

AGENDA FOR 18TH MEETING OF OPERATION & COORDINATION COMMITTEE OF MP TO BE HELD ON 18TH JANUARY 2010 AT NHDC, BHOPAL.

ITEM NO. 1 : CONFIRMATION OF MINUTES

Minutes of 17th meeting of Operation & coordination committee of MP held on 16.11.2009 at SLDC, Jabalpur were uploaded on the SLDC website and intimation was given to all the members of the Committee vide No07-05/SG-9B-II/2081 dated 16-12-2009. No comments were received from the members.

The committee may confirm the minutes.

ITEM NO. 2 : REVIEW OF SYSTEM OPERATION DURING THE MONTH OF SEPTEMBER 2009 AND OCTOBER 2009

2.1 Frequency Particulars

The detailed frequency particulars for the month of November-2009 & December-2009 are enclosed at Annexure-2.1. The One hour integrated average frequency during November & December 2009 was recorded at 49.88 Hz and 49.81 Hz respectively. The minimum integrated frequency over an hour was 49.34 Hz and 49.38 Hz for the respective months with the maximum integrated frequency over an hour was 50.36 Hz and 50.39 Hz. The instantaneous maximum and minimum frequency recorded for November & December 2009 was 50.58 Hz, 48.87 Hz and 50.56 Hz, 48.83 Hz respectively.

The Committee may like to note.

2.2 Operational Matters

2.2.1 Operational Discipline

System operation in low frequency regime has improved during November and December, 2009. The system frequency was below 49.2 Hz for 0.45% of time in November and 0.52 % in December 2009 as against 5.03 % of time during October, 2009 and frequency dipped below 48.8 Hz on 0 occasions in November 2009 and 0 occasions in December 2009 as against 155 occasions in October, 2009.

System operation in high frequency region during November and December 2009, prevailed as the percentage of time when system frequency was above 50.30 Hz was 5.58 % in November and 2.02 % in December 2009 as against 0.30 % of time during October, 2009. The system frequency of the grid was within the permissible range of 49.2-50.3 Hz for 93.97 % of the time in November and 97.46 % of the time in December 2009 compared with 94.67 % of time during October, 2009. The average monthly frequency was 49.88 Hz during November and 49.81% time during December 2009. The net unscheduled interchange by MP during the months November & December 2009 was -76.31 MU and -91.34 MU respectively.

The instances of significant violation of IEGC by the DISCOMs by overdrawing at frequency below 49.2 Hz during the month of November & December 2009 is as detailed in the Annexure 2.2.1.

Committee may like to discuss for proper load shedding management by each Discoms to avoid Instances of significant violation of IEGC

The Committee may like to note.

2.3.1 Voltage Profile

Voltage profile at some of the important 400 KV and 220 KV substations of MP during the month of November & December 2009 is enclosed at Annexure -2.3.

During the month of November & December 2009, the deviation of voltage from the accepted limit on either side was recorded at following location in MP Grid.

Sr .No.	Name of Substation	NOVEMBER 2009				DECEMBER 2009			
		Max. Voltage observed		Min. Voltage observed		Max. Voltage observed		Min. Voltage observed	
		Voltage	Date	Voltage	Date	Voltage	Date	Voltage	Date
1	Indore	-	-	-	-	-	-	-	-
2	Itarsi	428	23.11.09	-	-	428	16.12.09	-	-
3	Bina	-	-	-	-	-	-	-	-
4	Gwalior	432	12.11.09	362	14.11.09	426	30.12.09	364	23,24.12.09
5	Nagda	430	11.11.09	-	-	428	16.12.09	-	-

The Committee may discuss.

2.3.2 Status of Capacitor Banks in sub-transmission system

The details of capacitor bank installation on 33 & 11 KV feeders was discussed in the last OCCM and targets for completion of balance work was given by the DISCOMs. It was also agreed by the DISCOMs to furnish the progress as on 31st December 2009 by the first week of January 2010. The information a furnished by the DISCOMs is as detailed below:

UTILITY	600 KVAR Capacitor Banks		1200 KVAR Capacitor Banks		Remark
	Ordered	Commis sioned	Ordered	Commis sioned	
East Zone	27	16	49	Nil	11 Nos 600 KVAR capacitors shall be commissioned by mid January 2010 and 49 Nos 1200 KVAR capacitors by Mid February 2010.
West Zone	410	392	196	180	Civil work for 5 Nos 600 KVAR and 9 Nos 1200 KVAR capacitors is completed and civil work is under progress for 6 Nos 600 KVAR and 6 Nos 1200 KVAR Caopacitors.
Central Zone	-	-	588	572	Balance 16 Nos. expected to be installed by January 2010

(Action Discoms)

2.4.1 Status of completion of on going Transmission Schemes being executed by MPPTCL

The updated status on various ongoing Transmission Schemes for the current financial year as on 31-12-2009 may be submitted by the MPPTCL for discussion in the meeting.

(Action : Planning MPPTCL)

2.4.2 U/F and df/dt Relay Operation

- (i) During November and December 2009 the system frequency remained below 49.2 Hz for 0.45 % and 0.52 % of the time respectively and there was no under frequency or df/dt operation reported during these months.

The Committee may discuss.

- (ii) Status of replacement of defective under frequency & df/dt relays and installation of under frequency & df/dt relays at 33 KV feeder at newly constructed EHV S/s, may be furnished by T&C / PS.
- (iii) **Review of df/dt scheme** : Owing to commissioning of new substations and lines some of the feeders where df/dt relays are installed no longer exists to be radial feeders and adequate load relief from df/dt relay operation is not available. A list of such feeders having df/dt relays installed is given in Annexure 2.4.2(iii). The review of df/dt relays on these feeders and shifting of the same to other radial feeders is required. The CE (PS) and CE(T&C) may work out a plan for the same.

[Action CE (T&C)/CE(PS)]

2.4.3 Confirmation of Healthiness status of SERs/DRs equipment in the system

It was agreed by the MPPTCL & MPPGCL that the consolidated information regarding status of healthiness of DRs & SERs and GPS time stamping facility, shall be made available to SLDC in the first week of each month. It was also agreed that the information shall be limited to all Power Stations, All 400 KV substations, interstate EHV substations and other EHV substations that are connected to power stations or CS substations. However, the information from few substations and power stations is being received directly by SLDC. The complied information is also required for the OCCM of WRPC on monthly basis. It is requested that O&M:Gen, MPPGCL and T&C, MPPTCL may act as nodal office for respective company for furnishing this information. The information may be furnished every month in the proforma attached as Annexure 2.4.3.

[Action MPPGCL / MPPTCL].

2.5 Power Cuts / Load restrictions/Differential Load Shedding by DISCOMS

- (i) Details of Discom wise Power cuts and Regulatory measures during November and December 2009 are enclosed at Annexure 2.5.
- (ii) **Differential Load Shedding** : The DCCs were requested vide letter No. 07-05/PM-57/1010 dated 30.06.2009 to furnish to SLDC the hourly differential load shedding data in MW on daily basis to work out the unrestricted demand. The matter was also discussed in the 15th, 16th and 17th OCC meeting and DISCOMs had agreed to furnish the data. However, the information is being received from Central DCC only and despite repeated reminders other DISCOMs are not furnishing the data to SLDC. The load relief data computation may be done by the DISCOMs on realistic basis taking into account the district wise/ group wise load relief quantum corresponding to the LS period.

The DCCs may start furnishing the data at the end of each shift to SLDC so that unrestricted demand computation could be made correctly.

(Action DISCOMS)

ITEM NO. 3 : OPERATIONAL PLANNING

3.1 Anticipated Power Supply Position for the Month of January-2010 to March 2010 and Demand estimation :

Details of Anticipated Demand and Source wise Availability for the period January 2010 to March-2010 is enclosed in Annexure-3.1.

The DISCOMs have submitted the demand estimation data for 2010-11. However, the district wise/group wise loads are not provided. The DISCOMs are requested to submit the same before OCC meeting so that the same could be discussed in the meeting.

As per MPERC regulation (MPEGC), the DISCOMs have also to provide daily demand on month ahead by 25th for the next month. However, the data on daily demand on month ahead for the next month is not being received from any of the DISCOMs. The DISCOMs may give specific commitment to the OCC for the date from which they would start furnishing the data to SLDC

(Action DISCOMs).

3.2 Generating Units under planned outage and proposed maintenance programme-

There will be no generating units under planned outage during the month January 2010 to March 2010 as per MPPGCL.

Committee May like to note.

3.3 Proposed shutdown programme of Transmission lines / Transformers -

The proposed maintenance programme for the period 16th January to 15th March-2010 is annexed at Annexure-3.3.

3.4 Long Outages of transmission elements :

The transmission elements as detailed below are under long outages. The T&C, MPPTCL and O&M:Gen MPPGCL sections may give the schedule and work progress of bringing back these elements into service.

S N	Line/Transformer/Breaker/ Reactor etc under long outage	Outage date	Reason	Expected date of restoration.
1	63 MVAR Bus-I Reactor at Satpura TPS	24.05.2005	Damage of all three limbs along with reactor tank	Estimate approval is under progress.
2	Tie Breaker of 315 MVA, 400/220 KV X'mer -II at 400 KV Bina S/S	23.10.2008	Gas Leakage from PIR	Out of 2 Nos. PIR, one unit got damaged during transit. The supplier is replacing the defective unit. The work is expected to be completed by January end.

Action MPPGCL/MPPTCL

ITEM NO. 4 : OPERATIONAL STATISTICS FOR THE MONTH OF NOV AND DEC 2009.

The details of actual generation, Schedule from Central Sector demand etc. are given in the following Annexure:

- Annex. 4.1 Unit wise actual Generation of MPPGCL thermal Units and station wise Generation of MPPGCL& NHDC Hydel Units.
- Annex. 4.2 Power Supply Position.
- Annex. 4.3 Hourly Average of Availability and Demand.
- Annex. 4.4 Details of reservoir level.
- Annex. 4.5 Monthwise target of Thermal Generation of MPPGCL

The Committee may like to note.

ITEM NO. 5 : SYSTEM DISTURBANCE IN MP FOR THE MONTH OF SEPTEMBER & OCTOBER 2009

There was no significant system disturbance reported during the period Nov & Dec 2009.

ITEM NO. 6 : REVIEW OF SYSTEM OPERATION & MANAGEMENT

6.1 Progress of functioning of Discom Control Centre (DCC)

Despite constant persuasion from SLDC, the West DISCOM has not taken up the load management functions. The MPERC has implemented the Balancing & Settlement code in the state from 1st November 2009 and all three DISCOMs have come under intrastate ABT regime. Under this situation it is the prime responsibility of each DISCOM to comply with the Balancing and Settlement code. The load management function by West DCC is a must. The West DISCOM may give their firm commitment to the Committee to start performing the load management function otherwise SLDC shall have no option but to report to MPERC.

Action : West DISCOM.

6.2 PREPAREDNESS OF MPPGCL FOR IMPLEMENTATION OF BALANCING & SETTLEMENT CODE -

The MPERC has implemented the Balancing & Settlement code in the state from 1st November 2009. The matter of establishing full fledged ABT monitoring cells at thermal power stations and providing adequate communication facility at thermal and hydel power stations has been discussed in the last two OCC Meetings. The MPPGCL may establish the ABT monitoring cells at thermal power stations. The MPPGCL may submit its report to SLDC in this regard before the OCC meeting so that the same could be discussed in the meeting before submitting the report by SLDC to MPERC.

Action: MPPGCL

6.3 ABT METER DATA COLLECTION & COMMUNICATION TO SLDC –

As per MPERC Balancing & Settlement Code, 2009 enforced w.e.f. 1st November 2009, State Energy Account and State Energy UI Account are to be prepared by SLDC as per the provisions of Balancing & Settlement Code. Officers of MPPTCL & MPPGCL authorized for downloading, checking for its completeness & correctness and communication to SLDC have already been designated by the respective Companies. However SLDC is not in a position to prepare the State UI pool account for the

month of November 2009 even in the first week of January 2010 due to non availability of number of ABT meters data from the various T&C Circles. The observations of the SLDC have been given in Annexure 6.3. MPPTCL & MPPGCL are requested to download the ABT meter data installed at all the interface points between G-T, T-D & G-D on fortnightly basis on 1st & 16th of every month and communicate to SLDC positively by 3rd and 18th of the month after ensuring the correctness & completeness of the data.

Action: MPPTCL/MPPGCL

6.4 REQUISITION OF KAWAS & GANDHAR RLNG–

Since 1st week of January 2010, it has been observed that system frequency has gone below 49.2 Hz on several occasions and is running below 49.5 Hz for considerable time. During the low frequency regime, East & West DISCOMs have overdrawn from the grid considerably. The variable charges of the Kawas RLNG and Gandhar RLNG is about Rs. 3.60/- and Rs. 3.47 per unit respectively (rates for 9th Jan 2010), whereas the UI charges at frequency 49.2 Hz is Rs. 7.35 per unit. The DISCOMs therefore, need to continuously study the system parameters and decide whether to avail the entitlement of Kawas and Gandhar RLNG power or not. The system frequency is dependent on many factors and in real time the frequency may be different from that forecasted a day ahead and hence in order to make balance between availability and demand of the concerned DISCOM, they are required to evaluate the requirement in the real time (same day). The scheduling of RLNG power from Kawas and Gandhar, both on day ahead as well as same day, may therefore be decided by the DISCOMs in consultation with TRADECO keeping in view the financial implications.

Committee may like to discuss.

ITEM NO 7 : SCADA/EMS RELATED ISSUES :

7.1 PROGRESS OF INSTALLATION OF NEW RTUS ALONG WITH PLCC DATA LINKS AT EHV S/S :

The MPPTCL may submit the progress of providing new RTUs and required PLCC equipments at substations.

(Action Planning, MPPTCL)

7.2 MAINTENANCE OF TELEMETERING EQUIPMENTS AT EHV STATIONS AND POWER STATIONS :

The maintenance of Remote Terminal Units installed in MPPTCL and MPPGCL power stations have to be finalized by the respective companies. The progress in this regard may be submitted in the OCC meeting. Action taken may be informed to the Committee.

(ACTION : T&C, MPPTCL & O&M :GEN,MPPGCL)

7.3 DISCREPANCY IN TELEMETERED VALUES RECEIVED FROM DIFFERENT EHV S/S & POWER STATIONS :-

The discrepancy in telemetered values from Power Stations & S/s was brought to the notice of the concerned officials from time to time. Though the action is taken for restoration of some of the parameters, many telemetered values are still not received correctly in SCADA system or are not extended / configured in the telemetry equipments in the field. The list of faulty telemetered values/process connections is detailed in annexure-7.3(i) & 7.3(ii).

(ACTION : T&C, MPPTCL & O&M :GEN,MPPGCL)

7.4 UPGRADATION OF EXISTING RTUS :-

The S.E. o/o CE(T&C), MPPTCL had assured in the 17th OCC meeting that the information from Jabalpur, Satna, Gwalior and Sagar testing circles shall be obtained and compiled for all testing circles shall for working out the requirement for upgradation of the existing RTUs within 15 days i.e. by the end of November 2009. However, the required information is not made available to SLDC so far. As upgradation of existing RTUs is the necessity for reliable and efficient system operation, the real time data of new additions to the grid elements should be available in the SCADA system. The excessive delay of over 20 months in gathering information from testing circles is a serious matter and hence the T&C MPPTCL may give specific target dates to the testing circles to submit the information. The matter shall be discussed in the meeting and the T&C representative may come with full details of the same.

Action- T&C & Planning

7.5 SHIFTING OF OPGW IN PROPOSED DIVERTED ROUTE FROM 220 KV JABALPUR TO 400 KV SUKHA S/S

In the last OCC meeting, the representatives from Planning, MPPTCL had informed that the price bids are opened and it is expected that the material would be received by February 2010. The progress in the matter alongwith schedule for installation may be furnished in the meeting.

ACTION-PLANNING MPPTCL.

ITEM NO. 8:

Any other issue with the permission of the chair:

ITEM No. 9 : DATE AND VENUE OF NEXT OCC MEETING ::

It is proposed to hold 19th meeting of Operation and Coordination Committee of MP on 20th March 2010 at SLDC, MPPTCL, Jabalpur.

FREQUENCY PARTICULARS

S. No.	Particulars	Nov-09		Dec-09	
1 INTEGRATED OVER AN-HOUR					
1.1	Maximum Frequency	50.36 Hz	Between 02.00 hrs & 03.00 Hrs on 23.11.09	50.39 Hz	Between 0300 Hrs & 0400 Hrs on 31.12.09
1.2	Minimum Frequency	49.34 Hz	Between 09.00 hrs & 10.00 Hrs on 03.11.09	49.38 Hz	Between 09.00 hrs & 10.00 Hrs on 13.12.09
1.3	Average Frequency	49.88 Hz		49.81 Hz	
2 INSTANTANEOUS FREQUENCY					
2.1	Maximum Frequency	50.58 Hz	AT 14.09 HRS ON 22.11.09	50.56 Hz	AT 03.23 HRS ON 13.12.09
2.2	Minimum Frequency	48.87 Hz	AT 13.40 HRS ON 28.11.09	48.83 Hz	AT 17.42 HRS ON 15.12.09

3 Percentage of time when frequency was :-

		Nov-09	Dec-09
3.1	Below 48.5 Hz	0.00	0
3.2	Between 48.50 Hz and 48.8 Hz	0.00	0
3.3	Between 48.80 Hz and 49.2 Hz	0.45	0.52
3.4	Between 49.20 Hz and 49.5 Hz	7.87	14.13
3.5	Between 49.50 Hz and 49.8 Hz	30.34	39.06
3.6	Between 49.80 Hz and 50.2 Hz	51.68	40.23
3.7	Between 50.20 Hz and 50.3 Hz	4.08	4.04
3.8	Between 50.30 Hz and 51.0 Hz	5.58	2.02
3.9	Above 51.0 Hz	0.00	0
4.1	No. of times frequency touched 48.80 Hz	0	0
4.2	No. of times frequency touched 48.60 Hz	0	0
4.3	No. of times frequency touched 51.0 Hz	0	0

Violation by Discoms at Frequency >= 49.20 Hz : November 2009

Date / TIME	FRQ	CENTRAL DISCOM			EAST DISCOM			WEST DISCOM		
		SCH	DRL	O/D	SCH	DRL	O/D	SCH	DRL	O/D
2:10:00	49.12	1499	1421	-78	1181	1182	0	1863	1935	72
2:10:15	49.18	1490	1422	-68	1174	1211	37	1851	1766	-85
2:11:15	49.2	1448	1344	-104	1141	1166	25	1799	1958	160
3:09:15	49.2	1480	1353	-127	1166	1398	232	1839	1855	16
3:09:45	49.13	1482	1503	20	1168	1133	-35	1842	1923	81
3:14:45	49.2	1426	1285	-141	1123	923	-201	1771	1918	147
6:22:15	49.14	1799	1590	-210	1418	1683	265	2236	1945	-290

Violation by Discoms at Frequency >= 49.20 Hz : December 2009

5:10:15	49.01	1597	1319	-278	1268	1139	-129	1832	1924	92
12:14:45	49.15	1507	1199	-308	1196	1223	27	1728	2143	415
13:09:15	49.14	1720	1327	-394	1366	1303	-63	1973	2212	238
14:09:30	49.11	1795	1307	-488	1426	1470	45	2059	2255	196
14:13:45	49.19	1515	1332	-183	1203	1071	-132	1738	1695	-44
15:17:15	49.1	1725	1498	-225	1370	1108	-260	1978	2023	47
15:17:45	49.17	1806	1577	-228	1434	1219	-215	2071	2067	-4
25:11:00	49.16	1624	1301	-323	1290	1341	51	1863	2016	153
29:07:45	49.19	1720	1600	-120	1366	1366	0	1973	1871	-102
29:08:45	49.13	1734	1560	-174	1377	1315	-62	1988	2051	62

Voltage Profile During the Month of November 2009

Date	Indore		Itarsi		Bina		Gwalior		Nagda	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	419	402	424	407	419	391	421	386	426	405
2	419	387	426	404	420	391	420	387	424	398
3	417	396	424	405	419	394	424	387	424	397
4	417	391	421	400	410	394	415	383	421	392
5	419	394	426	404	419	389	420	389	424	394
6	419	399	427	409	423	401	424	390	427	400
7	419	394	424	403	419	397	423	393	426	399
8	417	396	421	400	416	390	425	380	424	400
9	419	393	424	397	418	384	428	389	426	396
10	421	399	423	404	414	393	421	377	425	400
11	422	395	425	397	420	387	425	373	430	399
12	424	396	427	402	421	390	432	386	426	402
13	421	397	423	402	421	389	431	383	426	400
14	420	390	425	397	418	391	423	362	427	396
15	419	398	426	406	423	404	425	395	425	406
16	421	402	427	409	422	413	426	390	426	406
17	415	395	421	403	417	392	422	389	421	397
18	418	397	421	413	415	394	423	380	421	402
19	417	398	422	406	415	389	422	382	421	401
20	417	398	422	406	415	389	422	382	421	401
21	420	393	427	400	419	393	424	382	425	397
22	419	387	423	395	417	390	424	381	424	392
23	420	392	428	400	422	393	422	381	425	396
24	416	391	420	398	416	389	417	369	423	396
25	413	390	417	396	415	388	415	363	420	394
26	418	381	423	391	416	388	421	373	426	389
27	420	389	426	399	415	388	419	371	427	393
28	420	393	427	399	421	387	425	366	424	394
29	419	395	424	401	414	390	420	389	424	397
30	417	394	423	400	410	388	416	375	424	397
Max / Min	424	381	428	391	423	384	432	362	430	389

Voltage Profile During the Month of December 2009

Date	Indore		Itarsi		Bina		Gwalior		Nagda	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	419	396	423	404	415	393	418	378	424	400
2	419	398	423	406	413	391	414	366	426	402
3	417	394	423	402	415	390	416	380	423	397
4	418	401	424	408	414	393	418	381	425	403
5	419	402	424	406	414	398	419	378	426	405
6	420	400	423	407	415	402	422	398	425	403
7	417	397	421	404	415	394	420	394	424	399
8	421	397	424	402	412	393	418	371	427	403
9	420	397	421	402	413	388	417	374	424	399
10	418	400	421	407	415	400	418	381	424	404
11	419	397	424	399	412	384	418	384	425	402
12	418	399	424	403	416	397	413	371	424	401
13	418	399	421	402	407	394	412	378	423	401
14	419	397	423	400	410	393	412	375	426	401
15	419	400	422	401	409	394	414	382	425	405
16	424	402	428	404	416	397	414	374	428	406
17	421	400	427	404	411	397	413	373	426	403
18	424	399	428	405	415	392	414	370	427	398
19	423	399	428	405	414	397	414	380	426	404
20	418	402	424	406	419	397	415	370	424	402
21	417	396	420	403	410	393	409	367	423	398
22	417	392	420	402	401	393	406	371	425	400
23	416	395	419	400	409	388	406	364	424	400
24	416	392	418	397	407	386	407	364	424	400
25	417	395	420	400	411	388	406	364	426	401
26	419	396	423	399	412	394	408	371	427	404
27	418	395	425	403	416	391	417	372	427	401
28	416	395	420	402	407	392	408	377	423	401
29	419	394	424	400	416	382	410	369	414	395
30	418	395	422	400	411	389	426	403	426	403
31	416	393	423	399	413	387	406	371	424	403

ANNEXURE 2.4.2(iii).

LIST OF TRANSMISSION ELEMENTS SUBMITTED BY T&C ON WHICH df/dt RELAY ARE INSTALLED AND THE PRESENT SCENARIO

SN	Name of substation	Name of feeders/Xmers	Details of df/dt relay	Date of Commissioning	Setting	Remark
1	220 KV S/S JABALPUR	132 KV Damoh	MAKE-HBB	06.06.2002	B ELE. 49 Hz	The line is in Ring main
2	220 KV S/S JABALPUR	132 KV MANERI	TYPE-FCX 103B/1		DF/DT 0.2 Hz/Sec.	WORKING
3	220 KV S/S JABALPUR	132 KV SHRINAGAR	SL.NO. IB-3-34-0050			The line is in ring main with 220 KV Narsinghpur s/s
4	220 KV S/S NARSINGHPUR	160 MVA X'mer(132 KV incoming I & II)	ABB Type-FCX 103b, Sl. No. MO70236	01.08.07	TIMEDELAY 0.132 msec.	WORKING
5	220 KV S/S BINA	132 KV Ganj BASODA	ABB	21.11.06	49.9 Hz.	Working.
6	220 KV S/S BINA	132 KV SIRNOJ	ABB	21.11.06	49.9 Hz.	Working. However, shall be in ring main when 132 KV Sironj-Maksudanganj line is charged.
7	220 KV S/S SATNA	132 KV PANNA	ABB	20.09.06	49.9 Hz.	WORKING
8	132 KV S/S MAIHAR	132 KV AMARPATAN	ABB	24.08.07	49.9 Hz.	KEPT OUT OF CIRCUIT AS PER NEW PLAN.
9	220 KV S/S BIRSINGHPUR	132 KV UMARIYA	ABB	19.08.07	49.9 Hz.	KEPT OUT OF CIRCUIT AS PER NEW PLAN
10	220 KV S/S SILPARA	132 KV SIDHI	ABB	14.02.05	49.9 Hz., 0.4 Hz/Sec	In ring main. RELAY SHOULD BE SHIFTED AT 132 KV s/s Mauganj at 220 KV SIDHI S/S.
11	220 KV S/S SILPARA	132 KV MANGAWAN			49.9 Hz., 0.4 Hz/Sec	WORKING
12	132 KV LALGHATI	40 MVA X'mer Incomer No. 1	ABB/FCX 103b-13 No. 101-34-661	02.12.06	DF/DT Base Freq 49.9 Hz.	WORKING
13	132 KV LALGHATI	40 MVA X'mer Incomer No. 2			Rate of change 0.1 Hz/Sec.	WORKING
14	132 KV LALGHATI	40 MVA X'mer Incomer No. 3			Rate of change 0.1 Hz/Sec.	WORKING
15	132 KV S/S MEHGAON	132 KV MEHGAON	ABB	27.06.04	BASE FREQ,49.0 Rate of Change 04	mentioned as working. However, there is no such feeder.
16	132 KV S/S MEHGAON	132 KV BHIND	ABB		BASE FREQ,49.0 Rate of Change 04	WORKING
17	132 KV S/S MEHGAON	132 KV SEONDHA	ABB		BASE FREQ,49.0 Rate of Change 05	Working. However, this will come in ring main when 132 KV SEONDHA-LAHAR feeder is charged.

18	132 KV S/S MEHGAON	132 KV RON	ABB		BASE FREQ,49.0 Rate of Change 06	Working. However, this will come in ring main when 132 KV SEONDHA-LAHAR feeder is charged.
19	220 KV S/S GUNA	132 KV RAGHOGARH	ABB	25.09.06	49.9, 0.142/5, w.e.f. 01.07.09	The line is LILO at Bhonra. THIS WILL BE IN RING MAIN ON CHARGING OF 132 KV RAGHOGARH-RAJGARH LINE.
20	220 KV S/S GUNA	132 KV 40MVA X'mer-i,ii, iii	ABB	27.05.08	49.9, (0.2Hz/Sec), wef 01.07.09	WORKING IN RADIAL MODE.
21	132 KV S/S ARON		ABB	23.06.09		No details have been given for the feeder on which the relay is installed.
22	132 KV S/S BHONRA		ABB	23.06.09		No details have been given for the feeder on which the relay is installed.
23	132 KV S/S MAKSUDANGARG		ABB	24.06.09		No details have been given for the feeder on which the relay is installed.
24	220 KV S/S NIMRANI	132 KV Incoming	DF/DT RELAY	21.05.05	49.2Hz/Sec)	KEPT OUT OF SERVICE AS PER NEW PLAN.
25	220 KV SOUTH-ZONE S/S IN	132KV GHATABILLOD	DF/DT RELAY MAKE-ABB, SINGLE STAGE S.N. M-07-0247 TY-FCX103B/1	30.06.08		THIS COMES UNDER RING MAIN WITH DHAR 132 KV S/S.
26	220 KV S/S RAJGARH	132 KV INTERCONNECTER-I	ABB	07.01.06	BASE FREQ 49.9 Hz Rate 0.4 Hz/sec	WORKING
27	220 KV S/S RAJGARH	132 KV INTERCONNECTER-II	DOUBLE STAGE		BASE FREQ 49.9 Hz Rate 0.4 Hz/sec	WORKING
28	220 KV S/S RAJGARH	132 KV DHAR	S.N. M97/24/0442		BASE FREQ 49.9 Hz Rate 0.4 Hz/sec	THIS CKT. IS IN RING MAIN WITH 132 KV DHAR- SZ Indore, TAPPED AT GHATABILLOD.
29	132 KV S/S KUKSHI	132 KV I/C-I&II OF 40 MVA X'mer No. I&II, 132 KV Alirajpur feeder	ABB	30.06.08	BASE FREQ 49.9 Hz Rate 0.4 Hz/sec	WORKING.
30	220 KV S/S JULWANIYA	132 KV SENDHWA (PENSEMAL)	ABB		BASE FREQ-49.9 Hz, RATE-0.4 HZ/S	WORKING
31	220 KV S/S UJJAIN	132 KV TARANA	ABB	06.07.07	49.9 Hz	WORKING
32	220 KV S/S BARNAGAR	132 KV KANWAN	ABB	04.10.06	49.9 Hz	WORKING

33	220 KV S/S BARNAGAR	132 KV DEPALPUR	ABB			THE CKT. SHALL COME UNDER RING MAIN ON COMMISSINING OF 132 KV INDORE-II-DEJALPUR D/C.
34	220 KV S/S BARNAGAR	132 KV GOTAMPURA	ABB			WORKING
35	220 KV S/S DEWAS	132 KV CHAPDA	ABB		49.9 Hz, 0.2 Hz/Sec.	WORKING
36	220 KV S/S DEWAS	20+63MVA X'mer	ABB		0.1 Hz/Sec. 49.9 Hz.	WORKING
37	220 KV S/S RATLAM	132KV JAORA-I	ABB	3.11.06	49.9,0.1Hz/Sec), 01.07.09	BOTH ARE IN RING MAIN WITH 132 KV Daloda-Mandsaur-Malhargarh-Neemuch link.
38	221 KV S/S RATLAM	132KV JAORA-II	ABB	3.11.06	49.9,0.1Hz/Sec), 01.07.09	
39	222 KV S/S RATLAM	132KV SAILANA	ABB	3.11.06	49.9,0.1Hz/Sec), 01.07.09	THIS IS A RADIAL FEEDER.
40	400 KV S/S NAGDA	220 KV NEEMUCH CKT. I&II	ABB	23.09.06	49.9 Hz 0.1 Hz/sec	IS IN RING MAIN AS SUPPLY TO 132 KV NEEMUCH S/S WILL BE AVAILABLE FROM RATLAM AND GANDHISAGAR.

The list of feeders as reported by POWER SYSTEM Cell

1	220 KV s/s Jabalpur	132 KV Patan				No more a radial feeder as interconnected with Damoh s/s.
2	220 KV Shujalpur	132 KV Pachhore				Interconnected with 220 KV Rajgarh.
3	220 KV s/s Shivpuri	40 MVA Transformer				

Note : The feeders shown in bold face letters are not radial feeders and hence need review for df/dt relay plan.

HEALTHINESS OF SEQUENCE OF EVENT RECORDERS AND DISTURBANCE RECORDERS

SN	NAME OF POWER STATION/SUBSTATION	Name of Feeder	Details of SERs / DRs	Status	Time stamping whether provided GPS Synchronised	REMARK
1	ATPS					
2	SGTPS					
3	STPS					
4	BARGI HPS					
5	GANDHISAGAR HPS					
6	PENCH HPS					
7	BANSAGAR-I (TONS) HPS					
8	BANSAGAR-II (SILPARA) HPS					
9	BANSAGAR-III (DEVLOND) HPS					
10	BANSAGAR-IV (ZINNA) HPS					
11	RAJGHAT HPS					
12	MADHIKHEDA HPS					
13	BIRSINGHPUR HPS					
14	INDIRASAGAR HPS					
15	OMKARESHWAR HPS					
16	400 KV S/S BHOPAL					
17	400 KV S/S BINA					
18	400 KV S/S INDORE					
19	400 KV S/S NAGDA					

HEALTHINESS OF SEQUENCE OF EVENT RECORDERS AND DISTURBANCE RECORDERS

SN	NAME OF POWER STATION/SUBSTATION	Name of Feeder	Details of SERs / DRs	Status	Time stamping whether provided GPS Synchronised	REMARK
20	220 KV S/S RAJGARH					
21	220 KV S/S ITARSI					
22	220 KV S/S SATNA					
23	220 KV S/S GWALIOR					
24	220 KV S/S SEONI					
25	220 KV S/S SUKHA					
26	220 KV S/S NEPANAGAR					
27	220 KV PITHAMPUR					
28	220 KV NIMRANI					
29	220 KV BURWAHA					
30	220 KV JULWANIA					
31	220 KV BADOD					
32	220 KV PANDHURNA					
33	220 KV MALANPUR					
34	220 KV MEHGAON					
35	220 KV KATNI					
36	220 KV DAMOH					
37	220 KV SAGAR					
38	220 KV TIKAMGARH					

HEALTHINESS OF SEQUENCE OF EVENT RECORDERS AND DISTURBANCE RECORDERS

SN	NAME OF POWER STATION/SUBSTATION	Name of Feeder	Details of SERs / DRs	Status	Time stamping whether provided GPS Synchronised	REMARK
39	220 KV HOSHANGABAD					
40	220 KV BIRSINGHPUR					
41	220 KV REWA					
42	220 KV SIDHI					
43	132 KV WAIDHAN					
44	132 KV MORWA					
45	132 KV KOTMA					
46	132 KV BALAGHAT					
47	132 KV BANEGAON					
48	132 KV KARERA					
49	132 KV PICHHORE					
50	132 KV BINA					
51	132 KV GAROTH					
52	132 KV SUWASARA					
53	132 KV MANASA					
54	132 KV LAKHNADAUN					
55	132 KV SEONI					
56	132 KV JABALPUR					

Discoms wise Average Supply Hours

PARTICULARS	East Zone		Central Zone		West Zone		MP	
	Nov-09	Dec-09	Nov-09	Dec-09	Nov-09	Dec-09	Nov-09	Dec-09
Commissinary HQ	22:31	22:40	23:25	23:14	23:19	23:12	23:01	22:55
District HQ	21:41	20:11	22:31	21:09	21:44	20:32	21:57	20:32
Tehsil HQ	18:35	17:04	19:48	16:37	19:04	17:35	19:07	17:05
Rural -3Phase	11:41	8:32	12:58	10:29	9:00	7:00	11:20	8:43
Rural -1Phase	2:53	2:05	3:06	2:35	3:53	3:09	3:15	2:33
Total Rural	14:34	10:37	16:04	13:04	12:53	10:09	14:35	11:16

Anticipated Average Availability at MP Periphery: 2009-10

Figures in MW

Particulars	Jan-10					Feb-10					Mar-10				
	0 to 06	06 to 12	12 to 18	18 to 24	Energy in MU	0 to 06	06 to 12	12 to 18	18 to 24	Energy in MU	0 to 06	06 to 12	12 to 18	18 to 24	Energy in MU
Thermal (R-5)	1993	1993	1993	1993	1483	1975	1975	1975	1975	1327	1975	1975	1975	1975	1469
Hydel	30	0	10	420	86	0	0	10	330	57	0	0	10	310	60
CSS	1651	1651	1651	1651	1228	1567	1567	1567	1567	1053	1646	1646	1646	1646	1225
ISP	520	115	115	690	268	520	120	120	690	244	200	150	150	150	121
SSP	200	100	100	450	158	200	100	100	450	143	170	0	0	250	78
Omkareshwar	250	100	100	300	140	250	100	100	300	126	90	50	50	100	54
DVC	75	75	75	75	56	75	75	75	75	50	75	75	75	75	56
Total	4719	4034	4044	5579	3418	4587	3937	3947	5387	3000	4156	3896	3906	4506	3062
Avg Unres. Demand	6400	6300	5900	6900		5800	5700	5400	6400		5200	5000	4800	5800	

**Proposed Shut down of 400 KV Lines / ICTs
(16th JAN-2010 to 15th FEB-2010)**

Sr. No	NAME OF LINES / ICT's	CKT / ICT NO.	Outage Programme			REASON
			DATE	TIME		
				From	To	
1	400 KV SARNI - SEONI		18.01.2010	9.00	16.00	MAINTANANCE WORK
2	400 KV BIRSIGPUR-KATNI-DAMOH		19.01.2010	9.00	17.00	MAINTANANCE WORK
3	400 KV NAGDA - ISP		15.01.2010 & 16.01.2010	8.00	17.00	POST MOONSOON MAINTENANCE
4	400 KV INDORE- NAGDA		22.01.2010 & 23.01.2010	8.00	17.00	POST MOONSOON MAINTENANCE
5	400KV NAGDA - RAJGARH	I	29.01.2010 & 30.01.2010	8.00	17.00	POST MOONSOON MAINTENANCE
6	400KV NAGDA - RAJGARH	II	05.02.2010 & 06.02.2010	8.00	17.00	POST MOONSOON MAINTENANCE
7	400KV MAIN BUS	I	11.02.2010 & 12.02.2010	8.00	17.00	POST MOONSOON MAINTENANCE
220 KV LINES						
1	220 KV KOTA-BADOD		16.01.2010	11.00	18.00	MAINTANANCE WORK

Unitwise / Stationwise Generation in MU				
A. Thermal				
Stn. Name	UNIT No.	Capacity MW	Nov '09	Dec '09
AMARKANTAK	3	120	44.264	37.68
	4	120	0	0.00
	PH II	240	44.264	37.68
	PH III	210	121.463	111.47
	TOT	450	165.727	149.15
SATPURA	1	62.5	33.518	36.26
	2	62.5	34.997	35.60
	3	62.5	34.796	37.82
	4	62.5	26.28	31.46
	5	62.5	31.537	31.61
	PH I	312.5	161.128	172.75
	6	200	133.525	123.18
	7	210	114.24	128.44
	PH II	410	247.765	251.62
	8	210	116.095	98.45
	9	210	111.515	130.25
PH III	420	227.61	228.69	
TOT	1142.5	636.503	653.06	
SANJAY GANDHI	1	210	60.946	99.33
	2	210	94.31	93.04
	PH I	420	155.256	192.36
	3	210	125.06	134.19
	4	210	115.948	115.32
	PH II	420	241.008	249.51
	PH III	500	326.904	350.52
	TOT	1340	723.17	792.39
MPPGCL THERMAL		2932.5	1525.40	1594.61
AMARKANTAK POWER HOUSE-I RETIRED FROM SERVICE WEF 01.04.2009				
B. Hydel				
Station Name	Capacity MW	Nov '09	Dec '09	
GANDHISAGAR	115.0	13.36	34.07	
R.P.SAGAR	172.0	36.91	54.66	
J.SAGAR	99.0	25.81	39.66	
CHAMBAL	386.0	76.07	128.39	
M.P.CHAMBAL	193.0	38.03	64.19	
PENCH	160.0	35.02	9.71	
M.P.PENCH	107.0	23.35	6.48	
BARGI	90.0	6.96	10.33	
TONS	315.0	22.75	29.29	
BIRSINGHPUR	20.0	0.76	0.21	
B.SGR(DEOLONDH)	60.0	0.00	0.00	
B.SGR(SILPARA)	30.0	2.35	2.96	
RAJGHAT	45.0	13.00	27.13	
M.P.RAJGHAT	22.5	6.50	13.56	
B.SGR(JINHA)	20.0	0.79	1.21	
MADIKHEDA	60.0	3.89	1.15	
TOTAL HYDEL	1186.0	305.55	161.11	
M.P.P.GCL Hydel	915.0	105.38	159.54	
MPSEB HYDEL	917.5	105.39	136.68	
B. NHDC				
Indira Sagar Hydel Project	1000	147.42	245.86	
Omkareshwar Hydel Project	520	60.55	100.26	

MP SUPPLY EXCLUDING AUXILIARY CONS.
in Million Units

S.No.	Particulars	Nov-09	Dec-09
1	MPSEB Thermal Availability	1328.23	1390.81
2	MPSEB Hydel Availability	103.94	126.95
3	Indira Sagar	147.47	245.63
4	Omkareshwar	60.55	100.26
5	Schedule / Drawal From Central Sector	1208.50	1343.68
6	Schedule of DVC	29.26	27.35
7	Schedule og Rhand+Matatila	8.55	9.61
8	Sardar Sarovar	44.86	91.69
9	Additional Power Purchase	0.00	0.00
10	Sale of Power	0.00	0.00
11	Banking of Power	217.57	278.38
12	Energy Exchange	0.00	0.00
13	Unschedule Interchange	-76.31	-91.38
14	Excess Drawal From Chambal-Satpura	25.84	24.70
15	Excess Drawal From Rajghat	6.35	13.21
16	Other Imp / Exp	36.49	26.04
17	Total MPSEB Supply excl. Aux. Cons.	3141.30	3586.92
18	Average Supply per Day	104.71	115.71
19	Maximum Daily M.P. Supply	123.03	125.08
20	Minimum Daily M.P. Supply	80.46	90.83
21	Registered Demand : MW	5954	6005
22	Morning Peak : MW	5945	5604
23	Eveninig Peak : MW	5612	5894
24	Unrestricted Demand : MW	6821	7052

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- November 2009

FIGURES IN MW

Hrs.	FREQ.	Own Generation							Schedule from											Tot Avl.	Act. Dri	UI	Oth er Imp/Exp	DEMA ND MET	Load Shedding			REST. DEMAN D	UNRES T. DEMAN D
		THER. Incl Aux	THER. Excl Aux	HYD.	ISP	OSP	Injection from STOA	Total	CSS	DVC ER	SSP	SEZ	Banking	Sale	Pur	Exchange	STO A	Riha nd+ Mata	Total						SCH	UNSCH	TOTAL		
1:00	49.99	2079	1871	74	166	73	18	2202	1565	38	38	9	614	0	0	0	-18	11	2258	4460	2180	-78	0	4382	350	0	350	4383	4733
2:00	50.10	2065	1859	73	162	73	17	2183	1561	38	38	9	619	0	0	0	-17	11	2259	4442	2177	-82	0	4360	355	0	355	4346	4700
3:00	50.14	2062	1855	73	161	69	17	2176	1550	38	38	9	624	0	0	0	-17	11	2254	4430	2181	-73	0	4358	351	0	351	4337	4688
4:00	50.00	2080	1872	71	162	69	19	2193	1529	38	38	9	631	0	0	0	-19	11	2238	4431	2223	-15	0	4415	284	0	284	4416	4700
5:00	49.92	2084	1876	71	162	76	22	2207	1534	38	38	9	578	0	0	0	-22	11	2186	4394	2210	23	0	4417	293	0	293	4428	4722
6:00	49.81	2118	1906	85	154	80	23	2249	1587	38	38	9	546	0	0	0	-23	11	2207	4456	2196	-11	0	4445	331	0	331	4472	4803
7:00	49.85	2141	1927	79	162	80	27	2274	1619	38	38	9	233	0	0	0	-27	11	1922	4196	1804	-118	0	4078	544	0	544	4099	4643
8:00	49.91	2145	1930	76	162	87	32	2287	1629	38	38	9	197	0	0	0	-32	11	1890	4177	1690	-201	0	3977	637	0	637	3989	4627
9:00	49.74	2132	1919	69	175	90	39	2292	1636	38	38	9	195	0	0	0	-39	11	1889	4181	1718	-171	0	4010	664	0	664	4046	4710
10:00	49.73	2125	1913	67	183	96	40	2299	1630	38	38	9	81	0	0	0	-40	11	1767	4066	1658	-109	0	3957	690	0	690	3995	4685
11:00	49.85	2116	1904	96	195	97	40	2333	1608	39	42	9	87	0	0	0	-40	11	1756	4088	1787	32	0	4120	761	0	761	4141	4902
12:00	50.00	2121	1909	104	191	97	38	2338	1603	39	38	9	87	0	0	0	-38	11	1750	4088	1626	-124	0	3964	753	0	753	3964	4717
13:00	50.05	2113	1901	94	141	85	37	2259	1607	39	32	9	94	0	0	0	-37	11	1754	4013	1654	-101	0	3913	760	0	760	3905	4665
14:00	49.96	2108	1897	67	110	86	38	2198	1600	39	32	9	98	0	0	0	-38	11	1750	3948	1541	-210	0	3738	686	0	686	3744	4429
15:00	49.85	2094	1884	56	100	76	37	2153	1586	39	32	9	100	0	0	0	-37	11	1740	3893	1589	-151	0	3743	547	0	547	3764	4311
16:00	49.79	2076	1868	58	87	75	35	2123	1572	39	32	9	101	0	0	0	-35	11	1728	3851	1611	-117	0	3735	547	0	547	3764	4310
17:00	49.85	2084	1876	68	164	75	40	2223	1565	39	32	9	101	0	0	0	-40	11	1716	3939	1574	-142	0	3797	572	0	572	3819	4390
18:00	49.90	2113	1902	291	416	98	40	2746	1598	39	32	9	70	0	0	0	-40	11	1718	4464	1645	-74	0	4391	639	0	639	4405	5044
19:00	49.95	2158	1942	387	479	116	43	2966	1582	39	171	9	131	0	0	0	-43	11	1900	4866	1883	-17	0	4848	970	0	970	4855	5825
20:00	49.89	2172	1955	347	438	117	37	2894	1588	39	164	9	143	0	0	0	-37	11	1917	4811	1911	-6	0	4805	979	0	979	4820	5799
21:00	49.96	2167	1950	315	401	110	32	2807	1595	39	164	9	144	0	0	0	-32	11	1930	4737	1932	1	0	4738	947	0	947	4744	5691
22:00	49.99	2164	1947	178	309	98	29	2561	1599	39	38	9	170	0	0	0	-29	11	1837	4398	1843	6	0	4404	986	0	986	4405	5391
23:00	50.07	2146	1932	103	215	90	26	2367	1621	39	38	9	389	0	0	0	-26	11	2080	4446	1873	-207	0	4239	829	0	829	4229	5058
24:00	50.16	2105	1894	70	163	75	27	2229	1614	39	38	9	456	0	0	0	-27	11	2140	4369	1979	-161	0	4208	515	0	515	4185	4700
Avg.	49.94	2115	1904	124	211	87	31	2357	1591	38	52	9	270	0	0	0	-31	11	1930	4298	1853	-88	0	4210	625	0	625	4219	4844
00 TO 06 HRS.	49.99	2081	1873	75	161	73	19	2202	1554	38	38	9	602	0	0	0	-19	11	2234	4435	2194	-39	0	4396	327	0	327	4397	4724
06 TO 12 HRS.	49.85	2130	1917	82	178	91	36	2304	1621	38	39	9	147	0	0	0	-36	11	1829	4133	1714	-115	0	4018	675	0	675	4039	4714
12 TO 18 HRS.	49.90	2098	1888	106	170	82	38	2284	1588	39	32	9	94	0	0	0	-38	11	1734	4018	1602	-132	0	3886	625	0	625	3900	4525
06 TO 18 HRS.	49.87	2114	1902	94	174	87	37	2294	1604	38	35	9	120	0	0	0	-37	11	1782	4075	1658	-124	0	3952	650	0	650	3970	4619
18 TO 24 HRS.	50.01	2152	1937	233	334	101	32	2637	1600	39	102	9	239	0	0	0	-32	11	1967	4605	1903	-64	0	4541	871	0	871	4540	5411

Annexure- 4.3(ii)

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- December 2009

FIGURES IN MW

Hrs.	FREQ.	Own Generation							Schedule from											Tot Avl.	Act. Dri	UI	Oth er Imp/Exp	DEMAND MET	Load Shedding			REST. DEMAND	UNRES T. DEMAND
		Ther. Incl Aux	Ther. Excl Aux	HYD.	ISP	OSP	Injection from STOA	Total	CSS	DVC ER	SSP	SEZ	Banking	Sale	Pur	Exchange	STOA	Rihand+ Mata	Total						SCH	UNSCH	TOTAL		
1:00	49.99	2108	1909	45	68	75	17	2114	1690	35	37	10	771	0	0	0	-17	12	2538	4652	2781	242	0	4895	415	0	415	4896	5311
2:00	50.09	2106	1907	44	63	72	17	2103	1692	35	37	10	918	0	0	0	-17	12	2689	4791	2858	169	0	4960	398	0	398	4948	5346
3:00	50.13	2096	1898	53	60	70	17	2098	1690	35	37	10	918	0	0	0	-17	12	2687	4785	2920	233	0	5019	332	0	332	5000	5332
4:00	50.12	2101	1902	62	99	70	17	2150	1698	35	37	10	918	0	0	0	-17	12	2694	4844	2884	190	0	5034	327	0	327	5017	5344
5:00	50.03	2116	1916	115	257	86	17	2391	1705	35	70	10	828	0	0	0	-17	12	2644	5035	2705	61	0	5097	324	0	324	5092	5416
6:00	49.79	2126	1926	169	340	119	22	2575	1735	35	77	10	574	0	0	0	-22	12	2421	4996	2413	-8	0	4988	417	0	417	5019	5435
7:00	49.69	2125	1925	158	418	136	32	2669	1739	35	80	10	142	0	0	0	-32	12	1987	4655	1880	-106	0	4549	1066	0	1066	4592	5658
8:00	49.79	2136	1935	178	445	151	32	2741	1736	35	80	10	142	0	0	0	-32	12	1983	4724	1869	-115	0	4609	1233	0	1233	4639	5872
9:00	49.60	2136	1935	180	470	156	33	2774	1722	35	80	9	142	0	0	0	-33	12	1968	4741	1814	-154	0	4587	1342	0	1342	4643	5985
10:00	49.68	2146	1944	152	505	164	34	2799	1711	35	83	9	45	0	0	0	-34	12	1861	4661	1437	-425	0	4236	1525	0	1525	4280	5806
11:00	49.60	2137	1935	122	521	165	35	2779	1704	35	86	9	45	0	0	0	-35	12	1857	4636	1707	-150	0	4486	1468	0	1468	4542	6010
12:00	49.79	2154	1951	136	478	167	38	2770	1698	35	86	9	77	0	0	0	-38	12	1880	4651	1656	-225	0	4426	1508	0	1508	4455	5963
13:00	49.88	2145	1943	122	333	158	37	2593	1687	35	83	10	77	0	0	0	-37	12	1867	4460	1730	-137	0	4324	1567	0	1567	4340	5907
14:00	49.92	2149	1946	100	245	142	38	2470	1682	35	77	10	77	0	0	0	-38	12	1855	4326	1518	-337	0	3988	1576	0	1576	4000	5576
15:00	49.75	2147	1944	97	209	121	37	2409	1681	35	70	10	77	0	0	0	-37	12	1848	4257	1713	-136	0	4121	1377	0	1377	4156	5533
16:00	49.76	2138	1936	107	261	123	36	2463	1686	35	67	10	77	0	0	0	-36	12	1851	4314	1830	-21	0	4293	1211	0	1211	4327	5537
17:00	49.76	2134	1933	138	412	138	35	2656	1687	35	70	10	77	0	0	0	-35	12	1856	4512	1674	-183	0	4330	1092	0	1092	4363	5455
18:00	49.75	2148	1946	288	604	174	36	3048	1701	34	73	9	58	0	0	0	-36	12	1853	4900	1768	-85	0	4815	1175	0	1175	4850	6025
19:00	49.86	2175	1970	404	641	206	36	3256	1690	34	270	9	136	0	0	0	-36	12	2116	5372	2030	-86	0	5287	1185	0	1185	5306	6491
20:00	49.68	2169	1965	405	632	211	32	3245	1703	34	273	9	136	0	0	0	-32	12	2136	5381	1964	-172	0	5209	1225	0	1225	5254	6480
21:00	49.81	2169	1964	372	589	209	23	3158	1712	34	270	9	136	0	0	0	-23	12	2151	5309	1981	-170	0	5139	1164	0	1164	5165	6330
22:00	50.07	2158	1954	141	363	193	18	2670	1712	34	257	9	136	0	0	0	-18	12	2143	4813	2265	122	0	4935	1156	0	1156	4925	6082
23:00	50.05	2147	1945	61	140	125	17	2287	1704	34	185	10	727	0	0	0	-17	12	2655	4942	2260	-395	0	4547	1150	0	1150	4540	5691
24:00	50.11	2122	1922	43	63	81	17	2127	1670	34	79	10	752	0	0	0	-17	12	2539	4666	2366	-174	0	4492	898	0	898	4476	5374
Avg.	49.86	2137	1936	154	342	138	28	2598	1701	35	107	10	333	0	0	0	-28	12	2158	4768	2084	-86	0	4682	1047	0	1047	4701	5748
00 TO 06 HRS.	50.02	2109	1910	81	148	82	18	2238	1702	35	49	10	821	0	0	0	-18	12	2612	4851	2760	148	0	4999	369	0	369	4995	5364
06 TO 12 HRS.	49.69	2139	1937	155	473	156	34	2755	1718	35	83	9	99	0	0	0	-34	12	1923	4678	1727	-196	0	4482	1357	0	1357	4525	5882
12 TO 18 HRS.	49.81	2144	1941	142	344	142	37	2606	1687	35	73	10	74	0	0	0	-37	12	1855	4462	1705	-150	0	4312	1333	0	1333	4339	5672
06 TO 18 HRS.	49.75	2141	1939	148	408	149	35	2681	1703	35	78	10	86	0	0	0	-35	12	1889	4570	1716	-173	0	4397	1345	0	1345	4432	5777
18 TO 24 HRS.	49.93	2157	1953	238	405	171	24	2790	1698	34	222	9	337	0	0	0	-24	12	2290	5080	2144	-146	0	4935	1130	0	1130	4945	6074

Reservoir Level of Hydel Power Stations

Sr. No.	Name of Hydel Power Station	FRL	Last day of Nov'09	Last Day of Dec'09	MDDL
1	Gandhi Sagar	1312 ft	1270.09 ft	1264.65 ft	1250 ft
2	Pench	490 Mtr	483.03 Mtr	482.55 Mtr	464 Mtr
3	Bargi	422.76 Mtr	416.45 Mtr	416 Mtr	403.5 Mtr
4	Birsingpur	477.5 Mtr	476.83 Mtr	476.77 Mtr	471 Mtr
5	Bansagar	341.64 Mtr	329.95 Mtr	329.61 Mtr	323 Mtr
6	Rajghat	371 Mtr	370.05 Mtr	367.8 Mtr	361.5 Mtr
7	Indira Sagar	262.13 Mtr	258.85 Mtr	256.98 Mtr	243.23 Mtr
8	Omrakershwar	196.6 Mtr	188.4 Mtr	188.61 Mtr	193.3 Mtr
9	Sardar Sarovar	138.68 Mtr	120.09 Mtr	121.19 Mtr	110.64 Mtr

TENTATIVE UNITWISE GENERATION TARGETS IN MUs YEAR 2009-10 R- 06												
POWER STATION	ACTUAL										ANTICIPATED	
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
AMK #3	49	47	35	23	28	50	50	44	38	51	0	0
AMK #4	48	43	45	9	0	0	0	0	0	29	52	58
AMK PH II	96	90	80	33	28	50	50	44	38	80	52	58
AMK PH III	62	74	61	83	69	120	132	121	111	133	120	133
AMK COMP.	158	164	141	116	97	170	182	166	149	213	172	191
STP #1	28	28	2	22	33	31	34	34	36	33	30	33
STP #2	34	32	25	28	30	11	19	35	36	34	30	34
STP #3	33	33	26	14	21	31	38	35	38	33	30	33
STP #4	34	31	22	28	29	29	31	26	31	33	29	33
STP #5	33	32	18	29	29	32	36	32	32	33	29	33
STP PH I	161	156	93	121	141	134	158	161	173	166	150	166
STP #6	117	0	44	81	125	122	123	134	123	112	101	112
STP #7	106	107	70	92	94	27	124	114	128	117	106	117
STP PH II	223	107	114	173	219	149	247	248	252	229	207	229
STP #8	101	109	40	64	120	120	112	116	98	123	111	123
STP #9	105	110	62	15	132	121	129	112	130	123	111	123
STP PH III	206	219	102	79	252	241	241	228	229	247	223	247
STP COMP.	590	482	309	372	612	525	646	637	653	641	579	641
SGTPS#1	102	89	79	79	88	58	30	61	99	94	85	94
SGTPS#2	93	90	65	81	64	29	17	94	93	125	113	125
SGTPS PH I	194	179	144	160	152	86	47	155	192	219	198	219
SGTPS#3	122	101	81	5	142	85	113	125	134	126	114	126
SGTPS#4	120	108	100	112	116	12	83	116	115	126	114	126
SGTPS PH II	242	209	181	117	258	97	196	241	250	252	227	252
SGTPS EXT	313	258	277	281	18	223	329	327	351	316	286	316
SGTPS COMP.	749	646	602	558	428	406	572	723	792	786	710	786
TOTAL	1497	1292	1052	1046	1137	1102	1400	1525	1595	1641	1462	1619

TENTATIVE UNITWISE PUF IN % YEAR 2009-10

POWER STATION	ACTUAL										ANTICIPATED	
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
AMK #3	56.49	52.79	40.66	26.23	31.80	58.03	56.21	51.23	42.21	57.00	0.00	0.00
AMK #4	55.19	48.50	51.92	10.34	0.00	0.00	0.00	0.00	0.00	32.50	65.00	65.00
AMK PH II	55.84	50.65	46.29	18.28	15.90	29.01	28.11	25.62	21.10	44.75	32.50	32.50
AMK PH III	40.69	47.11	40.30	53.24	44.05	79.58	84.48	80.33	71.35	85.13	85.03	85.13
AMK COMP.	55.84	50.65	46.29	18.28	15.90	52.61	54.42	51.15	44.55	63.59	57.02	57.06
STP #1	61.94	60.93	4.51	46.98	70.51	68.17	73.42	74.48	77.98	72.00	72.00	72.00
STP #2	74.66	68.21	55.27	60.26	65.55	25.33	40.28	77.77	76.57	72.05	72.05	72.05
STP #3	72.24	70.91	57.60	29.46	44.43	68.97	81.81	77.32	81.33	72.00	72.00	72.00
STP #4	76.28	66.29	49.23	60.34	61.74	65.52	67.20	58.40	67.65	70.10	70.10	70.10
STP #5	72.29	68.82	40.26	63.19	61.42	70.54	76.44	70.08	67.98	70.00	70.00	70.00
STP PH I	71.48	67.03	41.38	52.05	60.73	59.70	67.83	71.61	74.30	71.23	71.23	71.23
STP #6	80.93	0.00	30.34	54.33	83.81	84.81	82.85	92.73	82.78	75.00	75.00	75.00
STP #7	70.30	68.49	46.31	58.70	60.38	18.04	79.48	75.56	82.21	75.00	75.00	75.00
STP PH II	75.48	35.08	38.52	56.57	71.81	50.61	81.12	83.93	82.49	75.00	75.00	75.00
STP #8	66.91	69.71	26.65	40.83	76.81	79.49	71.70	76.78	63.01	79.00	79.00	79.00
STP #9	69.58	70.64	40.73	9.42	84.37	80.05	82.71	73.75	83.36	79.00	79.00	79.00
STP PH III	68.25	70.17	33.69	25.13	80.59	79.77	77.20	75.27	73.19	79.00	79.00	79.00
STP COMP.	71.73	56.72	37.52	43.77	72.01	63.82	76.05	77.38	76.83	75.44	75.44	75.44
SGTPS#1	67.13	57.26	52.45	50.59	56.24	38.08	19.07	40.31	63.57	60.00	60.00	60.00
SGTPS#2	61.20	57.40	42.98	51.53	40.80	18.97	10.76	62.37	59.55	80.00	80.00	80.00
SGTPS PH I	64.16	57.33	47.71	51.06	48.52	28.52	14.91	51.34	61.56	70.00	70.00	70.00
SGTPS#3	80.67	64.79	53.67	3.30	91.15	55.94	72.56	82.71	85.89	80.50	80.50	80.50
SGTPS#4	79.30	69.07	66.04	71.42	74.09	8.24	53.10	76.69	73.81	80.50	80.50	80.50
SGTPS PH II	79.99	66.93	59.86	37.36	82.62	32.09	62.83	79.70	79.85	80.50	80.50	80.50
SGTPS PH III	86.99	69.23	76.90	75.62	4.80	61.94	88.41	90.81	94.23	84.98	84.98	84.98
SGTPS COMP.	77.64	64.78	62.41	55.93	42.90	42.11	57.36	74.96	79.48	78.88	78.88	78.88
TOTAL	73.24	60.15	50.54	47.51	52.73	52.18	64.19	72.25	73.09	75.19	74.18	74.19

PREPAREDNESS OF MPPGCL FOR IMPLEMENTATION OF BALANCING & SETTLEMENT CODE

1. One AE/EE may be authorized at T&C circle level for maintaining details of ABT meters installed under their jurisdiction and they should inform SE / EE ABT SLDC immediately regarding any change by his own. Names of Engineer to be conveyed to SLDC.
2. It is observed that polarity / CTR of some of the ABT meters are found changed without informing SLDC. Even some ABT meters replaced without knowledge of SLDC. In future, any change in ABT meter, equipments, polarity, CTR etc. should be done with consent of SLDC.
3. In future, installation of ABT meter should be ensured before charging of transformers / HT consumer feeder so that energy transferred through these interface points could be taken in State Energy Accounting.
4. ABT meters have not been installed at some of the interface points such as Barman, Jamli, 220 KV Nagda, Ingoria, Jetpura, Sanawad, Arnikalan etc. Arrangement may be made for immediate installation of ABT meters.
5. ABT meters have not been installed at external coal handling plant of STPS by MPPGCL resulting un account of Aux conspm.
6. ABT meters data of all the interface points is not being furnished to SLDC by their own, by the T&C, power stations and Discoms, every fortnightly.
7. It is observed that readings of some of Open Access Customers (OAC) are not being furnished regularly by Discoms. It may please be noted that non-availability of readings would have direct impact on financial aspects of Discoms.

\$r.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
RTU name BHOPAL 400 KV S/S				
OLD ISSUE 3		NEW ISSUE 2	ATTENDED 0	
1	400/220 KV TRANSFORMER 3	OLTC	N/C	5
2	400/220 KV TRANSFORMER 3	CB	FAULTY	CLOSE
3	BHOPAL 220 KV –SHUJALPUR I	CB	FAULTY	CLOSE
4	400/220 KV TRANSFORMER 2	CB	FAULTY	CLOSE
5	400 KV TIE BREKAR 3	CB	FAULTY	CLOSE
RTU name BHOPAL 220 KV S/S				
OLD ISSUE 9		NEW ISSUE 0	ATTENDED 6	
1	BHOPAL132 KV-CHAMBLE I	CB	FAULTY	CLOSE
2	BHOPAL132 KV- CHAMBLE II	CB	FAULTY	CLOSE
3	220 KV TRB	CB	FAULTY	OPEN
RTU name PIPARIA 132 KV S/S				
OLD ISSUE 1		NEW ISSUE 0	ATTENDED 0	
1	132/33 KV TRANSFORMER 1	OLTC	N/C	4
RTU name SARNI 220 KV S/S				
OLD ISSUE 2		NEW ISSUE	ATTENDED 0	
1	SARNI-SATPURA TPS 220 KV	CB	FAULTY	CLOSE
2	SARNI 220 KV TRB	CB	FAULTY	CLOSE
RTU name BAIRAGARH 220 KV S/S				
OLD ISSUE 5		NEW ISSUE 9	ATTENDED 0	
1	220 KV BUS 1	VOLTAGE	127	225
2	220 KV TRB	CB	FAULTY	OPEN
3	BAIRAGRAH 220KV-LALGHATI II	CB	FAULTY	CLOSE
4	220/132 KV TRANSFORMER 1	CB	FAULTY	CLOSE
5	132/33 XMER	OLRC	17	10
6	220 KV BUS	FREQUENCY	N/C	49.78
7	BAIRAGRAH 132 KV BHOPAL NEW	CB	NOT AVAILABLE	CLOSE
8	BAIRAGRAH 132 KV BHOPAL NEW	MW	NOT AVAILABLE	19
9	BAIRAGRAH 132 KV BHOPAL NEW	MVAR	NOT AVAILABLE	8
10	220/132 XMER (160MVA) NEW	CB	NOT AVAILABLE	CLOSE
11	220/132 XMER (160MVA) NEW	MW	NOT AVAILABLE	30
12	220/132 XMER (160MVA) NEW	MVAR	NOT AVAILABLE	10
13	132/33 XMER (20 MVA) NEW	CB	NOT AVAILABLE	CLOSE
14	132/33 XMER (20 MVA) NEW	MW	NOT AVAILABLE	6
15	132/33 XMER (20 MVA) NEW	MVAR	NOT AVAILABLE	5
RTU Name HANDIA 220 KV S/S				
OLD ISSUE 8		NEW ISSUE 2	ATTENDED 0	
1	HANDIA –ITARSI 220 KV	MW	0	20
2	HANDIA –ITARSI 220 KV	MVAR	0	10
3	HANDIA –BARWAHA 220 KV	MW	2	15
4	HANDIA –BARWAHA 220 KV	MVAR	0	10
5	HANDIA –ITARSI 220 KV	CB	FAULTY	CLOSE
6	HANDIA –BURWAHA 220 KV	CB	FAULTY	CLOSE
7	220 KV TRB	CB	FAULTY	CLOSE

8	MEHGAON 132 KV RON	CB	FAULTY	CLOSE
9	132 KV BUS TRANSFER	CB	FAULTY	OPEN
10	132 KV INTERCONNECTOR	CB	FAULTY	CLOSE

RTU Name MALANPUR 220 KV S/S

OLD ISSUE 3 NEW ISSUE 0 ATTENDED 0				
1	132/33 KV TRANSFORMER 4	CB	FAULTY	CLOSE
2	220 KV BUS COUPLER I	CB	FAULTY	CLOSE
3	220 KV BUS COUPLER II	CB	FAULTY	CLOSE

RTU Name MEHGAON 220 KV S/S

OLD ISSUE 8 NEW ISSUE 0 ATTENDED 0				
1	220 KV BUS TRANSFER	CB	FAULTY	OPEN
2	220/132 KV TRANSFERMER	CB	FAULTY	CLOSE
3	MEHGAON 22KV- MALANPUR	CB	FAULTY	CLOSE
4	MEHGAON 22KV- AURIYA	CB	FAULTY	CLOSE
5	220/132 KV TRANSFERMER (132 KVSIDE)	CB	FAULTY	CLOSE
6	MEHGAON 132 KV RON	CB	FAULTY	CLOSE
7	132 KV BUS TRANSFER	CB	FAULTY	OPEN
8	132 KV INTERCONNECTOR	CB	FAULTY	CLOSE

RTU name GWALIOR 220 KV S/S

OLD ISSUE 7 NEW ISSUE 0 ATTENDED 0				
1	132/33 KV TRANSFORMER 4	OLTC	N/C	9
2	132/33 KV TRANSFORMER 5	OLTC	N/C	9
3	GWALIOR 132 KV-BANMORE	CB	FAULTY	CLOSE
4	132 KV TRB	CB	FAULTY	OPEN
5	GWALIOR 132 KV-TRACTION I	CB	FAULTY	CLOSE
6	GWALIOR 132 KV-TRACTION II	CB	FAULTY	CLOSE
7	220/132 XMER I(132KV SIDE)	CB	FAULTY	CLOSE

RTU name GUNA 220 KV S/S

OLD ISSUE 5 NEW ISSUE 0 ATTENDED 0				
1	220/132 KV TRANSFORMER	OLTC	N/C	3
2	220 KV BUS 2	VOLTAGE	N/C	227
3	220 KV TRB	CB	FAULTY	OPEN
4	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
5	220/132 XMER NEW	MW	NOT AVAILABLE	30
6	220/132 XMER NEW	MVAR	NOT AVAILABLE	5

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
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RTU name Boregaon 132 KV S/S

OLD ISSUE 2 NEW ISSUE 0 ATTENDED 0				
1	132/33 KV TRANSFORMER	OLTC	N/C	5
2	132/33 KV TRANSFORMER	CB	FAULTY	CLOSE

RTU name Chindwada 132 KV S/S

OLD ISSUE 3 NEW ISSUE 0 ATTENDED 0				
1	132 KV TRB	CB	FAULTY	OPEN
2	132/33 KV TRANSFORMER 2	OLTC	17	5
3	132/33 KV TRANSFORMER 2	CB	FAULTY	CLOSE

RTU name Pandurna 220 KV S/S

OLD ISSUE 3 NEW ISSUE 0 ATTENDED 2				
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1	220/132 KV TRANSFORMER	OLTC	N/C	4
RTU name Narsingpur 220 KV S/S				
OLD ISSUE 9		NEW ISSUE 1	ATTENDED	0
1	220/132 KV TRANSFORMER 1	OLTC	N/C	7
2	220/132 KV TRANSFORMER 2	OLTC	N/C	5
3	132/33 KV TRANSFORMER 1	OLTC	N/C	6
4	NARSINGPUR220 KV-ITARSI 1 &2	MW	NOT AVAILABLE	
5	NARSINGPUR220 KV-ITARSI 1 &2	MVAR	NOT AVAILABLE	
6	NARSINGPUR220 KV-ITARSI 1& 2	CB	NOT AVAILABLE	
7	220/132 KV TRANSFORMER 2	MW	NOT AVAILABLE	
8	220/132 KV TRANSFORMER 2	MVAR	NOT AVAILABLE	
9	220/132 KV TRANSFORMER 2	CB	NOT AVAILABLE	
10	220 KV TRB	CB	FAULTY	OPEN
RTU name Jabalpur 220 KV S/S				
1	220/132 KV TRANSFORMER 1	CB	FAULTY	CLOSE
2	220/132 KV TRANSFORMER 2	CB	FAULTY	CLOSE
3	220 KV TRB	CB	FAULTY	OPEN
4	132 KV TRB	CB	FAULTY	OPEN
5	JABALPUR 132 KV- MADHOTAL	CB	FAULTY	CLOSE

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
RTU name Satna 220 KV S/S				
OLD ISSUE 8		NEW ISSUE 0	ATTENDED	1
1	220/132 KV TRANSFORMER 2	OLTC	N/C	7
2	132/33 KV TRANSFORMER 1	OLTC	N/C	7
3	132/33 KV TRANSFORMER 2	OLTC	N/C	7
4	SATNA 220KV-SATNA PGCIL 2	CB	OPEN	CLOSE
5	SATNA 132 KV-PANNA	CB	FAULTY	CLOSE
6	SATNA 132 KV INTERCONNECTOR 2	CB	FAULTY	CLOSE
7	SATNA TONS PH 200 KV I	CB	FAULTY	CLOSE
RTU name Satna 132 KV S/S				
OLD ISSUE 2		NEW ISSUE 0	ATTENDED	0
1	132/33 KV TRANSFORMER 1	OLTC	N/C	6
2	132 KV TRB	CB	FAULTY	OPEN
RTU name Morwa 132 KV S/S				
OLD ISSUE 3		NEW ISSUE 0	ATTENDED	0
1	MORWA 132KV-WAIDHAN	CB	FAULTY	CLOSE
2	132/33 KV TRANSFORMER 1	OLTC	N/C	7
3	132/33 KV TRANSFORMER 2	OLTC	N/C	7
Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
RTU name -Indore 400 KV S/S				
OLD ISSUE 3		NEW ISSUE 0	ATTENDED	0
1	INDORE -ISP 400 KV II	CB	OPEN	CLOSE
2	INDORE -UJJAIN 220 KV	CB	OPEN	CLOSE

3	INDORE –DEWAS 220 KV	CB	OPEN	CLOSE
RTU Name INDORE NZ 220 KV S/S				
OLD ISSUE 6		NEW ISSUE 6	ATTENDED 0	
1	220 KV BUS 2	VOLTAGE	0	227
2	160 MVA XMER 1	OLTC	6	8
3	40 MVA XMER	OLTC	4	5
4	220 KV TRB	CB	FAULTY	OPEN
5	220 KV BUS COUPLER	CB	FAULTY	OPEN
6	STN. XMER	CB	FAULTY	CLOSE
7	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
8	220/132 XMER NEW	MW	NOT AVAILABLE	48
9	220/132 XMER NEW	MVAR	NOT AVAILABLE	10
10	132/33 XMER NEW	CB	NOT AVAILABLE	CLOSE
11	132/33 XMER NEW	MW	NOT AVAILABLE	16
12	132/33 XMER NEW	MVAR	NOT AVAILABLE	5
RTU Name INDORE CHAMBLE132 KV S/S				
OLD ISSUE 5		NEW ISSUE 0	ATTENDED 0	
1	63 MVA XMER	OLTC	8	17
2	20 MVA XMER	OLTC	8	17
3	40 MVA XMER	OLTC	8	17
4	20 MVA XMER	CB	FAULTY	CLOSE
5	CHAMBLE132 KV-INDORE N.ZONE II	CB	FAULTY	CLOSE
RTU name -Indore S.ZONE 220 KV S/S				
OLD ISSUE 9		NEW ISSUE 1	ATTENDED 0	
1	160 MVA TRANSFORMER	OLTC	17	11
2	3X40 MVA TRANSFORMER I	OLTC	1	16
3	3X40 MVA TRANSFORMER II	OLTC	15	16
4	40 MVA TRANSFORMER I	OLTC	9#	11
5	40 MVA TRANSFORMER II	OLTC	17	4
6	160 MVA TRANSFORMER	CB	OPEN	CLOSE
7	IND S/Z TO CAT -1	CB	OPEN	CLOSE
8	IND S/Z TO CHAMBLE	CB	OPEN	CLOSE
9	3X40 MVA TRANSFORMER II(132KV SIDE)	CB	OPEN	CLOSE
10	IND S/Z TO UJJAIN	CB	FAULTY	CLOSE
RTU name Pitampur 220 KV S/S				
OLD ISSUE 7		NEW ISSUE 3	ATTENDED 0	
1	220 KV TRB	CB	FAULTY	OPEN
2	PITAMPUR 220 KV-RATLAM	CB	FAULTY	CLOSE
3	132/33 KV TRANSFORMER 2	OLTC	N/C	8
4	132/33 KV TRANSFORMER 3	OLTC	N/C	11
5	PITAMPUR 132 KV-HML	CB	FAULTY	OPEN
6	132 KV TRB	CB	FAULTY	OPEN
7	132 KV BUS COUPLE	CB	FAULTY	OPEN
8	132/33 KV TRANSFORMER 1	CB	OPEN	CLOSE
9	132/33 KV TRANSFORMER 2	CB	OPEN	CLOSE
10	132/33 KV TRANSFORMER 3	CB	OPEN	CLOSE
RTU name Burwaha 220 KV S/S				
OLD ISSUE 8		NEW ISSUE 1	ATTENDED 0	

1	160 MVA XMER	OLTC	17	3
2	3X40 MVA XMER	OLTC	17	3
3	63 MVA XMER	OLTC	17	4
4	220 KV BUS COUPLER	CB	FAULTY	OPEN
5	220 /132 KV TRANSFORMER 1	CB	FAULTY	CLOSE
6	220 /132 KV TRANSFORMER 2 (132 KV SIDE)	CB	FAULTY	CLOSE
7	220 /132 KV TRANSFORMER2 (132 KV SIDE)	CB	FAULTY	CLOSE
8	BURWAHA 132KV-CHEGAON	CB	FAULTY	CLOSE
9	BURWAHA 220 KV NIMRANI	CB	FAULTY	CLOSE

RTU name Nepanagar 220 KV S/S

OLD ISSUE 5		NEW ISSUE 3	ATTENDED	0
1	160 MVA XMER	OLTC	1	9
2	3X40 MVA XMER	OLTC	17	15
3	63 MVA XMER	OLTC	17	5
4	220 KV TRB	CB	FAULTY	OPEN
5	NEPA –CHEGAON 132 KV	CB	FAULTY	CLOSE
6	132/33 XMER (20 MVA) NEW	CB	NOT AVAILABLE	CLOSE
7	132/33 XMER (20 MVA) NEW	MW	NOT AVAILABLE	15
8	132/33 XMER (20 MVA) NEW	MVAR	NOT AVAILABLE	5

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
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RTU name -Bina 400 KV S/S

OLD ISSUE 5		NEW ISSUE 0	ATTENDED	0
1	BINA400 KV-BINA PGCIL I	CB	FAULTY	CLOSE
2	BINA 220 KV-SHIVPURI 2	CB	OPEN	CLOSE
3	BINA 220 KV-GWALIOR 2	CB	OPEN	CLOSE
4	BINA 220 KV- GUNA 1	CB	FAULTY	CLOSE
5	400/220 KV XMER III	CB	FAULTY	CLOSE

RTU name -Bina 220 KV S/S

OLD ISSUE 3		NEW ISSUE 1	ATTENDED	0
1	BINA 132 KV-SAGAR	CB	FAULTY	CLOSE
2	BINA 132 KV-PICHORE	CB	FAULTY	CLOSE
3	220/132 KV TRANSFORMER 2 (132 KV SIDE)	CB	FAULTY	CLOSE
4	BINA 220 KV BHOPAL	CB	FAULTY	CLOSE

Sr.No	DESCRIPTION	status	telemetry value at SLDC	actual value at site
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RTU name -NAGDA 400 KV S/S

OLD ISSUE 7		NEW ISSUE 0	ATTENDED	0
1	400/220 KV ICT I	OLTC	17	9
2	400/220 KV ICT II	OLTC	N/C	7
3	400/220 KV ICT III	OLTC	N/C	7
4	NGD –BINA 400 I & II	CB	NOT AVAILABLE	
5	NGD –RAJGRAH 400 I & II	CB	NOT AVAILABLE	
6	NGD –DEHGAON 400 I & II	CB	NOT AVAILABLE	
7	400/220 KV XMER 3	CB	NOT AVAILABLE	

RTU name NAGDA 220 KV S/S

OLD ISSUE 8		NEW ISSUE 11	ATTENDED	
		0		

1	125 MVA TRANSFORMER	OLTC	9#	8
2	160 MVA TRANSFORMER	OLTC	17	12
3	40 MVA TRANSFORMER -II	OLTC	17	5
4	125 MVA TRANSFORMER (132KV)	CB	FAULTY	CLOSE
5	125 MVA TRANSFORMER	CB	OPEN	CLOSE
6	220 KV BUS COUPLER	CB	FAULTY	OPEN
7	220 KV BUS INTERCONNECTOR I & II	CB	FAULTY	CLOSE
8	160 MVA TRANSFORMER	CB	FAULTY	CLOSE
9	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
10	220/132 XMER NEW	MW	NOT AVAILABLE	40
11	220/132 XMER NEW	MVAR	NOT AVAILABLE	15
12	220/33 XMER NEW	CB	NOT AVAILABLE	CLOSE
13	220/33 XMER NEW	MW	NOT AVAILABLE	10
14	220/33 XMER NEW	MVAR	NOT AVAILABLE	2
15	NAGDA 132 KV GRASIM	CB	NOT AVAILABLE	CLOSE
16	NAGDA 132 KV GRASIM	MW	NOT AVAILABLE	5
17	NAGDA 132 KV GRASIM	MVAR	NOT AVAILABLE	0
18	220/132 XMER (132 SIDE)	CB	FAULTY	CLOSE
19	NAGDA132KV RATADIYA	CB	FAULTY	CLOSE
RTU name DEWAS 220 KV S/S				
OLD ISSUE 9 NEW ISSUE 6 ATTENDED 0				
1	BUS COUPLER 132 KV	CB	FAULTY	OPEN
2	DEWAS IC II	CB	FAULTY	OPEN
3	132 /33 KV TRANSFORMER 1	OLTC	N/C	8
4	132/33 KV TRANSFORMER 2	OLTC	N/C	7
5	220/132 KV TRANSFORMER 1	OLTC	N/C	7
6	220/132 KV TRANSFORMER 2	OLTC	N/C	7
7	DEWAS 220 KV -INDORE EAST	CB	FAULTY	CLOSE
8	DEWAS 220 KV -INDORE 400KV S/S	CB	FAULTY	CLOSE
9	DEWAS 132 KV -CHAPDA	CB	FAULTY	CLOSE
10	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
11	220/132 XMER NEW	MW	NOT AVAILABLE	55
12	220/132 XMER NEW	MVAR	NOT AVAILABLE	10
13	132/33 XMER NEW	CB	NOT AVAILABLE	CLOSE
14	132/33 XMER NEW	MW	NOT AVAILABLE	25
15	132/33 XMER NEW	MVAR	NOT AVAILABLE	5
RTU name UJJAIN 220 KV S/S				
OLD ISSUE 9 NEW ISSUE 0 ATTENDED 0				
1	3X40 MVA TRANSFORMER	OLTC	5	11
2	220/132 KV TRANSFORMER 4	OLTC	N/C	6
3	160 MVA TRANSFORMER	OLTC	N/C	9
4	UJJAIN220 KV -JETPURA II	CB	FAULTY	CLOSE
5	63 MVA TRANSFORMER	CB	FAULTY	CLOSE
6	3X40 MVA TRANSFORMER (132 KV SIDE)	CB	FAULTY	CLOSE
7	UJJAIN220 KV -NAGDA 2	CB	FAULTY	CLOSE
8	UJJAIN220 KV -BADOD 1	CB	FAULTY	CLOSE
9	UJJAIN 132 KV -GHOSLA	CB	FAULTY	CLOSE
RTU name SHUJALPUR 220 KV S/S				

OLD ISSUE 8		NEW ISSUE 3	ATTENDED	0
1	160 MVA TRANSFORMER -I	OLTC	2	10
2	20 MVA TRANSFORMER	OLTC	10	5
3	160 MVA TRANSFORMER II	CB	FAULTY	CLOSE
4	160 MVA TRANSFORMER II (132 KV SIDE)	CB	FAULTY	CLOSE
5	20 MVA TRANSFORMER	CB	OPEN	CLOSE
6	132 KV BUS COUPLE	CB	FAULTY	OPEN
7	2X33 MVAR CAPACITOR BANK	CB	FAULTY	CLOSE
8	SHUJALPUR 220 KV-BHOPAL 2	CB	FAULTY	CLOSE
9	220/132 XMER NEW	CB	NOT AVAILABLE	CLOSE
10	220/132 XMER NEW	MW	NOT AVAILABLE	30
11	220/132 XMER NEW	MVAR	NOT AVAILABLE	5
RTU name SHAJAPUR132 KV S/S				
OLD ISSUE 2		NEW ISSUE 2	ATTENDED	0
1	132/33 KV TRANSFORMER 1	OLTC	N/C	9
2	SHAJAPUR 132 KV-PANWADI	CB	FAULTY	OPEN
3	132 KV BUS	VOLTAGE	0	130
4	132 KV BUS COUPLE	CB	FAULTY	OPEN
RTU name RATLAM 220 KV S/S				
OLD ISSUE 4		NEW ISSUE 8	ATTENDED	0
1	132/33 KV TRANSFORMER 2	OLTC	N/C	7
2	RATLAM 132 KV-MEGHNAGAR	MW	26	36
3	220 KV TRB	CB	FAULTY	OPEN
4	RATLAM 132 KV-TRACTION 2	CB	FAULTY	CLOSE
5	RATLAM -BADNAGAR	CB	FAULTY	CLOSE
6	RATLAM - NAGDA 2 NEW	CB	NOT AVAILABLE	CLOSE
7	RATLAM - NAGDA 2 NEW	MW	NOT AVAILABLE	10
8	RATLAM - NAGDA 2 NEW	MVAR	NOT AVAILABLE	5
9	RATLAM - SAILANA NEW	CB	NOT AVAILABLE	CLOSE
10	RATLAM - SAILANA NEW	MW	NOT AVAILABLE	8
11	RATLAM - SAILANA NEW	MVAR	NOT AVAILABLE	5
12	RATLAM 132 KV-KHACHROD	CB	FAULTY	CLOSE
RTU name NEEMUCH 220 KV S/S				
OLD ISSUE 4		NEW ISSUE 2	ATTENDED	0
1	220/132 KV TRANSFORMER 1	OLTC	N/C	7
2	220/132 KV TRANSFORMER 2	OLTC	N/C	8
3	NEEMUCH 132 KV INTER CONNECTOR II	CB	FAULTY	CLOSE
4	220 KV MAIN BUS	VOLTAGE	97	230
5	NEEMUCH 132 KV UDEYPUR	CB	FAULTY	CLOSE
6	132 KV BUS COUPLER	CB	FAULTY	CLOSE

RTU NAME- Amarkanatak Thermal Power Station

Annexure 7.3(ii)

S.N	Description		Telemetry value at site	Telemetry value at SLDC
		OLD ISSUES- 24	NEW ISSUES- 0	ATTENDED- 0
1	ATPS 220 KV- Jabalpur	CB	CLOSE	FAULTY
2	ATPS 220/6.6 KV Stn Xmer II	CB	CLOSE	FAULTY
3	ATPS 220/132 KV Xmer 1(132kv)	CB	CLOSE	OPEN
4	ATPS 220/132KV Xmer 4 (132KV)	CB	CLOSE	OPEN

5	ATPS220KV-SIDHI	MW	89 MW	75 MW
6	ATPS220KV-SIDHI	MVAR	10 MVAR	29 MVAR
7	ATPS220KV-BRS220 III	MW	20 MW	29 MW
8	GENERATOR 5	CB	CLOSE	N/C
9	ATPS220KV-Rewa	CB	CLOSE	N/C
10	ATPS220KV-BRS220 III	CB	CLOSE	N/C
11	ATPS 220/6.6 KV Stn Xmer A	CB	CLOSE	N/C
12	ATPS 220/6.6 KV Stn Xmer B	CB	CLOSE	N/C
13	ATPS 220/6.6 KV Stn Xmer A	MW	10	75
14	ATPS 220/6.6 KV Stn Xmer A	MVAR	5	0
15	ATPS 220/6.6 KV Stn Xmer B	MW	10	75
16	ATPS 220/6.6 KV Stn Xmer B	MVAR	5	0
17	ATPS132/33 KV ICT 5	CB	CLOSE	FAULTY
18	ATPS132 KV 220/132 KV ICT -I	MW	30 MW	22 MW
19	ATPS 132 KV Bus -1	VOLTAGE	134 KV	127 KV
20	ATPS132 KV-Waidhan	CB	close	FAULTY
21	132/33 KV TRANSFORMER 4	OLTC	6	N/C
22	132/33 KV TRANSFORMER 5	OLTC	6	N/C
23	GENERATOR 5 GT	MW		N/C
24	GENERATOR 5 GT	MVAR		N/C

RTU NAME- Birsingpur Thermal Power Station

	OLD ISSUES- 11	NEW ISSUES 0	ATTENDED	0
1	BRS220 GEN 1	CB	CLOSE	FAULTY
2	BRS 220KV TRB	CB	OPEN	FAULTY
3	BRS220 KV IC 1	MW	117 MW	2 MW
4	BRS220 KV IC 1	MVAR	10 MVAR	0 MVar
5	BRS 400 GENERATOR#5	CB	CLOSE	FAULTY
6	BRS 400/220 KV ICT	CB	CLOSE	FAULTY
7	BRS 400 BUS COUPLER	CB	CLOSE	FAULTY
8	BRS 400 BUS CUM TIE BKR.	CB	OPEN	FAULTY
9	BRS 400 DAMOH (PG) LINE-1	CB	CLOSE	FAULTY
10	BRS 400 MAIN BUS 1 VOLTS	VOLTS		N/C
11	BRS 400 MAIN BUS 1 FREQ	HZ		N/C

RTU NAME- Satpura Thermal Power Station -I

	OLD ISSUES- 10	NEW ISSUES- 0	ATTENDED- 0	
1	STPS PH I Stn Xmer I I I	CB	CLOSE	FAULTY
2	STPS PH I BUSCOUPLER I	CB	OPEN	FAULTY
3	STPS PH I TRB I	CB	OPEN	FAULTY
4	STPS PH I TRB II	CB	OPEN	FAULTY
5	STPS PH 2 GENERATOR 6 (GT)	MVAR	20	N/C
6	STPS PH 2 GENERATOR 7 (GT)	MVAR	15	N/C
7	STPS PH 2 MAIN BUS 1	VOLTAGE	229	N/C
8	STPS PH 2 MAIN BUS 1	FREQ.	49.46	N/C
9	STPS PH 2 MAIN BUS 2	VOLTAGE	228	N/C
10	STPS PH 2 MAIN BUS 2	FREQ.	49.44	N/C

RTU NAME- Madhikheda hydel Power Station

	OLD ISSUES- 9	NEW ISSUES- 0	ATTENDED- 0	
1	GENERATOR 1	CB	OPEN	FAULTY
2	GENERATOR 2	CB	OPEN	FAULTY
3	GENERATOR 3	CB	OPEN	FAULTY
4	Madhikheda 132 Kv- Karera I	CB	OPEN	FAULTY
5	Madhikheda 132 Kv- Karera I I	CB	OPEN	N/C
6	Madhikheda 132 Kv- Karera I	MW	10	0

7	Madhikheda 132 Kv- Karera I	MVAR	5	0
8	Madhikheda 132 Kv- Karera II	MW	10	0
9	Madhikheda 132 Kv- Karera II	MVAR	5	0
RTU NAME- Tons hydel Power Station				
OLD ISSUES- 5 NEW ISSUES- 0 ATTENDED- 0				
1	STN. XMER	MW	2	0
2	STN. XMER	MVAR	10	0
3	GENERATOR 2	CB	OPEN	faulty
4	GENERATOR 3	CB	OPEN	faulty
5	BUSCOUPLER	CB	OPEN	faulty
RTU NAME- Bargi hydel Power Station				
OLD ISSUES- 3 NEW ISSUES- 0 ATTENDED- 0				
1	BARGI 132 KV –JABALPUR 2	CB	Close	faulty
2	GENERATOR 1	CB	OPEN	transit
3	STN. XMER	CB.	OPEN	Faulty
RTU NAME- Pench hydel Power Station				
OLD ISSUES- 1 NEW ISSUES- 0 ATTENDED- 0				
1	GENERATOR 2	CB	open	transit
RTU NAME- Gandhi sagar hydel Power Station				
OLD ISSUES- 7 NEW ISSUES- 2 ATTENDED- 4				
1	132 KV BUS COUPLER	CB	OPEN	CLOSE
2	GENERATOR I	CB	OPEN	CLOSE
3	GENERATOR V	CB	OPEN	FAULTY
4	132/33 KV XMER	OLTC	9	6
5	132/33 KV XMER	CB	CLOSE	FAULTY
RTU NAME- Rajghat hydel Power Station				
OLD ISSUES- 7 NEW ISSUES- 0 ATTENDED- 0				
1	RAJGHAT132 KV-LALITPUR	MW	N/C	5
2	RAJGHAT132 KV-LALITPUR	MVAR	N/C	5
3	RAJGHAT132 KV-LALITPUR	CB	FAULTY	OPEN
4	GENERATOR I	CB	FAULTY	OPEN
5	GENERATOR II	CB	FAULTY	OPEN
6	GENERATOR III	CB	FAULTY	OPEN
7	132 KV BUS	VOLTAGE	N/C	129