Following the MYT Order dated 06.09.2011, the company merged the connections of same tariff categories i.e. NRGP/LTMD, existing in same premises and owned by the



same legal entity and having same electricity duty. Consumer shall utilize the quantum of power within its contract with Discoms. The consumers under LTMD is billed for the demand either for 85% of contract demand or 15 KW or actual maximum demand registered during the month whichever is higher.

Commission's Observation

The response of Discoms is noted.

Issue 13: Agricultural Subsidy

The Government has assisted only Rs. 0.78/unit as against overall average purchase cost/unit of Rs. 3.91. The average realization from agricultural category is Rs. 1.24/Unit through tariff. The FCA/FPPPA is over and above it are to be compensated. Thus for total of 15058 MU-Rs. 3.91 – Rs. 1.24 = 2.67 less Agricultural Subsidy of 0.78 = Rs. 1.89/unit is yet to be claimed to meet power purchase cost i.e. $15508 \times 1.89/10 = \text{Rs. } 2931 \text{ Crore}$ as against FPPPA Rs. $15508 \times 1.20 / 10 = \text{Rs. } 1860.96 \text{ Crore}$ Effort for claiming this shortfall in Agricultural Subsidy is not appearing in the petition.

Response of Discoms

All four Discoms together claimed subsidy of Rs. 3873 Crore towards

- (i) Tariff compensation
- (ii) Fuel Surcharge and
- (iii) Fixed Subsidy of Rs. 1100 Crore from State Government, which worked out to subsidy amount of Rs. 2.5/unit as against subsidy amount of Rs. 0.78/unit. After adjusting the subsidy of Rs. 3873 Cr, the per unit average utilization from Agricultural Consumer is Rs. 3.13/unit as against realization indicated i.e. Rs. 1.24/Unit.

(iv)

The suggestion regarding payment of subsidy to agricultural consumer can be thought of.

Commission's Observation

The issue raised by the objector and response of Discoms is noted.



Issue 14: Details of Sources of Power Purchase

M/s Utility Users' Welfare Association has stated that Discoms have not provided the sources of power procurement, quantum and tariff for which power procurement is done. The Commission is requested to direct GUVNL/Discoms to provide quantum of power purchase and source-wise with price at which it is procured.

Response of Discoms

The details of power purchased by GUVNL for FY 2013-14 is provided in the audited account of GUVNL which is also available on website.

Commission's Observation

The response is noted. The actual cost of power purchase for FY 2013-14 is provided in the annual accounts for FY 2013-14.

Issue 15: Legal Status of GUVNL

M/s Utility Users' Welfare Association has stated that GUVNL has been entrusted with functions of bulk purchase of power from the generating companies within / outside the state of Gujarat and supply in bulk to Discoms. GUVNL is a co-partner along into all Discoms as Petitioner. Now GUVNL is not a co-partner and then what is the legal status of GUVNL as per definition of Electricity Act 2003 in the context with Discoms.

Response of Discoms

GUVNL has been incorporated as a successor entity to erstwhile Gujarat Electricity Board (GEB) pursuant to a transfer scheme notification issued under provisioning Gujarat Electricity Industry (Reorganization and Regulation) Act, 2003 and as per Electricity Act 2003. Under notification dated 24.10.2003, the Gujarat State Government issued first Transfer Scheme under which generation, transmission and distribution functions of GEB have been vested in separate companies. As per schedule "G", of the said notification, the functions relating to bulk purchase of power from generating companies within / outside the state of Gujarat and supply to Discoms in bulk, any other residual liabilities etc. were not transferred to any of the companies and retained by GEB. Subsequently, the State Government issued a notification dated 10.12.2004 incorporating GUVNL for the purpose of transferring the assets, liabilities etc. mentioned in schedule "G", including trading in electricity.



Further, the State Government through notification dated 31.03.2005 transferred the functions and activities w.e.f 01.04.2005 to GUVNL. Hence GUVNL has been entrusted with function of bulk purchase of power from the generating companies within/outside the state and supply in bulk to Discoms. Accordingly, the function of bulk purchase has been undertaken by GUVNL.

Commission's Observation

GUVNL is a holding company and is responsible for purchase of electricity from various sources and supply of distribution companies and also other activities including trading of electricity.

Issue 16: Procurement of power at competitive rate

M/s Utility Users' Welfare Association has stated that Gujarat is having surplus production of 13143 MU in FY 2013-14 and this is the ideal condition to create competition amongst Discoms and the Commission may advise the GOG to allow Discoms to carry out their business independently in respect of expansion of supply area, procurement of cheaper power etc.

Response of Discoms

GUVNL has tied up power on long term basis to fulfil to requirement of Discoms. In accordance with intra-State ABT order of the Commission, power is procured on real time basis following the principle of merit order irrespective of ownership of generators, whereby cheaper power is scheduled first and thereafter costlier power till demand of Discoms is met. GUVNL has not procured power in FY 2012-13 on short-term basis.

Commission's Observation

The response of Discoms is noted.

Issue 17: Fixation of tariff to various consumers

M/s Utility Users' Welfare Association has stated that as per existing cost of power the consumer has to pay is Rs. 8 to 8.50/unit whereas in china, Japan, Korea etc. the cost of power is not more than Rs. 4 to Rs. 4.50/unit including taxes. Industries are not able to compete in the international market as well as domestic market with such



high rate. The power cost in other states in India is also lower. In view of this, the Commission is requested not to approve ARR of Discoms.

Response of Discoms

The Commission determines the tariff for various categories of consumers following relevant provisions of Electricity Act, 2003 and relevant regulations notified by the Commission taking into account the objections of the stakeholders and after due process of hearing.

Commission's Observation

The response of Discoms is noted.

Issue 18: Merit Order

M/s Utility Users' Welfare Association has stated that as per state owned generating units have remained closed under merit order dispatch system. The cost of generation of GSECL come to Rs. 3.40 to Rs. 3.60/unit with variable and fixed cost is not getting supply instructions under merit order despatch system. Whereas the cost of generation of private generating units like TPL, Ahmedabad plant is Rs. 4.44/unit and still they are operating. Why merit order despatch is not applicable to TPL? This is a question to be replied.

Response of Discoms

Principle of merit order dispatch in picking up and backing down is to be followed for the power stations tied up by respective Discoms and approved by the Commission.

Commission's Observation

The response of Discoms is noted.

Issue 19: Transmission and Distribution Losses

M/s Utility Users' Welfare Association has stated that the actual sale of various utilities is Rs. 60,352 MUs for FY 2013-14 and energy requirement for such sale is 73079 MUs; which indicates that the transmission and distribution losses is 12727 MU. The average cost per unit comes to Rs. 4.11/unit and if Rs. 1 per unit is added, the power cost works out to Rs. 5.11/ unit. For 12727 MUs @ Rs. 5.11 /unit, it



amounts to Rs. 6503 Crore and the consumers of Gujarat paid, such huge amount on account of T&D loss in FY 2013-14.

The transmission loss is about 4.5% and it goes up to 7% with pooled loss and if the GETCO / SLDC to install or augment the system in such a way that the transmission loss is reduced by 1.5%, it will be a huge amount and tariff can be reduced to that extent.

Response of Discoms

For Discom, the distribution loss is controllable and treatment for deviation is given accordingly. The company takes various steps for reduction of distribution loss and ensures that the loss trajectory as approved by the Commission is followed and achieves it by the end of control period.

Transmission loss is approved by the Commission for the transmission company and the same is considered by the company.

Commission's Observation

The distribution losses are reduced over the years to a considerable extent. Efforts are required to be made by Discoms to reduce the losses further.

Issue 20: Supply of power to TPL by GUVNL

M/s Utility Users' Welfare Association has stated that GUVNL, instead by supplying power to TPL at lower rate than Discoms, GUVNL should supply power at the same rate to Discoms as it should supply power in the area of TPL.

Response of Discoms

GUVNL trades the eventual surplus power and income earned through trading is passed to consumers of Discoms. The Commission may take a suitable decision on the suggestion of the respondent.

Commission's Observation

TPL purchases power from GUVNL on short-term basis.



Issue 21: Deciding of bulk supply tariff by GUVNL

M/s Utility Users' Welfare Association has stated that if GUVNL is a trading licensee, how can GUVNL decide bulk supply tariff and how can the Commission approve such bulk supply tariff.

Response of Discoms

The Commission, through its MYT order dated 6.9.2011, has approved the concept of Bulk Supply Tariff (BST) for the control period FY 2011-12 to 2015-16 for allocation of power purchase cost by GUVNL to Discom. As per approved BST concept, the power purchase cost is allocated to Discoms based on their consumer mix. The Commission has approved the BST concept after carrying out detailed hearings and submissions in order to keep the retail tariff uniform across the State.

Commission's Observation

The response of Discoms is noted. The Commission has approved BST (Bulk Supply Tariff) to keep uniform tariff for all Discoms.

3.2 Suggestions/objections pertaining to MGVCL

Issue 1: Need for Tariff Reduction

The Deputy Chief Electrical Engineer, Western Railways, has requested for reduction in tariff based on:

1. Steep Hike in fixed charges

The proposed fixed charges for Railways for FY 15-16 is Rs. 195/KVA, as against existing charges of Rs. 160/KVA with a hike of 21.88% in fixed charges for Railway Traction Tariff which is not justified:

2. Error in projection of Railway Tariff Revenue for FY 2015-16:

The Railway Traction Tariff Revenue has been shown as Rs. 410.66 Crore whereas in FY 2013-14 the traction bill paid was Rs. 451.66 Crore As per estimation of Railways the bills for FY 15-16 would be Rs. 484.20 Crore If this is corrected, the ARR for FY 2015-16 will get reduced by Rs. 73.48 Crore which should be corrected by Discom. The railway traction consumption is estimated about 755 MU and understatement of Railway Tariff Revenue of Rs. 73.48 Crore is to be adjusted by reducing tariff for energy charge by Rs. 0.97/Unit.



3. Fuel Cost Adjustment Charges:

Discoms considered FCA at Rs. 1.20/Unit but at present coal and fuel prices have come down very steeply and internationally i.e. the crude oil by 54% and imported coal by 17.24% but the Discoms are charging between .105 to 122 Paise/Unit in 2013-14 and between 110 to 130 paise per unit in 2014-15 till November 2014. FCA should be reduced as per international trend and the consumer should get benefit in the form of lower FCA now

4. Cross Subsidy:

In Gujarat, industrial HT and Railway traction consumers are heavily cross subsidizing other consumers which needs to be reduced. The cost for transmission line and other works from SEBs owned GSS to railway TSS is borne by the railways. The Commission is requested to reduce the existing tariff to Railways.

5. Voltage Unit/Category wise cost of supply:

The APTEL in Appeal No. 79 of 2005 (Union of India Vs. APTEL) has stated that Railway being a public utility and handling passengers and goods throughout the length and breadth of the country; its plea for reasonable tariff for Railway traction needs to be given serious thought.

6. Distribution Losses:

The cost of service has been uniformly calculated by Discoms for all categories at Rs. 5.57/KWH, which is unjustified as Railways transmission losses are too low in comparison to other categories. Hence tariff should be reduced by 10% from the existing rate.

7. Simultaneous Maximum Demand:

Since total load from traction on State grid remains more or less the same, the demand charges should be based on Simultaneous Maximum Demand, which is the sum total of all substations and it should not be levied on traction substation-wise. If this is not done, traction tariff should be a single point tariff. The Rajasthan Discoms and TATA in Maharashtra have already implemented the scheme wherein MD of individual TSS is not considered and sum total of all TSS is considered for the purpose of billing.



8. Incentive for Power factor improvement:

The PF rebate should be enhanced to 1.5% of energy charges for PF from 0.95 to 0.96 - 2%;
from 0.96 to 0.97.3%-3%;
from 0.97 to 0.99-5% and from 0.98% to 0.99%-7%.

9. EHV Rebate:

MSEDCL gives 3% as EHV rebate as against of 1% by Gujarat Discoms on energy charges to consumers above 132 KV and this rebate should be increased to 3% to promote consumers going in for higher voltages and thereby reduce T&D losses in the distribution system. Railway Electrification Work, Ahmedabad - Palanpur, has already been sanctioned and in addition electrification works are also under consideration by Ministry of Railways. As this will be beneficial for Gujarat State for faster movement of goods and passengers, a rebate of 10% in energy charges may be considered in line with Madhya Pradesh State.

Response of Discom

1. Reduction in Tariff:

The cost of transfer of coal charges to railways is much higher compared to the cost of coal itself. It can be seen from past tariff orders that there has been no revision of energy charges for railways since last seven tariff orders even though there has been substantial increase in cost of operations and service for the utility and also rate of inflation. Effective tariff of railway is lower than HT consumers. Supply to railways is given on two of Phases which induces imbalance in the system. Excess demand reflects due to bunching of trains which is charged at normal tariff and no penalty is levied. There are no load shedding and no power cuts unlike other HT consumers. Traction load transmits fluctuations and harmonics which are harmful to the system and generators resulting in reduction of life of equipment and generators, which are absorbed in the system without any extra charge. The average realization in other States is more than in Gujarat.

2. Error in revenue for FY 2015-16

The Projections for FY 2015-16 are made based on approved sales, No. of consumers and load as per Commission's order dated 29.04.2014 in Mid-term Review of Business plan.



3. FCA Charges

This is an adjustment related to power purchase cost. The PPPA charge is levied on the consumer categories on account of change in the cost of power purchase, comprising almost 80% to 90% of ARR. Any expense pertaining to regulated business of licensee has to be recovered from all consumers in same manner and therefore the PPA charges are recovered in the form of incremental energy charge (Rs./kWh) as per formula approved by the Commission.

4. Cross Subsidy

One of the primary beneficiaries of the State's efforts to supply good quality and uninterrupted supply for industries and commercial entities in the state. Most of the public service utilities are working with the principle of subsidizing some part of consumers, it is not possible for the utility to charge a particular category/consumer on the basis of cost to serve without changing the tariff of other categories of consumers. Further to ensure uniform tariff rates for all Discoms, differential bulk supply mechanism is in place. The average realization from the railways for FY 2013-14 was within the limit of +20%. For 2015-16 it has been estimated on the basis of approved connected load and sale and accordingly it is 23% only.

5. Voltage Unit / Category-wise cost of supply

The company is in the process of filing COS report for FY 2013-14.

6. Distribution Loss:

There is no issue of allocation of distribution loss to individual tariff category as tariff is to be decided on the basis of average cost of supply.

7. Simultaneous Maximum Demand:

The request of the railways that demand charges be based on maximum demand recorded at all railways traction substations (TSS) of Discoms is not reasonable due to the fact that the distribution network has to service to the maximum local demands and hence investments are triggered by local (Non-coincident / separate) peaks in demand. The Electricity Act, 2003 states that there shall not be any undue preference to a particular consumer in a service area and hence



the present system of levying demand charges at individual TSS is the most appropriate basis for recovery of demand charges as each TSS is an individual consumer. At the meeting convened by the Commission with railway authorities, an understanding was given that after allowing bunching of trains, the issue is being largely addressed. Further there is no difference between load/demand of Railways at various locations and load/demand of other industries having multiple locations/factories in Discom, who may claim simultaneous maximum demand. If the simultaneous maximum demand is allowed. It means the sum of the demand of various locations can be drawn at a single location which will have catastrophic consequences as electrical infrastructure on Discom side is not designed / provided for entire load of all locations at a particular location. Hence it is not possible to accept simultaneous maximum demand.

8. Incentive for PF improvement:

The PF incentive rate of 0.5% is fixed by the Commission in Review Petition Nos.: 1, 2 & 3 of 2007 filed by Western Railways after lot of discussion on both sides.

9. EHV Rebate:

Rebate to consumers availing power at higher voltage should be commensurate with reduction in loss from the normal voltage level for which tariff has been determined. It is difficult to quantify the exact savings on energy loss due to power supply at higher voltage class.

Commission's Observation

The response of Discom is noted.

Issue 2: Declaration of duration of off season period

M/s Kutch Salt & Allied Industries Ltd. and the Gandhidham Chamber of Commerce and Industries have stated that the salt production season occurs during the period between the two consecutive monsoons, which is uncertain and variable each year. The length of the monsoon varies throughout the country. In accordance with tariff schedule, the off season period of the industry should be a full calendar month and it has to be observed not less than three calendar months and the same has to be notified to Discom one month in advance, which is impossible.



The respondents have suggested that the duration of off season for seasonal salt industry may be shrieked to one and half months and shall be extendable up to 3 months. In case of necessity, notice of actual commencement of off season being the date of onset of monsoon locally may be accepted on the date of said issue of information to the licensee by the consumer.

Response of Discom

Consumer desirous of availing the benefit of off season period is required to give information in advance so that necessary change in Billing Master can be made and consumption during the so called off season period can be billed according to the provisions of seasonal tariff for respective tariff category. It is therefore proposed that such consumer shall intimate the base one month before the commencement of billing period about off season period. Time limit of one month is reasonable and consumer can accordingly plan.

The provisions for “seasonal consumers” are mainly to support the industrial undertakings which are seasonal in nature and cannot run their industries during the entire year”. Span of season may vary year to year and industry to industry but the same cannot be considered for less than three months, otherwise it will become highly subjective leading to operational disputes and difficulties. Time period of three months is reasonable and need not require review for the consumer to be eligible for seasonal tariff.

Commission’s Observation

The Commission agrees with the response of Discom. Notice as indicated to be given by the Industry.

Issue 3: Consumer Contribution and Depreciation

President, Yash Complex Cooperative Housing Service Society Limited has stated that in the estimate, the cost from applicants is being recovered on demand base cost data as per approval obtained by GUVNL on behalf of Discom. This is nothing but contribution of consumer towards capital assets and it is to be accounted separately. If it is included in other income, it should be separately shown as it is not liable for depreciation.



Response of Discom

As per accounting standards, every year company writes back certain part of consumer's contribution under the head "other income" and thus the appropriate effect to the consumer's contribution is given and therefore the company charges depreciation on gross value of asset.

Commission's Observation

The response of Discom is noted.

Issue 4: Passing of Agricultural subsidy burden to Industrial consumers

Federation of Gujarat Industries has stated that from the data submitted it is seen that huge amount of under recovery is there in the case Agricultural category as against substantively higher recovery from Industrial consumers. As against average cost of realization of Rs. 4.43/ unit from existing tariff and Rs. 4.56/unit from proposed tariff, recovery is Rs. 6.00/ unit and Rs. 6.26/unit respectively i.e. 36.00% being increased to 37% whereas in the case of other categories, the under recovery is showing further increasing trend even taking it beyond – 20%. A subsidy of Rs. 3313.40 Crore is receivable from GOG, which needs detailed clarification as it is being passed on to other consumers. There is also one mandate for bringing all category tariff minimum up to 50% of the realistic cost of supply.

Response of Discom

No Comments.

Commission's Observation

The issue raised will be examined.

4. Truing up for FY 2013-14

MGVCL, in its submission for True-up for FY 2013-14, has furnished the actual energy sales, expenditure and revenue for FY 2013-14, based on the audited annual accounts for FY 2013-14. The licensee has stated that the truing up for FY 2013-14 is based on the comparison of the actual performance of the FY 2013-14 with the approved aggregate revenue requirement for FY 2013-14 in the Tariff Order dated 6th September, 2011, to arrive at the gains / losses, as per the GERC (MYT) Regulations, 2011.

The Commission has analysed the components of the actual energy sales, expenses, revenue and computed gains / losses in the process of truing up for FY 2013-14.

4.1 Energy sales

Licensee's Submission

The licensee has submitted the category-wise actual energy sales for FY 2013-14, as given in the Table below:

Table 4.1: Category-wise Actual Sales for FY 2013-14

Sl. No.	Particulars	Sales (MU)	
		FY 2013-14 (Approved in MYT Order)	FY 2013-14 (Submitted in truing up)
A	LT Consumers		
1	RGP	2227.00	1918.57
2	GLP	848.00	47.96
3	Non RGP & LTMD	632.00	1149.13
4	Public Water works	207.00	183.31
5	Agriculture – Metered	1043.00	920.11
6	Agriculture – Un-metered		
7	Public Lighting	72.00	61.96
	LT Total (A)	5029.00	4281.05
B	HT Consumers		
8	Industrial HT	3012.00	2296.02
9	Railway Traction	451.00	377.81
-	HT Total (B)	3463.00	2673.83
	Grand Total (A+B)	8492.00	6954.88



Commission's Analysis

The Commission, in the Tariff order dated 6th September 2011, had approved the energy sales of 8492 MU for FY 2013-14. As against the above, MGVCCL has submitted the actual sales of 6954.88 MU for FY 2013-14.

It can be seen from the Table given above, that the actual energy sales of almost all categories are much lower. Overall, the actual energy sales of MGVCCL are lower by 1537 MU, as against those approved in the MYT Order.

The Commission approves the energy sales of 6954.88 MU for FY 2013-14, as detailed in the Table below:

Table 4.2: Energy sales approved in the truing up for FY 2013-14

Sl. No.	Particulars	Sales (MU)		
		FY 2013-14 (Approved in MYT Order)	FY 2013-14 (Submitted in truing up)	FY 2013-14 (Approved in truing up)
A	LT Consumers			
1	RGP	2227.00	1918.57	1918.57
2	GLP	848.00	47.96	47.96
3	Non RGP & LTMD	632.00	1149.13	1149.13
4	Public Water works	207.00	183.31	183.31
5	Agriculture – Metered	1043.00	920.11	920.11
6	Agriculture – Un-metered			
7	Public Lighting	72.00	61.96	61.96
	LT Total (A)	5029.00	4281.05	4281.05
B	HT Consumers			
8	Industrial HT	3012.00	2296.02	2296.02
9	Railway Traction	451.00	377.81	377.81
	HT Total (B)	3463.00	2673.83	2673.83
	Grand Total (A+B)	8492.00	6954.88	6954.88

4.2 Distribution losses

Licensee's Submission

The licensee has submitted that the actual distribution losses for FY 2013-14 were 12.41%, as against the approved level of 12.25% for FY 2013-14. The licensee has submitted that as per GERC (MYT) Regulations, 2011, the distribution losses need to be treated as controllable and any gains or losses have to be dealt with accordingly, as per provisions of GERC (MYT) Regulations, 2011.



Commission's Analysis

MGVCL has submitted that the actual distribution loss for FY 2013-14 was 12.41%, which is marginally higher than the distribution loss level of 12.25% approved by the Commission in the MYT Order dated 6th September 2011.

The Commission considers the distribution losses as controllable as per GERC (MYT) Regulations, 2011. Accordingly, the Commission considers the losses of 12.25% as approved in MYT order for the truing up of FY 2013-14 as shown in the Table below for computation of gains/(losses) due to variance of distribution losses.

Table 4.3: Distribution Losses considered for truing up for FY 2013-14 (%)

Particulars	FY 2013-14 (Approved in MYT Order)	FY 2013-14 (Actual)	FY 2013-14 (Considered in True-up)
Distribution Losses	12.25%	12.41%	12.25%

4.3 Energy Requirement

Licensee's Submission

MGVCL has submitted the energy requirement for FY 2013-14, based on the actual energy sales and the actual distribution losses for FY 2013-14. The following Table summarises the energy requirement of MGVCL for FY 2013-14.

Table 4.4: Energy Requirement and Energy Balance as Submitted by MGVCL for FY 2013-14

Sl. No.	Particulars	Unit	FY 2013-14 (Approved in MYT Order)	FY 2013-14 (Submitted in truing up)
1	Energy Sales	MU	8492.00	6954.88
2	Distribution Losses	MU	1185.00	986.00
		%	12.25	12.41
3	Energy Requirement	MU	9677.00	7940.88
4	Transmission Losses	MU	416.00	324.64
		%	-	-
5	Total Energy to be input to the Transmission System	MU	10093.00	8265.52
6	Pooled losses in PGCIL system	MU	211.00	170.89
7	Total Energy Requirement	MU	10304.00	8436.40

Commission's Analysis

MGVCL has computed the energy requirement, based on the actual distribution losses of 12.41%, actual energy sales of 6954.88 MU and transmission losses of 3.95%. It can be seen from the Table given above that the distribution losses are higher than those approved in the MYT Order. The transmission losses are lower



than those considered in the MYT order.

Accordingly, the Commission has computed the energy requirement of MGVCCL for FY 2013-14, as shown in the Table below:

Table 4.5: Energy Required / Procured Approved by the Commission for truing up for FY 2013-14

Sl. No.	Particulars	Unit	FY 2013-14 (Approved in MYT Order)	FY 2013-14 (Actuals submitted in the petition)	FY 2013-14 (considered for truing up for the purpose of energy requirement)
1	Energy Sales	MU	8492.00	6954.88	6954.88
2	Distribution Losses	MU	1186.00	986.00	985.39
		%	12.25	12.41	12.41
3	Energy Required / Procured	MU	9677.00	7940.88	7940.27
4	Transmission Losses	MU	416.00	324.64	326.54
		%	4.12	-	3.95
5	Total energy to be input to transmission system	MU	10093.00	8265.52	8266.81
6	Pooled losses in PGCIL system	MU	211.00	170.89	170.89
7	Total Energy Required / Procured	MU	10304.00	8436.40	8437.70

4.4 Power purchase cost

Licensee's Submission

The licensee has submitted that the company has been allotted share of generation capacities, as per the scheme worked out by GUVNL.

During the year, based on the requirement of power, the generation capacities have been allocated to MGVCCL. Based on the allocation, if there is surplus power, the distribution company sells the power to GUVNL. The comparison of the approved and actual power purchase cost, as submitted by MGVCCL, is as shown below:

Table 4.6: Net Power Purchase Cost for FY 2013-14

(Rs. Crore)

Particulars	Approved in MYT Order	Actual submitted
Total Power Purchase Cost	3965.49	3446.64

The Power Purchase Cost given above is the net power purchase cost, after considering the net UI Cost Payable/Receivable and the revenue from sale of power to GUVNL. MGVCCL has submitted the actual power purchase cost during FY 2013-14, as shown in Table below:



Table 4.7: Power Purchase Cost Submitted by MGVCL for FY 2013-14

(Rs. Crore)		
Particulars	FY 2013-14 (Approved)	FY 2013-14 (Actual)
Cost		
From GUVNL		3657.83
Unscheduled Interchange Power Purchase		35.62
From CPP/Wind Farm/Solar Farm		13.32
SLDC Charges		1.42
Income		
Sale of Power to GUVNL		231.62
Unscheduled Interchange		29.94
Net Power Purchase Cost	3965.49	3446.64

It is submitted by MGVCL that the variation in the approved power purchase cost by the Commission and the actual power purchase cost incurred is due to various reasons. These include change in the power purchase cost, change in quantum of power purchased, consequent changes in the transmission charges payable and GUVNL cost allocation.

The licensee has stated that variation in power purchase expenses is due to variation in the cost and quantum, which is an uncontrollable factor. The licensee has also stated that the actual distribution loss for FY 2013-14 is higher than that approved in the Tariff Order. The quantum of power purchased is lower than that approved in the Tariff Order, which has a lower cost implication as well. Accordingly, any gain or loss, on account of uncontrollable factors, is to be entirely passed on to the consumers.

However, the increase or reduction in quantum of power purchase and power purchase expense due to variation in distribution loss is a controllable factor, which would result in gain or loss under GERC (MYT) Regulations, 2011 and is dealt with accordingly.

Commission's Analysis

The Commission has examined the actual quantum of power purchased and the power purchase cost during the year FY 2013-14, based on the actual energy sales and the distribution losses submitted by MGVCL. It is observed by the Commission that GUVNL cost allocated to the Discoms is less than 4 paise/unit allowed in the MYT order dated 6th September, 2011. Hence, the Commission allows the same. The sales and the quantum of power purchase and the power purchase cost are as per the audited annual accounts for the FY 2013-14. The power purchase cost, as per



the audited annual accounts for FY 2013-14, is Rs. 3446.63 Crore, as shown in the Table below:

Table 4.8: Power purchase cost as per the audited accounts for FY 2013-14
(Rs. Crore)

Sl. No.	Particulates	Amount
1	Power Purchase from GUVNL	3657.83
2	Power Purchase from others (Wind/Solar/CPP)	13.32
3	State Load Despatch Centre charges	1.42
4	UI Import	35.62
5	Total Power Purchase	3708.19
6	Less: Power sold to GUVNL	231.62
7	Less: UI export	29.94
8	Net Power Purchase Cost (4-5-6)	3446.63

The Commission, accordingly, approves the power purchase cost of Rs. 3446.63 Crore in the truing up for FY 2013-14.

Table 4.9: Power Purchase Cost Approved by the Commission for truing up for FY 2013-14
(Rs. Crore)

Particulars	FY 2013-14 (Approved in MYT Order)	FY 2013-14 (Submitted in truing up)	FY 2013-14 (Approved in True-up)
Total Power Purchase Cost	3965.49	3446.64	3446.63

4.4.1 Gains / losses due to distribution losses

Licensee's Submission

MGVCL has submitted that there is loss of Rs. 6.13 Crore in the power purchase cost due to lower distribution loss as compared to approved distribution loss in the MYT Order. The loss is considered as controllable variation. The calculation of loss on account of lower distribution loss as submitted by MGVCL is shown in the table below:

Table 4.10 (a): Gains/ (Losses) on account of distribution losses for FY 2013-14 as submitted by MGVCL

Sl. No.	Particulars	Unit	FY 2013-14 (with Approved Distribution Losses)	FY 2013-14 (with Actual Distribution Losses)
1	Energy Sales	MU	6955	6955.00
2	Distribution Losses	MU	971	986.00
		%	12.25	12.41
3	Energy Requirement	MU	7926	7941.00
4	Saving due to Distribution Losses	MU		(15)
5	Average Cost of Power Purchase	Rs. / kWh		4.09
6	Gains/(Losses) Due to Distribution Losses	Rs. Crore		(6.13)



Commission's Analysis

The Commission had approved the distribution loss at 12.25% in the MYT order, against which the actual distribution loss of MGVL is 12.41% for FY 2013-14.

The total gains / losses, on account of lower distribution losses, are computed in the Table below:

Table 4.10 (b): Gains/ (Losses) on Account of Distribution Losses for FY 2013-14

Sl. No.	Particulars	Unit	Actuals submitted for FY 2013-14	Considered for computation of Gains/(Losses) for FY 2013-14
1	Energy Sales	MU	6955.00	6954.88
2	Distribution Losses	MU	986.00	970.91
		%	12.41	12.25
3	Energy Requirement	MU	7941.00	7925.79
4	Gains/(losses) due to Distribution Losses	MU	(15)	(15.21)
5	Average cost of Power Purchase	Rs./kWh	4.09	3.85
6	Gains/(losses) due to Distribution Losses	Rs. Crore	(6.13)	(5.86)

The total loss on account of higher distribution losses, as submitted by MGVL, is Rs. 6.13 Crore and as computed by the Commission is Rs. 5.86 Crore. MGVL has considered Wt. Avg. rate of power purchase as actual for FY 2013-14, instead of Wt. Avg. rate of power purchase approved by the Commission in MYT Order.

The Commission considered the change in power purchase cost, as uncontrollable, attributable to the variation in cost and quantum of power due to variations in sales and transmission losses, while variations in quantum of power, due to distribution losses, is considered as controllable. Accordingly, gains/losses computed on account of power purchase is shown in the Table below.

Table 4.11: Approved Gains / (losses) – Power Purchase Expenses for truing up for FY 2013-14

Particulars	FY 2013-14 (Approved in MYT Order)	FY 2013-14 (Approved in True-up)	Deviation + / (-)	(Rs. Crore)	
				Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
Total Power Purchase Cost	3965.49	3446.63	518.86	(5.86)	524.72



4.5 Fixed Charges

4.5.1 Operations and Maintenance (O&M) expenses for FY 2013-14

MGVCL has submitted Rs. 318.83 Crore towards actual O&M expenses in the truing up for FY 2013-14, as against Rs. 283.85 Crore approved for FY 2013-14 in the MYT order dated 6th September 2011, as detailed in the Table below:

Table 4.12: O&M Expenses Submitted in the truing up for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	Approved for FY 2013-14 in the MYT Order	Claimed in truing up for FY 2013-14	Deviation + / (-)
1	Employee Cost	247.79	305.29	(57.50)
2	Repairs and Maintenance	44.91	44.05	0.86
3	Administration and General Expenses	43.08	51.00	(7.92)
4	Other Debits	9.07	1.37	7.70
5	Extraordinary Items	-	-	0
6	Net Prior Period Expenses/ (Income)	-	(0.25)	0.25
7	Other Expenses Capitalised	(61.00)	(82.64)	21.64
8	Total O&M Expenses	283.85	318.83	(34.98)

Licensee's Submission

MGVCL has submitted that the O&M expenses consist of the following elements:

- Employee Expenses
- Repairs and Maintenance Expenses
- Administration and General Expenses
- Other Debits
- Extraordinary Items
- Net Prior Period Expense/ (Income)
- Other Expenses Capitalized

MGVCL has compared the O&M expenses actually incurred during FY 2013-14 with the expenses approved by the Commission for the year in the MYT Order for FY 2013-14 and arrived at a loss of Rs. 64.56 Crore (on account of controllable factors) and gain of Rs. 29.58 Crore (on account of uncontrollable factors), as detailed in the Table below:



Table 4.13: O&M Expenses and Gains/ (losses) Submitted in the truing up for FY 2013-14

(Rs. Crore)					
Sl. No	Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
1	Employee Cost	247.79	305.29	(57.50)	-
2	Repairs and Maintenance	44.91	44.05	0.86	-
3	Administration and General expenses	43.08	51.00	(7.92)	-
4	Other Debits	9.07	1.37	-	7.70
5	Extraordinary Items	-	-	-	-
6	Net Prior Period Expenses/ (Income)	-	(0.25)	-	0.25
7	Other Expenses capitalised	(61.00)	(82.64)	-	21.64
8	Total O&M Expenses	283.85	318.83	(64.56)	29.58

The O&M expenses are discussed component-wise in the following paragraphs.

4.5.2 Employee Cost

MGVCL has submitted Rs. 305.29 Crore towards actual employee cost in the truing up for FY 2013-14, as against Rs. 247.79 Crore approved in the MYT Order. The employee cost approved for FY 2013-14 in MYT order of 6th September, 2011, and submitted by MGVCL in the truing up are as given in the Table below:

Table 4.14: Employee cost submitted by MGVCL in the truing up for FY 2013-14
(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Employee cost	247.79	305.29

Licensee's Submission

MGVCL has requested that the variation in employee cost be considered as controllable and, accordingly, appropriate treatment be given to the same. MGVCL has estimated a loss of Rs. 57.50 Crore, on account of controllable employee cost.

Commission's Analysis

MGVCL has compared the actual employee cost of Rs. 305.29 Crore incurred during FY 2013-14 with Rs. 247.79 Crore approved in the MYT order for FY 2013-14. The actual employee cost, as per the audited annual accounts for FY 2013-14, is Rs. 305.29 Crore.



The Commission, accordingly, approves the employee cost at Rs. 305.29 Crore in the truing up for FY 2013-14, as per the audited annual accounts.

The Commission considers the employee cost as a controllable expense, in accordance with the provisions under Regulation 23.2 of the GERC (MYT) Regulations, 2011.

4.5.3 Repairs and Maintenance (R&M) Expenses

MGVCL has submitted Rs. 44.05 Crore towards R&M expenses in the truing up for FY 2013-14, as against Rs. 44.91 Crore approved for FY 2013-14 in the MYT Order. The R&M expenses approved for FY 2013-14 in the MYT order of 6th September 2011, and submitted by MGVCL in the truing up are as given in the Table below:

Table 4.15: R&M expenses submitted by MGVCL for the truing up for FY 2013-14
(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Repairs and Maintenance expenses	44.91	44.05

Licensee's Submission

MGVCL has submitted that the assets of MGVCL are old and require regular maintenance to ensure uninterrupted operations. It has been further submitted that MGVCL has been trying its best to ensure uninterrupted operations of the system by undertaking R&M activities which are uncontrollable in nature.

MGVCL has estimated a gain of Rs. 0.86 Crore, due to controllable factors.

Commission's Analysis

The actual R&M expenses incurred during FY 2013-14 are Rs. 44.05 Crore, as per the audited annual accounts.

The Commission, accordingly, approves the R&M expenses at Rs. 44.05 Crore in the truing up for FY 2013-14, as per the Audited Annual accounts.

The R&M expense is a controllable item of expenditure under the GERC (MYT) Regulations, 2011. The Gains / (Losses) are considered accordingly.



4.5.4 Administration and General (A&G) Expenses

MGVCL has submitted Rs. 51 Crore towards A&G expenses in the truing up for FY 2013-14, as against Rs. 43.08 Crore approved in the MYT order. The A&G expenses approved for FY 2013-14 in the MYT Order of 6th September 2011 and submitted by MGVCL in the truing up are as given in the Table below:

Table 4.16: A&G expenses submitted by MGVCL in the truing up for FY 2013-14
(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
A&G expenses	43.08	51.00

Licensee's Submission

MGVCL has submitted that the A&G expenses are categorised as controllable expenses in the GERC (MYT) Regulations, 2011, and the actual A&G expenses, when compared with the approved value, resulted in a loss of Rs. 7.92 Crore for FY 2013-14.

Commission's Analysis

The actual A&G expenses, as per the audited annual accounts for FY 2013-14, are Rs. 52.38 Crore and are higher than what was approved in the Tariff Order for FY 2013-14 by Rs. 9.30 Crore.

The Commission accordingly, approves the A&G expenses at Rs. 52.38 Crore in the truing up for FY 2013-14.

The parameters impacting A&G expenses are controllable in nature, as specified in the GERC (MYT) Regulations, 2011. The Commission, accordingly, considers the losses under A&G expenses as controllable.

4.5.5 Other Debits

Licensee's Submission

MGVCL has submitted the actual other debits at Rs. 1.37 Crore in the truing up, as against Rs. 9.07 Crore approved in the MYT order dated 6th September, 2011 for FY 2013-14.

Commission's Analysis

MGVCL has claimed actual other debits Rs. 1.37 Crore in the truing up for FY 2013-14. The actual other debts, as per Audited Annual Accounts for FY 2013-14 are Nil.



The Commission has observed that the amount of Rs. 1.37 Crore claimed by MGVCCL is not found in the audited accounts of FY 2013-14.

Hence, the other debits approved in Truing Up of FY 2013-14 by the Commission in NIL.

4.5.6 Extraordinary Items

MGVCCL has not submitted anything under extraordinary items expenditure in the truing up for FY 2013-14, as against provision of Nil approved in the Tariff Order for FY 2013-14.

Commission's Analysis

The actual extraordinary items expenditure are Nil, as per the audited annual accounts for FY 2013-14.

The Commission approves the extraordinary items expenditure as Nil in the truing up for FY 2013-14.

4.5.7 Net Prior Period Expenses / (Income)

MGVCCL has submitted Rs. 0.25 Crore towards net prior period expenses in the truing up for FY 2013-14.

Commission's Analysis

MGVCCL did not estimate the prior period expenses in the MYT petition for FY 2013-14. These net prior period expenses are recognised, through a directive in the Tariff order dated 6th September, 2011. The actual net prior period income accounted for in the audited annual accounts is Rs. (0.25) Crore.

The Commission, accordingly, approves the net prior period income of Rs. 0.25 Crore in the truing up for FY 2013-14.

4.5.8 Other expenses capitalised

MGVCCL has submitted the actual expenses capitalised at Rs. 82.64 Crore in the truing up for FY 2013-14, as against Rs. 61 Crore approved in the MYT order for the FY 2013-14.



Commission's Analysis

The Commission has observed that the other expenses capitalised represent the capitalisation of employees cost, A&G expenses and interest charges, etc., as seen from Note 29 to the Annual Accounts for FY 2013-14. The actual other expenses capitalised are Rs. 89.23 Crore, as per the audited annual accounts for FY 2013-14. These other expenses capitalised include Rs. 6.59 Crore towards capitalisation of interest charges. The interest charges capitalised are excluded from this figure, since the interest charges are allowed on normative basis, against the actual capitalisation of CAPEX.

The Commission, accordingly, approves the other expenses capitalised at Rs. 82.64 (89.23-6.59) Crore, excluding the interest charges capitalised, in the truing up for FY 2013-14.

The total O&M expenses approved in the truing up for FY 2013-14 and the gains / (losses) considered due to controllable and uncontrollable factors are detailed in the Table below:

Table 4.17: Approved O&M expenses and Gains/ (losses) in the truing up for FY 2013-14

(Rs. Crore)						
Sl. No.	Particulars	Approved for FY 2013-14 in MYT order	Approved in truing up for FY 2013-14	Deviation +/-	Gains/ (Losses) due to controllable factors	Gains/ (Losses) due to uncontrollable factors
1	Employee Cost	247.79	305.29	(57.50)	(57.50)	
2	Repairs and Maintenance	44.91	44.05	0.86	0.86	
3	Administration and General Expenses	43.08	52.38	(9.30)	(9.30)	
4	Other Debits	9.07	0.00	9.07		9.07
5	Extraordinary Items			0.00		0.00
6	Net Prior Period Expenses/(Income)		(0.25)	0.25		0.25
7	Other Expenses Capitalised	(61.00)	(82.64)	21.64		21.64
8	Total O&M Expenses	283.85	318.83	(34.98)	(65.94)	30.96

4.5.9 Capital expenditure, Capitalization and Funding of CAPEX

MGVCL has furnished the capital expenditure at Rs. 430 Crore in the truing up for FY 2013-14, as against Rs. 255 Crore approved in the ARR for FY 2013-14 in the MYT Order. The details are as given in the Table below:



Table 4.18: Capital Expenditure Submitted by MGVCCL for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	Approved in the MYT Order for FY 2013-14	Claimed in truing up for FY 2013-14
1	Distribution Schemes	64	84
2	Rural Electrification Schemes	80	257
3	Non Plan Schemes	65	22
4	NEF Schemes	25	44
5	Other New Schemes	9	15
6	Other	12	8
7	Total Capital Expenditure	255	430

Licensee's Submission

MGVCCL has submitted that the actual capital expenditure incurred during FY 2013-14 was Rs. 430 Crore, which is higher than what was approved for FY 2013-14 in the MYT order dated 6th September, 2011 by Rs. 175 Crore.

MGVCCL has provided justification for increase in capital expenditure as given below.

Normal Development:

Under the head Normal Development Scheme, generally expenses are incurred to meet with the Supply Obligation are considered. During the FY 2013-14, growth in number of consumers and load exceeded previous projections; therefore, MGVCCL had to incur Rs. 64.83 Crore against approved Rs. 42 Crore.

System Improvement:

Under the head System Improvement, expenditure incurred for carrying out renovation/ replacement of old distribution lines, bifurcation of feeders, installation/ augmentation of distribution transformers etc. are considered. System Improvement is carried out on requirement basis with an objective to improve reliability of power supply and also to reduce distribution loss. MGVCCL incurred Rs. 11.32 Crore against approved Rs. 8 Crore.

RE Scheme:

In Electrification of Hutments (Gen.) Rural Scheme total works carried out for 17,177 nos. lighting connections during the year at cost of Rs. 16.51 Crore against approved Rs. 20 Crore.

Under the head RE Schemes Company releases connections to Agriculture consumers. MGVCCL invited applications in the year 2010-11 from the registered



pending applications switch over to seek connections under Tatkal Scheme. Tatkal Scheme is on cost sharing mechanism. MGVCL released rest 27 Agriculture connections during the year at a cost of Rs. 0.47 Crore which was not envisaged in the MYT Petition.

In Dark Zone wells Scheme total works carried out for 1161 nos. Agriculture connections during the year at a cost of Rs. 23.37 Crore which was not envisaged in the MYT Petition.

In TASP-Wells+MIS & Petaparas scheme total works carried out for 7827 nos. Agriculture connections and 45 Nos. of Petaparas during the year at a cost of Rs. 124 Crore against approved Rs. 61 Crore.

In REC Normal Wells (SPA) scheme total works carried out for 5598 nos. Agriculture connections during the year at cost of Rs. 133 Crore against approved Rs. 19 Crore.

R-APDRP:

R-APDRP (Restructured Accelerated Power Development & Reforms Programme) is the Central Sector Scheme. Gol has appointed Power Finance Corporation (PFC) as the Nodal Agency.

Part-A includes:

Establishment of baseline data and adoption of IT applications for meter reading, billing & collection; energy accounting & auditing; MIS; redressal of consumer grievances; establishment of IT enabled consumer service centres etc.

Part-B includes:

Renovation, modernization and strengthening of 11 kV level substations, transformers / transformer centres, re-conductoring of lines at 11 kV level and below, load bifurcation, feeder separation, load balancing, HVDS (11 kV), Aerial Bunched Conductors in dense areas, replacement of electromagnetic energy meters with tamper proof electronics meters, installation of capacitor banks and mobile service centres etc. This scheme is to be implemented as per the guidelines issued by PFC time to time.



MGVCL has spent Rs. 20.09 Crore and the lower expenditure is due to cancellation of three towns i.e. Umreth, Khambhat and Nadiad from approved scheme due to losses below 15%. The sanctioned amount for these three towns was Rs. 27 Crore for which work could not be carried out.

SCADA/DMS includes:

The objective of reducing Aggregate Technical and Commercial (AT&C) losses in the project areas can be achieved by plugging pilferage points, supply of quality power, faster identification of faults & early restoration of power, proper metering, strategic placement of capacitor banks & switches and proper planning & designing of distribution networks. The real time monitoring & control of the distribution system through state-of-the art SCADA/DMS system encompassing all distribution substations & 11 KV network would help in achieving this objective of R-APDRP. For deriving maximum benefits it is essential that necessary upgradation of distribution S/S & 11 KV network shall be carried out to meet the SCADA/DMS requirements. SCADA is to be implemented through SCADA implementation Agency (SIA). SIA is finalised in consultation with PFC.

High Voltage Distribution System (HVDS):

MGVCL has large nos. of Low Tension category consumers. To eliminate low voltage distribution and to have better voltage profile as well as for reduction of technical loss and associated commercial loss MGVCL has proposed to shift over in phased manner to High Voltage Distribution by erecting small capacity transformers matching with the connected load of individual consumer of very small group of consumers. MGVCL could not spend the approved provision under this head.

Arial Bunch Conductor/Cable:

MGVCL has taken a task to provide Arial Bunched Cable in existing network i.e. replacement of bare conductor and erection of new lines by Arial Bunched Cable, during the year at a cost of Rs. 4 Cores against approved Rs. 3 Crore.

Under Ground Cables:

Since underground cable network has distinct advantages of reduced interruptions, increased system reliability, reduction in accidents, increased customer satisfaction



and reduction in technical loss, the company has incurred Rs. 16.84. Crore as against Rs. 5 Crore approved in MYT.

National Electricity Fund:

Government of India has approved the National Electricity Fund (interest subsidy) Scheme to promote the capital investment in the distribution sector by providing interest subsidy, linked with reform measures, on the loans taken by public and private power utilities for various capital works under distribution projects.

Under the above scheme, Ministry of power, Government of India has issued office memorandum dtd. 14th March 2012 regarding setting up of National Electricity Fund (NEF). Ministry of Power has also constituted a steering committee for sanctioning the distribution schemes to be financed by Banks/FIs etc. In the context of above NEF scheme, MGVCL had devised distribution schemes like underground cabling, re-conductoring and other infrastructure development work with a project cost of Rs. 100 Crore and submitted the proposal to REC (Nodal Agency) for approval.

Accordingly, REC/ MOP steering committee vide letter dtd. 27.8.2013 has sanctioned our NEF project Cost of Rs. 100 Crore with the total loan amount up to Rs. 83 Crore to be taken by MGVCL.

Commission's Analysis

The capital expenditure approved in the ARR for FY 2013-14 in the MYT order dated 6th September, 2011 was Rs. 255 Crore. The actual capital expenditure incurred is given as Rs. 430 Crore and this is higher by Rs. 175 Crore than the CAPEX approved in the ARR for FY 2013-14. MGVCL had revised the capital expenditure of Rs. 255 Crore, approved in the MYT Order, to Rs. 352 Crore in the Mid-term Review Petition for FY 2013-14. The actual capital expenditure reported for FY 2013-14 is Rs. 430 Crore against Rs. 352 Crore submitted in the Mid-term Review Petition. The actual expenditure incurred is higher by about Rs. 78 Crore than what was submitted in Mid-term Review Petition. The actual capitalisation is Rs. 394.14 Crore, as per the audited accounts for FY 2013-14. MGVCL has received grant of Rs. 120.47 Crore and consumer contribution of Rs. 85.38 Crore during FY 2013-14 which are as per the audited annual accounts. MGVCL has explained the reasons for increase in



expenditure under various heads. The consumer contribution and subsidies and grants have been verified from the audited annual accounts.

The Commission, accordingly, approves the Capex at Rs. 430 Crore and capitalisation at Rs. 394.14 Crore in the truing up for FY 2013-14.

The CAPEX, capitalisation and funding submitted by MGVCCL and approved by the Commission are as given in the Table below:

Table 4.19: Approved Capitalisation and Source of Funding in the truing up for FY 2013-14

(Rs. Crore)				
Sl. No.	Particulars	Approved in the MYT Order for FY 2013-14	Claimed in truing up for FY 2013-14	Approved in truing up for FY 2013-14
1	Capital Expenditure	255.00	430.00	430.00
2	Capitalisation	255.00	394.14	394.14
3	Less: Consumer Contribution	37.00	85.38	85.38
4	Less: Subsidies and Grants	129.00	120.47	120.47
5	Balance Capitalisation	89.00	188.29	188.29
6	Debt (70%)	62.30	131.80	131.80
7	Equity (30%)	26.70	56.49	56.49

4.5.10 Depreciation

MGVCCL has submitted Rs. 153.09 Crore towards depreciation in the truing up for FY 2013-14. The depreciation charges approved in the MYT order of 6th September, 2011 and submitted by MGVCCL in the truing up for FY 2013-14 are as given in the Table below:

Table 4.20: Depreciation submitted by MGVCCL in the truing up for FY 2013-14

(Rs. Crore)		
Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Depreciation	144.19	153.09

Licensee's Submission

MGVCCL has submitted that the amount of depreciation, as per actuals, is higher than the approved depreciation. MGVCCL has applied the rate of depreciation, as specified by GERC, assuming the asset mix to remain unchanged.

MGVCCL has considered the depreciation rate as per the GERC Regulations and computed the depreciation as detailed in the Table below:



Table 4.21: Fixed Assets and Depreciation Computed by MGVCL for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14	Deviation + / (-)
1	Gross Block at the Beginning of the Year	2619.02	2738.57	
2	Additions During the Year	255.00	394.14	
3	Depreciation for the Year	144.19	153.09	(8.90)
4	Average Rate of Depreciation	5.25%	5.21%	

MGVCL has further submitted that the actual depreciation for FY 2013-14, as against the value approved in the Tariff order, resulted in a net uncontrollable loss of Rs. 8.90 Crore as detailed in the Table below:

Table 4.22: Gains/ (Losses) due to Depreciation Submitted in the truing up for FY 2013-14

(Rs. Crore)				
Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
Depreciation	144.19	153.09	0	(8.90)

Commission's Analysis

The opening balance of GFA, the net addition during the year FY 2013-14 and the closing balance of GFA have been verified with the audited annual accounts for FY 2013-14. MGVCL has the opening balance of GFA at Rs. 2738.57 Crore and the depreciation is Rs. 132.00 Crore as per the audited accounts for FY 2013-14. The depreciation provided in the accounts is as per Schedule XIV to the companies Act, 1956. The depreciation rate of 5.21% adopted is in line with the depreciation rates specified in GERC (MYT) Regulations, 2011.

The Commission approves the depreciation at Rs. 153.09 Crore in the truing up for FY 2013-14, as detailed in the Table below:

Table 4.23: Approved depreciation in the truing up for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	Claimed in truing up for FY 2013-14	Approved for FY 2013-14 in truing up
1	Gross block at the beginning of the year	2738.57	2738.57
2	Additions during the year	394.14	394.14
3	Depreciation for the year	153.09	153.09
4	Average rate of depreciation	5.21%	5.21%



With regard to the computation of Gains / Losses, Regulation 23.2 considers the variation in capitalisation on account of time and/or cost overruns / efficiencies in the implementation of capital expenditure project, not attributable to an approved change in scope of such project, change in statutory levies or force majeure events, as a controllable factor. While approving the True-up for FY 2011-12, the Commission had considered the variation in the Capitalisation and the resultant change in depreciation, Interest on borrowings and Return on Equity as uncontrollable.

The Commission, accordingly, approves the Gains/losses on account of depreciation in the truing up for FY 2013-14, as detailed in the Table below:

Table 4.24: Gains/ (Losses) due to Depreciation Approved in the truing up for FY 2013-14

Particulars	Approved for FY 2013-14 in MYT order	Approved in truing up for FY 2013-14	(Rs. Crore)	
			Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
Depreciation	144.19	153.09	0	(8.90)

4.5.11 Interest and Guarantee charges

MGVCL has submitted Rs. 69.59 Crore towards interest and guarantee charges in the truing up for FY 2013-14, as against Rs. 36.99 Crore approved in the Tariff order for FY 2013-14, as detailed in the Table below:

Table 4.25: Interest and Guarantee charges submitted by MGVCL in the truing up for FY 2013-14

Particulars	(Rs. Crore)	
	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Interest and Guarantee Charges	36.99	69.59

Licensee's Submission

MGVCL has submitted that it has considered the opening balance of loan as the closing balance of loan approved in the truing up for FY 2012-13 in the Tariff Order dated 29th April 2014. The loan addition has been computed at Rs. 131.80 Crore towards loan for funding the CAPEX for FY 2013-14. MGVCL has considered the weighted average rate of interest of 9.56%, as against 11.00% approved in MYT order for FY 2013-14. In addition, MGVCL has considered the guarantee charges payable on legacy loan from the erstwhile GEB and interest on security deposits. The



details of interest and finance charges submitted by MGVCCL are as given in the Table below.

Table 4.26: Interest and Guarantee Charges Submitted in the truing up for FY 2013-14 (Rs. Crore)

Sl. No.	Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
1	Opening Loans	186.27	261.00
2	New Loans During the Year	62.30	131.80
3	Repayment During the Year	144.19	153.09
4	Closing Loans	104.38	239.72
5	Average Loans	145.33	250.36
6	Interest on Loans	15.99	23.93
7	Interest on Security Deposit	20.00	40.34
8	Guarantee Charges and Other Finance Charges	1.00	5.31
9	Total Interest and Guarantee Charges	36.99	69.59
10	Weighted Average Rate of Interest	11.00%	9.56%

MGVCCL has further submitted that interest and finance charges are categorised as uncontrollable, as per the GERC (MYT) Regulations, 2011, and,, accordingly, worked out deviation in the actuals, vis-à-vis the approved expenses under uncontrollable factors. These are, as given in the Table below:

Table 4.27: Gains/ (Losses) Submitted due to Interest & Guarantee Charges for FY 2013-14

		(Rs. Crore)		
Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
Interest and Guarantee charges	36.99	69.59	-	(32.60)

Commission's Analysis

The Commission analysed the loans for capital expenditure and approved the opening balance of loans towards capital expenditure at Rs. 261.01 Crore as the closing balance of loans, approved in the truing up for FY 2012-13 as per Tariff order dated 29th April 2014. This is taken as the opening balance of loans in the truing up for FY 2013-14. The normative addition of loans during FY 2013-14 has been considered at Rs. 131.80 Crore as approved in Table 4.19 based on the actual capitalisation as per the audited annual accounts. MGVCCL has submitted the actual interest on security deposit at Rs. 40.34 Crore as per audited annual accounts.



The repayment of loan is submitted at Rs. 153.09 Crore in the truing up for FY 2013-14, which is equivalent to the depreciation. The guarantee charges and other finance charges as per audited accounts for FY 2013-14 are Rs. 5.31 Crore. MGVCCL has submitted vide e-mail dated 12th February, 2015 details of the actual opening balance as on 1st April 2013 for each loan portfolio and the rate of interest applicable for each loan portfolio for FY 2013-14. Based on these details, the weighted average rate of interest in accordance with the Clause 39 of GERC (MYT) Regulations, 2011, works out to 8.86%. Taking all these factors into consideration, the interest charges have been computed as detailed in the Table below:

Table 4.28: Interest & Guarantee Charges Approved by the Commission in the truing up for FY 2013-14

Sl. No.	Particulars	(Rs. Crore)	
		Claimed in Truing up for FY 2013-14	Approved in truing up for FY 2013-14
1	Opening Loans	261.00	261.01
2	New Loans During the Year	131.80	131.80
3	Repayment During the Year	153.09	153.09
4	Closing Loans	239.72	239.72
5	Average Loans	250.36	250.37
6	Weighted Average Rate of Interest	9.56%	8.86%
7	Interest on Loans	23.93	22.18
8	Interest on Security Deposit	40.34	40.34
9	Guarantee and Other Finance Charges	5.31	5.31
10	Total Interest & Guarantee charges	69.59	67.83

The Commission approves the interest and guarantee charges at Rs. 67.83 Crore in the truing for FY 2013-14.

As noted in Para 4.5.10 above, the Commission is of the view that the parameters which impact interest and guarantee charges should be treated as uncontrollable.

The Commission, accordingly, approves the Gains/ (losses) on account of interest and guarantee finance charges in the truing up for FY 2013-14, as detailed in the Table below:

Table 4.29: Gains/ (losses) approved in the truing up for FY 2013-14

Particulars	Approved for FY 2013-14 in MYT order	Approved in truing up for FY 2013-14	(Rs. Crore)	
			Gains/(Losses) due to controllable factors	Gains/(Losses) due to uncontrollable factors
Interest and Guarantee Charges	36.99	67.83	-	(30.84)



4.5.12 Interest on Working Capital

MGVCL has not submitted any claim towards interest on working capital in the truing up for FY 2013-14, against Nil provision approved in the MYT order for FY 2013-14, which are as detailed in the Table below:

Table 4.30: Interest on Working Capital Submitted by MGVCL in the truing up for FY 2013-14

(Rs. Crore)		
Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Interest on Working Capital	Nil	Nil

Licensee's Submission

The licensee has submitted that the interest on working capital has been calculated based on the GERC (MYT) Regulations, 2011, at an interest rate of 14.45%, being the SBAR of SBI, as on 1st April 2013, as against 11.75% approved in the MYT order for FY 2013-14.

The detailed computation of interest on working capital is as given in the Table below:

Table 4.31: Interest on Working Capital Submitted by MGVCL in the truing up for FY 2013-14

(Rs. Crore)			
Sl. No.	Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
1	O&M Expenses (one month)	23.66	26.57
2	Maintenance Spares (1% of Opening GFA)	26.19	27.39
3	Receivables	321.63	321.44
4	Less: Security Deposits from Consumers	397.55	565.60
5	Total Working Capital	(26.07)	(190.21)
6	Rate of Interest on Working Capital	11.75%	14.45%
7	Interest on Working Capital	-	-

Commission's Analysis

The Commission has examined the computation of normative working capital and interest thereon under GERC (MYT) Regulations, 2011. Regulation 41.2 (b) specifies that interest shall be allowed at a rate equal to the State Bank Advance Rate (SBAR) as on 1st April of the Financial Year in which the petition is filed. While truing up for FY 2011-12, the Commission had decided to consider the interest rate as SBAR prevailing as on 1st April of the Financial Year for which truing up is being done, instead of 1st April of the Financial Year, in which petition is filed. The SBAR, as on



1st April 2013, was 14.45%. The Commission, accordingly, takes into consideration the SBAR of 14.45% in computation of Interest in Working Capital for FY 2013-14.

The Commission has computed the Working Capital and interest thereon, as detailed in Table below:

Table 4.32: Interest on Working Capital Approved in the truing up for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	Claimed in truing up for FY 2013-14	Approved for FY 2013-14 in truing up
1	O&M Expenses (One Month)	26.57	26.57
2	Maintenance Spares (1% of Opening GFA)	27.39	27.39
3	Receivables (1 month of Sales)	321.44	312.97
4	Less: Security Deposit From Consumers (Average)	565.60	547.17
5	Total Working Capital	(190.21)	(180.25)
6	Rate of Interest on Working Capital	14.45%	14.45%
7	Interest on Working Capital	Nil	Nil

The Commission, accordingly, approves the interest on working capital at Nil in the truing up for FY 2013-14.

4.5.13 Provision for bad debts

MGVCL has submitted Rs. 1.01 Crore towards bad debts written off in the truing up for FY 2013-14, as against Rs. 3.67 Crore approved in the Tariff order for FY 2013-14. The details are as given in the Table below:

Table 4.33: Provision for Bad Debts Submitted by MGVCL in the truing up for FY 2013-14

(Rs. Crore)		
Particulars	Approved for FY 2013-14 in MYT Order	Claimed in truing up for FY 2013-14
Provision for Bad Debts	3.67	1.01

Licensee's Submission

MGVCL has submitted that the actual value of bad debts, when compared with the approved value, resulted in a gain of Rs. 2.66 Crore, on account of controllable factors, which are as shown in the Table below:

Table 4.34: Provision for Bad Debts for FY 2013-14

(Rs. Crore)				
Particulars	Approved for FY 2013-14 in MYT Order	Claimed in truing up for FY 2013-14	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
Provision for Bad Debts	3.67	1.01	2.66	-



Commission's Analysis

MGVCL has claimed Rs. 1.01 Crore towards Provision for Bad debts / written off during FY 2013-14 as per audited accounts. As verified from the audited annual accounts the bad debts written off provided for in FY 2013-14 are Rs. 1.01 Crore. Regulation 98.8.1 specified that the Commission may allow bad debts written off as a pass through in the Aggregate Revenue Requirement subject to prudence check. MGVCL has submitted the actual bad debts written off as Rs. 0.51 Crore vide its email dated 06.01.2015.

The Commission accordingly approves the bad debts written off at Rs. 0.51 Crore in the truing up for FY 2013-14.

The deviation on account of bad debts written off is Rs. 2.66 Crore and the Commission considers the same as gain of Rs. 3.16 Crore, due to controllable factors, as detailed in the Table below:

Table 4.35: Gains/ (Losses) due to Bad Debts Approved in the truing up for FY 2013-14 (Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Approved in truing up for FY 2013-14	Gains/(Losses) due to controllable factors	Gains/(Losses) due to uncontrollable factors
Provision for Bad Debts	3.67	0.51	3.16	-

4.5.14 Return on equity

MGVCL has submitted Rs. 84.41 Crore towards return on equity in the truing up for FY 2013-14, as against Rs. 77.53 Crore approved in the MYT order dated 6th September, 2011 for FY 2013-14 which are as given in the Table below:

Table 4.36: Return on Equity Submitted by MGVCL in the truing up for FY 2013-14 (Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Return on Equity	77.53	84.41

Licensee's Submission

MGVCL has submitted that the return on equity is computed considering a rate of 14% on the average of opening and closing equity, taking into account the additions during the FY 2013-14.

The details of computation of return on equity are as given in the Table below:



Table 4.37: Return on equity submitted by MGVCCL in the truing up for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
1	Opening Equity	540.41	574.68
2	Additional Equity During the year	26.70	56.49
3	Closing Equity	567.11	631.17
4	Average Equity	553.76	602.92
5	Rate of Return on Equity	14%	14%
6	Return on Equity	77.53	84.41

Commission's Analysis

MGVCCL has furnished the opening equity of Rs. 574.68 Crore for FY 2013-14 and has submitted an equity addition of Rs. 56.49 Crore during the FY 2013-14. The opening equity, as on 01/04/2013, was Rs. 574.68 Crore, being the closing balance of equity approved in the True-up for FY 2012-13. The Commission has approved the normative equity addition at Rs. 56.49 Crore, as given in Table 4.19.

The Commission has computed the return on equity in the truing up for FY 2013-14, as detailed in the Table below:

Table 4.38: Return on equity approved for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	Claimed in truing up for FY 2013-14	Approved in truing Up for FY 2013-14
1	Opening Equity	574.68	574.68
2	Additional Equity During the Year	56.49	56.49
3	Closing Equity	631.17	631.17
4	Average Equity	602.92	602.93
5	Rate of Return on Equity	14%	14%
6	Return on Equity	84.41	84.41

The Commission approves the return on equity at Rs. 84.41 Crore in the truing up for FY 2013-14.

As noted in Para 4.5.10 above, the factors impacting the Return on Equity are considered uncontrollable.

The Commission, accordingly, approves the gains/(losses) on account of return on equity in the truing up for FY 2013-14, as detailed in the Table below:

Table 4.39: Approved Gains/(Losses) due to Return on Equity in the truing up for FY 2013-14

(Rs. Crore)				
Particulars	Approved for FY 2013-14 in MYT order	Approved in truing up for FY 2013-14	Gains/(Losses) due to controllable factors	Gains/(Losses) due to uncontrollable factors
Return on Equity	77.53	84.41	0	(6.88)



4.5.15 Taxes

MGVCL has submitted Rs. 5.38 Crore towards income tax in the truing up for FY 2013-14, as against Rs. 5.84 Crore approved in MYT order for FY 2013-14, as given in the Table below:

Table 4.40: Taxes Submitted by MGVCL in the truing up for FY 2013-14

(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Provision for Tax	5.84	5.38

Licensee's Submission

The licensee has submitted that the actual tax worked out to Rs. 5.38 Crore, as against Rs. 5.84 Crore approved in the MYT order for FY 2013-14. MGVCL has further mentioned that tax is a statutory expense and this should be allowed, without any deduction. MGVCL has submitted a gain of Rs. 0.46 Crore, on account of tax, as given in the Table below:

Table 4.41: Gains/ (Losses) Submitted due to Provision for tax for FY 2013-14

(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
Provision for Tax	5.84	5.38	0	0.46

Commission's Analysis

The Commission has obtained the copies of tax payer's counterfoil and found that the licensee has paid income tax of Rs. 5.38 Crore for FY 2013-14.

The Commission approves the tax paid at Rs. 5.38 Crore in the truing up for FY 2013-14. With regard to the computation of gains/(losses), Regulation 23.1 considers variation in taxes on income as uncontrollable.

The Commission, accordingly, approves the gains/(losses) on account of tax on income in the truing up for FY 2013-14 which are as detailed in the Table below:

Table 4.42: Approved Gains/(Losses) due to Tax in the truing up for FY 2013-14

(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT Order	Approved in truing up for FY 2013-14	Gains/(Losses) due to controllable factors	Gains/(Losses) due to uncontrollable factors
Provision for Tax	5.84	5.38	0	0.46



4.5.16 Non-Tariff Income

MGVCL has furnished the actual Non-Tariff income at Rs. 121.51 Crore in the truing up for FY 2013-14, as against Rs. 86.75 Crore approved in the MYT order dated 6th September, 2011 for FY 2013-14, which are as detailed in the Table below:

Table 4.43: Non-Tariff Income Submitted by MGVCL in the truing up for FY 2013-14
(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
Non-Tariff Income	86.75	121.51

Licensee's Submission

MGVCL has submitted that the Commission, for purpose of ARR determination, considers revenue from Tariff on accrual basis, i.e., the amount billed by MGVCL. However, consumers are not paying the entire amount in the stipulated time frame and the revenue collected (cash basis) is lower than the amount billed. In order to fund this gap (receivables so created), MGVCL has to borrow higher amount for its increased working capital requirement. The delayed payment surcharges are payable by the consumers on such unpaid amounts. In the Annual Accounts, the revenue (on the income side) is on billed basis (accrual), but the borrowings for increased working capital also get reflected as increased interest cost under the Interest and Finance Charges account. Thus, in a way, Delayed Payment Charges (DPC) are sources for funding this increased working capital. The Commission considers revenue on accrual basis and the working capital requirement, though computed on normative basis, does not take into consideration the increased receivable (beyond the norms of 1 month) amount that has to funded by MGVCL. If MGVCL were to collect the entire amount that it has billed, there would be no income from DPC (no receivable would exist). However, the Commission considers income from DPC. As a result, MGVCL is doubly penalised. The income is considered on accrual basis and simultaneously DPC is also considered in the ARR. In view of this, MGVCL requests the Commission not to consider any income from DPC, since this is a source for funding the increased working capital requirement for receivables created on account of uncollected amount not recognised (in the computing working capital requirement and Revenue) by the Commission in the ARR. The petitioner has referred to some of the cases where there is APTEL decision that DPC should not be part of ARR.

The licensee has submitted that the actual value of Non-Tariff income is Rs. 121.51 Crore, as against Rs. 86.75 Crore approved in the MYT order for FY 2013-14 and



this resulted in a net uncontrollable gain of Rs. 34.76 Crore, which is as detailed in the Table below:

Table 4.44: Gains/(Losses) Submitted Due to Non-Tariff Income for FY 2013-14
(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT Order	Claimed in truing up for FY 2013-14	Gains/(Losses) due to controllable factors	Gains/(Losses) due to uncontrollable factors
Non-Tariff income	86.75	121.51	0	34.76

Commission's Analysis

MGVCL has requested that any income from delayed payment charges may not be considered, since DPC is a source of funding the increased working capital requirement for receivables created on account of uncollected amount not recognised in computing working capital requirement and revenue.

Regulation 86.1 indicates the list of various heads to be considered for Non-Tariff income, which includes interest on delayed or deferred payment on bills (term). The Commission, accordingly, considers DPC as a part of Non-Tariff income.

The Commission has verified and found that the actual 'other income' is Rs. 153.90 Crore, including DPC of Rs. 32.39 Crore, as per the audited annual accounts for FY 2013-14. The deviation is Rs. 67.15 Crore, which is a gain.

The Commission, accordingly, approves the Non-Tariff income at Rs. 153.90 Crore in the truing up for FY 2013-14.

Table 4.45: Approved Gains/(Losses) due to Non-Tariff Income in the truing up for FY 2013-14
(Rs. Crore)

Particulars	Approved for FY 2013-14 in MYT order	Approved in truing up for FY 2013-14	Deviation +/-	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors
Non-Tariff Income	86.75	153.90	(67.15)	0	(67.15)

4.6 Revenue from sale of power

MGVCL has furnished the total revenue at Rs. 3857.24 Crore in the truing up for FY 2013-14, as against Rs. 3941.53 Crore considered in the MYT order dated 6th September, 2011 for FY 2013-14, as detailed in the Table below:



Table 4.46: Revenue Submitted in the truing up for FY 2013-14

(Rs. Crore)

Sl. No.	Particulars	Approved for FY 2013-14 in MYT order	Claimed in truing up for FY 2013-14
1	Revenue from Sale of Power	3801.53	3688.91
2	Other Income (Consumer Related)	59.00	101.62
3	Total Revenue Excluding Subsidy (1+2)	3860.53	3790.52
4	Agriculture Subsidy	81.00	66.72
5	Total Revenue Including Subsidy (3+4+5)	3941.53	3857.24

Commission's Analysis

The Commission has verified the total revenue for FY 2013-14 from the audited accounts. The actual revenue from sales, as per audited accounts, is Rs. 3688.90 Crore. The revenue shown by the licensee from sale of power to GUVNL is Rs. 231.62 Crore and UI charges receivable is Rs. 29.94 Crore for FY 2013-14 and the same has been adjusted by the Commission against the power purchase cost for the FY 2013-14, as shown in Table 4.8. The revenue approved for FY 2013-14 is given in the Table below.

Table 4.47: Revenue Approved in the truing up for FY 2013-14

(Rs. Crore)

Sl. No.	Particulars	Claimed in truing up for FY 2013-14	Approved for FY 2013-14 in truing up
1	Revenue from Sale of Power	3688.90	3688.90
2	Other income (Consumer Related)	101.62	101.62
3	Total Revenue Excluding Subsidy (1+2)	3790.52	3790.52
4	Agriculture Subsidy	66.72	66.72
5	Total Revenue Including Subsidy (3+4+5)	3857.24	3857.24

The Commission, accordingly, approves the total revenue of Rs. 3857.24 Crore, including consumer related income, at Rs. 101.62 Crore and agriculture subsidy at Rs. 66.72 Crore in the truing up for FY 2013-14.

4.7 ARR Approved in the truing up

The Commission reviewed the performance of MGVCCL under Regulation 22 of the GERC (MYT) Regulations, 2011, with reference to the audited accounts for FY 2013-14. The Commission computed the gains/(losses) for FY 2013-14, based on the truing up for each of the components discussed in the above paragraphs.



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The Aggregate Revenue Requirement (ARR) approved in the Tariff Order dated 6th September, 2012, actual submitted in truing up and approved for truing up and gains/(losses) computed, in accordance with GERC (MYT) Regulations, 2011, are as given in the Table below:

Table 4.48: ARR Approved in truing up for FY 2013-14

(Rs. Crore)							
Sl. No	Annual Revenue Requirement	Approved for FY 2013-14 in MYT Order	Claimed in truing up for FY 2013-14	Approved in truing up for FY 2013-14	Deviation +/-	Gains/ (Losses) due to Controllable Factors	Gains/ (Losses) due to Uncontrollable Factors
1	2	3	4	5	6=(3-5)	7	8
1	Cost of Power Purchase	3965.49	3446.64	3446.63	518.86	(5.86)	524.72
2	Operations and Maintenance Expenses	283.85	318.83	318.83	(34.98)		
2.1	Employee Cost	247.79	305.29	305.29	(57.50)	(57.50)	0.00
2.2	Repairs and Maintenance	44.91	44.05	44.05	0.86	0.86	0.00
2.3	Administration and General expenses	43.08	51.00	52.38	(9.30)	(9.30)	0.00
2.4	Other Debits	9.07	1.37	0.00	9.07		9.07
2.5	Extraordinary Items		0.00	0.00	0.00		0.00
2.6	Net Prior Period Expenses/(Income)		(0.25)	(0.25)	0.25		0.25
2.7	other Expenses Capitalised	(61.00)	(82.64)	(82.64)	21.64		21.64
3	Depreciation	144.19	153.09	153.09	(8.90)		(8.90)
4	Interest and Finance Charges	36.99	69.59	67.83	(30.84)		(30.84)
5	Interest On Working Capital		0.00	0.00	0.00		0.00
6	Provision for Bad Debts	3.67	1.01	0.51	3.16	3.16	0.00
7	Return on Equity	77.53	84.41	84.41	(6.88)		(6.88)
8	Provision for Tax / Tax Paid	5.84	5.38	5.38	0.46		0.46
9	Total Expenditure	4517.56	4078.94	4076.68	440.88	(68.64)	509.52
10	Less: Non-Tariff Income	86.75	121.51	153.90	(67.15)		(67.15)
11	Aggregate Revenue Requirement	4430.81	3957.44	3922.78	508.03	(68.64)	576.67

4.8 Sharing of Gains / (losses) for FY 2013-14

The Commission has analysed the gains / (losses), on account of controllable and Uncontrollable factors.



The relevant Regulations are extracted below

Regulation 24. Mechanism for pass-through of gains or losses on account of uncontrollable factors

24.1 The approved aggregate gain or loss to the Generating Company or Transmission Licensee or Distribution Licensee, on account of uncontrollable factors, shall be passed through as an adjustment in the Tariff of the Generating Company, or Transmission Licensee, or Distribution Licensee over such period as may be specified in the Order of the Commission passed under these Regulations.

24.2 The Generating Company, or Transmission Licensee, or Distribution Licensee shall submit such details of the variation between expenses incurred and revenue earned and figures approved by the Commission, in the prescribed format to the Commission, along with detailed computations and supporting documents, as may be required, for verification by the Commission.

24.3 Nothing contained in this Regulation 24 shall apply in respect of any gain or loss arising out of variations in the price of fuel and power purchase, which shall be dealt with as specified by the Commission from time to time.

Regulation 25. Mechanism for sharing of gains or losses on account of controllable factors

25.1 The approved aggregate gain to the Generating Company or Transmission Licensee or Distribution Licensee, on account of controllable factors, shall be dealt with in the following manner:

One-third of the amount of such gain shall be passed on as a rebate in Tariffs over such period as may be specified in the Order of the Commission under Regulation 22.6;

The balance amount, which will amount to two-thirds of such gain, may be utilised at the discretion of the Generating Company, or Transmission Licensee, or Distribution Licensee.



25.2 The approved aggregate loss to the Generating Company or Transmission Licensee or Distribution Licensee on account of controllable factors shall be dealt with in the following manner:

- a. One-third of the amount of such loss may be passed on as an additional charge in Tariffs over such period as may be specified in the Order of the Commission under Regulation 22.6; and
- b. The balance amount, which will amount to two-thirds of such loss, shall be absorbed by the Generating Company, or Transmission Licensee, or Distribution Licensee.”

4.9 Revenue (Gap) / Surplus for FY 2013-14

As shown in the Table below, MGVCL has submitted a revenue gap of Rs. 54.84 Crore in the truing up after treatment of gains / (losses) due to controllable / uncontrollable factors, after comparing the performance with the Tariff Order for FY 2013-14.

Table 4.49: Projected Revenue (Gap)/Surplus FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	FY 2013-14
1	Aggregate Revenue Requirement Originally Approved for FY 2013-14	4430.81
2	Gain / (Loss) on Account of Uncontrollable Factors to be passed on to the Consumers	541.41
3	Gain / (Loss) on Account of Controllable Factors to be passed on to the Consumers (1/3rd of Total Gain / Loss)	(22.68)
4	Revised ARR for FY 2013-14 (1 - 2 - 3)	3912.08
5	Revenue from Sale of Power	3688.91
6	Other Income (Consumer Related)	101.62
7	Total Revenue Excluding Subsidy (5+6)	3790.53
8	Agriculture Subsidy	66.72
9	Total Revenue Including Subsidy (7 + 8)	3857.24
10	Revised (Gap)/Surplus After Treating Gains/(Losses) due to Controllable/ Uncontrollable Factors (9 - 4)	(54.84)

The Commission compared the actual performance of MGVCL with the values approved in the MYT Order dated 6th September, 2011.

The Commission arrived at the revised ARR and revenue gap, based on the expenses and the gains / loss approved in the truing up for FY 2013-14. The revenue



(gap) / surplus approved by the Commission for FY 2013-14 is summarised in the Table below:

Table 4.50: Revenue (Gap) / Surplus Approved in the truing up for FY 2013-14
(Rs. Crore)

Sl. No.	Particulars	FY 2013-14
1	ARR Approved in Tariff Order dated 6 th September 2011 for FY 2013-14	4430.81
2	Gains / (Losses) on Account of Uncontrollable Factors to be Passed on to the Consumer	576.67
3	Gain/ (Loss) on Account Of Controllable Factors to be Passed on to the Consumers (1/3 rd of Total Gain/Loss)	(22.88)
4	Revised ARR for FY 2013-14 (1-2-3)	3877.02
5	Total Revenue From Sales	3688.90
6	Other Income (Consumer Related)	101.62
7	Agriculture Subsidy	66.72
8	Total Revenue Including Subsidy(7+8)	3857.24
9	Revised Surplus/(Gap) after Treating Gains/Losses due to Controllable/Uncontrollable factors(9-4)	(19.78)

4.10 Consolidated revenue Surplus/(Gap) of the Discoms for FY 2013-14

The consolidated revenue surplus / (gap) of the four Discoms viz. DGVCL, MGVCL, PGVCL and UGVCL, after truing up of FY 2013-14 is summarised below.

Table 4.51: Consolidated revenue (Gap) / Surplus of four Discoms for FY 2013-14
(Rs. Crore)

Sl. No.	Discoms	Surplus/(Gap)
1	DGVCL	(83.18)
2	MGVCL	(19.78)
3	PGVCL	(310.19)
4	UGVCL	(272.25)
	Total	(685.40)

While determining the ARR for FY 2015-16 in the MYT Order dated 6th September, 2011, the Commission has considered GUVNL cost of 4 paise per unit to be added to power purchase cost of each Discom. GUVNL is entrusted for purchase of power on behalf of Discoms and sale of surplus power, if any, thereby adjusting power purchase cost of the Discoms. The 4 paise / unit is allowed by the Commission to GUVNL for meeting their expenses to carry out the business entrusted to it. It is very clear that any profit earned by GUVNL out of its statutory activities should be distributed amongst Discoms as the entire cost of GUVNL is being borne by Discoms. In view of the above, the Commission decides to adjust the amount of Rs. 12.88 Crore which is profit After Tax in P& L Statement of the Annual Accounts of



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GUVNL for FY 2013-14 in proportion to the actual energy procured, as shown in the Table below:

Table 4.52: Net revenue (Gap) / Surplus approved for FY 2013-14

Sl. No.	Particulars	DGVCL	MGVCL	PGVCL	UGVCL	Total
1	Energy procured by four State Owned Discoms (in MUs)	13964	8438	24086	16463	62951
2	% share in procurement of energy	22.18%	13.40%	38.26%	26.15%	100.00%
3	Distribution of excess cost recovery by GUVNL as per % shown in (2) (in Rs. Crore)	2.86	1.73	4.93	3.37	12.88
4	Revenue (gap) / surplus after truing up of FY 2013-14 (in Rs. Crore)	(83.18)	(19.78)	(310.19)	(272.25)	(685.40)
5	Net revenue (gap) / surplus of FY 2013-14 to be considered (4+3) (in Rs. Crore)	(80.32)	(18.06)	(305.26)	(268.88)	(672.52)



5. Determination of Tariff for FY 2015-16

5.1 Introduction

This chapter deals with the determination of revenue gap/surplus, as well as consumer tariff for the FY 2015-16 for MGVCCL. The Commission has considered the ARR approved in the Mid-term Review for FY 2015-16 and the adjustment on account of True-up for FY 2013-14, while determining the revenue gap/surplus for FY 2015-16.

5.2 Approved ARR for FY 2015-16

Based on the above approach, the Table below summarises the Annual Revenue Requirement, as approved by the Commission in the Mid-term Review for the FY 2015-16. Detailed analysis of each expense head has already been provided in the Mid-term Review.

Table 5.1: Approved ARR for FY 2015-16

		(Rs. Crore)
Sl. No.	Particulars	Approved in Mid-term Review
1	Cost of Power Purchase	4048.89
2	Operations and Maintenance Expenses	360.92
2.1	Employee Cost	323.95
2.2	Repairs and Maintenance	47.67
2.3	Administration and General Expenses	66.30
2.4	Other Debits	-
2.5	Extraordinary Items	-
2.6	Net Prior Period Expenses / Income	-
2.7	Other Expenses Capitalised	(77.00)
3	Depreciation	185.47
4	Interest And Finance Charges	81.65
5	Interest on Working Capital	-
6	Provision for Bad Debts	-
7	Return on Equity	94.46
8	Provision For Tax / Tax Paid	2.11
9	Total Expenditure (1 to 8)	4773.49
10	Less: Non-Tariff Income	147.69
11	Aggregate Revenue Requirement	4625.80

5.3 Projected Revenue from existing tariff for FY 2015-16

MGVCCL has projected the Revenue from sale of power at Rs. 4665.63 Crore in the Mid-term Review for FY 2015-16 with existing Tariff, including FPPPA of Rs. 1.20 per kWh, other consumer related income and agriculture subsidy, as detailed in the Table below:



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Table 5.2: Projected Revenue for FY 2015-16

		(Rs. Crore)
Sl. No	Parameter	Projected in Mid-term Review
1	Revenue From Sale of Power @ existing tariff	3541.51
2	Revenue from FPPPA at Rs. 1.20 per kWh	960.12
3	Other Income (Consumer Related)	82.00
4	Agriculture Subsidy (Expected from Government)	82.00
5	Total Revenue	4665.63

The Category-wise estimated sales, number of consumers, connected load and sales revenue are as given in the Table below:

Table 5.3: Projected Sales and Category Wise Revenue for FY 2015-16

Sl. No	Particulars	Projected for FY 2015-16	
		Sales (MU)	Revenue (Rs. Crore)
A	LT Consumers		
1	Residential	2316.00	866.01
2	Commercial	55.00	22.29
3	Industrial LT	1349.00	720.17
4	Public Water Works	211.00	73.68
5	Agriculture	1161.00	126.53
6	Public Lighting	64.00	25.44
	Total (A)	5156.00	1834.12
B	HT Consumers		
1	Industrial HT	2473.00	1505.05
2	Railway Traction	372.00	202.33
	HT Total (B)	2845.00	1707.38
	Grand Total	8001.00	3541.51

MGVCL has projected a revenue gap of Rs. 40.02 Crore for FY 2015-16 with existing tariff, as detailed in the Table below:

Table 5.4: Projected Revenue Gap/(Surplus) for FY 2015-16 With Existing Tariff
(Rs. Crore)

Sl. No	Parameter	FY 2015-16 (Projected)
1	Aggregate Revenue Requirement	4625.80
2	Revenue Gap from True-up of FY 2013-14	54.84
3	DSM Programme expenditure	25.00
4	Total Aggregate Revenue Requirement (1 to 3)	4705.64
5	Revenue with Existing Tariff	3541.51
6	FPPPA Charges @ 120 paisa/kWh	960.12
7	Other Income (Consumer related)	82.00
8	Agriculture Subsidy	82.00
9	Total Revenue including Subsidy (5 to 8)	4665.63
10	Gap / (Surplus) (4 - 9)	40.02



Commission's Analysis

The Commission has reviewed the sales projected in the Mid-term Review and approved the sales at 8001 MU for FY 2015-16. The Commission has recomputed the sales revenue, based on the sales approved in the Mid-term Review and applying FPPPA @ Rs. 1.20 per kWh, as detailed in the Table below:

The Revenue, as projected by MGVCCL and approved by the Commission for FY 2015-16 is given in the Table below:

Table 5.5: Approved Sales and Category Wise Revenue for FY 2015-16

Sl. No	Particulars	Projected by MGVCCL		Approved by Commission	
		MU	(Rs. Crore)	MU	(Rs. Crore)
A	LT Consumers				
1	RGP	2316.00	866.01	2316.00	866.01
2	GLP	55.00	22.29	55.00	22.29
3	Industrial-LT & Non RGP	1349.00	720.17	1349.00	720.17
4	Public Lighting	64.00	25.44	64.00	25.44
5	Agriculture	1161.00	126.53	1161.00	126.53
6	Water works	211.00	73.68	211.00	73.68
	LT Total (A)	5156.00	1834.12	5156.00	1834.12
B	HT consumers				
7	Industrial - HT	2473.00	1505.05	2473.00	1505.05
8	Railways	372.00	202.33	372.00	202.33
	HT Total (B)	2845.00	1707.38	2845.00	1707.38
9	Sub Total	8001.00	3541.51	8001.00	3541.51
10	FPPPA		960.12		960.12
11	Add: Other Income (Consumer Related)		82.00		82.00
12	Total		4583.63		4583.63
13	Add: Agriculture subsidy		82.00		82.00
14	Total Revenue Including Agriculture Subsidy		4665.63		4665.63

5.4 Estimated Revenue and Revenue (Gap) /Surplus for FY 2015-16

The Commission has considered the total category-wise sales, as approved in the Mid-term Review Order and has applied the existing tariff on the approved sales for each category of consumers. The total revenue from sale of power, computed by the Commission at existing tariff, is Rs. 4501.63 Crore including FPPPA. The FPPPA rate has been considered at Rs. 1.20 per unit. The estimated (gap)/surplus for FY 2015-16 is given in the Table below:



Table 5.6: Approved Revenue (Gap) /Surplus for FY 2015-16 with Existing Tariff
(Rs. Crore)

Sl. No	Parameter	Approved for FY 2015-16
1	Aggregate Revenue Requirement	4625.80
2	Add: Revenue Gap from True-up of FY 2013-14	18.06
3	DSM Programme expenditure	25.00
3	Total Aggregate Revenue Requirement	4668.86
4	Revenue with Existing Tariff	3541.51
5	FPPPA Charges @ 120 paisa/kWh	960.12
6	Other Income (Consumer Related)	82.00
7	Agriculture Subsidy	82.00
8	Total Revenue Including Subsidy (4 to 7)	4665.63
9	(Gap) /Surplus (8-3)	(3.23)

Since the uniform tariff for State owned Discoms has been envisaged in the MYT Order dated 6th September, 2011, it is necessary to consider the consolidated (gap)/surplus of FY 2015-16 for all the State-owned Discoms, while determining the tariff for FY 2015-16. The consolidated (gap)/surplus computed for FY 2015-16 is shown in the Table below:

Table 5.7: Consolidated (Gap)/Surplus computed for FY 2015-16
(Rs. Crore)

Sl. No.	Particulars	DGVCL	MGVCL	PGVCL	UGVCL	Total
1	Total revenue gap for FY 2015-16 including truing up	(23.79)	(3.23)	(388.62)	(149.76)	(565.40)

Further, the Discoms had filed an appeal before Hon'ble APTEL on the Tariff orders dated 16.04.2013 issued by the Commission. Hon'ble APTEL has given its verdict on the Discoms' appeal on 04.12.2014. The Commission has issued the consequential order on 24.03.2015 to implement the judgement dated 04.12.2014 of Hon'ble APTEL. As per the aforementioned order of the Commission, previous years consolidated gap of Rs. 288.33 Crore has been considered. Further, an amount of Rs. 142.72 Crore actually paid by GUVNL/Discoms to M/s Adani Power Ltd. towards custom duty as against the claim of Rs. 255.43 Crore as per their letter dated 31.01.2015 is also added in the consolidated gap worked out in the Table 5.7 above. Accordingly, a total amount of Rs. 431.10 Crore (288.33+142.77) is added to the consolidated gap of Rs. 565.40 Crore as worked out in the Table 5.7 above. Thus, the total consolidated gap of Rs. 996.50 Crore (565.40+431.10) is considered by the Commission for determination of tariff for FY 2015-16.



6. Fuel and Power Purchase Price Adjustment

6.1 Fuel Price and Power Purchase Price Adjustment

The Commission, vide its order in Case No. 1309/2013 and 1313/2013 dated 29.10.2013, has approved the formula as mentioned below:

6.2 Formula

$$\text{FPPPA} = [(\text{PPCA}-\text{PPCB})]/[100-\text{Loss in \%}]$$

Where,

PPCA	is the average power purchase cost per unit of delivered energy (including transmission cost), computed based on the operational parameters approved by the Commission or principles laid down in the Power Purchase Agreements in Rs./kWh for all the generation sources as approved by the Commission while determining ARR and who have supplied power in the given quarter and transmission charges as approved by the Commission for transmission network calculated as total power purchase cost billed in Rs. Million divided by the total quantum of power purchase in Million Units made during the quarter.
PPCB	is the approved average base power purchase cost per unit of delivered energy (including transmission cost) for all the generating stations considered by the Commission for supplying power to the company in Rs./kWh and transmission charges as approved by the Commission calculated as the total power purchase cost approved by the Commission in Rs. Million divided by the total quantum of power purchase in Million Units considered by the Commission.
Loss in %	is the weighted average of the approved level of Transmission and Distribution losses (%) for the four Discoms / GUVNL and TPL applicable for a particular quarter or actual weighted average in Transmission and Distribution losses (%) for four Discoms / GUVNL and TPL of the previous year for which true-up have been done by the Commission, whichever is lower.



6.3 Base Price of Power Purchase (PPCB)

The Commission has approved the total energy requirement and the total Power Purchase Cost for all the Discoms including fixed cost, variable cost, GETCO cost, PGCIL charges, SLDC charges for the FY 2015-16 from the various sources in the order of Mid-term Review of Business Plan as given in the Table below:

Year	Total Energy Requirement (MU)	Fixed cost (Rs. Crore)	Variable costs (Rs. Crore)	GETCO costs (Rs. Crore)	GUVNL charges (Rs. Crore)	PGCIL charges (Rs. Crore)	SLDC charges (Rs. Crore)	Total Power Purchase cost (Rs. Crore)	Power Purchase cost per unit (Rs./kWh)
FY 2015-16	82798	11446	15779	2770	331	789	19	31134	3.76

As mentioned above the base Power Purchase cost for the Discoms is Rs. 3.76/kWh and the base FPPPA charge is Rs. 1.20/kWh.

GUVNL/Discoms may claim difference between actual power purchase cost and base power purchase cost approved in the table above as per the approved FPPPA formula mentioned in para 6.2 above.

Information regarding FPPPA recovery and the FPPPA calculations shall be kept on website of the Licensee / GUVNL.

For any increase in FPPPA, worked out on the basis of above formula, beyond ten (10) paise per kWh in a quarter, prior approval of the Commission shall be necessary and only on approval of such additional increase by the Commission, the FPPPA can be billed to consumers.

FPPPA calculations shall be submitted to the Commission within one month from end of the relevant quarter.

7. Wheeling charges and Cross Subsidy Surcharge

7.1 Allocation matrix

Regulation 88.1 of GERC (MYT) Regulations, 2011 of GERC stipulates that the Commission shall specify the wheeling charges of distribution wires business of the distribution licensees in its ARR and Tariff Order.

The allocation matrix for allocation of costs between wires business and retail supply business as adopted by the Commission in MYT order is shown in the Table below:

Table 7.1 Allocation matrix for segregation of wheeling and retail supply for MGVCCL

Sl. No.	Allocation Matrix	Wires Business	Retail Supply Business
1	Power Purchase Expenses	0%	100%
2.1	Employee expenses	60%	40%
2.2	Repairs & Maintenance expenses	90%	10%
2.3	Administration & General Expenses	50%	50%
2.4	Other Debits	50%	50%
2.5	Extraordinary Items	50%	50%
2.6	Net Prior Period Expenses / (Income)	25%	75%
2.7	Other Expenses Capitalised	55%	45%
3	Depreciation	90%	10%
4	Interest & Finance charges	90%	10%
5	Interest on Working Capital & Security Deposit	10%	90%
6	Bad debts written off	0%	100%
7	Income tax	90%	10%
8	Return on Equity	90%	10%
9	Non-tariff income	10%	90%

The Commission has adopted the same allocation matrix and estimated segregated approved ARR for wires business and retail supply business for MGVCCL for FY 2015-16 as given in Table 7.2.



Table 7.2: Allocation of ARR between wire and retail supply business for MGCVCL for FY 2015-16

(Rs. crore)				
Sl. No.	Allocation Matrix	App ARR for FY 2015-16	Wires Business	Supply Business
1	Cost of Power Purchase	4048.89	0.00	4048.89
2	Operations & Maintenance Expenses	360.92	228.07	132.85
2.1	Employee Cost	323.95	194.37	129.58
2.2	Repairs & Maintenance	47.67	42.90	4.77
2.3	Administration & General Charges	66.30	33.15	33.15
2.4	Other Debits	0.00	0.00	0.00
2.5	Extraordinary Items	0.00	0.00	0.00
2.6	Net Prior Period Expenses / (Income)	0.00	0.00	0.00
2.7	Other Expenses Capitalised	77.00	42.35	34.65
3	Depreciation	185.47	166.92	18.55
4	Interest & Finance Charges	81.65	73.49	8.17
5	Interest on Working Capital	0.00	0.00	0.00
6	Provision for Bad Debts	0	0.00	0.00
7	Sub-Total [1 to 6]	4676.93	468.48	4208.45
8	Return on Equity	94.46	85.01	9.45
9	Provision for Tax / Tax Paid	2.11	1.90	0.21
10	Total Expenditure (7 to 9)	4773.50	555.39	4218.11
11	Less: Non-Tariff Income	147.69	14.77	132.92
12	Aggregate Revenue Requirement (10 - 11)	4625.81	540.63	4085.19

7.2 Wheeling charges

The wheeling charges for the four Distribution Companies, DGVCL, MGCVCL, PGVCL and UGVCL for the FY 2015-16 as given below are applicable for use of the distribution system of a licensee by other licenses or generating companies or captive power plants or consumers / users who are permitted Open Access under section 42 (2) of the Electricity Act, 2003.

Sl. No.	Particulars	Units	Amount
1	Distribution costs of the four Discoms	Rs. crore	3219.06
2	Distribution cost of the four Discoms at 11 kV level (30% of total distribution cost)	Rs. crore	965.72
3	Energy input at 11 kV	MU	69965
4	Wheeling charges at 11 kV	Ps./kWh	14
5	Wheeling charges at 400 V (LT)	Ps./kWh	51

led computation of wheeling charges is shown in the Annexure 7.1.

Distribution losses

The distribution loss at 11 kV and 400 V during FY 2015-16 are given below:

Particulars	Point of energy delivered	
	11 kV	400 Volts
11 kV, 22 kV and 33 kV	10%	15.98%
400 Volts		9.55%



The losses in HT and LT network are 10% and 9.55% respectively, with respect to energy input to the segment of the system. In case injection at 11 kV levels and drawal at LT level involved use of both the networks i.e. 11 kV and LT, the combined loss works out to 15.98% of the energy injection at 11 kV network.

The above wheeling charges payable shall be uniform for all the four distribution companies viz. DGVCL, MGVCL, PGVCL and UGVCL.

7.3 Cross Subsidy Surcharge

The cross subsidy surcharge is based on the formula given in the Tariff Policy as below:

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

Where,

S is the surcharge

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

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

D is the Wheeling charges.

L is the system losses for the applicable voltage level, expressed as percentage.

The cross subsidy surcharge based on the above formula is worked out as shown in the Table below:

Table 7.3: Cross subsidy surcharge approved by the Commission for FY 2015-16

Sl. No.	Particular	HT industry
1	T	Rs. 7.41 / kWh
2	C	Rs. 6.07 /kWh
3	D	14 Ps/kWh
4	L	10%
5	S = cross subsidy surcharge	59 Ps/kWh

Computation of Cross subsidy surcharge

- 1. Discom weighted Average HT tariff including base FPPPA charge @ Rs. 1.20 per unit**

Particulars	DGVCL	MGVCL	PGVCL	UGVCL	Average HT Tariff (Rs./kWh)
HT Industry	7.43	7.82	7.12	7.51	7.41



2. Wt. average power purchase cost of top 5% at the margin excluding liquid fuel base generation and renewable power.

The Commission has considered 50% availability of energy from costlier gas based power stations looking to the limited supply of gas. The Commission has also added costs of GETCO, PGCIL, GUVNL and SLDC in the average power purchase cost as shown below:

Stations	Energy procured (MU)	Avg. Rate (Rs./kWh)	Total cost of power (Rs. crore)
GPEC	1164	6.5424	761.54
Utran extension	1003	5.4368	545.04
Sikka TPS	1974	5.0099	988.96
Total	4140		2295.53

Average power purchase cost = $\{[(2295.53/4140)*10] + [\text{GETCO, PGCIL, GUVNL and SLDC cost @ Rs. 0.52/kWh}]\} = \text{Rs. 5.96/kWh.}$

Cross subsidy surcharge

For H.T. : $S=7.41-[6.07(1+10/100)+0.14] = \text{Rs. 0.59/kWh}$



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Annexure 7.1

Computation of Wheeling Charges

Sl. No	Particulars	Unit	DGVCL	MGVCL	PGVCL	UGVCL	TOTAL
1	Distribution		533.44	540.63	1396.54	748.45	3219.06
a	11 KV level (at 30%)	Rs. Crore	160.03	162.19	418.96	224.54	965.72
b	LT level (at 70%)	Rs. Crore	373.41	378.44	977.58	523.92	2253.34
2	Energy input at Discom periphery	MU	15718	9092	977.58	523.92	69965
3	Wheeling charges at 11 kV (a/2)*1000	Ps. / kWh	10.18	17.84	16.11	11.73	13.80
4	11 kV losses (@10%)	MU	1571.80	909.20	2601.00	1914.50	6996.50
5	Sales at 11 kV	MU	6052.00	2845.00	5799.00	4483.00	19179.00
6	Energy input at LT (2 - (4+5))	MU	8094.20	5337.80	17610.00	12747.50	43789.50
7	Wheeling charges at LT (1(b)/6)*1000	Ps. / kWh	46.13	70.90	55.51	41.10	51.46
8	Sales at LT level	MU	7858.00	5156.00	14229.00	12365.00	39608.00
9	LT loss (6-8)	%	236.20	181.80	3381.00	382.50	4181.50
10	Total losses (4+9)	MU	1808.00	1091.00	5982.00	2297.00	11178.00
		%	11.50%	12.00%	23.00%	12.00%	15.98%



8. Compliance of Directives

8.1 Compliance of Directives

The Commission, in its Tariff Orders dated 2nd June, 2012, 16th April 2013 and 29th April, 2014 had issued various directives to MGVL. MGVL has submitted compliance report on the directives issued.

The Commission's comments on the status of compliance of the directives by MGVL are given below. The Commission has also issued fresh directives to the licensee, wherever required.

Earlier Directives

Directive 1: Segregation of Technical and Commercial Losses

The Commission directed MGVL to carry out similar exercise for FY 2013-14 as carried out for FY 2012-13.

Compliance

Technical Losses of the distribution system largely depend on line loading and configuration of line besides other technical parameters like type and size of conductor used, length of line, type of distribution transformers etc. Since, loading on the line is highly dynamic throughout the year; it is very difficult to ascertain technical losses by conducting Energy Audit for a part of year. Further, it varies year on year, therefore, such exercise has to be carried out every year for assessing the technical losses. Moreover, any such exercise has always some kind of assumptions.

REC has given a theoretical formula for calculation of theoretical losses (technical losses). Since, any kind of methodology has some assumptions; calculating theoretical loss with the formula given by REC provides reasonable approximation of technical loss. Company calculates theoretical loss every year for all feeders.

Sample calculation of theoretical loss is given under:

- **Feeder Parameters:**



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Sub Station	66KV V.V. Nagar SS	
Feeder Name	11KV Elecon Feeder	
<i>Feeder Category</i>	<i>Ind</i>	
<i>Max Amp</i>	<i>152</i>	
<i>Unit Sent Out</i>	<i>9497056</i>	
<i>Total KVA</i>	<i>4627</i>	
<i>Diversity Factor</i>	<i>1.598</i>	
<i>LDF</i>	<i>1.5</i>	
<i>HT line Cond Type</i>	<i>ACSR Rabbit</i>	<i>ACSR DOG</i>
<i>Cond Constant</i>	<i>1772</i>	<i>2789</i>
<i>Resist. @ 40° Cel</i>	<i>0.59659</i>	<i>0.30150</i>
<i>Load Factor</i>	<i>0.440</i>	
<i>Loss Load Factor</i>	<i>0.243</i>	
<i>Peak Power Loss</i>	<i>5.85</i>	
<i>HT Line Loss</i>	<i>12473</i>	
<i>% HT Line Loss</i>	<i>0.13%</i>	
<i>Annual Iron Loss</i>	<i>3425</i>	
<i>Annual Copper Loss</i>	<i>10457</i>	
<i>Annual Trans Loss</i>	<i>13883</i>	
<i>% Transformer Loss</i>	<i>0.15%</i>	
<i>LT Line Cond Type</i>	<i>AAAC Weasel</i>	
<i>Resist. @ 40° Cel</i>	<i>1.0692</i>	
<i>PPL in LT Line</i>	<i>34.0</i>	
<i>Annual LT Line Loss</i>	<i>72405</i>	
<i>% LT Line Loss</i>	<i>0.76%</i>	
Total Technical Loss	98761	
% Technical Loss	1.04%	

$$\begin{aligned}
 \text{(A) Diversity Factor (DF) :-} &= \frac{\text{Connected Load (in KVA)}}{\text{Peak Load (i.e. 1.732 x 11 KV x Max Amp.)}} \\
 &= \frac{4627}{10732 \times 11 \times 152} \\
 &= 1.598
 \end{aligned}$$

$$\begin{aligned}
 \text{(B) Load Factor (LF)} &= \frac{\text{Unit Sent-Out (in kWh)}}{1.732 \times 11 \text{KV} \times \text{Max Amp} \times \text{P.F} \times 8760} \\
 &= \frac{9497056}{1.732 \times 11 \times 152 \times 0.85 \times 8760} \\
 &= 0.4404
 \end{aligned}$$



$$\begin{aligned}
 \text{(C) Loss Load Factor (LLF)} &= (0.8) \times (\text{L.F.})^2 + (0.2) \times (\text{L.F.}) \\
 &= 0.8 \times (0.44)^2 + (0.2 \times 0.44) \\
 &= 0.2432
 \end{aligned}$$

(D) Calculation of Distribution Transformer loss and LT Line loss: Normative values of Iron Losses, Copper Losses Transformer capacity-Wise are as under:

Sr.No.	X'mer Capacity	Iron Loss in Watts	Copper Loss in Watts
1	63	49	790
2	100	65	998

Calculation of Iron losses:

Sr. No.	X'mer Capacity	Iron Loss in Watts (I)	Nos. of Transformers on the feeder (II)	Total Annual Iron loss in Kwh = (I) X (II) X 8760 1000
1	63	49	4	1717
2	100	65	3	1708
Total Iron Loss:				3425

Calculation of Copper Losses:

Sr. No.	X'mer Capacity	Copper Loss in Watts (I)	Nos. of Transformers on the feeder (II)	Annual Copper loss in kWh = (I) X (II) X 8760 X (LF) ² 1000
1	63	790	4	5369
2	100	998	3	5088
Total Copper Loss:				10457

$$\begin{aligned}
 \text{Total Transformation loss} &= \text{Total Iron Loss} + \text{Total Copper Loss} \\
 &= 3425 + 10457 \\
 &= 13882 \text{ kWh}
 \end{aligned}$$

(E) Calculation of HT Line Losses:



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Section	Length	KVA	KVA x Km	% VR	Node Volt	Current	I ² R Loss
HJ	0.15	1200	192.0	0.068	10.999	39.42	927.20
HI	0.04	475	19.0	0.007	11.008	15.59	73.31
HI	0.06	1200	72.0	0.025	11.010	39.38	467.65
GH	0.015	63	0.9	0.000	11.010	2.07	1.29
DF	0.200	1200	240.0	0.085	11.020	39.35	466.85
DF	0.365	100	36.5	0.013	11.021	3.28	3.24
DE	0.12	126	15.1	0.005	11.022	4.13	5.15
CD	0.095	100	9.5	0.003	11.022	3.28	1.73
BC	0.005	163	0.8	0.000	11.022	5.34	4.60
BA	0.259	0	0.0	0.000	11.022	0.00	0.00
Total	1.3	4627.0	585.9	0.005	10.999	152.01	1951.01

$$\begin{aligned}
 \text{Peak Power Losses} &= (3 \times I^2R \text{ Losses}) / 1000 \\
 &= (3 \times 1951.01) / 1000 \\
 &= 5.853
 \end{aligned}$$

$$\begin{aligned}
 \text{H.T. Line Loss} &= \text{Peak power Loss} \times 8760 \times \text{Loss Load factor} \\
 &= 5.853 \times 8760 \times 0.243 \\
 &= 12473 \text{ kWh}
 \end{aligned}$$

(F) Annual L.T. Line Loss:

DTR Cap	Nos. of DTR	Avg Amp on HT Side	Avg Amp on LT side	I ² R Loss per phase per Km	Total Length of LT line per DTR in Km	PPL in KW per DTR	Total PPL in KW
25	0	0.82	21	451	0.30	0.14	0.00
50	0	1.64	41	1803	0.50	0.90	0.00
63	4	2.07	52	2862	0.70	2.00	8.01
100	3	3.29	82	7212	1.20	8.65	25.96
200	0	6.57	164	28846	2.00	57.69	0.00
300	0	9.86	246	64904	2.80	181.73	0.00
500	0	16.43	411	180288	4.00	721.15	0.00
Total	7						33.96

Note: LT Line Losses are worked out for balanced load condition and average length of LT line per DTR is assumed.



Madhya Gujarat Vij Company Limited
Truing up for FY 2013-14 and
Determination of Tariff for FY 2015-16

$$\begin{aligned}\text{Annual L.T. Line Loss} &= \text{PPL in LT Line} \times \text{Loss Load factor} \times 8760 \\ &= 33.98 \times 0.24324 \times 8760 \\ &= 72405 \text{ kWh}\end{aligned}$$

(G) Total Technical Loss (kWh)

$$\begin{aligned}&= \text{HT Line Loss} + \text{LT Line Loss} + \text{Transformation Loss} \\ &= 12473 + 72405 + 13882 \\ &= 98760 \text{ kWh}\end{aligned}$$

(H) % Technical Loss (kWh)

$$\begin{aligned}&= (\text{Total Technical Loss} / \text{Unit Sent out}) \times 100 \\ &= (98760 / 9497056) \times 100 \\ &= 1.04 \%\end{aligned}$$

Similarly, theoretical loss (technical Loss) for all categories of feeders is calculated by the Company. Feeder category wise technical losses of all the feeders is as under:

Sl. No.	Feeder Category	% Theoretical Loss
1	AG DOM	9.10
3	HT EXP	2.01
4	INDUSTRIAL	5.66
5	URBAN	7.23
6	JGY	9.21
7	GIDC	5.10
9	OVERALL	5.72

Thus, theoretical loss of all feeders together gives us the technical loss of the company. Accordingly, theoretical loss of FY 2013-14 is 5.72 %.

Commission's Comments

The compliance is noted. Since theoretical losses are known, efforts shall be made to reduce commercial losses to bring down distribution losses.

Directive 2: Category wise Cost to Serve Report

The Commission has directed MGVCCL to submit cost of supply report for FY 2013-14.



Compliance

The cost of supply report for FY 2013-14 is under preparation and shall be submitted to the Commission at the earliest.

Commission's Comments

Compliance is noted. However, Discoms are directed to submit the cost to serve report every year along with tariff petition.

Directives issued with Tariff Order dated 16th April, 2013:

Directive 1: Meters on Distribution Transformers

MGVCL is directed to submit audit reports of all feeders to the Commission quarterly from August-2014 onwards. The installation of meters at the remaining distribution transformers feeding agriculture loads shall be expedited and quarterly progress report submitted from Sept-2014 onwards. Energy audit should be conducted in the areas/divisions, where meters are installed at distribution transformers. Quarterly reports on the energy audit shall be submitted for each of the areas from Sept-2014 onwards.

Compliance:

Present Status of metering on Distribution Transformer is as under.

Sr. No.	Particulars	Nos. as on 30.09.2014	Meters installed as on 30.09.2014	%
1	Other Than Agriculture	38577	33923	87.94
2	Agriculture	56332	55025	97.68
3	Total	94909	88948	93.72

As regards Energy Audit, it is to state that in the first phase it is required in the urban areas power consumption is comparatively high and precision in identifying theft prone area/ consumer is required. Therefore, all 17 towns of MGVCL area having population of more than 30,000 have been selected for energy audit under R-APRDRP Program.

More than 7435 Nos. of Distribution Transformers supplying power supply to consumers of selected 17 towns have been provided with the communicable type of meters. Company has set up for remote collection of data from such meters at Central Server.



Commission's Comments

Metering of balance transformers shall also be completed and a half yearly report on the same be submitted.

Directive 2: Losses on Jyoti Gram Yojna feeders

The losses on Jyoti Gram Yojna feeders are still high. More serious efforts have to be made to curb pilferage of energy to reduce the losses, apart from replacing the defective meters on priority and replacing electromagnetic meters, if any, still in service.

Compliance:

- Distribution loss of JGY Feeder:

Sr. No.	Year	Unit sent out [MUs]	Unit sold out [MUs]	% Loss
1	2009-10	1320.82	825.65	37.49
2	2010-11	1498.96	959.49	35.99
3	2011-12	1665.53	1064.40	36.09
4	2012-13	1830.29	1138.92	37.77
5	2013-14	1928.73	1236.21	35.91
6	Aug-12	788.43	513.73	34.84
7	Aug-13	851.51	562.76	33.91
8	Aug-14	944.12	621.99	34.12

Through JGY feeders, electricity is distributed in rural areas and scattered tribal areas of MGVL and contribution of JGY category loss in overall loss is also significant. Therefore, Company has chalked out long term as well as short-term strategies to reduce losses on JGY feeders. Activities carried out by the Company are furnished here under.

(A) Long term Strategies:

- System Improvement
- Feeder Bifurcation
- Conductor up gradation/Replacement
- Distribution Transformer Centre Review
 - Augmentation/De-augmentation of Transformers
 - Load Balancing of Transformers
 - Distribution Transformer near Load Centre.
 - Implementation of H.V.D.S.
 - Installation of 5 kVA single phase Transformers in small Clusters.



➤ Distribution Transformer Metering with complete Energy Accounting

(B) Short-Term Strategies:

- Special task force to monitor Distribution Loss Activities.
- Monitoring of consumption of consumers with the help of PRT 176
- Verifying consumers having “0” consumption, “F” Meters and “Locked” Consumers.
- Replacement of Faulty Meters.
- Replacement of Electromagnetic meters by Static meters
- Removal of crossing of 11 kV JGY and 11kV Agr. Dom. Feeders.
- Timely submission of H3 forms and master creations.

Focused actions in the direction of reducing the losses in JGY category are being implemented and MGCVCL is committed to reduce Losses at minimum Level.

Taking into account the area constraints, available resources and past trend, Company has planned to reduce further 2.0 % during the current financial year (i.e. 2014-15).

Commission’s Comments

Action taken is noted. Loss level of 34.12% is not at acceptable level. Serious efforts need to be made to reduce the loss substantially.

Directive 3: Billing based on simultaneous maximum demand for Railway traction Load

The Discom is directed to examine, the technical feasibility of recording and billing based on simultaneous maximum demand in its area and submit a report to the Commission by 30th April 2014.

Compliance

As already complied in last petition it is not possible to accept simultaneous maximum demand.

Commission’s Comments

Action taken is noted.



8.2 New Directive

Directive

The Commission considers HT & LT voltage loss level historically as submitted by Discoms since long. There is significant change in HT-LT ratio of distribution network in last few years. Hence, it is required to revisit HT-LT losses to arrive at a reasonable wheeling charge. In view of the above, Discoms shall initiate a study on the segregation of HT & LT losses and submit a report by September, 2015.



9. Tariff Philosophy and Tariff Proposals

9.1 Introduction

The Commission is guided by the provisions of the Electricity Act, 2003, the National Electricity Policy (NEP), the Tariff Policy, the Regulations on Terms and Conditions of Tariff issued by the Central Electricity Regulatory Commission (CERC) and GERC (MYT) Regulations, 2011 notified by the Commission.

Section 61 of the Act lays down the broad principles, and guidelines for determination of retail supply tariff. The basic principle is to ensure that the tariff should progressively reflect the cost of supply of electricity and reduce the cross subsidies amongst categories within a period to be specified by the Commission.

9.2 Proposal of Discom for Tariff Structure and changes in Tariff Structure

Tariff Proposal

The Discoms have submitted that the total revenue gap of all four state distribution companies is around 4.07% of the total revenue at existing tariff. The subsequent paragraphs highlight the changes proposed by Discom in order to bridge the existing revenue gap.

9.2.1 In order to bridge the revenue gap, Discom has proposed change in the tariff for various categories of consumers except agriculture. Discom has proposed overall increase of 2.57% over existing tariff and recovery of remaining unrecovered gap is proposed to be met through efficiency improvement measures. Further, the Discoms vide letter dated 31.01.2015 had requested the Commission to consider the impact of Hon'ble APTEL's judgement dated 04.12.2014.

9.2.2 Over and above change in tariff, the Company is proposing some minor modifications in current tariff structure. The proposed changes are outlined in the subsequent paragraphs.

9.2.3 Proposed changes in the tariff structure (LT Category):

A. Fixed Charges for BPL (Urban/ Rural) Consumers:



The present tariff structure has uniform fixed charges for all the consumers under BPL category. Considering the connected load 2 KW, it is proposed to levy fixed charges on BPL consumers having connected load of more than 2 kW at par with regular residential consumers.

Existing Fixed Charges

Fixed Charges	Rs. 5/- per month
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Proposed Fixed Charges

Up to 2 kW	Rs. 5/ per month
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Above 2 kW	Rate as per RGP (Urban/Rural as applicable)
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B. Clarity on applicability of GLP category:

The utilities in the past have faced certain issues pertaining to applicability of this category to various consumers due to certain ambiguity in defining applicability of this category. Hence, following change is proposed in order to bring clarity regarding applicability of this category to identified consumers enabling ease of implementation.

Existing Provision

This tariff is applicable to the educational institutes and other institutions registered with the Charity Commissioner and research and development laboratories.

Proposed Provision

This Tariff is applicable to the:

- 1. Educational institutes operated / owned by Government or by Government owned organisations/ companies;*
- 2. Institutions registered with the Charity Commissioner; and*
- 3. Research and development laboratories not involved in any manufacturing or service industry.*

C. Sub categorisation of GLP category:

Discom has submitted that presently the GLP category has no sub-categories. It



is proposed to introduce two new sub categories under GLP category. The first sub-category is for connected load up to 15 kW and second is for connected load above 15 kW. Further, demand based tariff is proposed for consumers with connected load above 15 kW. Demand based tariff is proposed for higher connected load consumers to align them with the non-RGP consumers.

Existing Provision

(a)	Fixed Charges	Rs. 60/- per month
(b)	Energy Charges	380 Paise per Unit

Proposed Provision

(a) Connected load up to 15 kW

(a)	Fixed Charges	Rs. 75/- per month
(b)	Energy Charges	380 Paise per Unit

(b) Connected load above 15 kW

Fixed Charges

(a)	For billing demand	5 Rs per kW per month
(b)	For billing demand in excess of contract demand	10 Rs per kW per month

Definition of Billing Demand:

The billing demand shall be highest of the following, rounded to the next full kW:

- a. Eighty-five percent of the contract demand
- b. Actual maximum demand registered during the month
- c. 15 kW.

Energy Charges

Energy Charges	380 Paise per Unit
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Discom has submitted that on account of no past trends, it is difficult to estimate the fixed charges which are likely to be recovered from consumers having connected load above 15 kW due to introduction of demand based tariff and hence the same has not been submitted in the formats. However, recovery of revenue for GLP on an existing structure has been submitted for reference. Discom has requested the Commission to consider the above submission considering the practical issue faced by Discom.



D. Intimation of off-seasonal period by Seasonal consumers of Non-RGP & LTMD Tariff Category:

Revision in the provision is proposed to bring in the necessary clarity over intimation of off-seasonal period by the seasonal consumers.

Existing Provision

- 2) *A consumer, who desires to be billed for minimum charges on annual basis, shall intimate in writing in **advance** about the off-season during which energy consumption, if any, shall be mainly for overhauling of the plant and machinery. The off-season period at any time shall be a full calendar month/months. The total period of off-season so declared and observed shall be not less than three calendar months in a calendar year.*

Proposed Provision

- 2) *A consumer, who desires to be billed for minimum charges on annual basis, shall intimate in writing **at least one month before commencement of billing period** about the off-season during which energy consumption, if any, shall be mainly for overhauling of the plant and machinery. The off-season period at any time shall be a full calendar month/months. The total period of off-season so declared and observed shall be not less than three calendar months in a calendar year.*

E. Restriction over consumption during off-seasonal period by Seasonal consumers of Non-RGP Tariff Category:

Under the head of Minimum Bill per Installation for seasonal consumer, following clause is proposed to be inserted:

- *Up to 10% of monthly average consumption of the previous seasonal period or up to 15% of contracted load can be availed every month during off-seasonal period. In case the consumer is exceeding any of these conditions then such consumer for the relevant billing period shall be billed under tariff category of Non-RGP as if non-seasonal consumer.*

F. Restriction over consumption during off-seasonal period by Seasonal consumers of LTMD Tariff Category:



Discom has proposed to include the following clause under the head of seasonal consumers taking LTMD supply:

- *“Up to 10% of monthly average consumption of the previous seasonal period or up to 15% of contracted load can be availed every month during off-seasonal period. In case the consumer is exceeding any of these conditions then such consumer for the relevant billing period shall be billed under tariff category of LTMD as if non-seasonal consumer.*

G. Restriction over consumption beyond prescribed hours by consumers of Non-RGP Night & LTMD Night Tariff Category:

Minor modification has been proposed over consumption beyond prescribed hours.

Existing Provision

Note:

- a. *10% of total units consumed **and** 15% of the contract load can be availed beyond the prescribed hours.*

Proposed Provision

Note:

- a. *10% of total units consumed **or** 15% of the contract load can be availed beyond the prescribed hours.*

H. Modification in Tariff for power supply for street lighting purposes to consumers other than the local authorities and industrial estates:

Discom has proposed change to bring clarity for implementation as given below:

Existing Provision

Renewal and Replacement of Lamps:

*The consumer shall arrange for renewal and replacement of lamp at his cost by person authorized by him in this behalf under **Rule 3 of the Indian Electricity Rules, 1956**/ Rules issued by CEA under the Electricity Act, 2003.*

Maintenance other than Replacement of Lamps:

*Maintenance of the street lighting **system** shall be carried out by Distribution Licensee.*



Proposed Provision

Renewal and Replacement of Lamps:

*The consumer shall arrange for renewal, **maintenance** and replacement of lamp, **associated Fixture, connecting wire, disconnecting device, switch including time switch etc.** at his cost by person authorized by him in this behalf under Rules issued by CEA under the Electricity Act, 2003.*

Maintenance other than Replacement of Lamps:

*Maintenance of the street light **conductor provided on pole to connect the street light** shall be carried out by Distribution Licensee.*

9.2.4 Proposed changes in the tariff structure (HT Category):

A. Intimation of off-seasonal period by Seasonal consumers of HTP-I Category:

Discom has proposed to provide clarity over intimation of off-seasonal period as given below:

Existing Provision

- 3) *A consumer, who desires to be billed for minimum charges on annual basis, shall intimate in writing in **advance** about the off-season during which energy consumption, if any, shall be mainly for overhauling of the plant and machinery. The off-season period at any time shall be a full calendar month/months. The total period of off-season so declared and observed shall be not less than three calendar months in a calendar year.*

Proposed Provision

- 3) *A consumer, who desires to be billed for minimum charges on annual basis, shall intimate in writing at **least one month before commencement of billing period** about the off-season during which energy consumption, if any, shall be mainly for overhauling of the plant and machinery. The off-season period at any time shall be a full calendar month/months. The total period of off-season so declared and observed shall be not less than three calendar months in a calendar year.*

B. Under the head seasonal consumers taking HT Supply, following clause is proposed to be inserted.

“Up to 10% of monthly average consumption of the previous seasonal period or up to 15% of contracted load can be availed every month during off-seasonal



period. In case *the consumer is exceeding any of these conditions, then such consumer for the relevant billing period shall be billed under tariff category of HTP-I as if non-seasonal consumer.*”

C. Restriction over consumption beyond prescribed hours by consumers of HTP- IV Tariff Category:

Minor modification has been proposed over consumption beyond prescribed hours.

Existing Provision

Note:

- a. *10% of total units consumed **and** 15% of the contract load can be availed beyond the prescribed hours.*

9.3 Commission’s Analysis

The Commission has carried forward the process of rationalization of tariff in order to ensure that the tariffs reflect, as far as practicable, the cost of supply. The Commission has also tried to address operational and field level issues – keeping in view the interest of consumers – while rationalizing tariff structure.

The Commission decides to continue the existing tariff structure except rationalization of tariff structure for residential category by introducing additional slabs of 101 to 200 units and 201 to 250 units to promote energy conservation taking into consideration the capacity to pay. Further, the Commission has considered to approve the change proposed for seasonal consumers regarding intimation of off seasonal period as proposed by the Discoms. This will give operational clarity to both, consumers as well as Discoms. The Commission has also considered the proposed change related to renewal and replacement of lamps as well as maintenance other than replacement of lamps in the street light category applicable to consumers other than local authorities and industrial estates. This will also provide ample clarity while implementing the tariff.

Discoms have proposed a significant increase in demand charge in order to compensate for the fixed charge incurred by them. However, the commission is of the view that demand charge should not be increased beyond a certain limit in order



to keep the impact of tariff hike at reasonable level for the consumers having lower consumption. The Commission decides to increase fixed and energy charge in such a way that tariff hike for all categories of consumers remains moderate, irrespective whether usage of electricity is lower or extensive. Further, the hike in energy charge instead of higher increase in fixed charge encourages efficient use of electricity and promotes DSM measures.

In view of the above, while increasing tariff, the Commission has taken care of paying capacity of the consumers. The Commission has not increased the energy charge for monthly consumption up to 200 units for residential purpose. Also, the fixed charge for the single phase residential consumers is not increased. Further, the Commission has not increased the tariff for BPL and Agriculture consumers. There is a moderate increase of Rs. 5 per installation per month in fixed charge of consumers having connected load above 6 kW. For the rest of the consumer categories average increase of 13 paise/unit including both, increase in fixed as well as energy charge, is approved by the Commission.

Further, in order to encourage night time consumption, the Commission has reduced the demand charge of HTP-IV category consumers from 1/2 to 1/3 of HTP-I consumers. This will help Discoms to utilise generation sources which otherwise requires backing down in the off-peak periods.

With this increase, an amount of Rs. 780.90 Crore of additional revenue is estimated for the four Discoms for addressing significant portion of the gap of Rs. 996.48 Crore. Discoms are required to make up the balance gap of Rs. 215.58 Crore by taking measure for improving efficiency in its operations.



COMMISSION'S ORDER

The Commission approves the Aggregate Revenue Requirement (ARR) for MGVCL for FY 2015-16 as shown in the Table below:

Approved ARR for MGVCL for FY 2015-16

(Rs. Crore)		
Sl. No.	Particulars	FY 2015-16
1	Cost of power purchase	4048.89
2	Operations & Maintenance expenses	360.92
2.1	Employee cost	323.95
2.2	Repairs and Maintenance	47.67
2.3	Administration and General expenses	66.30
2.4	Other debits	-
2.5	Extraordinary items	-
2.6	Net prior period expenses / income	-
2.7	Other expenses capitalised	(77.00)
3	Depreciation	185.47
4	Interest and finance charges	81.65
5	Interest on working capital	-
6	Provision for bad debts	-
7	Return on equity	94.46
8	Provision for tax / tax paid	2.11
9	Total expenditure (1 to 8)	4773.49
10	Less: Non-Tariff income	147.69
11	Aggregate Revenue Requirement	4625.80

The retail supply tariffs for MGVCL distribution area for FY 2015-16 determined by the Commission are annexed to this order.

This order shall come into force with effect from the 1st April, 2015. The revised rate shall be applicable for the electricity consumption from the 1st April, 2015 onwards.

Sd/-

SHRI K.M. SHRINGARPURE
Member

Sd/-

DR. M.K. IYER
Member

Sd/-

SHRI PRAVINBHAI PATEL
Chairman

Place: Gandhinagar
Date: 31/03/2015





ANNEXURE: TARIFF SCHEDULE
TARIFF FOR SUPPLY OF ELECTRICITY AT LOW TENSION, HIGH TENSION,
AND EXTRA HIGH TENSION
Effective from 1st April, 2015

GENERAL

1. The tariff figures indicated in this tariff schedule are the tariff rates payable by the consumers of unbundled Distribution Licensees of the erstwhile GEB viz. DGVCL, MGVCL, PGVCL and UGVCL.
2. These tariffs are exclusive of Electricity Duty, tax on sale of electricity, taxes and other charges levied by the Government or other competent authorities from time to time which are payable by the consumers, in addition to the charges levied as per the tariff.
3. All these tariffs for power supply are applicable to only one point of supply.
4. The charges specified are on monthly basis. Distribution Licensee may decide the period of billing and adjust the tariff rate accordingly.
5. Except in cases where the supply is used for purposes for which a lower tariff is provided in the tariff schedule, the power supplied to any consumer shall be utilized only for the purpose for which supply is taken and as provided for in the tariff.
6. Meter charges shall be applicable as prescribed under 'GERC (Licensee's Power to Recover Expenditure incurred in providing supply and other Miscellaneous Charges) Regulations, 2005 as in force from time to time.
7. The various provisions of the GERC (licensee's power to recover expenditure incurred in providing supply and other miscellaneous charges) Regulations will continue to apply.
8. Conversion of Ratings of electrical appliances and equipments from kilowatt to B.H.P. or vice versa will be done, when necessary, at the rate of 0.746 kilowatt equal to 1 B.H.P.
9. The billing of fixed charges based on contracted load or maximum demand shall be done in multiples of 0.5 (one half) Horse Power or kilo watt (HP or kW) as the case may be. The fraction of less than 0.5 shall be rounded to next 0.5. The billing of energy charges will be done on complete one kilo-watt-hour (kWh).
10. The Connected Load for the purpose of billing will be taken as the maximum load connected during the billing period.



11. The Fixed charges, minimum charges, demand charges, meter rent and the slabs of consumption of energy for energy charges mentioned shall not be subject to any adjustment on account of existence of any broken period within billing period arising from consumer supply being connected or disconnected any time within the duration of billing period for any reason.
12. Contract Demand shall mean the maximum kW / kVA for the supply of which licensee undertakes to provide facilities to the consumer from time to time.
13. Fuel Cost and Power Purchase Adjustment Charges shall be applicable in accordance with the Formula approved by the Gujarat Electricity Regulatory Commission from time to time.
14. Payment of penal charges for usage in excess of contract demand / load for any billing period does not entitle the consumer to draw in excess of contract demand / load as a matter of right.
15. The payment of power factor penalty does not exempt the consumer from taking steps to improve the power factor to the levels specified in the Regulations notified under the Electricity Act, 2003 and licensee shall be entitled to take any other action deemed necessary and authorized under the Act.
16. Delayed payment charges for all consumers:

No delayed payment charges shall be levied if the bill is paid within ten days from the date of billing (excluding date of billing).

Delayed payment charges will be levied at the rate of 15% per annum in case of all consumers except Agricultural category for the period from the due date till the date of payment if the bill is paid after due date. Delayed payment charges will be levied at the rate of 12% per annum for the consumer governed under Rate AG from the due date till the date of payment if the bill is paid after due date.

For Government dues, the delayed payment charges will be levied at the rate provided under the relevant Electricity Duty Act.



PART - I

**SCHEDULE OF TARIFF FOR SUPPLY OF ELECTRICITY
AT LOW AND MEDIUM VOLTAGE**

1.0 RATE: RGP

This tariff is applicable to all services in the residential premises which are not covered under 'Rate: RGP (Rural)' Category.

Single-phase supply- Aggregate load up to 6 kW

Three-phase supply- Aggregate load above 6 kW

1.1 FIXED CHARGES / MONTH:

Range of Connected Load: (Other than BPL Consumers)

(a)	Up to and including 2 kW	Rs. 15/- per month
(b)	Above 2 to 4 kW	Rs. 25/- per month
(c)	Above 4 to 6 kW	Rs. 45/- per month
(d)	Above 6 kW	Rs. 70/- per month

For BPL Household Consumers:

Fixed charges	Rs. 5/- per month
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PLUS

**1.2 ENERGY CHARGES: FOR THE TOTAL MONTHLY CONSUMPTION:
(OTHER THAN BPL CONSUMERS)**

(a)	First 50 units	315 Paise per Unit
(b)	Next 50 units	360 Paise per Unit
(c)	Next 100 units	425 Paise per Unit
(d)	Next 50 units	435 Paise per Unit
(e)	Above 250 units	530 Paise per Unit

**1.3 ENERGY CHARGES: FOR THE TOTAL MONTHLY CONSUMPTION:
FOR THE CONSUMER BELOW POVERTY LINE (BPL)****

(a)	First 30 units	150 Paise per Unit
(b)	For remaining units	Rate as per RGP

**The consumer who wants to avail the benefit of the above tariff has to produce a copy of the Card issued by the authority concerned at the sub-division office of the Distribution Licensee. The concessional tariff is only for 30 units per month.

1.4 MINIMUM BILL (EXCLUDING METER CHARGES)

Payment of fixed charges as specified in 1.1 above.



2.0 RATE: RGP (RURAL)

This tariff is applicable to all services for residential premises located in areas within Gram Panchayat as defined in the Gujarat Panchayats Act.

However, this is not applicable to villages which are located within the geographical jurisdiction of Urban Development Authority.

Single-phase supply- Aggregate load up to 6 kW

Three-phase supply- Aggregate load above 6 kW

2.1 FIXED CHARGES / MONTH:

Range of Connected Load: (Other than BPL Consumers)

(a)	Up to and including 2 kW	Rs. 15/- per month
(b)	Above 2 to 4 kW	Rs. 25/- per month
(c)	Above 4 to 6 kW	Rs. 45/- per month
(d)	Above 6 kW	Rs. 70/- per month

For BPL Household Consumers:

Fixed charges	Rs. 5/- per month
---------------	-------------------

PLUS

2.2 ENERGY CHARGES: FOR THE TOTAL MONTHLY CONSUMPTION:
(OTHER THAN BPL CONSUMERS)

(a)	First 50 units	275 Paise per Unit
(b)	Next 50 units	320 Paise per Unit
(c)	Next 100 units	385 Paise per Unit
(d)	Next 50 units	395 Paise per Unit
(e)	Above 250 units	500 Paise per Unit

2.3 ENERGY CHARGES: FOR THE TOTAL MONTHLY CONSUMPTION:
FOR THE CONSUMER BELOW POVERTY LINE (BPL) **

(a)	First 30 units	150 Paise per Unit
(b)	For remaining units	Rate as per RGP (Rural)

**The consumer who wants to avail the benefit of the above tariff has to produce a copy of the Card issued by the authority concerned at the sub-division office of the Distribution Licensee. The concessional tariff is only for 30 units per month.

2.4 MINIMUM BILL (EXCLUDING METER CHARGES):

Payment of fixed charges as specified in 2.1 above.

Note: If the part of the residential premises is used for non-residential (commercial) purposes by the consumers located within 'Gram Panchayat' as



defined in Gujarat Panchayat Act, entire consumption will be charged under this tariff.

3.0 RATE: GLP

This tariff is applicable to the educational institutes and other institutions registered with the Charity Commissioner and research and development laboratories.

(a)	Fixed charges	Rs. 70/- per month
(b)	Energy charges	390 Paise per Unit

4.0 RATE: NON-RGP

This tariff is applicable to the services for the premises those are not covered in any other tariff categories and having aggregate load up to and including 40 kW.

4.1 FIXED CHARGES PER MONTH:

(a)	First 10 kW of connected load	Rs. 50/- per kW
(b)	For next 30 kW of connected load	Rs. 85/- per kW

PLUS

4.2 ENERGY CHARGES:

(a)	For installation having contracted load up to and including 10 kW: for entire consumption during the month	435 Paise per Unit
(b)	For installation having contracted load exceeding 10 kW: for entire consumption during the month	465 Paise per Unit

4.3 MINIMUM BILL PER INSTALLATION FOR SEASONAL CONSUMERS

- (a) "Seasonal Consumer", shall mean a consumer who takes and uses power supply for ice factory, ice candy machines, ginning and pressing factory, oil mill, rice mill, huller, salt industry, sugar factory, khandsari, cold storage plants (including such plants in fisheries industry), tapioca industries manufacturing starch, etc.
- (b) Any consumer, who desires to be billed for the minimum charges on annual basis shall intimate to that effect in writing atleast one month before commencement of billing period about the off-season during



which energy consumption, if any, shall be mainly for overhauling of the plant and machinery. The off-season period at any time shall be a full calendar month/months. The total period of the off-season so declared and observed shall be not less than three calendar months in a calendar year.

- (c) The total minimum amount under the head “Fixed and Energy Charges” payable by the seasonal consumer satisfying the eligibility criteria under sub-clause (a) above and complying with the provision stipulated under sub-clause (b) above shall be Rs. 1800 per annum per kW of the contracted load.
- (d) The units consumed during the off-season period shall be charged for at a flat rate of 480 Paise per unit.
- (e) The electricity bills related to the off-season period shall not be taken into account towards the amount payable against the annual minimum bill. The amount paid by the consumer towards the electricity bills related to the seasonal period only under the heads “Fixed Charges” and “Energy Charges”, shall be taken into account while determining the amount of short-fall payable towards the annual minimum bill as specified under sub-clause (c) above.

5.0 RATE: LTMD

This tariff is applicable to the services for the premises those are not covered in any other tariff categories and having aggregate load above 40 kW and up to 100 kW.

This tariff shall also be applicable to consumer covered in category- ‘Rate: Non-RGP’ so opts to be charged in place of ‘Rate: Non-RGP’ tariff.

5.1 FIXED CHARGES:

(a)	For billing demand up to the contract demand	
	(i) For first 40 kW of billing demand	Rs. 90/- per kW per month
	(ii) Next 20 kW of billing demand	Rs. 130/- per kW per month
	(iii) Above 60 kW of billing demand	Rs. 195/- per kW per month
(b)	For billing demand in excess of the contract demand	Rs. 265/- per kW



PLUS

5.2 ENERGY CHARGES:

For the entire consumption during the month	470 Paise per Unit
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PLUS

5.3 REACTIVE ENERGY CHARGES:

For all the reactive units (KVARH) drawn during the month	10 paise per KVARH
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5.4 BILLING DEMAND

The billing demand shall be highest of the following:

- (a) Eighty-five percent of the contract demand
- (b) Actual maximum demand registered during the month
- (c) 15 kW

5.5 MINIMUM BILL

Payment of demand charges every month based on the billing demand.

5.6 SEASONAL CONSUMERS TAKING LTMD SUPPLY:

5.6.1 The expression, "Seasonal Consumer", shall mean a consumer who takes and uses power supply for ice factory, ice-candy machines, ginning and pressing factory, oil mill, rice mill, salt industry, sugar factory, khandsari, cold storage plants (including such plants in fishery industry), tapioca industries manufacturing starch, pumping load or irrigation, white coal manufacturers etc.

5.6.2 Any consumer, who desires to be billed for the minimum charges on annual basis shall intimate to that effect in writing atleast one month before commencement of billing period about the off-season during which energy consumption, if any, shall be mainly for overhauling of the plant and machinery. The off-season period at any time shall be a full calendar month/months. The total period of the off-season so declared and observed shall be not less than three calendar months in a calendar year.

5.6.3 The total minimum amount under the head "Demand and Energy Charges" payable by a seasonal consumer satisfying the eligibility criteria under sub



clause 5.6.1 above and complying with provisions stipulated under sub clause 5.6.2 above shall be Rs. 2970 per annum per kW of the billing demand.

5.6.4 The billing demand shall be the highest of the following:

- (a) The highest of the actual maximum demand registered during the calendar year.
- (b) Eighty-five percent of the arithmetic average of contract demand during the year.
- (c) 15 kW.

5.6.5.1 Units consumed during the off-season period shall be charged for at the flat rate of 480 Paise per unit.

6.0 RATE: NON-RGP NIGHT

This tariff is applicable for aggregate load up to 40 kW and using electricity **exclusively during night hours** from 10:00 PM to 06:00 AM next day. (The supply hours shall be regulated through time switch to be provided by the consumer at his cost.)

6.1 FIXED CHARGES PER MONTH:

50% of the Fixed charges specified in Rate Non-RGP above.

PLUS

6.2 ENERGY CHARGES:

For entire consumption during the month	260 Paise per Unit
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NOTE:

1. 10% of total units consumed and 15% of the contract load can be availed beyond the prescribed hours.
2. This tariff shall be applicable if the consumer so opts to be charged in place of Non-RGP tariff by using electricity exclusively during night hours as above.
3. The option can be exercised to switch over from Non-RGP tariff to Non-RGP Night tariff and vice versa twice in a calendar year by giving not less than one month's notice in writing.
4. In case the consumer is not fulfilling the conditions of this tariff category,



then such consumer for the relevant billing period will be billed under tariff category Non-RGP.

7.0 RATE: LTMD- NIGHT

This tariff is applicable for aggregate load above 40 kW and using electricity **exclusively during night hours** from 10.00 PM to 06.00 AM next day. (The supply hours shall be regulated through time switch to be provided by the consumer at his cost.)

7.1 FIXED CHARGES PER MONTH:

50% of the Fixed charges specified in Rate LTMD above.

PLUS

7.2 ENERGY CHARGES:

For entire consumption during the month	260 Paise per Unit
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7.3 REACTIVE ENERGY CHARGES:

For all reactive units (KVARH) drawn during the month	10 Paise per KVARH
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NOTE:

1. 10% of total units consumed and 15% of the contract load can be availed beyond the prescribed hours.
2. This tariff shall be applicable if the consumer so opts to be charged in place of LTMD tariff by using electricity exclusively during night hours as above.
3. The option can be exercised to switch over from LTMD tariff to LTMD-Night tariff and vice versa twice in a calendar year by giving not less than one month's notice in writing.
4. In case the consumer is not fulfilling the conditions of this tariff category, then such consumer for the relevant billing period will be billed under tariff category LTMD.

8.0 RATE: LTP- LIFT IRRIGATION

Applicable for supply of electricity to Low Tension Agricultural consumers contracting load up to 125 HP requiring continuous (twenty-four hours) power



supply for lifting water from surface water sources such as canal, river, & dam and supplying water directly to the fields of farmers for agricultural irrigation only.

(a)	Fixed charges per month	Rs. 45/- per HP
PLUS		
(b)	Energy charges For entire consumption during the month	180 Paise per Unit

9.0 RATE: WWSP

This tariff shall be applicable to services used for water works and sewerage pumping purposes.

- 9.1 Type I – Water works and sewerage pumps operated by other than local authority:

(a)	Fixed charges per month	Rs. 25/- per HP
PLUS		
(b)	Energy charges per month: For entire consumption during the month	430 Paise per Unit

- 9.2 Type II – Water works and sewerage pumps operated by local authority such as Municipal Corporation. Gujarat Water Supply & Sewerage Board located outside Gram Panchayat Area will also attract this tariff:

(a)	Fixed charges per month	Rs. 20 per HP
PLUS		
(b)	Energy charges per month: For entire consumption during the month	410 Paise per Unit

- 9.3.1 Type III – Water works and sewerage pumps operated by Municipalities / Nagarpalikas and Gram Panchayats or Gujarat Water Supply & Sewerage Board for its installations located in Gram Panchayats:

Energy charges per month: For entire consumption during the month	320 Paise/Unit
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9.4 TIME OF USE DISCOUNT:

Applicable to all the water works consumers having connected load of 50 HP and above for the Energy consumption during the Off-Peak Load Hours of the Day.



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For energy consumption during the off-peak period, viz., 1100 Hrs. to 1800 Hrs.	40 Paise per Unit
For energy consumption during night hours, viz., 2200 Hrs. to 0600 Hrs. next day	85 Paise per Unit

10.0 RATE: AG

This tariff is applicable to services used for irrigation purposes only excluding installations covered under LTP- Lift Irrigation category.

10.1 The rates for following group are as under:

10.1.1 HP BASED TARIFF:

For entire contracted load	Rs. 200 per HP per month
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ALTERNATIVELY

10.1.2 METERED TARIFF:

Fixed Charges	Rs. 20 per HP per month
Energy Charges: For entire consumption	60 Paise per Unit per month

10.1.3 TATKAL SCHEME:

Fixed Charges	Rs. 20 per HP per month
Energy Charges: For entire consumption	80 Paise per Unit per month

NOTE: The consumers under Tatkal Scheme shall be eligible for normal metered tariff as above, on completion of five years period from the date of commencement of supply.

10.2 No machinery other than pump water for irrigation (and a single bulb or CFL up to 40 watts) will be permitted under this tariff. Any other machinery connected in the installation governed under this tariff shall be charged separately at appropriate tariff for which consumers shall have to take separate connection.

10.3 Agricultural consumers who desire to supply water to brick manufacturing units shall have to pay Rs. 100/HP per annum subject to minimum of Rs. 2000/- per year for each brick Mfg. Unit to which water is supplied in addition to existing rate of HP based / metered agricultural tariff.



- 10.4 Such Agricultural consumers shall have to pay the above charges for a full financial year irrespective of whether they supply water to the brick manufacturing unit for full or part of the Financial Year.

Agricultural consumers shall have to declare their intension for supply of the water to such brick manufacturing units in advance and pay charges accordingly before commencement of the financial year (i.e. in March every year).

11.0 RATE: SL

11.1 Tariff for Street Light for Local Authorities and Industrial Estates:

This tariff includes the provision of maintenance, operation and control of the street lighting system.

11.1.1 ENERGY CHARGES:

For all the units consumed during the month:	405 Paise per Unit
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11.1.2 OPTIONAL KVAH CHARGES:

For all the kVAh units consumed during the month:	305 Paise per Unit
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11.1.3 Renewal and Replacements of Lamps:

The consumer shall arrange for renewal and replacement of lamp at his cost by person authorised by him in this behalf under Rule-3 of the Indian Electricity Rules, 1956 / Rules issued by CEA under the Electricity Act, 2003.

11.2 Tariff for power supply for street lighting purposes to consumers other than the local authorities and industrial estates:

11.2.1 FIXED CHARGES:

Rs. 30 per kW per month

11.2.2 ENERGY CHARGES:

For all units consumed during the month	405 Paise per kWh
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11.2.3 Renewal and Replacement of Lamps:

The consumer shall arrange for renewal, maintenance and replacement of lamp, associated Fixture, connecting wire, disconnecting device, switch



including time switch etc. at his cost by person authorised by him in this behalf under Rule-3 of the Indian Electricity Rules, 1956 / Rules issued by CEA under the Electricity Act, 2003.

11.2.4 Maintenance other than Replacement of Lamps:

Maintenance of the street lighting conductor provided on pole to connect the street light shall be carried out by Distribution Licensee.

12.0 RATE: TMP

This tariff is applicable to services of electricity supply for temporary period at the low voltage. A consumer not taking supply on regular basis under a proper agreement shall be deemed to be taking supply for temporary period.

12.1 FIXED CHARGE

Fixed Charge per Installation	Rs. 15 per kW per Day
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12.2 ENERGY CHARGE

A flat rate of	465 Paise per Unit
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Note: Payment of bills is to be made within seven days from the date of issue of the bill. Supply would be disconnected for non-payment of dues on 24 hours' notice.



PART - II

**TARIFFS FOR SUPPLY OF ELECTRICITY AT HIGH TENSION
(3.3 KV AND ABOVE, 3-PHASE 50 HERTZ), AND EXTRA HIGH TENSION**

The following tariffs are available for supply at high tension for large power services for contract demand not less than 100 kVA

13.0 RATE: HTP-I

This tariff will be applicable for supply of electricity to HT consumers contracted for 100 kVA and above for regular power supply and requiring the power supply for the purposes not specified in any other HT Categories.

13.1 DEMAND CHARGES:

13.1.1 For billing demand up to contract demand

(a)	For first 500 kVA of billing demand	Rs. 130/- per kVA per month
(b)	For next 500 kVA of billing demand	Rs. 240/- per kVA per month
(c)	For billing demand in excess of 1000 kVA	Rs. 425/- per kVA per month

13.1.2 For Billing Demand in Excess of Contract Demand

For billing demand in excess over the contract demand	Rs. 505 per kVA per month
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PLUS

13.2 ENERGY CHARGES

For entire consumption during the month		
(a)	Up to 500 kVA of billing demand	435 Paise per Unit
(b)	For billing demand above 500 kVA and up to 2500 kVA	455 Paise per Unit
(c)	For billing demand above 2500 kVA	465 Paise per Unit

PLUS

13.3 TIME OF USE CHARGES:

For energy consumption during the two peak periods, viz., 0700 Hrs. to 1100 Hrs. and 1800 Hrs. to 2200 Hrs.		
(a)	For Billing Demand up to 500 kVA	45 Paise per Unit
(b)	For Billing Demand above 500 kVA	85 Paise per Unit

13.4 BILLING DEMAND:

The billing demand shall be the highest of the following:



- (a) Actual maximum demand established during the month
- (b) Eighty-five percent of the contract demand
- (c) One hundred kVA

13.5 MINIMUM BILLS:

Payment of “demand charges” based on kVA of billing demand.

13.6 POWER FACTOR ADJUSTMENT CHARGES:

13.6.1 Penalty for poor Power Factor:

- (a) The power factor adjustment charges shall be levied at the rate of 1% on the total amount of electricity bills for the month under the head “Energy Charges” for every 1% drop or part thereof in the average power factor during the month below 90% up to 85%.
- (b) In addition to the above clause, for every 1% drop or part thereof in average power factor during the month below 85% at the rate of 2% on the total amount of electricity bill for that month under the head “Energy Charges”, will be charged.

13.6.2 Power Factor Rebate:

If the power factor of the consumer’s installation in any month is above 95%, the consumer will be entitled to a rebate at the rate of 0.5% (half percent) in excess of 95% power factor on the total amount of electricity bill for that month under the head “Energy Charges” for every 1% rise or part thereof in the average power factor during the month above 95%.

13.7 MAXIMUM DEMAND AND ITS MEASUREMENT:

The maximum demand in kW or kVA, as the case may be, shall mean an average kW / kVA supplied during consecutive 30/15 minutes or if consumer is having parallel operation with the grid and has opted for 3 minutes, period of maximum use where such meter with the features of reading the maximum demand in KW/KVA directly, have been provided.

13.8 CONTRACT DEMAND:

The contract demand shall mean the maximum KW/KVA for the supply, of which the supplier undertakes to provide facilities from time to time.



13.9 REBATE FOR SUPPLY AT EHV:

On Energy charges:		Rebate @
(a)	If supply is availed at 33/66 kV	0.5%
(b)	If supply is availed at 132 kV and above	1.0%

13.10 CONCESSION FOR USE OF ELECTRICITY DURING NIGHT HOURS:

For the consumer eligible for using supply at any time during 24 hours, entire consumption shall be billed at the energy charges specified above. However, the energy consumed during night hours of 10.00 PM to 06.00 AM next morning as is in excess of one third of the total energy consumed during the month, shall be eligible for concession at the rate of 85 Paise per unit.

13.11 SEASONAL CONSUMERS TAKING HT SUPPLY:

13.11.1 The expression, "Seasonal Consumer", shall mean a consumer who takes and uses power supply for ice factory, ice-candy machines, ginning and pressing factory, oil mill, rice mill, salt industry, sugar factory, khandsari, cold storage plants (including such plants in fishery industry), tapioca industries manufacturing starch, pumping load or irrigation, white coal manufacturers etc.

13.11.2 Any consumer, who desires to be billed for the minimum charges on annual basis shall intimate to that effect in writing atleast one month before commencement of billing period about the off-season during which energy consumption, if any, shall be mainly for overhauling of the plant and machinery. The off-season period at any time shall be a full calendar month/months. The total period of the off-season so declared and observed shall be not less than three calendar months in a calendar year.

13.11.3 The total minimum amount under the head "Demand and Energy Charges" payable by a seasonal consumer satisfying the eligibility criteria under sub clause 13.11.1 above and complying with provisions stipulated under sub clauses 13.11.2 above shall be Rs. 4550 per annum per kVA of the billing demand.

13.11.4 The billing demand shall be the highest of the following:

- (a) The highest of the actual maximum demand registered during the calendar year.



- (b) Eighty-five percent of the arithmetic average of contract demand during the year.
- (c) One hundred kVA.

13.11.5 Units consumed during the off-season period shall be charged for at the flat rate of 465 Paise per unit.

13.11.6 Electricity bills paid during off-season period shall not be taken into account towards the amount payable against the annual minimum bill. The amount paid by the consumer towards the electricity bills for seasonal period only under the heads "Demand Charges" and "Energy Charges" shall be taken into account while determining the amount payable towards the annual minimum bill.

14.0 RATE HTP-II

Applicability: This tariff shall be applicable for supply of energy to HT consumers contracting for 100 kVA and above, requiring power supply for Water Works and Sewerage pumping stations run by Local Authorities and GW & SB. GIDC Water Works.

14.1 DEMAND CHARGES:

14.1.1 For billing demand up to contract demand

(a)	For first 500 kVA of billing demand	Rs. 115/- per kVA per month
(b)	For next 500 kVA of billing demand	Rs. 225/- per kVA per month
(c)	For billing demand in excess of 1000 kVA	Rs. 290/- per kVA per month

14.1.2 For billing demand in excess of contract demand

For billing demand in excess of contract demand	Rs. 360 per kVA per month
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PLUS

14.2 ENERGY CHARGES:

For entire consumption during the month		
(b)	Up to 500 kVA of billing demand	435 Paise per Unit
(c)	For billing demand above 500 kVA and up to 2500 kVA	455 Paise per Unit
(d)	For billing demand above 2500 kVA	465 Paise per Unit



PLUS

14.3 TIME OF USE CHARGES:

For energy consumption during the two peak periods, viz., 0700 Hrs. to 1100 Hrs. and 1800 Hrs. to 2200 Hrs.		
(a)	For Billing Demand up to 500 kVA	45 Paise per Unit
(b)	For Billing Demand above 500 kVA	85 Paise per Unit

14.4	Billing demand	<div style="font-size: 4em;">}</div> Same as per HTP-I Tariff
14.5	Minimum bill	
14.6	Power Factor Adjustment Charges	
14.7	Maximum demand and its measurement	
14.8	Contract Demand	
14.9	Rebate for supply at EHV	
14.10	Concession for use of electricity during night hours	

15.0 RATE: HTP-III

This tariff shall be applicable to a consumer taking supply of electricity at high voltage, contracting for not less than 100 kVA for temporary period. A consumer not taking supply on regular basis under a proper agreement shall be deemed to be taking supply for temporary period.

15.1 DEMAND CHARGES:

For billing demand up to contract demand	Rs. 18/- per kVA per day
For billing demand in excess of contract demand	Rs. 20/- per kVA per day

PLUS

15.2 ENERGY CHARGES:

For all units consumed during the month	660 Paise/Unit
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PLUS

15.3 TIME OF USE CHARGES:

Additional charge for energy consumption during two peak periods, viz., 0700 Hrs. to 1100 Hrs. and 1800 Hrs. to 2200 Hrs.	85 Paise per Unit
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15.4	Billing demand	}	Same as per HTP-I Tariff
15.5	Minimum bill		
15.6	Power Factor Adjustment Charges		
15.7	Maximum demand and its measurement		
15.8	Contract Demand		
15.9	Rebate for supply at EHV		

16.0 RATE: HTP-IV

This tariff shall be applicable for supply of electricity to HT consumers opting to use electricity exclusively during night hours from 10.00 PM to 06.00 AM next day and contracted for regular power supply of 100 kVA and above.

16.1 DEMAND CHARGES:

1/3 rd of the Fixed Charges specified in Rate HTP-I above.

PLUS

16.2 ENERGY CHARGES:

For all units consumed during the month	240 Paise per Unit
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16.3	Billing demand	}	Same as per HTP-I Tariff
16.4	Minimum bill		
16.5	Power Factor Adjustment Charges		
16.6	Maximum demand and its measurement		
16.7	Contract Demand		
16.8	Rebate for supply at EHV		

NOTE:

1. 10% of total units consumed and 15% of the contract demand can be availed beyond the prescribed hours for the purpose of maintenance.
2. For the purpose of office lighting, fans etc. the consumer may apply for a separate connection.
3. This tariff shall be applicable if the consumer so opts to be charged in place of HTP-I tariff by using electricity exclusively during night hours as



above.

4. The option can be exercised to switch over from HTP-I tariff to HTP-IV tariff and vice versa twice in a calendar year by giving not less than one month's notice in writing.
5. In case the consumer is not fulfilling the conditions of this tariff category, then such consumer for the relevant billing period will be billed under tariff category HTP-I.

17.0 RATE: HTP- V

HT - Agricultural (for HT Lift Irrigation scheme only)

This tariff shall be applicable for supply of electricity to High Tension Agricultural consumers contracting for 100 kVA and above, requiring power supply for lifting water from surface water sources such as canal, river and dam, and supplying water directly to the fields of farmers for agricultural irrigation only.

17.1 DEMAND CHARGES:

Demand Charges Rs. 50 per kVA per month

PLUS

17.2 ENERGY CHARGES:

For all units consumed during the month	180 Paise per Unit
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17.3	Billing demand	}	Same as per HTP-I Tariff
17.4	Minimum bill		
17.5	Power Factor Adjustment Charges		
17.6	Maximum demand and its measurement		
17.7	Contract Demand		
17.8	Rebate for supply at EHV		

18.0 RATE: RAILWAY TRACTION

This tariff is applicable for power supply to Railway Traction at 132 kV/66 kV.



18.1 DEMAND CHARGES:

For billing demand up to the contract demand	Rs. 180 per kVA per month
For billing demand in excess of contract demand	Rs. 425 per kVA per month

NOTE: In case of the load transfer for traction supply due to non-availability of power supply at preceding or succeeding point of supply or maintenance at Discom's level, excess demand over the contract demand shall be charged at normal rate at appropriate point of supply.

Normal Demand Charges will also apply in case of bunching of trains. However, Discoms shall charge excess demand charges while raising the bills and Railways have to give convincing details and documentary proof of bunching of trains if they want to be charged at the normal demand charges. If satisfactory proof of bunching of trains is provided, Discom shall consider that occasion for normal demand charges, otherwise excess demand charges will be applicable specified as above at 18.1 (b).

PLUS

18.2 ENERGY CHARGES:

For all units consumed during the month	500 Paise per Unit
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18.3	Billing demand	}	Same as per HTP-I Tariff
18.4	Minimum bill		
18.5	Power Factor Adjustment Charges		
18.6	Maximum demand and its measurement		
18.7	Contract Demand		
18.8	Rebate for supply at EHV		

