

*ANNUAL REPORT
ON
REGULATORY COMPLIANCE
FOR THE YEAR
2009 - 2010*

*REPORTER
OF COMPLIANCE*

*M.P. POWER TRANSMISSION COMPANY LTD.
2nd BLOCK, SHAKTI BHAWAN,
JABALPUR.*

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**ANNUAL REPORT ON REGULATORY COMPLIANCE IN
RESPECT OF MP POWER TRANSMISSION COMPANY LIMITED
YEAR 2009-10**

1. PREAMBLE -

1.1 REQUIREMENT UNDER THE ACT -

One of the function of the State Commission mentioned in Section 86(i) of the Electricity Act 2003, is to specify or enforce standards with respect to quality, continuity and reliability of service by the Licensees. Accordingly, Hon'ble MPERC in exercise of powers under Sub-section (1) of Section 181 of the said act notified on 5th May 2005 the MPERC (Guidelines for reporting of Regulatory Compliance) Regulations, 2005. The objective of "Compliance Reporting System" is mentioned that the licensee should build a sound and effective regulatory compliance mechanism. The Regulations are applicable to all the licensees in the State including the MP Power Transmission Company Limited involved in the business of building, operating and maintaining the Intra-State Transmission System in the State of Madhya Pradesh.

1.2 SALIENT FEATURES OF REGULATIONS -

The Regulations provide for;

- i. Ensure timely submission of periodical reports covering all the items under report.
- ii. Appointment of a Regulator of Compliance by each licensee, entrusted with the responsibility of reporting Regulatory Compliance.
- iii. Set-up reporting procedures for formulation and submission of Half Yearly and Annual Reports by Reporter of Compliance.
- iv. Specify the periodical reports to be included and specific areas to be covered, under the report of the Reporter of Compliance.
- v. Taking cognizance of the reports by the Top Management/ Directors of the Company.

1.3 REPORTER OF COMPLIANCE -

The MP Power Transmission Company appointed Shri D.P. Saxena, Retired Executive Director (T&P), MPSEB as Reporter of Compliance on contract appointment. The period of contract appointment is extended for one year with effect from 11.11.2009. Thus, the Company has engaged Reporter of Compliance as per the Regulations notified by Hon'ble State Commission.

1.4 REPORTING PROCEDURE -

The Regulations provide for submission of following reports by the Reporter of Compliance;

- i. Half Yearly Report April to Sept. by 31st December.
- ii. Annual Report of financial year by 30th June of next year.

The reports are required to be fragmented in three parts;

- i. Reports on issues fully complied with.
- ii. Reports on issues partially complied with and
- iii. Reports on issues not complied with, alongwith reasons and future course of action.

1.5 REPORTS COVERED UNDER THE REGULATIONS -

Annexure 'A' appended with the Regulations, specify the periodical reports on which Reporter of Compliance has to base his report. The reports concerning the Transmission Licensee are shown in the following table;

MIS Report	To be submitted within 30 days of end of each quarter.
Compliance of MP Electricity Grid Code	On different dates prescribed for various compliances.
Transmission Performance Standards	To be submitted within 45 days of end of each quarter.
Conditions of Licensee	Various compliances to be submitted on different dates.
Open Access Regulations	Various compliances to be submitted on different dates.
MPERC (SLDC fees and charges) Regulations	Various compliances to be submitted on different dates.
MPERC (Treatment of other business of licensee)	Various compliances to be submitted on different dates.

1.6 SUBMISSION OF EARLIER REPORTS BY REPORTER OF COMPLIANCE

In compliance to the Regulations, following reports have been submitted by the Reporter of Compliance before Hon'ble Commission for earlier period;

S. No.	Report	Reference of submission
1	Annual Report for year 2004-05	Letter No. 04-01/Const. Tariff/6849 dtd. 29.9.05.
2	Half Yearly Report for period April '05 to Sept.'05.	Letter No. 04-01/Const. Tariff/2528 dtd. 18.3.06.
3	Annual Report for year 2005-06	Letter No. 04-01/Const. Tariff/6334 dtd. 22.7.06.
4.	Half Yearly Report for April '06 to Sept.06.	Letter No. 04-01/Const. Tariff/1335 dtd. 17.2.07.
5.	Annual Report for year 2006-07	Letter No. 04-01/Const. Tariff/F-77/4689 dtd. 14.06.07.
6.	Half Yearly Report for April-Sept.'07.	Letter No. 04-01/Const. Tariff/F-77/10432 dtd. 19.12.07.
7.	Annual Report for year 2007-08	Letter No. 04-01/Const. Tariff/F-77/5841 dtd. 17.6.08.
8.	Half Yearly Report for April-Sept.'08.	Letter No. 04-01/CRA Cell/F-77/12552 dtd. 30.12.08.
9.	Annual Report for year 2008-09	Letter No. 04-01/ CRA Cell/F-77//6009 dtd. 30.06.09.
10.	Half Yearly Report for April-Sept.'09.	Letter No. 04-01/ Const. Tariff /F-77/11667 dtd. 31.12.09

1.7 ANNUAL REPORT FOR YEAR 2009-10 -

The Transmission Licensee has submitted the periodical reports for all the four quarters of the year timely. The licensee has also reported compliance on other points to be covered under the report. The instant report is based on above mentioned reports, and discussions / analysis thereon.

2. MIS REPORTS -

2.1 MIS REGULATIONS -

Hon'ble Commission, on 2nd April 2004, notified the MP Electricity Regulatory Commission (Monitoring of performance of Licensee and Generating Companies) Regulations, 2004. Different sets of reports have been prescribed for Generation, Transmission and Distribution Licensees. Earlier formats had been laid down for reporting performance of Transmission Licensee including System Operation functions carried out with the help of the SLDC. The information formats are as given hereunder;

(i)	TR-1	Contains information on Energy Accounting, Transmission Losses, and Loading of Transmission lines.
(ii)	TR-2	Contains information on Transmission System Availability. Availability of feeders and Transformers Frequency Excursion, Demand met, Capacity Additions and Financial loan details.
(iii)	TR-3	Contains information on State Load Despatch Centre's infrastructure and voltages recorded at Sub-stations.
(iv)	TR-4	Related to details of Scheduling and actual generation of Generating Units.
(v)	TR-5	Related to details of Scheduling and drawal of Central Sector power.

2.1.1 AMENDMENT -

Hon'ble Commission vide notification dtd. 31st October 2008, has made certain amendments in the reporting formats. The details to be given in revised formats are given hereunder;

S. No.	Format No.	Details Covered
1	Tr-1	Energy Accounting and Voltage-wise losses.
2	Tr-1-a	Details of top ten congested EHV lines.
3	Tr-2	Transmission System Availability and Availability of five critical lines. Frequency excursion. Maximum Demand and Capacity addition of EHV lines and Sub-stations.
4	Tr-3	SLDC's infrastructure i.e. Remote Terminal Units, Interface meters. Backing down of Generating Units. Voltage variations in EHV Sub-stations.

The information for all the four quarters of 2009-10 have been submitted by the licensee as per modified formats.

2.2 SUBMISSTION OF MIS REPORTS -

The Transmission Licensee is submitting the quarterly reports on MIS regularly. The reports covered under the year 2009-10 have been submitted as per the references mentioned hereunder;

S. No.	Period	Reference of submission to the Commission
1	April-June '09	Letter No. 04-01/CRA Cell/F-15/7137 dtd. 31.7.09
2	July-Sept.'09	Letter No. 04-01/CRA Cell/F-15/9897 dtd.31.10.09
3	Oct.-Dec.'09	Letter No. 04-01/CRA Cell/827 dtd. 30.01.10
4	Jan.-March'10	Letter No. 04-01/CRA Cell/3519 dtd. 30.04.10

2.3 DATA CHECKS BY REPORTER OF COMPLIANCE –

It has been checked by the Reporter of Compliance from records that the reports submitted by the licensee are based on the data supplied by the different HODs based on information from the field as mentioned hereunder;

(i)	Information of Energy Account and Computation of losses	By OSD (T&C), OSD(LD), OSD(Trans) and C.E.(Power System)
(ii)	Overloading on feeders	OSD(T&C)/C.E.(Power System)
(iii)	System/feeder/Transformer Availability	OSD (T&C)/C.E.(EHT-C&M)
(iv)	M.D Met	C.E.(Power System)/ OSD (LD)
(v)	Capacity Addition	OSD (Transmission)
(vi)	Frequency Excursion	OSD (Load Dispatch)
(vii)	SLDC's equipment's functioning, schedules and drawals.	OSD (Load Dispatch)

2.4 **STATUS OF COMPLIANCE ON REPORTING** –

2.4.1 **REPORTS FULLY COMPLIED** –

Following reports have been fully complied in all the quarters of year 2009-10;

S. No.	Report fully complied	Reference of Format
1	Energy received and sent out in the Transmission System with computation of Transmission Losses.	Tr-1
2	Voltage-wise Transmission Losses for 400 KV, 220 KV and 132 KV System.	Tr-1
3	Information of Top 10 lines with maximum congestion.	Tr-1-a
4	Voltage-wise and overall Transmission System Availability	Tr-2
5	Transmission System Availability of 5 major critical lines.	Tr-2
6	Frequency excursion	Tr-2
7	Demand met during the quarter	Tr-2
8	Voltage-wise EHV lines added during the quarter	Tr-2
9	Voltage-wise Transformation Capacity added	Tr-2
10	Details of RTUs/Transducers in service for data acquisition by SLDC.	Tr-3
11	Inter-face points and Metering status	Tr-3
12	Voltage variation in 400 KV, 220 KV and 132 KV Sub-stations.	Tr-3
13	Name of 5 Sub-stations which recorded lowest voltage at 33 KV level.	Tr-3
14	Name of 5 Sub-stations which recorded highest voltage at 33 KV level.	Tr-3

2.4.2 **REPORTS PARTIALLY COMPLIED** –

There is no report on which reporting is partial.

2.4.3 **REPORTS NOT COMPLIED** –

There is no aspect of the report which is not complied with.

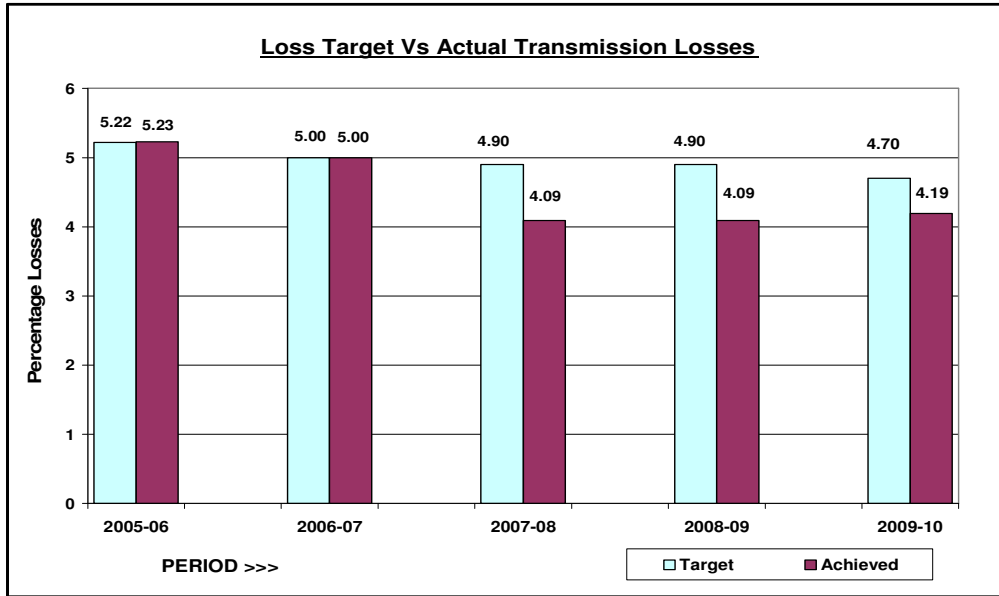
2.5 **POINTS OF BETTER PERFORMANCE** –

The MIS for the four quarters of year 2009-10 indicates better performance of the MPPTCL on following points;

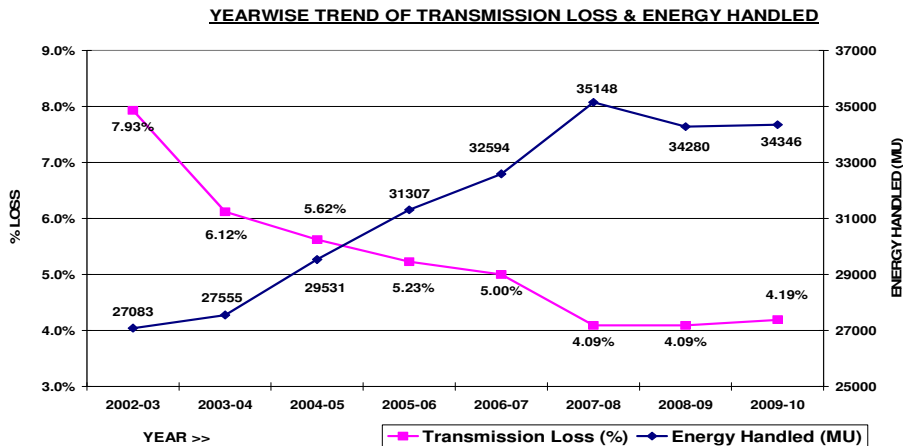
2.5.1 TRANSMISSION LOSSES –

Hon'ble MPERC did not fix any limit for transmission losses during 2009-10 however MPPTCL took on the mantle to fix a target of 4.7% for itself. The MPPTCL has been able to confine the transmission losses during the year to 4.19%.

The transmission licensee has been able to confine its transmission losses within the target fixed by Hon'ble State Commission during previous years too, as evident from following chart;



It is also pertinent to mention here that the MPPTCL has been able to limit Transmission Losses vis-à-vis the Target, as well as reduce losses continuously during the past years, inspite of the increasing Energy handled.



This year too the losses are well below the benchmark fixed. However there is a marginal increase due to obvious reasons mentioned below;

The main reason for marginal increase of losses in 2009-10 is indicated as the change in trend of flow of power through Inter-state 220 KV Badod-Kota & 220 KV

Badod-Modak lines, as compared to previous years there has been an appreciable flow of Central Sector Power through these lines, and, consequent to these flows through MPPTCL's network has added to transmission losses.

2.5.2 VOLTAGE-WISE LOSSES –

Hon'ble Commission has pointed out regarding comparatively higher losses in 220 KV system in comparison to 132 KV system. This is due to the fact that the 220 KV feeders are the main evacuation lines of appreciable lengths, whereas, there has been a remarkable growth in 132 KV system in recent past under financial supports from ADB, PFC, and NABARD etc. on account of load growth in different areas.

This aspect has already drawn attention of the top management of Transco, and they have expedited the important 220 KV works to mitigate this problem. The increase in 220 KV loss in year 2009-10 can be attributed to drawl of energy by other states through the MPPTCL network at 220 KV level as previously mentioned also;

S. No.	System Voltage	Transmission Losses in Percentage			
		2006-07	2007-08	2008-09	2009-10
1	400 KV System	1.26%	1.21%	1.20%	1.19%
2	220 KV System	3.41%	2.55%	2.51%	2.86%
3	132 KV System	1.29%	1.15%	1.17%	1.03%
4	Total System -	5.00%	4.09%	4.09%	4.19%

The commitment of the MPPTCL, to improve 220 KV system is further indicated below; whereby the percentage of quantum of progress made during year 2009-10 also confirms the equal importance put by MPPTCL on development of its 220 KV system.

S. No.	Voltage	Financial Progress in 2009-10 (Rs Lacs)			
		Lines	Percentage of Total	MVA Capacity	Percentage of Total
1	400 KV System	0	0%	0	0%
2	220 KV System	18369	49%	18350	48%
3	132 KV System	19171	51%	20108	52%
4	Total -	37540	100%	38458	100%

The figures are on estimate amount basis and tentative.

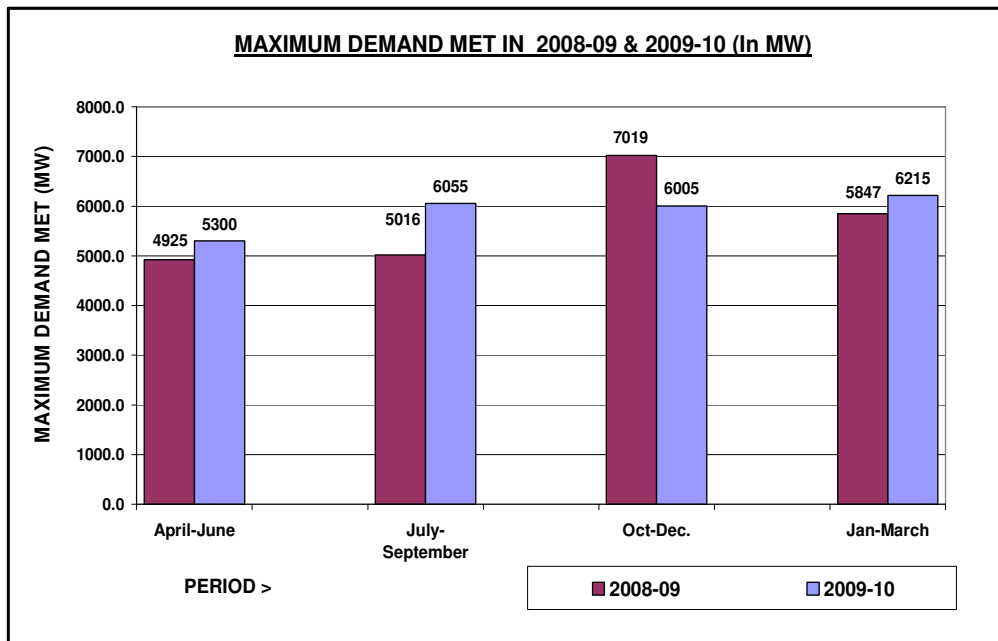
2.6 TRANSMISSION SYSTEM AVAILABILITY –

Hon'ble Commission has fixed a target of Transmission System Availability as 98% for year 2009-10 in the tariff Regulations. The Transmission System Availability achieved during all the quarters is higher than the target fixed. This indicates proper maintenance of lines and sub-stations as well as prompt outage management. The achievements are shown hereunder;

S. No.	Period	Target Fixed	Actual Achieved
1	April-June'09	98.0%	98.22%
2	July-Sept.'09	98.0%	98.88%
3	Oct.-Dec.'09	98.0%	98.91%
4	Jan.-March'10	98.0%	99.47%
5	Year Avg. for 2009-10	98.0%	98.82%

2.7 MAXIMUM DEMAND MET –

With the enhancement of the transmission system capacity, it has been possible to meet the requisite demand during year 2009-10. A peak demand of 6215 MW has been met during the fourth quarter of 2009-10. Transmission system in MP caters maximum load during Rabi Season i.e. between October and March. Maximum demand met during the four quarters of year 2009-10 as compared to the previous year i.e. 2008-09 is shown hereunder;



The maximum demand met during year 2009-10 is 6215 MW. No transmission constraints were observed in meeting this demand.

2.8 FREQUENCY EXCURSION –

MPPTCL cooperated in keeping system frequency in healthy zone most of the time. For the year 2009-10 as a whole, the frequency remained within the prescribed Target Range as set in the Performance Standards of Max (+) 1.0% or 50.5 Hz & Minimum (-) 2.0% or 49.0 Hz which amounts for about more than 90% of the time; while as per the Statuary Acceptable Range given in the above referred Standards of Max (+) 3.0% or 51.5 Hz & Minimum (-) 3.0% or 48.5 Hz the same comes to be even over 99% of time. The Licensee cooperated in maintaining the Grid frequency, which remained within the specified frequency band, for most of the time in the four quarters.

S. No.	Quarter	Percentage of time when frequency remained above 49.2 Hz and below 50.3 Hz
1	April-June '09	84.21%
2	July-Sept.'09	83.97%
3	Oct.-Dec.'09	91.51%
4	Jan.-March' 10	96.47%

Frequency Excursion : 2009-2010

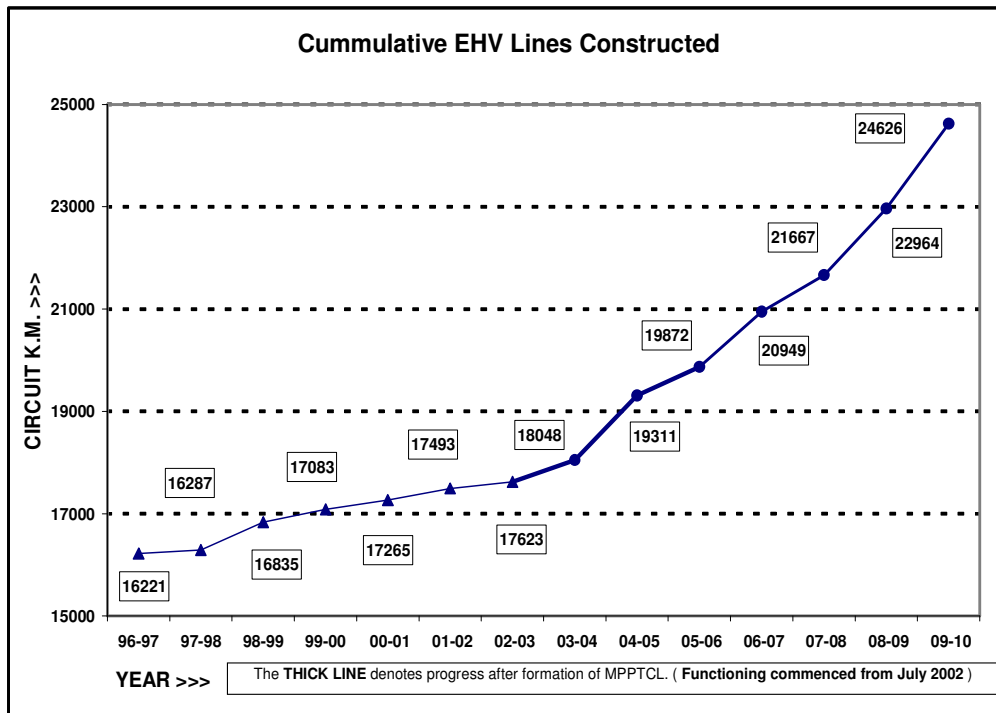
Sr. No.	Frequency Ranges	% Time
a	50.3 TO 51.0 Hz	1.44
b	50.2 TO 50.3 Hz	2.90
c	49.8 TO 50.2 HZ	30.19
d	49.5 TO 49.8 Hz	32.32
e	49.2 TO 49.5 Hz	23.25
f	48.8 TO 49.2 Hz	9.76
g	BELOW 48.8 Hz	0.14

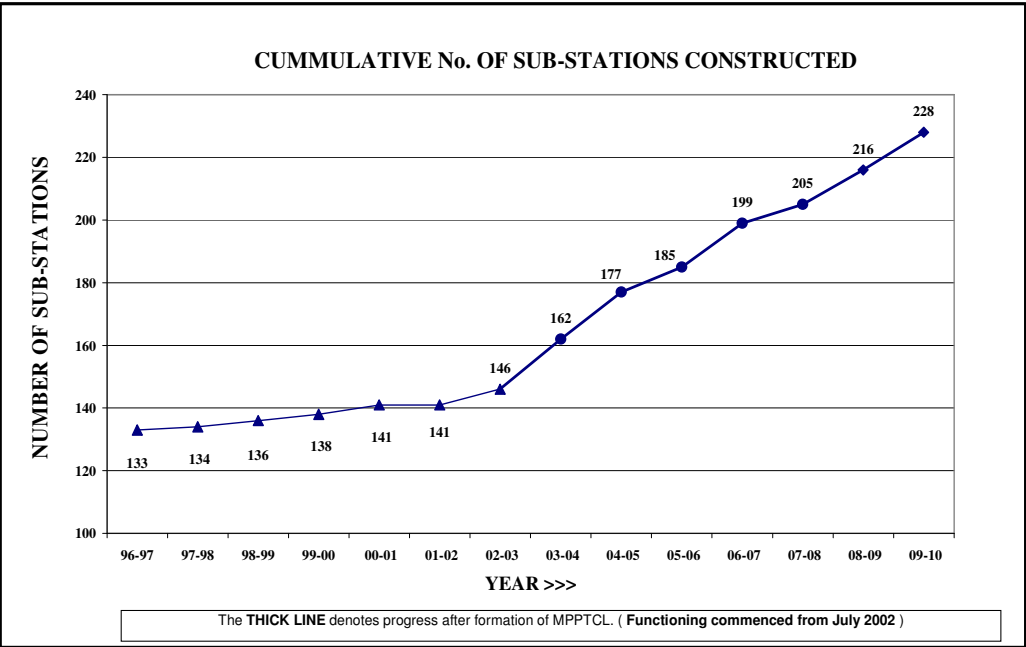
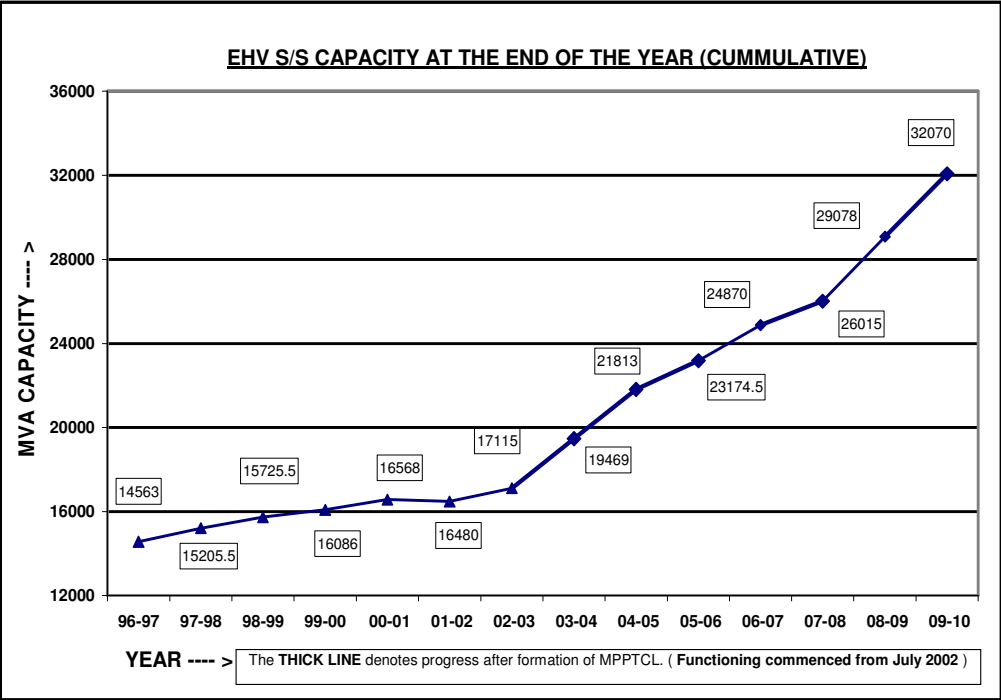
2.9 CAPACITY ADDITION -

The Licensee has added 1662 Ckt.-Kms of EHV Lines, 12 nos. Substations and 2992 MVA of transformation capacity during the year. The quarter-wise details are shown in the table given hereunder;

S. No.	Particulars	Capacity Added during				
		April-June 2009	July-Sept. 2009	Oct.-Dec. 2009	Jan.-March 2010	Year 2009-10
1	400 KV Lines (Ckt.-Kms)	0	0	0	0	0
2	220 KV Lines (Ckt.-Kms)	0	0	212.86	551.90	764.76
3	132 KV Lines (Ckt.-Kms)	140.25	39.71	196.27	520.51	896.74
	Total Lines (Ckt.-Kms)	140.25	39.71	409.13	1072.41	1661.50
4	400 KV S/s (MVA)	0	0	0	0	0
5	220 KV S/s (MVA)	320.00	480.00	480.00	360.00	1640
6	132 KV S/s (MVA)	566.00	220.00	360.00	206.00	1352
	Total Sub-Stations (MVA)	886	700	840	566	2992

There has been consistent growth in the transmission system, since the transmission licensee started functioning (July 2002), as clear from the following trend curves;





2.10 SLDC CONTROL -

The SLDC at Jabalpur has been upgraded with the State of Art technology based equipments provided for Supervisory Control & Data Acquisition (SCADA) under the Unified Load Dispatch & Communication (ULDC) project of Western Region. The SLDC is monitoring the activities through the SCADA System.

2.10.1 EQUIPMENTS -

The meters have been provided at all the 592 interface points for energy accounting and are in working condition.

RTUs are provided at 59 Points and all are in working condition. All but two of the transducers provided for MW, MVAR, Voltage and Frequency are in service.

2.10.2 GENERATION SCHEDULE -

The SLDC is monitoring daily generation schedule and actual generation for Intra-State Thermal Generating Stations, and there were nil number of instances when backdown was required.

2.11 PERFORMANCE IMPROVEMENT THROUGH SYSTEM STRENGTHENING –

These are the areas where improvements are gradually coming up with the completion of works covered under Transmission Plan. An immediate jump to ideal conditions is not expected as these are linked to long term planning involving huge investments. These are discussed hereunder;

2.11.1 OVER LOADING OF EHV LINES –

The Licensee has a system of monitoring the loading on EHV Lines and to take remedial measures, both short term as well as long term in case of persistent overloading of lines. Loading on EHV lines is managed as per their SIL capacity. However, certain lines may have got overloaded for a limited period time. The top 10 lines with maximum congestion are reported under MIS to the Hon'ble Commission.

The report in this regard for the four quarters was discussed by the Reporter of Compliance with the HODs, and the reasons for overloading and remedial measures are tabulated hereunder;

Quarterly MIS - April 2009 to June 2009

1	Name of top 10 lines with Max. congestion in terms of MW for continuously 2 hrs.	Max. Load MW	% loading (#)	Avg. max Load	Remarks
1	PGCIL DAMOH S/s - BINA 220KV S/s line	210	159.09	153	The position is expected to improve on completion of 400 KV Sagar Sub-stations to be completed in the coming years.
2	DAMOH - GARHAKOTA 132KV	78	156.00	48	The average loading is within limit. Further, position has improved after bifurcation of load at 220 KV Sagar Sub-station in the next quarters.
3	DAMOH - SAGAR 220KV	204	154.55	120	The average loading is within limit. The position is expected to improve on completion of 400 KV Sagar Sub-stations to be completed in the coming years.
4	GARHAKOTA - SAGAR 132KV	76	152.00	46	The average loading is within limit. Further, position has improved after bifurcation of load at 220 KV Sagar S/s in next quarters.
5	JABALPUR - SHRINAGAR 132KV	76	152.00	65	Load is expected to be shared on completion of 132 KV 2nd ckt of LILO of Jabalpur - Narsinghpur 132kV line at Shrinagar & Shahpura. The Shahpura part has been completed on 15.02.10 while the Shrinagar part shall be completed in 10-11.
6	SABALGARH - SHEOPUR 132KV	74	148.00	30	The average loading is well within limit. Position is expected to improve further on completion of 2nd ckt of Sabalgarh - Sheopurkalan 132kV line. (Completed on 29.05.10)
7	BHOPAL - VIDISHA 132KV	72	144.00	32	The average load is well within limit. Position is expected to further improve on commissioning of 220 KV S/s at Vidisha scheduled in year 2010-11.
8	BINA - DAMOH 220KV	190	143.94	98	Average load is well within limit. The overloading is on account of certain contingency load. Further improvement shall occur on completion of 400 KV Sagar S/s
9	BINA - PICHHORE 132KV	70	140.00	44	Average load is well within limit. The overloading is on account of certain contingency load.
10	NAGDA - KHACHROD 132KV	70	140.00	32	Average load is well within limit. The overloading is on account of certain contingency load.

Quarterly MIS - July 2009 to September 2009

Name of top 10 lines with Max. congestion in terms of MW for continuously 2 hrs.		Max. Load MW	% loading (#)	Avg. max Load	Remarks
1	INDORE-JETPURA 220KV	240	181.82	136	Position is expected to improve on LILO of 2nd ckt of Indore-Ujjain 220kV line at Indore-II (Jetpura) (Commissioned on 12.03.2010)
2	NAGDA-KHACHROD 132KV	90	180.00	80	The overloading is on account of certain contingency load.
3	BINA-PICHHORE 132KV	84	168.00	61	The overloading is on account of certain contingency load. Further improvement shall occur on completion of 220 KV Datia Sub-stations to be completed in 2011-12.
4	PICHHORE-DATIA 132KV	80	160.00	50	Average load is equal to SIL limit. The maximum load is on account of certain contingency. Further improvement shall occur on completion of 220 KV Datia Sub-stations to be completed in 2011-12.
5	GWALIOR-KARERA 132KV	80	160.00	48	Average load is within SIL limits, The maximum load is on account of certain contingency. Further improvement shall occur on completion of 220 KV Datia Sub-stations to be completed in 2011-12.
6	DAMOH-SAGAR 220KV	211	159.85	91	The average load is well within limit. The position is further expected to improve on completion of 400 KV Sagar Sub-stations to be completed in the coming years.
7	BINA-GWALIOR-I 220KV	200	151.52	149	The overloading is on account of certain contingency load.
8	BINA-GWALIOR-II 220KV	200	151.52	149	The overloading is on account of certain contingency load.
9	ITARSI-BARWAHA-I 220KV	200	151.52	146	Position is expected to improve on completion of LILO of Satpura-Itarsi 220kV line at Handiya (Commissioned in 07.02.2010)
10	INDORE PITHAMPUR 220KV	200	151.52	124	The average load is well within limit. The maximum load is on account of certain contingency.

Quarterly MIS October 2009 to December 2009

S. No.	Name of top 10 lines with Max. congestion* in terms of MW for continuously 2 hrs.	Max. Load MW	% loading (#)	Avg. max Load	Remarks
1	NAGDA -KHACHROD 132KV	100	200.00	85	The overloading is on account of certain contingency load.
2	BHOPAL-VIDISHA 132KV	96	192.00	48	The average load is well within limit. Position is expected to further improve on commissioning of 220 KV S/s at Vidisha scheduled in year 2010-11.
3	JETPURA-INDORE 220KV	248	187.88	214	Position is expected to improve on LILO of 2nd ckt of Indore-Ujjain 220kV line at Indore-II (Jetpura) (Commissioned on 12.03.2010)
4	SHUJALPUR- ARNIYAKALAN 132KV	93	186.00	61	Position is expected to improve on Second circuiting of Shujalpur-Arniyakalan line (Commissioned on 31.03.2010)
5	REWA-MANGAWAN 132KV	91	182.00	47	The average load is well within limit. For further improvement 2nd Circuiting proposed.
6	ITARSI-BARHWAHA-I 220 KV	230	174.24	201	Position is expected to improve on completion of LILO of Satpura-Itarsi 220kV line at Handiya (Commissioned in 07.02 2010)
7	HATTA-BIJAWAR 132KV	86	172.00	48	The average load is within SIL limits Position is expected to further improve on commissioning of 220kV S/s at Chhatarpur
8	PGCIL-GWALIOR 220KV	223	168.94	168	Position is expected to improve on LILO of 2nd ckt of Gwalior-Malanpur line at Gwalior (PGCIL) S/s (Commissioned on 28.03.10)
9	SAGAR- BINA 132KV	80	160.00	49	Average load is within SIL limits. The overloading is on account of certain contingency load.
10	SARNI-BETUL 132KV	78	156.00	41	Position is expected to improve on commissioning of 220kV Substation at Betul (Planned for Commissioning in 2010-11)

Quarterly MIS January 2010 to March 2010

S. No.	Name of top 10 lines with Max. congestion* in terms of MW for continuously 2 hrs.	Max. Load MW	% loading (#)	Avg. max Load	Remarks
1	INDORE - JETPURA 220KV	220	166.67	148	Position is expected to improve on LILO of 2nd ckt of Indore-Ujjain 220kV line at Indore-II (Jetpura) (Commissioned on 12.03.2010)
2	JETPURA - UJJAIN 220KV	215	162.88	205	Position is expected to improve on LILO of 2nd ckt of Indore-Ujjain 220kV line at Indore-II (Jetpura) (Comm. on 12.03.2010)
3	CHHEGAON - KHANDWA 132KV	80	160.00	64	Position is expected to improve on shifting of load from Khandwa to new S/s at Chhegaon (after commissioning).
4	CHHEGAON - BHIKANGAON 132KV	80	160.00	64	Position is expected to improve on completion of 132kV D/C line from Chhegaon 220kV to Khargone, which is under construction at present & scheduled for 2010-11.
5	PGCIL-GWALIOR 220KV	210	159.09	156	Position is expected to improve on LILO of 2nd ckt of Gwalior-Malanpur line at Gwalior (PGCIL) Substation (Comm. on 28.03.10)
6	BARWAHA - CHHOTI KHARGONE 132KV	78	156.00	51	Position is expected to improve on shifting of Indore Water-Works load on Barwaha 220kV S/s by creation of dedicated 132kV line, to be done under MPPTCL supervision, probably to be completed in 2010-11.
7	SATYA SAI - SOUTH ZONE 132KV	77	154.00	55	The overloading is on account of certain contingency load.
8	KHARGONE - JULWANIYA 132KV	76	152.00	56	Position is expected to improve on completion of 132kV D/C line from Chhegaon 220kV to Khargone, which is under construction at present & scheduled for 2010-11.
9	INDORE - UJJAIN 220KV	200	151.52	101	Average load is within SIL limits. Position is further expected to improve on LILO of 2nd ckt of Indore-Ujjain 220kV line at Indore-II (Jetpura) (Commissioned on 12.03.2010)
10	ITARSI - BARWAHA 1 220KV	197	149.24	154	Position is now expected to improve after LILO of Satpura-Itarsi 220kV line at Handiya (Commissioned on 07.02.2010)

- Line loading more than its rated SIL capacity expressed in %

2.12 VOLTAGE VARIATION IN SUB-STATIONS –

On account of the strengthening of transmission system at every voltage level there has been a tangible improvement in the Voltage Profile. Barring the case of one no. 132 KV Sub-station in the first quarter the voltage has not gone below the lower limit in any Sub-station during the year.

From the MIS reports, it is seen that the MPPTCL is monitoring the problem of voltage variation beyond the limit prescribed in Grid Code, and taking remedial measures to include such Capital Works in Investment Plan which result in improvement in voltage profile. The MPPTCL completed important Sub-stations which resulted in better voltage profile inspite of load growth in these areas. The overall improvement as compared to last year is shown in following table;

IST QUARTER

S. No.	Voltage class of Sub-station	Quarter ending June'08			Quarter ending June '09		
		No. of S/s	Voltage deviation beyond		No. of S/s	Voltage deviation beyond	
			Upper Limit	Lower Limit		Upper Limit	Lower Limit
1	400 KV	4	2	NIL	4	2	NIL
2	220 KV	38	NIL	NIL	44	NIL	NIL
3	132 KV	164	2	1	168	NIL	1
TOTAL -		206	4	1	216	2	1

IIND QUARTER

S. No.	Voltage class of Sub-station	Quarter ending Sept.'08			Quarter ending Sept. '09		
		No. of S/s	Voltage deviation beyond		No. of S/s	Voltage deviation beyond	
			Upper Limit	Lower Limit		Upper Limit	Lower Limit
1	400 KV	4	4	NIL	4	2	NIL
2	220 KV	39	NIL	NIL	45	NIL	NIL
3	132 KV	164	NIL	4	169	NIL	NIL
TOTAL -		207	4	4	218	2	NIL

IIIRD QUARTER

S. No.	Voltage class of Sub-station	Quarter ending Dec.'08			Quarter ending Dec. '09		
		No. of S/s	Voltage deviation beyond		No. of S/s	Voltage deviation beyond	
			Upper Limit	Lower Limit		Upper Limit	Lower Limit
1	400 KV	4	2	NIL	4	1	NIL
2	220 KV	41	NIL	4	46	NIL	NIL
3	132 KV	165	NIL	35	175	NIL	NIL
TOTAL -		210	2	39	225	1	NIL

IV TH QUARTER							
S. No.	Voltage class of Sub-station	Quarter ending March'09			Quarter ending March '10		
		No. of S/s	Voltage deviation beyond		No. of S/s	Voltage deviation beyond	
			Upper Limit	Lower Limit		Upper Limit	Lower Limit
1	400 KV	4	2	NIL	4	1	NIL
2	220 KV	43	NIL	NIL	49	NIL	NIL
3	132 KV	168	NIL	1	175	NIL	NIL
TOTAL -		215	2	1	228	1	NIL

There has been marked improvement in voltage profile, as compared to previous year, on account of completion of capital works promptly.

2.13 IMPACT OF THE REPORT –

Compilation of the MIS Report, and its close monitoring by the CMD, MPPTCL has resulted in the following positive impacts;

- i. Data reported under MIS report have given valuable feedback for chalking out Capital Investment Plan, and its modification during annual review, after seeking approval from Hon'ble State Commission.
- ii. Works completed helped in reduction of congestion on EHV lines and improved voltage profile.
- iii. On account of constant monitoring of system strengthening, there has been an appreciable reduction in transmission losses year after year. Losses for year 2009-10 are also below the target fixed.
- iv. Low voltage problem at EHV buses have practically been eliminated.

3. TRANSMISSION PERFORMANCE STANDARDS -

3.1 REGULATIONS –

In accordance with the power conferred under Section 181 (za) of Electricity Act 2003, the MPERC (Transmission Performance Standards) Regulations, 2004 have been notified on 16th July 2004. The Standards have been classified in two categories;

Category – A (Mandatory Standards) –

- (a). Voltage variation.
- (b). Frequency Variation.
- (c). Safety standards.

Category – B

- a. System Availability
- b. Feeder Availability.
- c. Transformer Availability.
- d. Voltage Unbalance.
- e. Neutral Voltage Displacement.
- f. Voltage Variation Index.
- g. Frequency Variation Index.
- h. Harmonics in supply voltage.
- i. System Adequacy.
- j. System Security.

The above mentioned standards were fine tuned with reporting formats vide notification dated 6th June 2005.

Year 2009-10 falls under the FINAL stage and reporting requirements are as give hereunder;

S. No.	Parameter	Category	Permissible limits in preliminary stage
1	Voltage Variation	A	400 KV + 5% - 10% 220 KV ± 10% 132 KV ± 10%
2.	Frequency Variation	A	+1% & - 2%
3.	Safety Standards	A	As per IE Rules 1956.
4.	System Availability	B	98.0%
5.	Feeder Availability	B	98.0%
6.	Transformer Availability	B	98.0%
7.	Voltage Unbalance	B	220/400 KV → 2% 132 KV → 3%

S. No.	Parameter	Category	Permissible limits in preliminary stage
8.	Neutral Voltage Displacement	B	2% of full load current
9.	Voltage Variation Index	B	Less than or equal to 4 % for minimum 90% of buses
10.	Frequency Variation Index	B	< = 1 %
11.	System Adequacy	B	8673 Hours.
12.	Harmonics	B	Less than 1%
13.	System Security	B	1 % of system peak.

3.2 **REPORTING BY THE LICENSEE** –

The MPPTCL submitted the quarterly reports for all the quarters of year 2009-10 timely as mentioned hereunder;

S. No.	Period	Reference of submission
i.	April-June '09	04-01/Const Tariff/F-7/ 7464 dtd. 17.8.09
ii.	July-Sept.'09	04-01/Const Tariff/F-7/ 10317 dtd. 13.11.09
iii.	Oct.-Dec.'09	04-01/Const Tariff/F-7/ 1156 dtd. 10.02.10
iv.	Jan.-March' 10	04-01/Const Tariff/F-7/ 3935 dtd. 15.05.10

3.3 **REPORTS FULLY COMPLIED** –

The following reports are fully complied during all the quarters;

i.	Voltage Variation
ii.	Frequency Variation
iii.	Safety Standards
iv.	System Availability
v.	Feeder Availability
vi.	Transformer Availability
vii.	Voltage Unbalance
viii.	Neutral Voltage Displacement
ix.	Voltage Variation Index
x.	Frequency Variation Index
xi.	System Adequacy
xii.	Harmonics

3.4 REPORTS PARTIALLY COMPLIED –

(i). SYSTEM SECURITY –

System Security is basically a planning criteria. In accordance with the Clause 6 of “Manual on transmission planning criteria” of CEA, the State transmission system shall be able to withstand the n-1 contingency state. Presently, the transmission system of MPPTCL is capable of handling single contingency (1 element outage) with the little negative effect (under voltage, or increased line loadings) and there is no loss of supply observed to any consumer with the single element (generator, line or transformer) outage condition. Future planning for strengthening the system to withstand the n-1 contingency and to assess the transmission requirement for the purpose is carried out by MPPTCL. To strengthen the transmission system to match with the specific criteria of the system security the MPPTCL has chalked out an Investment Plan of Rs. 5200 Crores for period 2007-08 to 2011-12.

However, it is reported by the licensee that no negative effect was experienced due to outage of any transmission system element during the period under report, system remained stable.

3.5 REPORTS NOT COMPLIED WITH –

There is no report which is not complied with.

3.6 POINTS OF BETTER PERFORMANCE –

The MPPTCL has shown better performance, in majority of the operational areas. These have been discussed under the MIS reports. Few of them are further illustrated hereunder;

3.6.1 TACKLING OF LOW VOLTAGE PROBLEM –

Transmission Performance Standards report specifically mention the minimum voltages at 400 KV, 220 KV, 132 KV and 33 KV buses of EHV Sub-stations.

It is seen from the reports that in all the quarters, the voltage in none of the 400 KV bus has gone down more than 3.75% as against the permissible limit of 10.00%. Similarly, in case of 220 KV buses, the voltage deviation on lower side remained within the permissible limit of 10% for all the 220 KV Buses as per the regulation.

In case of 132 KV and 33 KV buses too, almost for all the cases, the voltage variation is within limit. Only in 1 case for 132 KV and 4 cases for 33 KV, the voltage has gone lower than the limit and that too marginally.

3.6.2 VOLTAGE-WISE SYSTEM AVAILABILITY –

The Voltage-wise Availability for Lines and Sub-stations has been found well above the target fixed for 2009-10, as shown hereunder;

S. N.	System Voltage	Target	System Availability Achieved				
			Quarter April-June '09	Quarter July-Sept. '09	Quarter Oct.-Dec. '09	Quarter Jan.-Mar '10	Annual Avg.
1	400 KV	98.0%	97.59%	99.52%	99.44%	99.36%	98.96%
2	220 KV	98.0%	98.11%	98.53%	99.17%	99.56%	98.55%
3	132 KV	98.0%	99.48%	99.01%	98.70%	99.43%	99.00%
OVER-ALL		98.0%	98.22%	98.88%	98.91%	99.47%	98.82%

3.6.3 VOLTAGE UNBALANCE –

Hon'ble Commission has prescribed standard limits for voltage unbalance in final stage as 2% for 220 KV & above and 3% for 132 KV. The achievements of the licensee are shown hereunder;

(i).	Quarter April-June '09	For none of the transformer bus, the voltage unbalance was found beyond standard limit.
(ii).	Quarter July-Sept.'09	-do-
(ii).	Quarter Oct.-Dec. '09	-do-
(ii).	Quarter Jan.-March '10	-do-

3.6.4 NEUTRAL VOLTAGE DISPLACEMENT –

In none of the transformer, the Neutral Voltage Displacement was found above the limit prescribed during the four quarters of the year.

3.6.5 VOLTAGE VARIATION INDEX –

In case of 400 KV buses, the VVI for **all** the buses were within limit, where as for 220 KV and 132 KV more than 90% buses complied the VVI limit. Details of which are given in the following table;

S. No.	Quarter	Total No. of Buses checked	No. of Buses where VVI is within limit	Percentage
220 KV -				
1	April-June '09	45	45	100.00%
2	July-Sept. '09	46	42	91.30%
3	Oct.-Dec.'09	48	46	95.83%
4	Jan.-March'10	50	46	92.00%
132 KV -				
1	April-June '09	208	208	100.00%
2	July-Sept. '09	212	206	95.28%
3	Oct.-Dec.'09	212	208	98.11%
4	Jan.-March'10	218	211	96.79%

As per Regulations, atleast for 90% buses VVI should be within limit.

3.7 IMPROVEMENTS RELATED TO INVESTMENT PLAN –

Improvement in System Security is linked to completion of Capital works under Transmission Plan, which are being executed by the MPPTCL.

3.8 EFFECT OF INSTALLATION OF SHUNT CAPACITORS –

The MPPTCL installed 40 MVAR 33 KV Shunt Capacitors at certain 132 KV Sub-stations in the year 2009-10 thus increasing the capacity on Bus to 2581 MVAR for 33 KV level. This is one of the reasons which resulted in improvement in voltage profile of 33 KV Buses in these Sub-stations. The comparison is given hereunder;

S. No.	Name of EHV Sub-station	Improvement in voltage after installation of Capacitor bank	
		Before Commissioning	After Commissioning
1	2	3	4
1	132 KV DALODA	30.5 KV	32.0 KV
2	220 KV INDORE - II	32.5 KV	33.8 KV
3	132 KV BHONRA	32.4 KV	33.8 KV
4	220 KV SAGAR	32.5 KV	34.0 KV

It is seen from above comparison that there is an improvement in voltage profile on installation of Shunt Capacitors.

3.9 IMPACT OF REPORT –

The information gives valuable feed back to Transco as well as Discoms to plan their works for improvement and better services to consumers. It may be seen that the works planned and completed have resulted in relaxing the congestion and improvement in voltage profile. The quarterly reports and its review is helpful in advising the field units to improve System Availability.

4. MP ELECTRICITY GRID CODE -

4.1 COMPLIANCE UNDER MP ELECTRICITY GRID CODE -

The following compliances have been prescribed to be reported by the Reporter of Compliance under Grid Code.

- i. Constitution of Grid Code Review Committee.
- ii. Meetings of the Grid Code Review Committee.
- iii. Prospective Transmission Plan.
- iv. Demand Forecast for 10 years.
- v. Reactive Power Planning.
- vi. Reporting of Major Failure.

(i) & (ii) CONSTITUTION OF COMMITTEE AND ITS MEETINGS -

The Grid Code Review Committee as well as the Functional Committees to be constituted under MP Electricity Grid Code have been constituted and are functioning regularly as mentioned in the following table;

S. No.	Name of Committee	Constituted on	Meeting held on
1	Grid Code Review Committee	3.2.05	1 st meeting – 12.7.05 2 nd meeting – 14.12.05 3 rd meeting – 11.07.06 4 th meeting – 25.06.07 5 th meeting – 25.02.08 6 th meeting – 27.02.09 7 th meeting – 25.03.10
2	Operation Coordination Committee	12.7.05	1 st meeting – 9.09.05 2 nd meeting – 10.11.05 3 rd meeting – 24.01.06 4 th meeting - 12.04.06 5 th meeting – 28.06.06 6 th meeting – 14.11.06 7 th meeting – 20.03.07 8 th meeting – 25.06.07 9 th meeting – 29.10.07 10 th meeting – 13.02.08 11 th meeting – 17.07.08 12 th meeting – 23.10.08 13 th meeting – 04.02.09 14 th meeting – 14.05.09 15 th meeting – 15.07.09 16 th meeting – 16.09.09 17 th meeting – 16.11.09 18 th meeting – 28.01.10

S. No.	Name of Committee	Constituted on	Meeting held on
3	Protection Coordination Committee	12.7.05	1 st meeting – 16.07.05 2 nd meeting – 29.03.06 3 rd meeting – 8.06.06. 4 th meeting – 21.11.06 5 th meeting – 20.3.07 6 th meeting – 23.07.07 7 th meeting – 29.10.07 8 th meeting – 11.02.08 9 th meeting – 23.06.08 10 th meeting – 16.10.08 11 th meeting – 19.01.09 12 th meeting – 19.05.09 13 th meeting – 20.08.09 14 th meeting – 19.11.09 15 th meeting – 03.02.10
4	Transmission Metering Committee	12.7.05	1 st meeting – 6.09.05 2 nd meeting – 28.06.06 3 rd meeting – 22.06.07 4 th meeting – 13.02.08 5 th meeting – 26.02.09 6 th meeting – 05.09.09 7 th meeting – 19.03.10

4.2 TRANSMISSION PLAN -

The MPPTCL formulated the Transmission Plan for period 2007-08 to 2011-12 (11th Plan period) and submitted to the Hon'ble Commission in July 2007. Hon'ble Commission desired certain additional information which were filed by the MPPTCL vide letter No. 04-01/Const. Tariff/9804 dtd. 01.12.07. The gist of the Plan is as given below;

- | | |
|--|------------------------|
| (i). Addition in EHV Lines (2007-08 to 2011-12) | 15,988 Ckt. KM. |
| (ii). Addition in Transformation Capacity (2007-08 to 2011-12) | 18,593 MVA |
| (iii). Investment Required (2007-08 to 2011-12) | Rs. 6805 Crores |

The Plan has been approved by Hon'ble Commission provisionally vide its order dated 19.03.08, passed in the matter of True-up of Transmission Tariff for financial year 2006-07 (Petition 62/2007).

While making annual review of the Plan in April 2008, it was noticed by the Licensee that Shahpura Thermal Power Station (1000 MW) and Birsinghpur Thermal Power Station's extension unit (500 MW) which were earlier scheduled in 11th Plan are now expected to be completed in 12th Plan period. The evacuation and Associated Transmission Systems have accordingly been shifted to 12th Plan period, to avoid idling of the Assets. The 11th Plan (transmission) has therefore got down sized to Rs. 5200 Crores in place of Rs. 6805 Crores. The gist of the Plan is given hereunder;

S. No.	Particulars	Provision in Plan 2007-08 to 2011-12	
		Physical	Financial (Rs. Crores)
1	400 KV Lines	1129 Ckt. Kms.	867.37
2	220 KV Lines	5498 Ckt. Kms.	980.07
3	132 KV Lines	4937 Ckt. Kms.	1044.86
TOTAL Lines -		11564 Ckt. Kms.	2892.30
4	400 KV S/s	2520 MVA	390.81
5	220 KV S/s	6980 MVA	915.95
6	132 KV S/s	4811 MVA	961.14
7	MISC Works	-	39.80
Total Sub-Stations -		14311 MVA	2307.70
Grand Total (Transmission Plan) -		-	5200.00

Physical and financial progress for 2009-10 has been sent to Hon'ble Commission vide letter 04-01/CRA Cell/ 4514 dtd. 05.06.10. The updation in Plan has also been submitted vide letter No. 04-01/CRA Cell/F-8/ 4918 dtd. 23.6.10.

4.3 DEMAND FORECAST -

The Demand Forecast has been furnished by the MPPTCL as an integral part of the Transmission Plan.

4.4 REACTIVE POWER PLANNING EXERCISE -

While proposing the additional lines and sub-stations, the licensee has taken into consideration the handling of reactive power, as a Planning Exercise.

4.5 REPORTING BY SLDC -

In compliance of the Clause No. 14.1.1 of the MP Electricity Grid Code, the OSD (Load Despatch) is submitting a monthly report to the Hon'ble Commission covering the following parameters;

- i. Frequency Profile.
- ii. Voltage Profile.
- iii. Major Generation and Transmission Outages.
- iv. Transmission Constraints.
- v. Instances of Persistent / Significant Non-compliance of Grid Code.

No non-compliance of Grid Code has been reported in the SLDC's reports.

4.6 FOLLOW UP OF GRID CODE REVIEW COMMITTEE'S RECOMMENDATIONS -

In Grid Code Committee's meeting dated 25.6.07, it was resolved that a token penalty may be imposed on excessive trippings on feeders emanating from EHV Sub-stations. The recommendations were submitted to the Hon'ble Commission. Hon'ble Commission directed to submit it in a petition's form. Accordingly, the petition was filed by the licensee before the Hon'ble Commission and the same was registered as petition No. 61/07.

Hon'ble Commission has passed an order on 8.12.2009 and disposed off petition with the directions; that Central Discom should reconcile the status of tripping of all 10 identified feeders and draw a comprehensive time bound action plan within two months for reduction of tripping.

The West and East Discom should also draw a similar comprehensive action plan and submit the same to PCC. These action plans with monitoring mechanism be submitted to the Commission after 3 months alongwith the minutes of Protection Coordination Committee meetings.

This issue is further being taken up in the Protection Coordination Committee meetings.

5. LICENSE CONDITIONS -

5.1 The MPPTCL has complied with the conditions of License prescribed by the Hon'ble Commission. The status of compliance has been updated time to time. The current position is tabulated hereunder;

Clause No.	Particulars	Whether the condition under clause has been fulfilled by the Company (Yes/No)	If yes, the reference of the compliance report should be given	If no, Reasons for not fulfilling the condition	The expected date of which it shall be complied	REAMRKS
7.2 (b) (ii) and (iv)	Submission of interim profit and loss account, cash flow statement and balance sheet for first/second six months of financial year.	Yes	-	N.A.	N.A.	Half yearly accounts for 2009-10 will be incorporated in Annual Account which are due by 30.9.10.
7.2 (b) (ii) and (iv)	Submission of financial statement (Annual)					
9.1	Submission of information in the prescribed enclosed formats of Condition of license	Yes	Sent vide No. 04-01/ CRA Cell/ F-8/ 4918 dtd. 23.6.10.	N.A.	N.A.	Complied.
9.3	Information of incident affecting any part of the Transmission system.	Yes	Reported by SLDC on monthly basis	N.A	N.A	No major incident occurred during year 2009-10.
9.9	Submission of 5 year Business Plan	Yes	Sent vide No. 04-01/ Const. Tariff/9804 dtd 01.12.07. Approved by Hon'ble Commission 19.3.08.	N.A.	N.A.	Complied.
9.10	Subsequently the progress of Business Plan of previous year alongwith the proposal for updating the Business Plan for next 5 years.	Yes	Updation of Investment Plan incorporated in Business Plan submitted in 5 th June '10.	N.A.	N.A.	Complied.

Clause No.	Particulars	Whether the condition under clause has been fulfilled by the Company (Yes/No)	If yes, the reference of the compliance report should be given	If no, Reasons for not fulfilling the condition	The expected date of which it shall be complied	REAMRKS
10.2	Submission of 5 Year Investment Plan (Correlated with the Business Plan)	Yes	Revision Sent vide letter No. 04-01/ CRA Cell/ F-8/ 4918 dtd. 23.6.10.	N.A.	N.A.	Complied
10.2 (a)	Annual Investment plan with details of investment schemes to be carried out during the financial year, subsequently the progress of Investment plan of previous year alongwith the proposal for updating the Business Plan for next 5 year.	Yes, inbuilt in 5 Year Plan.	Progress submitted vide letter No. 04-01/CRA Cell/ 4514 dtd. 05.06.10..	N.A.	N.A.	Revised Plan Sent vide letter No. 04-01/ CRA Cell/ F-8/ 4918 dtd. 23.6.10.
10.4	Existing tendering procedure for approval of the Commission	Yes	Sent vide No. 04-01/ Const. Tariff/6298 dtd. 8.7.09.	N.A.	N.A.	Sent tendering procedure for general procurement as well as for procurement under ADB Loan. No change in procedure.
17	Implementation & compliance of Grid Code	Yes	Monthly report submitted.	N.A.	N.A.	Complied. Monthly report on Grid Code compliance is being sent regularly by SLDC.

Clause No.	Particulars	Whether the condition under clause has been fulfilled by the Company (Yes/No)	If yes, the reference of the compliance report should be given	If no, Reasons for not fulfilling the condition	The expected date of which it shall be complied	REAMRKS
18.2	The Licensee to submit the existing Planning and Security Standards and the Operating Standards for the Transmission for the approval of the Commission.	Yes	Sent vide No. 04-01/ Const. Tariff/4935 dtd. 21.7.05.	N.A.	N.A.	The MPPTCL is using the Planning & Security code prescribed by the CEA, which has been sent to Hon'ble Commission.
18.3 (a)	The Licensee to submit the proposal for Transmission Planning and Security Standards and Transmission Operating Standards for approval of the Commission	Yes	Transmission operating standards defined in Transmission Performance Standards submitted on quarterly basis.	N.A.	N.A.	Transmission plan is formulated as per CEA's standards. A brief report has been sent vide letter No. 04-01/Const. Tariff/3490 dtd. 30.4.07.
18.10 (a)	The Licensee shall on an annual basis forecast the quantum of power to be wheeled through its transmission system based on the forecast made available by Users within the Area of Transmission in each of the next succeeding five years.	Yes	Covered in transmission plan energy requirement for next 5 years.	N.A.	N.A.	Complied. Updated vide No. 04-01/CRA Cell/5373 dtd. 03.6.08.
18.10 (b)	The Licensee shall estimate the quantum of Inter-State transmission that will occur through its wires in each of the succeeding 5 years.	Yes	Sent vide letter No. 04-01/Const. Tariff/1433 dtd. 15.2.06.	N.A.	N.A.	Complied. No major contribution in Inter-State transmission.
18.10 (c)	The licensee shall prepare and submit forecasts to the Commission in accordance with the guidelines issued from time to time.	Yes	Submitted in Transmission Plan.	N.A.	N.A.	Complied.

Clause No.	Particulars	Whether the condition under clause has been fulfilled by the Company (Yes/No)	If yes, the reference of the compliance report should be given	If no, Reasons for not fulfilling the condition	The expected date of which it shall be complied	REAMRKS
18.11	The Licensee shall submit to the Commission a report indicating the performance of the Transmission System during the previous financial year.	Yes.	Sent vide No. 04-01/ CRA Cell/ F-8/ 4918 dtd. 23.6.10.	N.A.	N.A.	Complied.
19.4	The Licensee shall submit to the commission on annual basis, a statement showing in respect of each of the 5 succeeding financial years forecasts of circuit capacity, power flows and loading on the Transmission System under standard planning criteria, together with: (a) such further information as shall be reasonably necessary to enable any person seeking Use of System to identify and evaluate the opportunities available when connecting to & making use of such system; and (b) a commentary prepared by the Licensee indicating its views as to those parts of its Transmission System most suited to new connections and transport of further quantities of electricity.	Yes	Incorporated in Transmission Plan	N.A.	N.A.	Complied.
		Yes	Put up on Website	N.A.	N.A.	Complied.
		Yes	Sent vide No. 04-01/ CRA Cell/ F-8/ 4918 dtd. 23.6.10.	N.A.	N.A.	Complied. Power map of MPPTCL updated as on 31.03.10 is on Website.

Clause No.	Particulars	Whether the condition under clause has been fulfilled by the Company (Yes/No)	If yes, the reference of the compliance report should be given	If no, Reasons for not fulfilling the condition	The expected date of which it shall be complied	REAMRKS
20	Submission of ARR	Yes	* Petition for FY 05-06 and FY-06-07 to FY 08-09 (MYT) have been submitted. * True up petition for 05-06 submitted on 07.11.06. * True-up Petition for year 2006-07 filed on 15.10.07. *True-up petition for 07-08 filed on 12.10.08. *MYT Petition for FY-10 to FY-12 submitted on 05.06.09. *True-up petition for 08-09 filed on 19.12.09	N.A.	N.A.	Tariff orders issued by Hon'ble Commission on 7.2.06 & 13.3.06 respectively. True up order for 05-06 issued on 07.02.07. True-up order for year 2006-07 issued on 19.03.08. True-up order for year 2007-08 issued on 21.10.09. Tariff orders issued by Hon'ble Commission on 11.01.2010 Petition to allow True-up for year 2008-09 is under process.

5.2 As per the above mentioned table practically all the issues have been complied.

6. OPEN ACCESS REGULATIONS –

Under the Open Access Regulations notified by the Hon'ble Commission on 24.6.05, the MPPTCL has taken following actions in compliance of the regulations;

- i. Nodal Officers have been appointed for Long Term as well as Short Term Open Access and their offices are functional.
- ii. Committee to decide the Open Access at the level of the licensee has been constituted.
- iii. Nominations have been sent to the Hon'ble Commission for 'Decision Review Committee'.
- iv. The guidelines on Long Term Open Access drafted and sent by the MPPTCL have been approved by the Hon'ble Commission and these have been displayed on the Website of the MPPTCL.
- v. The draft of the Transmission Service Agreement for Open Access customers has also been approved by the Hon'ble Commission and displayed on the Website.
- vi. **Agreement between Nodal Agency and Open Access Customers-**

The Transmission Service Agreements between the MPPTCL and the Discoms have been executed in November 2006.

At present there is one Long Term Open Access customer i.e. SEZ, Pithampur (other than Discoms). The agreement has been executed on 29.1.05 and a copy of the agreement has been sent to the Hon'ble Commission on 23.2.05. In addition to above long term Open Access is granted to certain wind generators recently, whose agreements have been executed and are under execution in few cases. The Open Access to Non Conventional Energy Source based generators is to be provided under State Govt. Policy of 17th October 2006.

- vii. **Relinquishment of transfer of Long Term Open Access right -**

There has been no such case till date.

- viii. **CERC's Regulations Dated 25th January 2008 -**

Hon'ble Central Commission has notified CERC (Open Access in Inter-State Transmission) Regulations, 2008 on 25.01.2008. The Regulations are mainly applicable to the Short Term Open Access. The Regulations provide transmission charges in Rs./MWH for Short Term Open Access customers.

The CERC has amended above Regulations which are applicable since 15th June 2009.

In lines with the above Hon. MPERC has passed the orders in Rs/MWH for the purpose of billing in the case of Inter-state open access consumers for 2009-10 with the MYT order dated 11.01.2010 and for 2010-11 vide order dated 13.05.2010.

6.1 ACTUAL AVERAGE LOSSES –

The energy losses during the past seven (7) years are as hereunder;

2003-04	-	6.12%
2004-05	-	5.62%
2005-06	-	5.23%
2006-07	-	5.00%
2007-08	-	4.09%
2008-09	-	4.09%
2009-10	-	4.19%

Although the above figures indicate a reducing trend of transmission losses, inspite of increase in energy handled every year a slight raise in losses were observed in 2009-10. The CMD MPPTCL directed that a Committee should be formed for investigating in to the reasons of the increase in losses in the year 2009-10.

The Committee investigated the reasons for the marginal increase in losses in 2009-10 and found that the same could be attributed to the fact that after synchronization of 220 KV Badod-Kota & 220 KV Badod-Modak Interstate lines in January 2009 and PGCIL's ICTs, power was being continuously exported from MP to Rajasthan on these two interstate lines from July 2009 onwards resulting in marginal increase in losses

7. SLDC FUNCTIONS -

7.1 SLDC FEES AND CHARGES REGULATIONS –

The regulations have been notified on 21st Sept. '04. The State Govt. has already declared the Load Despatch Centre at Jabalpur as the State Load Despatch Centre under Electricity Act 2003. The ARR for 2007-08 of SLDC has been approved by Hon'ble Commission vide order dated 18.01.08. The ARR for 2008-09 was approved by the Hon. MPERC on 20.02.09 and an amendment passed on 15.04.09 for an amount of Rs. 1.63 Crores. The order for ARR of 2009-10 was given on 26.11.09 amounting to Rs. 5.61 Crores.

The SLDC has filed its petition for determination of Fees & Charges for year 2010-11 in November 2009, orders of which have been issued by Hon. MPERC on 20.05.2010, subsequently amended on 02.06.2010 for an amount of Rs 6.58 Crores.

7.2 SEPARATE FINANCE ACCOUNT FOR SLDC -

The separate account in the name of RAO, MPPTCL – SLDC has been opened in State Bank of India, Jabalpur in July '05.

The final Opening Balance Sheet notified on 12.06.08 does not provide separate Balance Sheet for SLDC. However, value of Assets of SLDC is separately indicated.

7.3 APPLICATION FOR CONNECTION TO STATE GRID –

The generation system of MP Genco and transmission system of MPPTCL is already connected to the State Grid. The NHDC has submitted application alongwith fees to SLDC for connectivity of their plants to the State Grid.

7.4 DETERMINATION OF FEES & CHARGES –

The SLDC had earlier submitted petition for determination of fees and charges for year 05-06. The Hon'ble Commission has disposed off the petition vide its order dtd. 7.2.06 treating the SLDC operated by the STU for year 05-06.

The SLDC has filed petition for ARR of all the years till FY-2011, and orders for the same have been issued by The Commission, details of the same has been mentioned para 7.1 above.

7.5 TREATMENT OF OTHER BUSINESS OF LICENSEE –

The regulations in this regard have been notified by the Hon'ble Commission on 1.6.04. However, the MPPTCL has not carried out any other business during the period of report. A certificate has already been submitted by the Licensee to the Hon'ble Commission in this regard.

OBSERVATIONS BY THE CMD (MPPTCL) ON COMPLIANCE OF VARIOUS REPORTS

8.1 SUBMISSION OF PERIODICAL REPORTS -

The CMD, MPPTCL discussed with the Reporter of Compliance, various reports, submitted by the MPPTCL to the Hon'ble Commission during year 2009-10. The CMD expressed satisfaction that the quarterly reports on MIS and Performance Standards for the quarters falling in the year have been submitted by the due dates. Other reports have also been submitted on time. It was emphasized that the further reports may also be submitted on time. The observations of the CMD, MPPTCL, on certain points are mentioned in the following paras;

8.2 MIS REPORTS -

Position of overloading on lines has been discussed. It was noted that the planned works expected to give relief to these lines have either been completed recently or are expected completion in the coming year. The position is therefore expected to get improved during this year. It was discussed that about 1662 Ckt. KM lines have been added during 2009-10, along with 2992 MVA capacity addition. This will further strengthen the Intra-State Transmission System.

The voltage profile to all voltage levels has improved significantly as compared to last year. This has been on account of giving more importance to strengthening of 220 KV system, as per directions of Hon'ble Commission. In 2009-10 also physical achievement in respect of 220 KV lines and Sub-stations are significant and at par with 132 KV level.

The transmission loss level is although well within the target fixed, however there is a marginal increase of 0.1% as compared to the previous year. The findings of the Committee constituted to analyse the reasons for the marginal increase were also discussed. The CMD noted that the losses to our system are also contributed by flow of Central Sector Power to other states through our transmission links. At present there are no Central regulations to transfer this fraction of losses to Central Pool. The CMD directed to explore the possibility of taking this issue at appropriate forum.

8.3 TRANSMISSION PERFORMANCE STANDARDS -

Achievements against various Performance Standards fixed for the transmission licensee were discussed. The CMD expressed satisfaction over the Performance Standards achieved in respect of Voltage and Frequency Variation, Voltage Unbalance, Neutral Voltage Displacement etc. There has been practically no incidence when the power supply is restricted on account of transmission system inadequacy.

The CMD also expressed satisfaction over the attained Annual System availability 98.82% against a target of 98.0%. The CMD however advised the procurement section

and field units for better spare part management and prompt handling of outage situations.

It was also observed by the CMD that on account of the strengthening of transmission system at every voltage level there has been a tangible improvement in the Voltage Profile. Further, installation of 40 MVAR, 33 KV Shunt Capacitors in 132 KV Sub-stations, brought marked improvement in voltage profiles. There is practically no case during the year when voltage has gone below the lower limit. This indicates that the works executed by the company are based on system studies and have resulted in desired outcome.

8.4 MP ELECTRICITY GRID CODE -

The functioning of the Grid Code Review Committee and other functional committees was reviewed. It was observed that meetings of the committees are convened time to time. The meeting of MP Grid Code Review Committee was held on 25.03.10. Regarding the matter of excessive trippings on 33 KV and 11 KV feeders emanating from EHV Sub-stations It was once again emphasized that the purpose of this was to ensure improvement in smooth system operation, protect equipments from failure & provide uninterrupted supply, which has been served to an extent during the process of the petition filed in this regard.

Status of implementation of Intra-State ABT in the State of Madhya Pradesh and matter regarding Connection conditions for connectivity in Intra State Transmission System were taken up for deliberation and agreement for sending the above proposals to the Hon. Commission in the format as desired by the Commission.

The monthly reports submitted by the SLDC to the Hon'ble Commission in compliance of the Grid Code were also gone through, and it was noted that no transmission constraint was reported by the SLDC, during the year.

8.5 OPEN ACCESS –

It was discussed that the guidelines on Open Access are in place, and are available on Website. Hon'ble Commission vide order dtd. 07.11.08 determined Wheeling Charges, and Cross Subsidy Surcharge. The short term Open Access charges in Rs/MWH have also been determined.

8.6 SLDC ACTIVITY –

The SLDC has filed its petition for determination of Fees & Charges for year 2010-11 in November 2009, orders of which have been issued by Hon. MPERC on 20.05.2010 & later amended on 02.06.2010.

Hon'ble MPERC has notified "MPERC Balancing & Settlement Code – 2009 (G-34 of 2009)" and published in Gazette Notification dated 30.10.2009. Intra State ABT has been implemented in the State of Madhya Pradesh and one of the key provision of National Electricity Policy has been implemented.

8.7 ACKNOWLEDGEMENT –

In the overall perspective, it can be mentioned that the transmission licensee has ensured the stipulated compliance of practically all the regulatory requirements under various Regulations. The valuable guidance and support rendered by the Company's Board of Directors and State Government have provided motivation to these tasks. The Company expresses its gratitude to both. The untiring efforts of team of Company's Officers and employees against many adversities have enabled the Company to attain the level of performance. Under the active support from all the affiliated quarters, and under inspiring directions of Hon'ble MPERC, State Government and Board of Directors, the Company is committed to reach the goals set for it.

ANNUAL REGULATORY COMPLIANCE REPORT
YEAR 2009 – 2010

To,

The Madhya Pradesh Electricity Regulatory Commission,
4th & 5th Floor, Metro Plaza,
E-5, Arera Colony, Bittan Market,
BHOPAL – 462016.

M.P. Power Transmission Company Ltd., Jabalpur reports as follows:-

1. The enclosed report is 'Annual Compliance Report' for the year 2009-10 and has been prepared in a manner that meets the requirement of the compliance systems and reporting.
2. The enclosed report covers information about all the details that were to be furnished to the Commission during the period specified at Serial No. 1 above.
3. Enclosed report is being submitted to the Board of Directors for their approval.
4. The licensee having made due enquiry, is not aware of any breach of any of the obligations of license conditions or regulations.

Dated the 29th Day of June 2010.

Signed /-

(D. P. Saxena)
Reporter of Compliance

Signed /-

(R. K. Verma)
Chairman and Managing Director