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No.07-05/SG-9B-II/497

Jabalpur, dated 19.02.2015

To

**As per distribution list**

Sub: Agenda of 44<sup>th</sup> meeting of Operation and Coordination Committee of MP.

The Agenda of 44<sup>th</sup> meeting of the Operation and Coordination Committee of MP **scheduled at 10.30 AM on 24<sup>th</sup> February 2015** at Conference Hall, Operation Block 3rd floor, GPH Campus, Polo Ground, MPPKVCL, Indore has been uploaded on the website of SLDC '[www.sldcmpindia.com](http://www.sldcmpindia.com)' and can be downloaded.

( K.K.Parbhakar)  
Memembr Secretary OCC  
SLDC, MPPTCL, Jabalpur

Encl : As above.

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**AGENDA FOR 44<sup>TH</sup> MEETING OF OPERATION & COORDINATION COMMITTEE OF MP  
TO BE HELD ON 24<sup>TH</sup> FEBRUARY 2015 AT 10.30 AM AT CONFERENCE HALL,  
OPERATION BLOCK 3<sup>RD</sup> FLOOR, GPH CAMPUS, POLOGROUND, MPPKVCL, INDORE**

**ITEM NO. 1 : CONFIRMATION OF MINUTES :** Minutes of 43<sup>RD</sup> meeting of Operation & coordination committee of MP held on 23<sup>RD</sup> December 2014 at State Load Despatch Centre, Jabalpur were forwarded to the committee members vide No. 07-05/SG-9B-II/348 dated 29.01.2015. No comments has been received.

**Committee may confirm the minutes.**

**ITEM NO. 2 : REVIEW OF SYSTEM OPERATION DURING THE MONTHS DECEMBER 2014 TO JANUARY 2015.**

**2.1 Frequency Particulars :** During Jan 2015 the system frequency was below 49.90 Hz for 17.46 % of time against 23.85 % of time during Dec 2014. The system frequency was within the IEGC range of 49.9-50.05 Hz for 53.73 % of the time during Jan 2015 against 48.29 % of time during Dec 2014. The average monthly frequency was 49.99 Hz during Jan 2015 whereas it was 49.98 Hz in the month of Dec 2014 The system frequency did not touch 49.20 Hz during the above period.

The detailed frequency particulars for the month of Dec 2014 and Jan 2015 are enclosed at **Annexure-2.1**. The brief details of frequency profile is given here under :

Month	Average frequency	minimum integrated frequency over an hour	maximum integrated frequency over an hour	Instantaneous minimum frequency	Instantaneous maximum frequency
Dec 2014	49.98 Hz	49.72 Hz	50.38 Hz	49.54 Hz	50.58 Hz
Jan 2015	49.99 Hz	49.69 Hz	50.38 Hz	49.55 Hz	50.56 Hz

**[Committee may like to note]**

**2.2 Operational Matters**

**2.2.1 Operational Discipline :** System operated in terms of frequency profile for the months Dec 2014 and Jan 2015 is as given below for discussion by the committee :

Month	% of time Frequency Below 49.9 Hz	% of time Frequency above 50.05 Hz	% of time frequency within the permissible range of 49.9-50.05 Hz	Average monthly frequency	No. of times frequency dipped below 49.2 Hz
Dec 2014	23.85 %	27.86 %	48.29 %	49.98 Hz	0
Jan 2015	17.46 %	28.81 %	53.73 %	49.99 Hz	0

**[Committee may like to note.]**

**2.3.1 Voltage Profile :** Date wise voltage profile at some of the important 400 KV and 220 KV substations during the months Dec 2014 and Jan 2015 is enclosed at **Annexure -2.3.1**.

During the months Dec 2014 and Jan 2015, the deviation of voltage from the accepted limit on either side was recorded at following important 400 KV s/s in MP Grid.

Sr No	Name of 400 KV Substation	Dec 2014				Jan 2015			
		Max. Voltage observed		Min. Voltage observed		Max. Voltage observed		Min. Voltage observed	
		Voltage	Date	Voltage	Date	Voltage	Date	Voltage	Date
1	Indore	424	04.12.14	---	---	424	01.01.15	---	---
2	Itarsi	419	20.12.14	---	---	419	02.01.15	---	---
3	Bina	425	31.12.14	---	---	424	24.01.15	---	---
4	Gwalior	413	13.12.14	---	---	418	14.01.15	---	---
5	Nagda	425	04.12.14	---	---	426	22.01.15	---	---
6	Satpura	424	28.12.14	---	---	426	01.01.15	---	---
7	Birsingpur	427	12.12.14	---	---	426	01.01.15	---	---
8	ISP	427	02.12.14	---	---	427	23.01.15	---	---

[Committee may please note & discuss]

**2.3.2 Status of Capacitor Banks in sub-transmission system :** The updated information of the status of capacitor banks in sub-transmission system as on 31<sup>st</sup> Jan 2015 as submitted by DISCOMs is detailed below :

DISCOM	Capacitor bank installed in good condition (No)			Capacitor Banks health but not in service due to control ckt problem			Capacitor bank installed but defective & are repairable (No)			Requirement of repair against each unit (No)	Requirement against non-repairable capacitor banks		Capacitor banks already covered under ADB T-V		Balance capacitor banks to be covered in other schemes	
	600 KVAR	1200 KVAR	1500 KVAR	600 KV AR	1200 KV AR	1500 KV AR	600 KV AR	1200 KVAR	1500 KV AR	No of 100 KVAR Units required	600 KVAR	1200 KVAR	600 KVAR	1200 KVAR	600 KVAR	1500 KVAR
EZ	372	141	0	Not submitted			51	25	0	94	0	0	0	0	32	10
CZ	5	687	460	0	0	0	0	0	0	0	0	0	0	588	0	304
WZ	680	505	162	21	36	8	64	63	24	520	15	37	--	--	0	163

[Action : DISCOMS]

**2.3.3 Status of Shunt Capacitor Banks installed at various EHV Transmission Substation :** The updated information of the status of Installed capacitor banks(in MVAR) in EHV transmission system as on 31<sup>st</sup> Jan 2015 as submitted by MPPTCL is given below :

Voltage Class	Capacitor bank installed as on 01.04.14(MVAR)	Capacity Added after Last OCC Meeting (Mvar)	Capacitor banks already covered under ADB T-V	Capacitor Bank Installed but defective & are not repairable ( No & MVAR)
220 KV	100 MVAR	0.00	100 MVAR	All in Service
132 KV	1188 MVAR	0.00	1188 MVAR	
33 KV	3511 MVAR	467.50	3978.50 MVAR	
<b>Total</b>	<b>4799 MVAR</b>	<b>467.50</b>	<b>5266.50 MVAR</b>	

[Action : MPPTCL ]

**2.4.1 Status of completion of ongoing Transmission Schemes being executed by MPPTCL :** The various ongoing Transmission Schemes completed during the current financial year 2014-2015 (upto Jan 2015) and plan for completion of various ongoing Transmission Schemes for the Year 2014-2015 is enclosed as **Annexure 2.4.1.**

[Action : Committee may like to note]

**2.4.2 U/F and df/dt Relay Operation**

(i) **U/F and df/dt Relay Operation:** Frequency did not touch 49.20 Hz or below during Dec 2014 and Jan 2015. There was no df/dt operation during the same period.

(ii) **Defective u/f, df/dt relays:** MPPTCL has informed that there are no defective u/f and df/dt relays. [Committee may like to note]

**2.5 Power Cuts / Load restrictions/Differential Load Shedding by DISCOMS & group allocation to 33 KV feeders :**

(i) Details of DISCOM wise Power supply given to various domestic categories during the period Dec 2014 and Jan 2015 is enclosed at **Annexure 2.5(i).**

[Committee may like to note]

(ii) **Group Allocation to Newly Commissioned existing EHV substations :-** As per information submitted by CE (PIng. & Design), the region wise list of 33 KV feeders emanating from various newly commissioned/existing EHV substations for which groups have not been allocated is given in **Annexure 2.5 (ii).** The DISCOM wise details of pending group allocation to 33 KV feeders is given below :

SN	DISCOM	Region	No of 33 KV feeders for which groups to be allocated
01	EAST	Jabalpur	04
02		Sagar	11
03		Rewa	01
04		<b>Total</b>	<b>16</b>
05	WEST	Indore	16
06		Ujjain	11
07		<b>Total</b>	<b>27</b>
08	CENTRAL	Bhopal	15
09		Gwalior	05
10		<b>Total</b>	<b>20</b>
<b>TOTAL</b>		<b>Grand Total</b>	<b>63</b>

Discoms are requested to furnish the details as per list enclosed at **annexure-2.5(ii) in the meeting.**

[ACTION : DISCOMs]

### ITEM NO. 3 : OPERATIONAL PLANNING

**3.1 Anticipated Availability, Demand and Shortage/surplus for the Year 2015-16 :** The month wise hourly anticipated availability, demand and shortage / surplus has been computed by SLDC for the year 2015-16 as per information furnished by DISCOM, MPPGCL, NHDC, IPPs, MPPMCL and WRPC for ISGS. The month wise details is enclosed at **Annexure-3.1**  
**[Committee May like to discuss]**

**3.2 Generating Units under planned / forced outage and proposed maintenance programme :** The details of planned outage / forced outage of MPPGCL thermal units are given below :-

Unit No.	Date of Outage	Reason
Amarkantak Unit no. 3	- 00.25/12.01.15	Fire caught in turbine floor
Amarkantak Unit no. 4	- 11.13/30.04.14	Turbine Vibration
Satpura unit no.7	- 22.00/06.12.14	AOH wef 12.12.14
Satpura unit 11	- 22.00/20.01.15	Generator inspection
SSTPS Unit no. 2	- 13.44/21.01.15	Y-Phase bushing caught fire
SGTPS unit no. 5	-	<b>AOH programme May be furnished in the meeting</b>
Pench Unit no.	- 04.01.15	STATOR COIL FAIL

MPPGCL is requested to intimate the expected date of above units in the meeting.

[ACTION : MPPGCL]

**3.3 Proposed shutdown programme of Transmission lines / Transformers :** The proposed shutdown of transmission elements for the period 20.02.2015 to 19.03.2015 submitted by MPPTCL are enclosed at **Annexure-3.3**

[Committee May like to discuss]

**3.4 Long Outages of transmission elements and protections :** The status submitted by MPPGCL / MPPTCL are given below :

**3.5**

SN	Line/Transformer/ Breaker/ Reactor etc under long outage	Outage date	Reason	Response from Utility
1	63MVAR Bus-I Reactor at Satpura TPS	24.05.2005	Damage of all three limbs along with reactor tank	Detailed order has been placed to M/s Alstom Mumbai on dtd. 05.12.14 for construction of the bay no. 17..

2	Station X'mer of STPS Unit-10	20.01.2015	Problem in B-Ph. Bushing	Bushing has been replaced and oil filtration work is in progress. The tentative date for charging of Stn. X'mer is 16.02.15.
3	Bus bar Differential protection scheme at Amarkantak TPS	Since installation	Not commissioned	To expedite the work, the bus bar protection scheme of ATPS, SGTPS and Tons HPS are clubbed and order has been placed to M/s GE Bangalore on dtd 27.11.14 by CE(MM). Work expected to be completed by April'15. However the same is also included in R&U scheme of WRPC.
4	220 KV Bus bar protection scheme at SGTPS Birsinghpur	Since commissioning of 220 KV switch yard	The scheme not available	
5	220 KV Bus bar differential protection at Tons HPS	Since commissioning	Not mentioned	
7	12.5 MVA 132/33 KV transformer at 132 KV S/s Bijawar	24.09.2014	Not mentioned	Transformer declared failed. Transformer replaced with another 12.5 MVA Transformer which has been commissioned on 06.01.15.
8	40 MVA 132/33 KV transformer at 132 KV sub station North Zone, Indore	09.10.14	Not mentioned	Transformer declared failed. Replaced with another 40 MVA Transformer which has been commissioned on 17.01.15.
9	20 MVA Transformer at Bargi HPS	08.09.2014	Bushing of 20 MVA X'mer has failed.	Bushing Failed. Transformer charged after bushing replacement on dtd. 26.12.14..

The utilities may submit the latest status.

**[Action : MPPGCL/MPPTCL]**

**ITEM NO. 4 : OPERATIONAL STATISTICS FOR THE MONTH OF Dec. 2014 and Jan 2015:**

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

**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** Hourly average schedule Vs Drawal of DISCOMs. **[Committee may like to note]**

**ITEM NO. 5 : SYSTEM DISTURBANCE IN MP DURING DEC 2014 AND JAN 2015 :** There was no major grid disturbance in MP during Dec 2014 and Jan 2015. However the Grid Disturbances and Grid Incidents in MP during these months are given in **Annexure 5.0.**

**[Committee may like to discuss]**

## ITEM NO. 6.0 : IMPORTANT OPERATIONAL ISSUES

**6.1 CERC order in petition No. RP/06/2014 in the matter of review petition filed by Tripura State Electricity Corporation Ltd (later joined by M.P.) on Deviation Settlement mechanism**– CERC order in petition No. RP/06/2014 in the matter of review petition filed by Tripura State Electricity Corporation Ltd. (later joined by MP) on Deviation Settlement Mechanism -

The Hon'ble CERC vide its order dated 20.01.15 in petition No. RP/06/2014 has granted relaxation in regulation 5 (1) (iii), 5 (1) (iv) and regulation 7 (3) of the DSM regulation in respect of the utilities having schedules of 400 MW or below w.e.f. 2<sup>nd</sup> February 2015. The salient features of the above order are :

The relaxation of Regulations 5(1) (iii), 5 (1) (iv) and Regulation 7 (3) of the DSM Regulation in respect of utilities having schedule of 400 MW or below with effect from 2<sup>nd</sup> February 2015 as under:-

- a. In case of utilities having schedule of 400 MW or below, Deviation Charges shall be receivable:
- (i) For under-drawal upto 48 MW in relaxation of Regulation 5 (1) (iii) of the DSM Regulations, and
  - (ii) For over-injection upto 48 MW in relaxation of Regulation 5 (1) (iv) of the DSM Regulations.
- (b) Proviso below Table II under clause (3) of Regulation 7 of DSM Regulations is relaxed to provide as under:-

“Provided further that when the schedule is less than or equal to 400 MW, the additional charges for deviation shall be based on percentage of deviation worked out with reference to schedule of 400 MW as per Table-I (A) and Table-II (A) above.”

**[Committee May like to note]**

**6.2 Deviation Settlement Mechanism and related matters (First Amendment) Regulations, 2014 dated 18<sup>th</sup> December, 2014–**

As per the amendment the over drawal/ under injection at Frequency less than 49.7 Hz is Not Permissible. Likewise Under drawal/ over injection at frequency more than 50.1 Hz is not permissible.

Summary of DSM regulation from the Grid operation prospective is tabulated below:

Frequency Range	Over Drawl	Under Drawl	Under Injection	Over injection
$F < 49.7$	X Not Allowed	Yes	X Not Allowed	Yes
$49.7 \leq F < 49.9$	Within Limit	Within Limit	Within Limit	Within Limit
$49.7 \leq F < 50.05$	Within Limit	Within Limit	Within Limit	Within Limit
$50.05 \leq F < 50.1$	Within Limit	Within Limit	Within Limit	Within Limit
$50.1 \leq F$	Yes	X Not Allowed	Yes	X Not Allowed

Deviation Limit: 12% of Schedule or 150 MW whichever is less. (Relaxation upto 48 MW for Schedule  $\leq$  400 MW)



### 6.3 Grid Incidence (GI-2) at 400 / 220 kV Pithampur S/s on 31.12.2014-

At 10.03 Hrs dated 31.12.14 B-Ph. Disc insulator at Loc. No.6 of 400 kV Pithampur – Shingaji II ckt. failed resulting in B Ph. to E/F leading to tripping of the circuits from both ends. Simultaneously 400 kV Pithampur-Shingaji I ckt. also tripped from both ends. Analysis of the tripping carried out by WRLDC and suggested following review/ remedial measures –

- 1) First and foremost is the setting of distance protection setting of relay at Shingaji end need to be reviewed. The fault which has to be sensed in Zone 2 at Shingaji was sensed in zone 3 is not correct. MPPGCL need to kindly look into setting of the relay and revise accordingly.
- 2) PLCC testing of the line need to be carried out as for zone 1 carrier aided protection to be successful it is very much required. MPPGCL and MPPTCL may accordingly test as soon as possible and rectify.
- 3) Relay and DR digital signal status is not correct at both end. May kindly include the important signal, which were not observed (Zone 1, 2, 3, 4 trigger etc.) and exclude the disabled signal in the DR for better view and clear indication that which protection has caused the tripping in first place. MPPGCL and MPPTCL may correct the same.
- 4) The DR at Pithampur for line 1 as well as line 2 is not set correctly. The fundamental frequency seems to be set as 25 Hz instead of 50 Hz resulting in wrong timing. MPPTCL is requested to check and correct the same.
- 5) Further, the DR of Pithampur is not time synchronized. MPPTCL may take immediate action in this regard.
- 6) MP SLDC may kindly check the SOE for 400 kV Pithampur-Shingaji 1 circuit at Shingaji end. In addition, MPPTCL is requested to kindly send DR for O/V operation at Pithampur end.

MPPGCL and MPPTCL are requested to kindly send the details on the action taken in this regard to WRLDC/WRPC & intimated to SLDC. **[ACTION : MPPGCL/MPPTCL]**

**6.4 Status of completion of ongoing Schemes for Commissioning of reactors :-** In various OCC meeting of Western region and MP the status of ongoing schemes of commissioning of reactors was discussed. In 468<sup>th</sup> OCC meeting, WRPC requested to submit the latest status of the expected date of commissioning of following reactors :-

S.No.	400 Kv Sub/stn.	Size MVAR	Implemented Agency	Expected Commissioning Date
1	Satpura	50 MVAR	MPPGCL	Mar-15
2	Nagda	125 MVAR	MPPTCL	March – 2015
3	Bhopal	80 MVAR	MPPTCL	Feb – 2015
4	ISP	125 MVAR	NHDC	Dec-15
5	*Nagda Line reactor	50 MVAR	MPPTCL	Mar-15
6	SSTPS	125 MVAR	MPPGCL	Not available
7	Satpura	50 MVAR	MPPGCL	Mar-15

*\*50 MVAR existing bus reactor to be shifted to Nagda-ISP line as line reactor after commissioning of 125 MVAR reactor at Nagda.*

All the utilities are requested to submit the latest status of expected date of commissioning in the meeting.

[ ACTION : MPPGCL/MPPTCL/NHDC]

**6.5 Lack of Bus bar protection for 220 kV Bus of Birsinghpur Thermal power station causing complete Blackout of 400 kV Birsinghpur Thermal station :** In 467<sup>th</sup> OCC meeting of WRPC, MPPGCL has informed that equipment order has been placed on 27<sup>th</sup> November to GE and expected date of commissioning is by June'15. MPPGCL is requested to confirm the same in the meeting. MPPTCL, NHDC and Jaypee Bina are also requested to submit the latest status of bus-bar protection schemes in their substation / power station. It is also requested that if Bus bar protection is not available, the expected date of commissioning of the same also been intimated in the meeting.

[ ACTION : MPPGCL/MPPTCL/NHDC/Jaypee Bina]

**6.6 IMPLEMENTATION OF AUTOMATIC DEMAND MANAGEMENT SYSTEM:** Clause 5.4.2(d) of IEGC mandates implementation of Automatic Demand Management Schemes before 01.01.2011 to reduce over drawal. As per the regulation, SLDC through respective Distribution Licensees have formulated and implemented State of the Art and Demand Management Scheme for ADMS.

The ADMS shall be implemented through TRANSCO SCADA for which action has been initiated by MPPTCL. The Technical and Commercial offers have been received by MPPTCL. The offer for implementation of ADMS system through MPPTCL SCADA system was obtained from MPPTCL SCADA vendor i.e. M/s Dongfeng Electronics Ltd. However, as suggested in BOD meeting tender enquiry has been issued by MPPTCL for implementation of ADMS system through Transco SCADA. Accordingly, tender enquiry was issued with date of submission of offers as 30-01-2015. However, on request from some prospective bidders, the date of submission of offers is extended till 16.02.2015. Now due to reissue of tender enquiry, the schedule of pilot project shall be delayed. However, the schedule of complete project implementation submitted earlier shall remain unchanged (last quarter of current calendar year).

MPPTCL is requested to inform the latest status in the meeting.

[Action : MPPTCL/DISCOMs]

**6.7 Reliability of DG set at Black start Hydel Power stations :-** During the workshop on Western Region Recovery Procedure, the agreed on the need for having reliable auxiliary supply for success of black start. Accordingly the matter was discussed in 467<sup>th</sup> OCC meeting wherein it was decided that the station having black start facility shall have at-least two DG sets for reliability and redundancy of DG set. The ISP and OSP has already two DG sets available. All the hydel stations of MPPGCL have only one DG set, hence it is requested that MPPGCL may submit the plan for availability of 2<sup>nd</sup> DG set in all the HPS in the meeting.

[ACTION : MPPGCL]

**6.8 A contingency plan for handling system crisis during large demand crash:** Sudden crash in system demand causes persistent high frequency, high voltage and critical loading on Inter regional tie-lines which endangers the grid security. The drawal of the constituent should be within the threshold limits specified by IEGC & Deviation Settlement Mechanism to overcome such type of crisis. A contingency plan for handling such crisis needs to be prepared in advance and executed in real time

without delay. WRLDC vide letter no. WRLDC/SO/08 dtd. 01-Jan-15 has requested that apart from the general strategies of active / reactive power management, the plan should specifically mention the thermal unit(s) that are to be closed down and backing down of generation even with oil support if required.

[ Committee may like to discuss]

**6.9 Poor condition of 48 Volt Battery set and Battery Charger at Power Stations :** The condition of 48 Volt Battery bank and Battery Charger at Rajghat HPS and SGTPS Birsinghpur is very poor which are unable to keep important services of telemetry and voice communication healthy in case of interruption in AC supply. This issue was brought to the notice of concerned authorities several times for ensuring the healthiness of Battery Bank and 48 Volt Battery Charger at these stations. The continuity of telemetered data as well as voice communication is vital for safe, secure & reliable operation of the state grid, as during recent blackout at SGTPS the total communication & telemetry was interrupted.

MPPGCL, MPPTCL and IPPs are requested to ensure 48 V battery set in healthy condition all the times so that in case of any grid incidents data and voice communication is not interrupted. MPPGCL may submit the status of replacement of Battery & battery charger alongwith timeline.

[Action : MPPGCL/NHDC/IPP's]

**6.10 CONSTITUTION OF TEAMS FOR CARRYING OUT PROTECTION AUDIT OF ADDITIONAL SUB STATIONS HAVING VOLATGE LEVEL 220 KV AND ABOVE :-** It was decided in the 1<sup>st</sup> meeting of Grid Security Committee of CEA that Regional Power committees are required to identify substation having voltage levels of 220 KV and above where protection audit is required to be carried out ( other than already audited substations) and submitted to Grid study committee of CEA. Accordingly list of 34 Nos 220 KV substation of MPPTCL and one no Power station (Singhaji TPS) has been submitted to WRPC where protection audit shall be conducted by the teams constituted by SLDC from various intra state entities.

As discussed & decided in the 43<sup>rd</sup> Operation & Coordination Committee Meeting of MP, MPPGCL, MPPTCL, NHDC and M/s Jaypee Bina have furnished the names of engineers for carrying out the protection audit of designated substation/power station. Now it is planned to carry out the protection audit for remaining 34 substation and one power station in the month of March-15 & April 15 by the teams constituted by the SLDC from the nomination received from the entities. The details of teams and name of substations assigned to each team in which protection audit to be carried out has already been intimated to concerned entities vide this office letter No. 472 dated 13.02.2015.

[Action: MPPGCL/MPPTCL/NHDC/JP Bina]

**6.11 SENDING DISTURBANCE RECORDER(DR)/SEQUENTIAL EVENT LOGGER (SERS) OUTPUT TO WRLDC:** With Reference to section 5.9.6(c) of the IEGC and section 9.5.3 the Operating Procedure of WR-2013, the DR/SER details for all grid incidents/disturbances need to be sent by the concerned agency to RLDC, within 24 hrs of the incident. It is observed that in many grid incidents/disturbances DR's and SERS outputs are not being submitted to SLDC even with the final report submitted by the entities to SLDC. The matter has been discussed in various OCC meetings but despite assurance all the state entities do not follow the time line. All the entities are requested to submit the DRs and SERS output within 24 hrs of the incident to SLDC along with the detailed tripping report in the prescribed format so that the compiled information could be furnished to RLDC in time.

It is also observed that whenever DRs/SERs are submitted in pdf formats, the DR/SER logs may be submitted through e-mail in .cfg and .pdf format , so that further study could be possible.

**[Action : MPPTCL/MPPGCL/NHDC/IPPs]**

**6.12 Healthiness status of SERs/DRs of equipment in the system :-** The status of healthiness of SER/DRs equipment installed in the MP grid are to be submitted to WRPC before 3<sup>rd</sup> of each month for OCC meeting of Western Region. Most of the T&C circles and Jaypee Bina are not furnishing the monthly report of healthiness of SER/DRs to the SLDC for onward transmission to WRPC. Only 400 KV circle Bhopal is regularly submitting the desired information to SLDC and T&C circle Gwalior has started furnishing the report from last month. MPPTCL and M/s JP Bina are requested to ensure regular monthly submission of healthiness status of SERs/ DRs of equipment installed their jurisdiction to SLDC on or before 3<sup>rd</sup> of each month.

**[Action : MPPTCL/ JP Bina]**

**6.13 Provision of synchronization facility at EHV sub-stations of MPPTCL :-** The Section 12.3.2 of Madhya Pradesh Electricity Grid Code (Revision-I), 2005 is reproduced below:

*12.3.2 In case of partial blackout in the system/state, priority is to be given for early restoration of power station units which are tripped. Startup power for the power station shall be extended through shortest possible line and within shortest possible time from adjoining sub-stations/power station where the supply is available. Synchronising facility at all power stations and 400/220kV sub-station shall be available.*

It is very much clear from the above that synchronization facility should be available at all the Power Stations, 400 KV Sub-stations and 220 KV Sub-stations. In case of total blackout or partial blackout, startup supply is to be extended to Thermal Generating Stations and other essential loads from nearby Hydel Generating Stations through possible shortest route. In emergency situations, SLDC may approach to a nearby Captive Power Plant to get the startup power. Synchronisation facility is also required for synchronisation of system islands and system split during system disturbance/occurrences.

While performing black start mock drill of Hydel Generating Stations as mandated in IEGC, it has been found that synchronisation facility is not available at the adjoining EHV sub-stations. This black start mock drill of each Hydel Power Station is to be repeated every six months. SLDC has already sent a UO note to Chief Engineer(Plg&Desg) and Chief Engineer(T&C), MPPTCL requesting that synchronisation facility may please be provided at all the 400 KV sub-stations 220 KV sub-stations and 132 KV sub-stations in the path of black start of Hydel Power Stations.

**[Action : MPPTCL]**

## **ITEM NO. 7 : BLACK-START MOCK DRILL OF HYDEL POWER STATIONS :**

**7.1 TRIAL RUN OF DG SETS :** As per IEGC regulation 5.8(b), Diesel Generator sets for black start would be tested on weekly basis and test report shall be sent to RLDC on quarterly basis.

The matter is being discussed in OCC meeting since last three years. The same was discussed in 41<sup>st</sup>, 42<sup>nd</sup> & 43<sup>rd</sup> OCC meeting. SLDC intimated that the hydel power station are submitting the trial run report of DG set to CE(O&M), Hydel with a copy endorsed to SLDC. As already intimated the information may please be submitted directly to WRPC and WRLDC under endorsement to this office. MPPGCL and NHDC may ensure the same. **[Action: MPPGCL/NHDC]**

**7.2 Black Start mock drill of Tons, Madikeda, Rajghat and Birsingpur HPS:** SLDC has repeatedly requested MPPGCL for confirming the dates for conducting black start mock drill of these power station. Procedure has been modified for black start mock drill for Madhikheda and Rajghat HPS in accordance with the single bus system and non-availability of synchronisation facility at adjoining substation which are radially fed by these HPS. The Chief Engineer (O&M: Hydel), MPPGCL has requested WRPC vide letter no.07-10/1001(E)/859 dtd.09.10.2014 to exempt Madhikheda and Rajghat HPS from the black start mock drill on the ground that governors are not functioning in auto mode, single bus system and small capacity of the machine. It is to clarify that decision for conducting mock drill at these power station is under the purview of SLDC, which is to decide the mock drills as per IEGC provision.

Further as per directives of GoMP, Energy Department conveyed vide letter no. 6931 dtd. 15.10.2014 MPPGCL is required to take immediate action to put the governors of Tons, Madikeda, Rajghat and Birsingpur HPS in auto mode so that the black start mock drill of these HPS could be conducted. Therefore MPPGCL may submit the time schedule of rectifying the problems of governors in these units. **[Action MPPGCL]**

#### **ITEM NO 8: SOME IMPORTANT MATTERS REQUIRED IMMEDIATE ATTENTION:**

**8.1 Quarterly Review of Crisis Management Plan:** The NHDC & SLDC is submitting the quarterly crisis management report to Chief Engineer (GM), CEA New Delhi under intimation to SLDC Jabalpur and WRPC Mumbai. However despite continuous persuasion by SLDC state utilities i.e MPPTCL, MPPGCL and IPPs are not submitting the same to CEA All the other entities are requested to submit the CMP report in prescribed format for the Third quarter for the year 2014-15 ( Oct to Dec 2014) to CEA under intimation to this office. **[ACTION: MPPTCL, MPPGCL, NHDC& IPPs]**

**8.2 Status of Physical & Cyber Security in Power Sector regarding:** Status of physical & cyber security in Power Sector for the Second quarter (Oct to Dec 2014) have not been received from any of the state utilities. All the entities should furnish the Status of physical & cyber security in Power Sector for Third quarter (Oct to Dec 2014) directly to the Chief Engineer (GM), CEA New Delhi under intimation to SLDC Jabalpur and WRPC Mumbai. **[ACTION: MPPGCL, MPPTCL, NHDC & IPPs]**

#### **ITEM NO. 9: AVAILABILITY BASED TARIFF (ABT) RELATED ISSUES:**

##### **9.1 Non receipt of complete ABT meter data through AMR system installed at SLDC:**

The complete data of ABT meters installed at interface points are not being downloaded through AMR system. In the month of January 2015, complete data of 534 meters, partial data of 30 meters (as per T&C list) was received and meter data of 60 Nos. interface points was not received through AMR system. The incomplete data received is due to compatibility issue, connectivity / alignment problem of optical cable, network problem, modem not installed or meter defective. Further, the site offices are not forwarding the meter / CT / PT replacement details to SLDC. The status of data received through AMR system for Jan'14 was communicated through email to all concerned offices. The action plan for

receiving the complete data through AMR and timely receipt of replaced meter details may be discussed in the meeting.

**[Action : CE(T&C) MPPTCL]**

## **9.2 Installation of ABT meter at 0.4kV Mangthar feeder of SGTPS :**

East Discom to provide supply to 415 volts consumers from their own network which are presently being fed through 0.4kV Mangthar feeder of SGTPS, Birsinghpur. In the 43<sup>rd</sup> OCCM, East Discom representative has informed that a proposal has been submitted in Jila Panchat for financing of scheme and Jila Panchat has requested the State Govt. for approval of the scheme. The present status may be apprised to the Committee.

**[Action : East Discom]**

**9.3 Providing AMR facility for the ABT meters installed at MPPGCL / OSP :** In compliance to state commission directives for computation of weekly transmission losses and Deviation charges, SLDC has requested the MPPGCL / OSP for providing the AMR facility on the meters installed at the interface points for data communication with AMR System installed at SLDC.

MPPGCL has placed the order on M/s Secure Meters Ltd. for providing AMR facility and provided the list of interface points but meter Sr. No. are not indicated at all the interface points and has also not intimated the status of AMR implementation. In the 43<sup>rd</sup> OCCM, OSP representative has informed that tendering is in process for providing AMR facility.

MPPGCL / OSP may also advise the firm to obtain a certificate before finalization of project from SLDC for successful integration of ABT meters installed at the interface points of power stations with AMR system installed at SLDC.

MPPGCL / OSP are requested to apprise the Committee about the status of AMR implementation.

**[Action : MPPGCL / NHDC]**

**9.4 Providing AMR facility on the Discoms embeded Open Access Customers:** SLDC advice the Open Access Customers (OACs) and also requested Discoms to coordinate with OACs for providing compatible modems alongwith GPRS+GSM enabled SIMs for data downloading by SLDC and Discoms independently through AMR system. In the 43<sup>rd</sup> OCCM, West Discoms representative have informed that they have requested M/s Secure Meters Ltd. to demonstrate the AMR system with GPRS+GSM enabled SIMs on one meter so that same could be implemented for all embeded OACs. All the Discoms may apprise the status to the Committee.

**[Action : Discoms]**

## **ITEM NO 10: SCADA/EMS RELATED ISSUES:**

### **10.1 CLOSE MONITORING OF TELEMETRY IN VIEW OF AVAILABILITY OF SCADA/EMS DATA CHIEF MINISTER OF MP DASH BOARD.**

As per the instructions of Energy Department, Government of Madhya Pradesh, real time data from SLDC SCADA /EMS system is being provided on the dash board of Honorable Chief Minister of MP. The testing and development of the same is under progress.

In view of this, maintenance of telemetry system to ensure round the clock availability at SLDC is now to be done on top most priority. Accordingly, close monitoring of telemetry and immediate restoration of the same in case of fault is essential and necessary instructions in this regard are to be issued by all concern. The up gradation of telemetry wherever required, functioning of alternate data

channels, and availability of sufficient spares for ensuring round the clock uninterrupted functioning of telemetry is also required to be ensured.

**CE (T&C),MPPTCL, ED (O&M: GEN: MMPPGCL), IPPS,NHDC**

### **10.2 NON AVAILABILITY OF TELEMETRY OF 220KV CHICHLI, 220KV DHAR, 220KV PANAGAR & 220KV GANJBASODA S/s-**

The telemetry of 220KV Chichli S/s is not yet commissioned completely, despite constant pursuance by SLDC and discussions in last four OCC meetings. The telemetry of recently commissioned 220KV Dhar S/s, 220KV Panagar & 220KV GanjBasoda S/s are also to be provided.

The present status and commissioning schedule of all these locations may please be intimated by T&C, MPPTCL.

**Action: - CE (T&C) MPPTCL**

### **10.3 STATUS OF PROCUREMENT OF NEW RTUs**

The matter of procurement of RTU for Rajghat HPS and Bansgar III HPS was discussed in detail in last eight OCCM meetings. The Telemetry of Rajghat HPS is out since last eight months. The schedule for arrangement of telemetry of the same may please be intimated.

Similarly, the present status of arrangement of telemetry equipment for 37 locations identified earlier jointly by T&C and SLDC is to be provided by the CE (procurement), MPPTCL. The list of Sub Stations identified for telemetry include 132KV Sub stations having injection from renewable injection like 132Kb Susner, 132KV Jaora, 132KV Ratangarh, 132KV Kushi,132KV Khilchipur,132KV Agar, 132KV Sailana, 132Kv S/s Gadarwara, 132KV Sitamau Sub Station. The telemetry of these Sub Stations is essentially required for monitoring of renewable generation.

The present status of procurement of new RTUs/Arrangement of telemetry may please be provided by MPPGCL/MPPTCL.

**Action: - CE (T&C)/CE (T&P), MPPTCL, ED (O&M: GEN: MMPPGCL)**

### **10.4 ARRANGEMENT OF INFRASTRUCTURE FOR REPORTING OF RTUS TO DUAL CONTROL CENTERS, AS PER REQUIREMENT OF MAIN SLDC AT JABALPUR AND BACKUP SLDC AT BHOPAL.**

The formation of backup SLDC is in advance stage and all RTU reporting to SLDC Jabalpur and Sub-LDC Bhopal area are required to facilitate dual control centre reporting i.e. one channel from these RTU shall report to SLDC Jabalpur and another channel shall report to backup SLDC Bhopal. The material required for achieving the task of reporting of RTU to two different control centre ( Main and backup SLDC) has already been finalised and forwarded to CE(Procurement) and ED(O&M:GEN). In earlier meeting, it was requested to arrange procurement of material so that communication channels and modification in RTU configuration required for achieving dual control centre reporting may be achieved as per the commissioning schedule of backup SLDC i.e. by May 2015.

The present status along with further action plan may be intimated by MPPGCL & MPPTCL.

**Action: - CE (T&C)/CE (T&P), MPPTCL, ED (O&M: GEN: MPPGCL)**

## 10.5 THE ARRANGEMENT OF DATA CHANNEL FOR REMOTE VDU INSTALLED AT GCC, DCC

The SLDC has initiated the work of arranging fiber connectivity between SLDC-220KV Sub Station-Shakti Bhawan by laying of ADSS cable between 220KV S/s - Shakti Bhawan and subsequent distribution of fiber cable to various locations in Shakti Bhawan. The administrative Approval for the work was accorded by all companies and funding of the project is proposed by MPPMCL. However, in the last meeting held at SLDC , finance section of MPPMCL raised some issue regarding funding of the project and the matter is pending with MPPMCL and hence the work is expected to be got delayed while data channel for commissioning of new SCADA/EMS system is required by May 2015. Accordingly it is required to arrange 2 MBPS data channel for commissioning of remote VDUS at MPPGCL, MPPTCL, East DISCOM, by concern utilities so that Remote VDUs from new system may be installed by May 2015.

**ACTION: MPPGCL,MPPTCL, DCC (WZ,CZ)**

## 10.6 DISCREPANCY IN TELEMETERED VALUES RECEIVED FROM DIFFERENT EHV S/S & POWER STATIONS & UPGRADATION OF EXISTING RTUS

The present status of telemetry discrepancy is enclosed herewith as **annexure-10.6**. In this reference, it is to mention that as per the instructions of Energy Department, Government of Madhya Pradesh, real time data from SLDC SCADA /EMS system is being provided on the Web Portal (Dash Board) of Honorable Chief Minister of MP. The testing and development of the same is under progress. **In view of the availability of real time SCADA/EMS data on Chief Minister website, the correctness, completeness and round the clock availability of real time data is required to be ensured.**

Further, it is also to mention that in the matter of establishment and maintenance of telemetry and communication, CERC has filed an Suo Motu petition No. 56/SM/2013 and directed WRLDC and NLDC to closely monitor the telemetry functioning (non availability/wrong values/intermittent functioning etc) and monthly progress report in the matter is required to be submitted to Honorable CERC.

The important pending issues are as given hereunder:-

1. The telemetry of 220KV Satpura & 220KV Pandhurna S/s, 220KV Pipariya is required to be upgraded for accommodating telemetry of inter-discom feeders. However, the same is not arranged, despite constant pursuance with field officers and discussions in last five OCCM meetings.
2. The telemetered value of 220KV/132 BHEL AND CGL Transformers, along with few other values mentioned in annexure, at Narsingpur is not available since last two years, despite constant pursuance.
3. The telemetry of 220/132KV Transformers at 220KV Vidisha, 220KV Tikamgarh, 220KV Mehgaon, 220KV Handia, 220KV Gwalior, 220KV Malanpur is not available and required to be arranged.
4. The Actual generation telemetry of Singaji Power station failed too frequently.
5. In Most of the Hydel Power Stations, process connection for SOE has not yet done.;
6. In Gandhi Sagar and Pench Hydel power stations, telemetry of only one bus frequency and voltage is available. This is creating problem in black start. The telemetry of other bus frequency is required to be arranged.
7. In recently commissioned Chemtrol RTUS, SOE connection has not been extended and extension of OLTC is also pending for most of the site.



MPPGCL and MPPTCL may please provide completion schedule regarding rectification of telemetry discrepancy and upgradation of RTU's.

**ACTION: T&C, MPPTCL & O&M: GEN, MPPGCL**

### **10.7 PROBLEM IN DATA AND VOICE CHANNELS**

The telemetry of 220-KV Anuppur, 132KV Kotma, 132KV Waidhan, 220KV Betul, 220KV Sidhi, 220KV Sarni Sub Station, 220KV Shivpuri, 132KV Beohari etc is not functioning properly. The Data & voice channels of all Hydel Power Stations are not working properly.

As intimated by SE (T&C), MPPTCL, the battery bank and charger at Raighat HPS is required to be replaced. Further, the battery bank and charger at Birsingpur TPS is also suspected. The same need to be investigated for appropriate action.

The problem of RTU data channels of 220KV Anuppur and Morwa S/s was discussed in detail in last four OCCM and it was informed by T&C that problem is due to faulty outdoor equipments at ATPS and it was assured by MPPGCL to sort out the matter on priority basis. The matter was subsequently perused by SE (T&C), Satna, CE (T&C), MPPTCL and SLDC. MPPGCL informed that the problem is not at ATPS. The matter was also taken up by SLDC vide UO 325 dated 25-11-2014 but no response from MPPGCL.

The action for restoration of alternate data channels, express voice channels as well as improving reliability of telemetry data channels need to be taken.

**ACTION: T&C, MPPTCL & O&M: GEN, MPPGCL**

### **10.8 ARRANGEMENT OF NECESSARY SPACE, AIRCONDITIONING AND POWER SUPPLY, PLCC EQUIPMENTS FOR INSTALLATION OF WIDE BAND EQUIPMENTS & FOR HOT LINE PABX:-**

Under Master telecom Plan of WR and URTDSM project, replacement of existing wideband equipments are proposed for replacement and new wideband equipments are proposed to be installed at new locations. Further implementation of PABX hot line exchange on all SLDC/RLDC is under progress. The new wideband equipments as well as hot line PABX shall be delivered shortly. For commissioning of these equipments, necessary space, air-conditioning and DC Power supply arrangement for all locations covered under master telecom project as well as in URTDSM project.

**Action: - CE (T&C)/CE (T&P), MPPTCL, ED (O&M: GEN: MPPGCL**

**ITEM No 11 : DATE AND VENUE OF NEXT OCC MEETING :** It is proposed to hold 45<sup>th</sup> OCC meeting of Operation and Coordination Committee of MP on 24<sup>th</sup> April 2015. The host and venue of the same shall be decided in the meeting.

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### FREQUENCY PARTICULARS

S. No.	Particulars	Dec-14		Jan-15	
<b>1</b>	<b>INTEGRATED OVER AN-HOUR</b>				
1.1	Maximum Frequency	50.38 Hz	Between 02.00 hrs & 03.00 Hrs on 15.12.14	50.38 Hz	Between 02.00 hrs & 03.00 Hrs on 02.01.15
1.2	Minimum Frequency	49.72 Hz	Between 09.00 hrs & 10.00 Hrs on 19.12.14	49.69 Hz	Between 08.00 hrs & 09.00 Hrs on 25.01.15
1.3	Average Frequency	49.98 Hz		49.99 Hz	
<b>2</b>	<b>INSTANTANEOUS FREQUENCY</b>				
2.1	Maximum Frequency	50.58 Hz	AT 00.00 HRS ON 15.12.14	50.56 Hz	AT 06.03 HRS ON 01.01.15
2.2	Minimum Frequency	49.54 Hz	AT 18.40 HRS ON 30.12.14	49.55 Hz	AT 07.36. HRS ON 15.01.15

#### 3 Percentage of time when frequency was :-

	%age of time when frequency was	Dec-14	Jan-15
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	0.00	0
3.4	Between 49.20 Hz and 49.5 Hz	0.00	0
3.5	Between 49.50 Hz and 49.7 Hz	1.00	0.61
3.6	Between 49.70 Hz and 49.9 Hz	22.85	16.85
3.7	Between 49.9 Hz and 50.05 Hz	48.29	53.73
3.8	Between 50.05 Hz AND 51.5 Hz	27.86	28.81
3.9	Above 51.5 Hz	0.00	0
4	No. of times frquency touched 48.80 Hz	0	0
4.1	No. of times frequency touched 48.60 Hz	0	0
4.2	No. of times frequency touched 51.0 Hz	0	0

## Voltage Profile During the Month of Dec- 2014

Date	Indore		Itarsi		Bina		Gwalior		Nagda		Birsingpur		Satpura		ISP	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	421	398	417	394	417	401	408	392	424	397	421	411	423	406	427	406
2	423	397	419	394	419	400	412	393	424	398	423	409	424	406	427	406
3	421	400	416	396	418	401	411	394	424	400	421	410	422	406	425	408
4	424	409	419	398	418	400	410	391	425	401	422	409	423	406	427	407
5	420	399	419	398	417	397	408	394	419	400	421	409	422	402	422	404
6	420	396	418	394	417	397	409	392	421	392	423	410	422	404	425	401
7	422	397	417	393	417	398	409	394	423	396	422	410	423	406	425	403
8	421	395	417	392	416	397	412	390	423	395	423	409	423	405	425	402
9	420	400	417	397	419	400	411	394	423	397	423	410	423	403	424	408
10	419	395	415	392	415	397	409	392	421	396	423	408	421	406	424	406
11	421	396	415	392	415	396	411	394	424	395	422	408	420	404	425	406
12	419	397	419	393	420	397	412	389	423	397	427	408	423	404	425	406
13	419	397	419	397	423	405	413	391	421	397	426	413	420	407	424	406
14	421	399	419	401	420	406	411	393	423	400	426	416	423	409	426	408
15	421	395	417	393	419	400	411	393	422	394	426	411	422	406	424	405
16	422	400	419	397	419	404	408	392	423	399	426	413	422	409	424	408
17	420	399	417	397	418	401	407	393	423	399	424	411	422	409	424	408
18	417	398	416	396	422	404	408	391	420	400	422	410	421	407	424	406
19	420	399	417	397	421	403	409	391	423	399	425	410	424	406	426	410
20	422	400	419	393	420	399	410	388	424	394	424	410	421	404	424	406
21	420	400	417	393	420	401	410	392	423	399	423	410	421	404	424	406
22	420	398	417	397	420	398	410	392	423	399	424	408	420	403	424	404
23	420	399	417	397	421	400	412	392	423	399	422	408	422	402	422	401
24	421	398	418	401	419	398	410	391	422	402	422	409	421	406	425	404
25	420	399	417	397	415	403	412	390	423	399	421	408	422	404	425	404
26	422	400	417	390	419	400	409	392	423	392	423	408	423	404	426	403
27	422	400	417	393	419	402	410	390	424	397	423	408	423	406	426	406
28	424	400	417	389	420	400	410	393	423	396	424	406	424	403	426	402
29	421	400	417	393	422	400	413	386	422	395	423	407	421	404	422	405
30	421	400	416	393	422	402	409	386	421	397	422	407	422	406	425	406
31	422	400	417	395	425	404	408	388	423	399	424	409	424	409	425	408
<b>Max /Min</b>	<b>424</b>	<b>395</b>	<b>419</b>	<b>389</b>	<b>425</b>	<b>396</b>	<b>413</b>	<b>386</b>	<b>425</b>	<b>392</b>	<b>427</b>	<b>406</b>	<b>424</b>	<b>402</b>	<b>427</b>	<b>401</b>

## Voltage Profile During the Month of Jan - 2015

Date	Indore		Itarsi		Bina		Gwalior		Nagda		Birsingpur		Satpura		ISP	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	424	400	419	400	424	404	412	385	425	406	426	412	426	411	422	409
2	423	400	419	400	424	407	413	394	423	402	424	413	423	413	420	420
3	420	400	416	398	421	404	411	392	420	400	423	412	423	410	420	420
4	421	400	416	399	419	405	408	391	421	403	423	412	423	411	420	420
5	422	400	416	394	419	402	409	389	422	400	423	410	423	409	420	420
6	420	400	417	396	418	401	408	389	421	397	422	410	424	410	423	410
7	422	400	416	397	417	402	407	390	421	397	421	410	424	410	425	406
8	417	400	415	410	417	402	406	387	417	411	421	409	423	410	422	408
9	419	400	415	410	418	402	409	390	419	414	421	410	424	410	423	408
10	419	400	416	397	423	406	410	394	421	399	421	410	423	411	424	409
11	421	400	417	395	420	400	411	390	421	398	422	407	424	409	425	407
12	419	400	417	397	419	404	412	394	420	399	421	409	423	409	423	408
13	422	400	416	396	420	404	416	394	423	401	422	408	423	410	425	409
14	422	400	416	396	421	406	418	400	423	401	422	410	424	410	424	408
15	421	400	417	394	423	404	411	392	422	399	421	408	423	408	424	409
16	421	400	417	394	419	402	410	395	422	399	420	407	422	406	424	405
17	420	400	415	392	418	399	409	390	423	397	420	407	421	406	423	406
18	419	400	414	392	418	399	411	393	421	397	421	408	422	407	424	408
19	420	400	416	394	419	400	412	394	423	399	419	407	421	406	424	408
20	423	400	417	390	418	398	410	392	424	396	418	405	421	404	423	406
21	421	398	416	390	420	398	414	397	423	395	422	405	423	403	425	406
22	422	399	416	391	427	409	414	394	426	400	423	408	423	404	425	404
23	422	402	416	397	421	405	410	398	424	403	422	411	424	408	427	408
24	424	402	415	390	424	403	411	390	424	401	422	407	423	404	422	410
25	420	403	416	396	420	407	411	399	424	405	423	411	424	407	423	410
26	419	404	414	398	421	405	413	398	424	406	421	410	421	409	422	411
27	419	402	413	395	419	406	408	396	422	405	421	410	423	407	422	410
28	417	399	416	397	424	403	410	396	421	416	422	408	421	403	420	420
29	423	407	416	394	420	402	409	390	426	408	422	410	421	409	424	413
30	422	398	416	391	415	396	406	384	424	399	419	408	421	405	424	406
31	420	400	414	393	414	398	404	385	421	400	426	410	426	406	426	407
<b>Max /Min</b>	<b>424</b>	<b>398</b>	<b>419</b>	<b>390</b>	<b>427</b>	<b>396</b>	<b>418</b>	<b>384</b>	<b>426</b>	<b>395</b>	<b>426</b>	<b>405</b>	<b>426</b>	<b>403</b>	<b>427</b>	<b>404</b>

## TRANSMISSION WORKS UNDER PROGRESS (AS ON 31.01.2015)

ANNX-2.4.1

S. No.	NAME OF THE TRANSMISSION LINE	TYPE OF CKT.	CKT. KMS.	COMPLETION PROGRAMME	PROGRESS IN %
<b>A. 400 KV TRANSMISSION LINES</b>					
1	400KV DCDS Satpura - Ashta line (2x241)	DCDS	482	Mar-15	95%
<b>Sub Total (A)</b>			<b>482</b>		
<b>B. 220 KV TRANSMISSION LINES</b>					
1	Ashta (400) - Indore - II (Jaitpura) (2x100)	DCDS	200	Mar-15	96%
2	220KV line from Gwalior (400kv) (PGCIL) to Gwalior (220kv) (II) (2x0.76)	DCDS	1.52	Mar-15	85%
3	2nd Ckt of 220kv Damoh - Tikamgarh line (152)	2nd ckt	152	Sep-15	86%
4	2nd Ckt of 220kv Astha 400kv - Berchha line + 220KV Berchha -Shajapur DCDS line (45)+(2x20)	DCDS	45	Mar-16	96%
5	LILO of one Ckt of 220kv DCDS Bhopal - Ashta line at 220kv S/S Mugaliya chhap. (DCDS)	DCDS	52	Dec-14	2%
6	2nd Ckt of 220kv Satna - Chhatarpur line (152)	2nd ckt	160	July'15	8%
9	220Kv DCDS line from Pithampur-Depalpur line (2X31)	DCDS	62	Oct-15	5%
10	LILO of 220kv Rewa-Tons line at 220Kv S/s Sirmour(2x5)	DCDS	10	Mar-15	8%
11	220Kv FCFS line for LILO of both Ckt. Of Badnagar - Ratlam D/C line at 400Kv S/s Badnawar (2x1+4x8)	DCDS	34	Mar'16	2%
12	220KV DCDS line from 220KV S/s Daloda- to proposed 180MW Wind energy generation project (WINDFORM) of M/s DJ Energy Pvt.ltd. At Bhatkheda near Jaora (Ratlam) (2x19.875)	DCDS	39.75	Jan-15	95%
13	Modification/Shifting of 220KV DCDS Narsighpur- Itarsi line due to project site of NTPC AT Gadawara between location no.-350 -367 (Mandsaur) (2x7.50)	DCDS	15	Jul-15	41%
<b>Sub Total (B)</b>			<b>771</b>		
<b>C. 132 KV TRANSMISSION LINES</b>					
1	132kv DCDS line for Diversion of 132 kv Handiya-Nasrullaganj tap line & second circuiting of 132 kv Handiya-Nasrullaganj line and * 132 kv DCSS Tap line for proposed 132kv S/s GOPALPUR (2x8.5+1x3.35+1x19) (GoMP)	DCDS	39.35	Mar-15	46%
2	132kv Birsinghpur -Shahdol DCSS line (1x48)	DCSS	48	Mar-15	4%
3	132kv Ichhawar -Sehore DCSS line (1x35.298)	DCSS	35.298	Mar-15	15%
4	132kv Chhatarpur (220kv)- Laundi line (1x43)	DCSS	43	Mar-15	24%
5	132 kv DCDS Ujjain(220 kv) -Chandrawatiganj line (2x35.42)	DCDS	70.84	Mar-15	60%
6	132 kv DCSS Dewas-Barotha line (1x23)	DCSS	23	Mar-15	50%
7	132 kv DCDS Dewas (220KV) to Shankargarh (Dewas bypass) line (2x4.74)	DCDS	4.74	Mar-15	49%
8	132 kv DCSS Ghatabillod-Betama line (1x18)	DCSS	18	Mar-15	22%
9	132kv Jeerapur -Susner DCSS line (1x32)	DCSS	32	Mar-15	30%
10	132kv DCSS Gautampur -Depalpur line (1x19)	DCSS	19	Dec-14	20%
11	132kv Katra -Mauganj DCSS line (1x50)	DCSS	50	Mar-15	90%
12	132kv Nagda(220kv)- Kachrod-Jaora DCSS line (1x64)	DCSS	64	Mar-15	18%
13	132kv Sajapur (220kv) -Berchha DCDS line (2x22+4x3)	DCDS	56	Mar-15	76%
14	132kv DCSS Shujalpur( 220kv) -Pachhore DCSS line (1x35.5)	DCSS	35.5	Mar-15	18%
15	132kv DCDS Shajapur( 220kv) -Moman Badodiya line (1x24)	DCSS	48	Mar-15	65%

16	132kv Mugaliya Chaap- Sehere DCSS line (1x24)	DCSS	24	Dec-14	5%
17	132kv Pipariya 220kv- Bareli DCSS line (1x34)	DCSS	34	Mar-15	25%
18	132 kv DCDS line between Bairagarh s/s(132KV) to Runaha line (2x50)	DCDS	100	Mar-15	51%
19	132 kv DCSS line between 220KV Harda s/s and 132KV Khirkiya s/s (1x36.55)	DCSS	36.55	Mar-15	17%
20	LILO of one ckt of Barwaha 220-Indore SZ 132 kv DCDS line at Balwada (2x0.892)	DCDS	1.784	Apr-15	90%
21	132Kv Chapda-Sivni DCDS line (1x18)	DCDS	18	Dec'15	2%
22	132 kv DCSS line between 132KV Ganj Basoda to Saharwasa (1x29)	DCSS	29	Mar-15	22%
23	132 kv DCDS line Datiya Interconnector(2x6.20)	DCDS	12.4	Mar-15	80%
24	LILO of S/C ckt of 132 KV Seoni-Lakhnadon line at 220kv S/S Seoni (2x20)	DCDS	40	Apr-15	5%
25	132 kv Sitamau- Daloda DCSS line (1x34)	DCSS	34	Mar-15	57%
26	132 kv DCSS Julwaniya (400kv-)-Sendhwa line (1x27)	DCSS	27	Mar-15	43%
27	132 kv DCSS Sheopur-Baroda line (1x34)	DCSS	34	Dec-14	50%
28	132 kv DCSS Line from 220Kv S/s Kotar-132Kv S/s Rampur Baghelaan line, by stringing 2nd ckt.220Kv S/s Kotar to 132Kv Prism II Line (1x20)	DCSS	20	May-15	12%
29	132 kv DCSS Damoh (220Kv )-Batiyagarh line on 220Kv Towers (1x40)	DCSS	40	May-15	34%
30	LILO of one S/C ckt of 132 KV Chhegaon-Khargone 132Kv DCDS Line at Andad(Bediya) (2x6.33)	DCDS	12.66	Apr-15	18%
31	132 kv DCSS Line from 220Kv S/s Shivpuri-132Kv Bairad (1x32.859)	DCSS	32.859	Apr-15	12%
32	132 kv DCSS Alot-Tal line (1x16.23)	DCSS	16.23	Mar-15	28%
33	132 kv DCSS MomanBarodiya-Nalkhedra line (1x34)	DCSS	34	Feb-15	34%
34	132 kv DCSS from 220Kv S/s Datiya-132kv S/s Indergarh (1x27.1)	DCSS	27.1	Apr-15	16%
35	132 kv Gwalior II - Hastinapur DCSS line (1x30.00)	DCSS	30	Mar-15	38%
36	LILO of Malanpur-Ambaah 132 kv DCDS line at Badagaon(Dimni) (2x2.50)	DCDS	5	Apr-15	83%
37	LILO of Both circuit of 132 kv DCDS Gwalior(Mahalgaon) - Dabra/Karera line at 220 KV S/s Gwalior II) (2x2x7.87)	DCDS	55.09	Mar-15	12%

38	132 kv DCSS line from 132Kv S/s Kymore-132Kv S/s Barhi (1x35)	DCSS	35	April'15	2%
39	132 kv DCDS Line for LILO of Ujjain- Ratadiya S/c line at 132 kv s/s at Bherugarh (2x2.57)	DCDS	7.343	Jun-15	45%
40	132 kv DCDS Line for LILO of Ujjain- Ingoriya line at existing 132 kv s/s Ratadiya (2x2.172)	DCDS	4.344	Feb-15	47%
41	132 kv Sirmour - Katra DCDS line (2x37.67)	DCDS	75.34	Mar-15	4%
42	132 kv DCSS Guna-Eshagarh line (1x72)	DCSS	72	Mar-15	2%
43	132 kv Sagar-Rahatgarh DCSS line (1x55)	DCSS	55	Apr-15	3%
44	132 kv DCSS Malanpur-Gohad line (1x14.55)	DCSS	14.55	Jul-15	23%
44	132 kv DCSS Datiya- Bhandar line (1x35)	DCSS	35	Mar'16	1%
45	Stringing of 3rd conductor from Bina to Mungaoli (31.20)	Stinging	31.2	Apr-15	95%
46	132 kv DCSS line from 220Kv S/s Chichli - 132Kv Karappaon (1x35)	DCSS	35	Apr-15	2%
47	LILO of 132Kv Sironj-Maksudangarh line at 132Kv S/s Lateri (2x7)	DCDS	14	Dec'15	8%
48	132 kv DCSS line Mehgaon - Pratappura (1x28)	DCSS	28	Mar-16	1%
49	220kv S/s MandiDeep -M/s Proctor & Gamble MandiDeep (DIST.-Bhopal) DCSS line (1x9.0)	DCSS	9	Mar-15	90%
50	2nd ckt of 132kv RTS Mangliyagaon line	2nd ckt	9	Mar-15	96%
51	132Kv DCDS line from 220Kv S/s Shajapur (under construction) to 150 MW Wind Energy Power plant of M/s Gamesa Wind Tubines Pvt. Ltd. at Chandgarh Distt. Dewas & Shajapur (2X29)	DCDS	58	Mar-15	32%
52	132Kv DCSS line from 220Kv S/s Badod - 2x20MW Solar PV Power project of M/s IL&FS Energy development co. Ltd. at Tehsil Badod Distt. Agar (1X13.44)	DCSS	13.44	Mar'15	10%
<b>Grand Total 132kv lines</b>			<b>1747</b>		
<b>Grand Total (A+B+C)</b>			<b>3000</b>		
<b>S. No.</b>	<b>NAME OF THE SUBSTATION</b>	<b>VOLTAGE RATIO (KV)</b>	<b>EFFECTIVE CAPACITY MVA</b>	<b>COMPLETION PROGRAMME</b>	<b>PROGRESS IN %</b>
<b>A. 400 KV SUBSTATIONS</b>					
1	Nagda (ADDL.) (Distt. Ujjain)	400/220	315	Mar-15	62%
2	2x80 MVAR Reactor at 400Kv S/s Bhopal	400KV	0	2014-15	90%
3	Katni (ADDL.) (Distt. Katni)	400/220	315	Mar-15	3%
<b>Sub Total (A) (400 kv)</b>			<b>630</b>		
<b>B. 220 KV SUBSTATIONS</b>					
1	Gwalior II (New S/s) (Distt. Gwalior) (2x160+40 MVA)	220/132	320	Mar-15	47%
2	Datiya (New S/s) (Distt. Datiya) (1x160+40 MVA)	220/132	160	Mar-15	52%
3	Julwaniya 220/132kv S/s at 400kv s/s (Distt. Badwani) (2x160+40 MVA)	220/132	320	Mar-15	29%
4	Shajapur 220kv S/s (Distt. Shajapur) (2x160+40 MVA)	220/132	320	Mar-15	38%
5	Bhanpura 220kv (New S/s) (Distt. Mandasaur)	220/132	160	Mar-15	73%
6	Sirmour 220kv (New S/s) (Distt. Rewa)	220/132	160	Mar-15	3%
7	Mugaliachhap(Bhopal) 220kv (New S/s)(1x160+40)	220/132	160	Dec'15	2%
<b>Sub Total (B) (220kv)</b>			<b>1600</b>		

<b>C. 132 KV SUBSTATIONS</b>					
<b>(a) NEW SUBSTATIONS</b>					
1	Runaha(Distt. Bhopal)	132/33	63	Mar-15	90%
2	Hastinapur (New S/s) (Distt.Gwalior) (40 MVA)	132/33	40	Mar-15	44%
3	Baroda (Distt.Sheopur)	132/33	40	Mar-15	70%
4	Budhera132kv s/s (Distt.Sheopur)	132/33	40	Mar-15	53%
5	Laundi132kv s/s (Distt.Chhatarpur)	132/33	40	Mar-15	90%
6	Shankargarh 132kv s/s (Distt.Dewas)	132/33	40	Mar-15	24%
7	Batiygarh132kv s/s (Distt.Damoh)	132/33	40	Mar-15	22%
8	Eshagarh132kv s/s (Distt.Guna)	132/33	40	Mar-15	7%
9	Digoda 132kv s/s (Distt.Tikamgarh)	132/33	40	Mar-15	70%
10	Tal 132kv s/s (Distt.Guna)	132/33	40	Mar-15	9%
11	Nalkheda 132kv s/s (Distt.Shajapur)	132/33	40	Mar-15	47%
12	Saharwasa 132kv s/s (Distt.Vidisha)	132/33	40	Mar-15	13%
13	Bairad 132kv s/s(Dist.-Shivpuri )	132/33	40	Apr-15	4%
14	Badagaon (Dimni) 132kv s/s(Dist.-Morena )	132/33	40	Oct-14	15%
15	Andad (Bediya)132kv s/s (Distt.Khargone)	132/33	40	Mar-15	3%
16	Balwada 132kv s/s (Distt.Khargone)	132/33	40	Mar-15	37%
17	Barahi 132kv s/s (Distt.Katni)	132/33	40	Apr-15	3%
18	Karappaon 132kv s/s (Distt-Narsinghpur)	132/33	40	Apr-15	4%
19	Sivni 132kv s/s (Distt.Indore)	132/33	40	Mar-15	9%
20	Lateri 132kv s/s (Distt.Vidisha)	132/33	40	Oct-14	6%
21	Rahatgarh132kv s/s (Distt.Sagar)	132/33	40	May-15	1%
22	Indergarh 132kv s/s (Distt.Datia)	132/33	40	Apr-15	9%
23	Dongari Tal 132kv s/s (Distt.Sidhi)	132/33	40	Feb-15	12%
24	Berugarh 132kv s/s (Distt.Ujjain)	132/33	40		21%
25	Pratappura 132kv s/s (Distt. ) 1x40 MVA	132/33	40	April'16	7%
26	Gohad 132kv s/s (Distt. ) 1x63 MVA	132/33	63	April'16	12%
27	Bhander 132kv s/s (Distt. ) 1x63	132/33	63	April'16	16%
28	Umreth 132kv s/s (Distt.Chhindwara ) 1x40 MVA	132/33	40	Jun'15	1%
<b>SUB-Total (C.a)</b>		<b>0</b>	<b>1189</b>		
<b>(b) ADDITIONAL / AUG. WORKS</b>					
2	Morar132kv s/s(Addl.) (Distt.Morena)	132/33	63	Mar-15	78%
<b>SUB-Total (C.b)</b>			<b>63</b>		
<b>(c) FEEDER BAY WORKS</b>					
1	2Nos.220KV Bays at ASHTA for Shajapur 220kv	220KV		Mar-15	43%
2	1No.132kv Bays at Bareli 132kv for Pipariya 220kv	132KV		Mar-15	57%
3	2No.132kv Bays at Datiya (for 132kv interconnector I & II)	132KV		Mar-15	32%
4	1No.132kv Bays at Sendhwa 132kv s/s for Julwaniya	132KV		Mar-15	13%
5	1No.132kv Bays at Julwaniya 400kv s/s for Anjad	132KV		Mar-15	7%
6	1No.132kv Bays at Depalpur 132kv s/s for Gautampura	132KV		Mar-15	95%
7	1No.132kv Bays at Mauganj 132kv s/s for Katra	132KV		Mar-15	56%
8	1No.132kv Bays at Katra 132kv s/s for Mauganj	132KV		Mar-15	12%
9	2No.132kv Bays at Momanbarodiya 132kv s/s for Shajapur	132KV		Mar-15	33%
10	2No.132Kv Bay at Khachrod 132KVs/s for Nagda& Jaora (JICA) (Dist. Ujjain )	132KV		Mar'15	54%
11	1No.132kv Bays at Nagda 220 kv s/s for Khachrod	132KV		Mar-15	43%
12	1No.132kv Bays at A lot for 132kv s/s Tal	132KV		Mar-15	20%

13	1No.132kv Bays at Chaapda for 132kv s/s Shivni(Indore)	132KV		Mar-15	16%
14	1No.132kv Bays at Momanbarodiya for 132kv s/s Nalkheda	132KV		Mar-15	18%
15	2No.132kv Bays at Katra132kv s/s for220Kv S/s Sirmaur	132KV		Jun-14	1%
16	1No.132kv Bays at Chichali 220kv s/s for 132KV S/S Karapgaon	132KV		Aug-14	16%
17	1No.132kv Bays at Sabalgarh 220kv s/s for 132KV S/S Kelaras	132KV		Jan'16	15%
18	2No.132kv Bays at Malapur 220kv s/s for 132KV S/S Gohad	132KV		Jan'16	15%
19	1No.132kv Bays at Datiya 220kv s/s for 132KV S/S Bhandar	132KV		April'16	14%
20	1No.132kv Bays at Ashoknagar 220kv s/s for 132KV S/S Kothiya	132KV		April'16	14%
	<b>SUB-Total (C.c)</b>	<b>0</b>			
	<b>Total (C)</b>	<b>0</b>	<b>1252</b>		
	<b>Grand Total (A+B+C)</b>	<b>0</b>	<b>3482</b>		
<b>Total Estimated Cost of Transmission Works under progress (Amount in Lac.)</b>					<b>31.01.2015</b>



### Discoms wise Average Supply Hours

PARTICULARS	East Zone		Central Zone	
	Dec-14	Jan-15	Dec-14	Jan-15
Commissary HQ	23:54	23:57	23:28	23:23
District HQ	23:54	23:55	23:43	23:35
Tehsil HQ	23:46	23:51	23:25	23:26
Rural -Mixed	23:27	23:29	22:29	22:52
Rural -DLF	23:27	23:39	23:00	23:07
Rural -Irrigation	10:00	10:00	9:42	9:42
PARTICULARS	West Zone		MP	
	Dec-14	Jan-15	Dec-14	Jan-15
Commissary HQ	23:49	23:50	23:43	23:42
District HQ	23:46	23:50	23:49	23:52
Tehsil HQ	23:39	23:42	23:38	23:41
Rural -3Phase	23:08	23:15	23:03	23:13
Rural -1Phase	23:21	23:29	23:17	23:26
Total Rural	9:44	9:44	9:49	9:49

**LIST OF 33KV FEEDERS UNDER MPPKVCL, JABALPUR**

(For which group to be allocated)

**JABALPUR REGION**

<b>220KV</b>		
<b>Name of EHV S/s</b>	<b>Name of 33kV feeder</b>	<b>Date of charging of feeder</b>
220 KV Narsinghpur	33 kV Joba	05.04.2014
	33 kV Ramkhiriya	19.01.2014
	33 kV Bachai	27.08.2013
<b>132KV</b>		
132 KV Barman	33 kV Beetli No 3	07.02.2014
<b><u>REWA REGION</u></b>		
<b>220 KV</b>		
132 kV Rampur Naikin	33 kV Rampur Naikin	26.09.2014

**SAGAR REGION**

<b>Name of EHV S/s</b>	<b>Name of 33kV feeder</b>	<b>Date of charging of feeder</b>
<b>220KV</b>		
<b>Name of EHV S/s</b>	<b>Name of 33kV feeder</b>	<b>Date of charging of feeder</b>
220 KV Sagar	33 kv Taliman Pani	17.08.2013
	33 kv Jaisinagar	20.09.2014
<b>132KV</b>		
132 kV Sagar	33 kV Civil Line	29.11.2014
132 kV Prithvipur	33 kV Madiya	23.06.2014
132 kV Jatara	33 kV Bamhori	02.08.2014
132 kV Tikamgarh	33 kV Ahar	19.06.2014
132 kV Banda	33 kV Niandhara	20.10.2014
132 kV Tejgarh	33 kV Tendukheda	07.07.2014
	33 kV Tejgarh	02.07.2014
	33 kV Jabera	19.07.2014
	33 kV Nohta	07.07.2014

**LIST OF 33KV FEEDERS UNDER MPMKVCL, Bhopal**  
(For which group to be allocated)

**BHOPAL REGION**

Name of EHV Substation	Name of 33KV feeder	Date of charging of feeder
<b>220KV</b>		
220 kV Betul	33 kV Industrial	13.06.2014
220 kV Rajgarh	33 kV Chatukheda	04.05.2014
<b>132 kV</b>		
132 kV Bareli	33 kV Barna 33 kV Boras	19.02.2014 19.02.2014
132 kV Gurgaon	33 kV Bhainsdehi-II (Chandu)	24.05.2014
132 kV Chicholi	33 kV Chirapatla	31.05.2014
132 kV Ayodhya Nagar Bhopal	33 kV BMC	25.03.2014
132 kV Khilchipur	33 kV Sandawata 33 kV Khajla	18.03.2014 29.10.2014
132 kV Biora	33 kV Nagar Palika 33 kV Water Works	09.03.2014 09.03.2014
132 kV Sehore	33 kV Industrial 33 kV Dashehrabag-II	07.11.2010 four feeder) 09.05.2014
132 kV Shyampur	33 kV Jatkheda-I 33 kV Jatkheda-II	07.05.2014 07.05.2014
<b>GWALIOR REGION</b>		
Name of EHV Substation	Name of 33KV feeder	Date of charging of feeder
<b>220KV</b>		
220 kV Sabalgarh	33 kV Jhundpura	21.11.2014
<b>132 kV</b>		
132 kV Joura	33 kV Novodaya	21.11.2014
132 kV Seondha	New Seondha Bay (Bhau Pura)	16.09.2014
132 kV Karera	33 kV Narua	20.09.2014
132 kV Kolaras	33 kV Rai	27.09.2014

**LIST OF 33KV FEEDERS UNDER MPPaKVCL, Indore**  
(For which group to be allocated)

**INDORE REGION**

Name of EHV Substation	Name of 33KV feeder	Date of Charging of feeder
<b>220KV</b>		
220KV Barwaha	33KV PS-I Sasliya	15.01.2014
	33KV NVDA Omkareshwar Lift Irrigation	07.12.2013
220KV Jetpura	33KV PGCIL-II feeder	24.08.2014
<b>132KV</b>		
132KV NZ Indore	33KV Sangam Nagar-III	24.04.2013
	33KV Sangam Nagar-IV	24.04.2013
132KV Raukhedi	33KV Budi Barlai feeder	01.03.2014
	33KV Bhondwas	01.03.2014
	33KV DLF-I	01.03.2014
	33KV DLF-II	01.03.2014
132KV Electronic Complex	33KV Khatipura	31.07.2014
	33KV Electronic Complex	01.08.2014
	33KV ESI-I	31.07.2014
	33KV ESI-II	31.07.2014
132KV Simrol	33KV Datoda	06.12.2014
132KV Indore West	33KV Pletico Industrial	18.05.2014
132KV Ghatabillod	33KV Kesoora-II	19.10.2014

**UJJAIN REGION**

Name of EHV Substation	Name of 33KV feeder	Date of Charging of feeder
<b>132KV</b>		
132KV Makdon	33KV Gata	26.05.2013
132KV Susner	33KV Friends Salt (Solar Gen Plant)	09.04.2013
	33KV Bhadresh	21.05.2014
	33KV Evershine	21.05.2014
	33KV M&B	11.06.2014
132KV Berchha	33KV Lahori	28.02.2014
132KV Satwas	33KV Satwas	04.10.2014
	33KV Pipalkota	15.10.2014
	33KV Palas	20.10.2014
132KV Barooha	33KV Barooha	14.11.2014
	33KV Bai Jagwara	14.11.2014

Anticipated Hourly Average Availability for the Month :APRIL - 2015																																	
(BLA 14, JP BINA 313, LANCO 262, SASAN-5X247.5X0.90, JP NIGRI 495X0.8,Jhabua-153 MW, Moser Bare-271 MW)																																	
Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking Ret.	Banking Adv.	Total Availability	DISCOM DEMAND	
																																Demand	Shortage(+) / Surplus(-)
1	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	6	22	14	313	262	990	396	153	271	2399	-105	0	7613	6657	-956
2	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	6	22	14	313	262	990	396	153	271	2399	-105	0	7613	6497	-1116
3	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	6	22	14	313	262	990	396	153	271	2399	-105	0	7613	6424	-1189
4	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	6	22	14	313	262	990	396	153	271	2399	-105	0	7613	6381	-1232
5	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	6	22	14	313	262	990	396	153	271	2399	-105	0	7613	6407	-1206
6	2420	105	0	35	105	0	0	0	20	15	0	280	2400	30	105	56	50	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8013	6702	-1311
7	2420	105	0	70	105	0	0	0	20	15	0	315	2400	30	105	56	50	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8048	7157	-891
8	2420	105	50	70	210	0	0	0	20	15	0	470	2400	30	210	56	100	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8358	7296	-1062
9	2420	105	50	70	210	0	0	0	20	15	0	470	2400	30	330	56	150	350	6	60	14	313	262	990	396	153	271	2399	-105	0	8566	7194	-1372
10	2420	105	50	70	210	0	0	0	20	15	0	470	2400	30	440	56	200	350	6	100	14	313	262	990	396	153	271	2399	-105	0	8766	6868	-1898
11	2420	105	50	70	210	0	0	0	20	15	0	470	2400	30	440	56	200	350	6	130	14	313	262	990	396	153	271	2399	-105	0	8796	6678	-2118
12	2420	105	50	70	210	0	0	0	20	15	0	470	2400	30	440	56	200	350	6	190	14	313	262	990	396	153	271	2399	-105	0	8856	6403	-2453
13	2420	0	50	70	105	0	0	0	20	15	0	260	2400	30	440	56	200	350	6	190	14	313	262	990	396	153	271	2399	-105	0	8646	6301	-2345
14	2420	0	0	70	105	0	0	0	20	15	0	210	2400	30	440	56	200	350	6	150	14	313	262	990	396	153	271	2399	-105	0	8556	6170	-2386
15	2420	0	0	70	105	0	0	0	20	15	0	210	2400	30	440	56	200	350	6	100	14	313	262	990	396	153	271	2399	-105	0	8506	6189	-2317
16	2420	0	0	70	105	0	0	0	20	15	0	210	2400	30	440	56	200	350	6	60	14	313	262	990	396	153	271	2399	-105	0	8466	6275	-2191
17	2420	0	0	70	105	0	0	0	20	15	0	210	2400	30	330	56	150	350	6	56	14	313	262	990	396	153	271	2399	-105	0	8302	6298	-2004
18	2420	0	0	70	105	0	0	0	20	15	0	210	2400	30	330	220	150	350	6	25	14	313	262	990	396	153	271	2399	-105	0	8435	6187	-2248
19	2420	0	0	70	210	0	0	0	20	15	0	315	2400	30	440	220	200	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8697	7025	-1672
20	2420	0	0	70	210	0	0	0	20	15	0	315	2400	30	440	220	200	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8697	7324	-1373
21	2420	0	0	70	210	0	0	0	20	15	0	315	2400	30	440	220	200	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8697	7161	-1536
22	2420	0	0	0	210	0	0	0	20	15	0	245	2400	30	440	220	200	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8627	7081	-1546
23	2420	0	0	0	105	0	0	0	20	15	0	140	2400	30	330	220	150	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8362	7027	-1335
24	2420	0	0	0	105	0	0	0	20	15	0	140	2400	30	220	56	100	350	6	22	14	313	262	990	396	153	271	2399	-105	0	8038	6837	-1201
Average	2420	31	13	45	123	0	0	0	20	15	0	246	2400	30	283	97	129	350	6	57	14	313	262	990	396	153	271	2399	-105	0	8312	6689	-1623
LU/Day	581	7	3	11	29	0	0	0	5	4	0	59	576	7	68	23	31	84	1	14	3	75	63	238	95	37	65	576	-25	0	1995	1605	-390
		22.1	9	32.55	88.2	0	0	0	14.4	10.8	0	177	1728	21.6	204	69.84	93	252	4	41	10	225	189	713	285	110	195	1727	-76	0	5984.9	4816.17	-1168.748

Anticipated Hourly Average Availability for the Month : MAY - 2015																																	
(BLA 14, JP BINA 313, LANCO 262, SASAN-5X247.5X0.90, JP NIGRI 495X0.8,Jhabua-153 MW, Moser Bare-271 MW)																												Average MW					
Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking Ret.	Banking Adv.	Total Availability	DISCOM DEMAND	
																																Demand	Shortage(+) / Surplus(-)
1	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	15	22	14	313	262	990	396	153	271	2399	0	0	7727	6792	-935
2	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	15	22	14	313	262	990	396	153	271	2399	0	0	7727	6603	-1124
3	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	15	22	14	313	262	990	396	153	271	2399	0	0	7727	6490	-1237
4	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	15	22	14	313	262	990	396	153	271	2399	0	0	7727	6450	-1277
5	2420	0	0	0	0	0	0	0	20	15	0	35	2400	30	0	56	0	350	15	22	14	313	262	990	396	153	271	2399	0	0	7727	6465	-1262
6	2420	105	0	32	105	0	0	0	20	15	0	277	2400	30	105	56	50	350	15	22	14	313	262	990	396	153	271	2399	0	0	8124	6679	-1445
7	2420	105	0	65	105	0	0	0	20	15	0	310	2400	30	105	56	50	350	15	22	14	313	262	990	396	153	271	2399	0	0	8157	6880	-1277
8	2420	105	50	65	105	0	0	0	20	15	0	360	2400	30	210	330	100	350	15	22	14	313	262	990	396	153	271	2399	0	0	8636	6929	-1707
9	2420	105	50	65	105	0	0	0	20	15	0	360	2400	30	330	330	150	350	15	60	14	313	262	990	396	153	271	2399	0	0	8844	6832	-2012
10	2420	105	50	65	105	0	0	0	20	15	0	360	2400	30	330	330	150	350	15	100	14	313	262	990	396	153	271	2399	0	0	8884	6696	-2188
11	2420	105	50	65	105	0	0	0	20	15	0	360	2400	30	330	330	150	350	15	130	14	313	262	990	396	153	271	2399	0	0	8914	6511	-2403
12	2420	105	50	65	105	0	0	0	20	15	0	360	2400	30	330	56	150	350	15	190	14	313	262	990	396	153	271	2399	0	0	8700	6367	-2333
13	2420	0	50	65	105	0	0	0	20	15	0	255	2400	30	330	56	150	350	15	190	14	313	262	990	396	153	271	2399	0	0	8595	6370	-2225
14	2420	0	0	65	105	0	0	0	20	15	0	205	2400	30	330	56	150	350	15	150	14	313	262	990	396	153	271	2399	0	0	8505	6387	-2118
15	2420	0	0	65	105	0	0	0	20	15	0	205	2400	30	330	56	150	350	15	100	14	313	262	990	396	153	271	2399	0	0	8455	6392	-2063
16	2420	0	0	65	105	0	0	0	20	15	0	205	2400	30	330	56	150	350	15	60	14	313	262	990	396	153	271	2399	0	0	8415	6369	-2046
17	2420	0	0	65	105	0	0	0	20	15	0	205	2400	30	330	56	150	350	15	56	14	313	262	990	396	153	271	2399	0	0	8411	6345	-2066
18	2420	0	0	65	105	0	0	0	20	15	0	205	2400	30	330	220	150	350	15	25	14	313	262	990	396	153	271	2399	0	0	8544	6125	-2419
19	2420	0	0	65	210	0	0	0	20	15	0	310	2400	30	440	220	200	350	15	22	14	313	262	990	396	153	271	2399	0	0	8806	6763	-2043
20	2420	0	0	65	210	0	0	0	20	15	0	310	2400	30	440	220	200	350	15	22	14	313	262	990	396	153	271	2399	0	0	8806	7249	-1557
21	2420	0	0	65	210	0	0	0	20	15	0	310	2400	30	440	220	200	350	15	22	14	313	262	990	396	153	271	2399	0	0	8806	7105	-1701
22	2420	0	0	0	210	0	0	0	20	15	0	245	2400	30	440	220	200	350	15	22	14	313	262	990	396	153	271	2399	0	0	8741	7111	-1630
23	2420	0	0	0	105	0	0	0	20	15	0	140	2400	30	330	220	150	350	15	22	14	313	262	990	396	153	271	2399	0	0	8476	7106	-1370
24	2420	0	0	0	105	0	0	0	20	15	0	140	2400	30	220	56	100	350	15	22	14	313	262	990	396	153	271	2399	0	0	8152	6904	-1248
<b>Average</b>	2420	31	13	42	101	0	0	0	20	15	0	221	2400	30	251	143	115	350	15	57	14	313	262	990	396	153	271	2399	0	0	8400	6663	-1737
<b>LU/Day</b>	581	7	3	10	24	0	0	0	5	4	0	53	576	7	60	34	28	84	4	14	3	75	63	238	95	37	65	576	0	0	2016	1599	-417
		22.8	9.3	31.22	74.87	0	0	0	14.9	11.16	0	164.2	1786	22.32	186.9	106.1	85.25	260	11	42	10	233	195	737	295	114	202	1785	0	0	6249.8	4957.52	-1292.274

Anticipated Hourly Average Availability for the Month : June - 2015																																	
(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8,Jhabua-153 MW, Moser Bare-271 MW)																											Average MW			DISCOM DEMAND			
Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking Ret.	Banking Adv.	Total Availability	Demand	Shortage(+) / Surplus(-)
1	2622	0	0	0	0	0	0	0	20	15	0	35	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	7877	6356	-1521
2	2622	0	0	0	0	0	0	0	20	15	0	35	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	7877	6209	-1668
3	2622	0	0	0	0	0	0	0	20	15	0	35	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	7877	6118	-1759
4	2622	0	0	0	0	0	0	0	20	15	0	35	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	7877	6061	-1816
5	2622	0	0	0	0	0	0	0	20	15	0	35	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	7877	6079	-1798
6	2622	0	0	30	105	0	0	0	20	15	0	170	2450	30	100	56	50	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	8162	6317	-1845
7	2622	0	0	60	105	0	0	0	20	15	0	200	2450	30	100	56	50	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	8192	6436	-1756
8	2622	0	50	60	105	0	0	0	20	15	0	250	2450	30	200	56	100	350	15	22	14	313	262	1188	396	153	271	2597	-300	0	8392	6424	-1968
9	2622	0	50	60	105	0	0	0	20	15	0	250	2450	30	200	56	100	350	15	60	14	313	262	1188	396	153	271	2597	-300	0	8430	6320	-2110
10	2622	0	50	60	105	0	0	0	20	15	0	250	2450	30	200	56	100	350	15	100	14	313	262	1188	396	153	271	2597	-300	0	8470	6202	-2268
11	2622	0	50	60	105	0	0	0	20	15	0	250	2450	30	200	56	100	350	15	130	14	313	262	1188	396	153	271	2597	-300	0	8500	6059	-2441
12	2622	0	50	60	105	0	0	0	20	15	0	250	2450	30	200	56	100	350	15	190	14	313	262	1188	396	153	271	2597	-300	0	8560	6012	-2548
13	2622	0	50	60	105	0	0	0	20	15	0	250	2450	30	200	56	100	350	15	190	14	313	262	1188	396	153	271	2597	-473	0	8387	6008	-2379
14	2622	0	0	60	105	0	0	0	20	15	0	200	2450	30	200	56	100	350	15	150	14	313	262	1188	396	153	271	2597	-473	0	8297	6049	-2248
15	2622	0	0	60	105	0	0	0	20	15	0	200	2450	30	200	56	100	350	15	100	14	313	262	1188	396	153	271	2597	-473	0	8247	6068	-2179
16	2622	0	0	60	105	0	0	0	20	15	0	200	2450	30	200	56	100	350	15	60	14	313	262	1188	396	153	271	2597	-473	0	8207	6111	-2096
17	2622	0	0	60	105	0	0	0	20	15	0	200	2450	30	200	56	100	350	15	56	14	313	262	1188	396	153	271	2597	-473	0	8204	6110	-2094
18	2622	0	0	60	105	0	0	0	20	15	0	200	2450	30	200	56	100	350	15	25	14	313	262	1188	396	153	271	2597	-473	0	8172	6111	-2061
19	2622	0	0	60	210	0	0	0	20	15	0	305	2450	30	300	56	150	350	15	22	14	313	262	1188	396	153	271	2597	-400	0	8497	6599	-1898
20	2622	0	0	60	210	0	0	0	20	15	0	305	2450	30	300	56	150	350	15	22	14	313	262	1188	396	153	271	2597	-400	0	8497	7171	-1326
21	2622	0	0	60	210	0	0	0	20	15	0	305	2450	30	300	56	150	350	15	22	14	313	262	1188	396	153	271	2597	-400	0	8497	7047	-1450
22	2622	0	0	0	210	0	0	0	20	15	0	245	2450	30	300	56	150	350	15	22	14	313	262	1188	396	153	271	2597	-400	0	8437	6967	-1470
23	2622	0	0	0	105	0	0	0	20	15	0	140	2450	30	300	56	150	350	15	22	14	313	262	1188	396	153	271	2597	-473	0	8259	6901	-1358
24	2622	0	0	0	105	0	0	0	20	15	0	140	2450	30	200	56	100	350	15	22	14	313	262	1188	396	153	271	2597	-473	0	8109	6663	-1446
<b>Average</b>	2622	0	13	39	101	0	0	0	20	15	0	187	2450	30	171	56	85	350	15	57	14	313	262	1188	396	153	271	2597	-374	0	8246	6350	-1896
<b>LU/Day</b>	629	0	3	9	24	0	0	0	5	4	0	45	588	7	41	13	21	84	4	14	3	75	63	285	95	37	65	623	-90	0	1979	1524	-455
		0	9	27.9	72.45	0	0	0	14.4	10.8	0	134.6	1764	21.6	123	40.32	61.5	252	11	41	10	225	189	855	285	110	195	1870	-269	0	6135	4724.35	-1410.686

Anticipated Hourly Average Availability for the Month : July - 2015																																	
(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8,Jhabua-153 MW, Moser Bare-271 MW)																											Average MW						
Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking Ret.	Banking Adv.	Total Availability	DISCOM DEMAND	
																																Demand	Shortage(+) / Surplus(-)
1	2012	0	0	0	0	0	0	0	20	15	0	35	2200	30	0	18	0	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	6740	5953	-787
2	2012	0	0	0	0	0	0	0	20	15	0	35	2200	30	0	18	0	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	6740	5885	-855
3	2012	0	0	0	0	0	0	0	20	15	0	35	2200	30	0	18	0	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	6740	5795	-945
4	2012	0	0	0	0	0	0	0	20	15	0	35	2200	30	0	18	0	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	6740	5751	-989
5	2012	0	0	0	0	0	0	0	20	15	0	35	2200	30	0	18	0	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	6740	5741	-999
6	2012	0	0	30	105	0	0	0	20	15	0	170	2200	30	110	210	50	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	7227	5893	-1334
7	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	220	210	100	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	7417	5966	-1451
8	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	220	210	100	350	15	22	14	313	262	1188	396	153	271	2597	-539	0	7417	5914	-1503
9	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	330	210	150	350	15	60	14	313	262	1188	396	153	271	2597	-539	0	7615	5866	-1749
10	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	330	210	150	350	15	100	14	313	262	1188	396	153	271	2597	-539	0	7655	5765	-1890
11	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	330	210	150	350	15	130	14	313	262	1188	396	153	271	2597	-539	0	7685	5664	-2021
12	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	330	210	150	350	15	190	14	313	262	1188	396	153	271	2597	-539	0	7745	5561	-2184
13	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	0	18	0	350	15	190	14	313	262	1188	396	153	271	2597	-813	0	6799	5572	-1227
14	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	0	18	0	350	15	150	14	313	262	1188	396	153	271	2597	-813	0	6759	5579	-1180
15	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	0	18	0	350	15	100	14	313	262	1188	396	153	271	2597	-813	0	6709	5567	-1142
16	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	0	18	0	350	15	60	14	313	262	1188	396	153	271	2597	-813	0	6669	5598	-1071
17	2012	0	0	60	105	0	0	0	20	15	0	200	2200	30	0	18	0	350	15	56	14	313	262	1188	396	153	271	2597	-813	0	6666	5625	-1041
18	2012	0	50	60	105	20	0	0	20	15	0	270	2200	30	220	210	100	350	15	25	14	313	262	1188	396	153	271	2597	-813	0	7216	5628	-1588
19	2012	0	50	60	210	20	0	0	20	15	0	375	2200	30	550	210	250	350	15	22	14	313	262	1188	396	153	271	2597	-740	0	7871	6013	-1858
20	2012	0	50	60	210	20	0	0	20	15	0	375	2200	30	550	210	250	350	15	22	14	313	262	1188	396	153	271	2597	-924	0	7687	6555	-1132
21	2012	0	50	60	210	20	0	0	20	15	0	375	2200	30	440	210	200	350	15	22	14	313	262	1188	396	153	271	2597	-924	0	7527	6429	-1098
22	2012	0	50	0	210	0	0	0	20	15	0	295	2200	30	220	210	100	350	15	22	14	313	262	1188	396	153	271	2597	-924	0	7127	6378	-749
23	2012	0	0	0	105	0	0	0	20	15	0	140	2200	30	110	210	50	350	15	22	14	313	262	1188	396	153	271	2597	-996	0	6740	6240	-500
24	2012	0	0	0	105	0	0	0	20	15	0	140	2200	30	110	18	50	350	15	22	14	313	262	1188	396	153	271	2597	-813	0	6731	6044	-687
Average	2012	0	10	39	101	3	0	0	20	15	0	188	2200	30	170	122	77	350	15	57	14	313	262	1188	396	153	271	2597	-694	0	7124	5874	-1249
LU/Day	483	0	3	9	24	1	0	0	5	4	0	45	528	7	41	29	19	84	4	14	3	75	63	285	95	37	65	623	-167	0	1710	1410	-300
		0	7.75	28.83	74.87	2.48	0	0	14.9	11.16	0	140	1637	22.32	126.2	90.8	57.35	260	11	42	10	233	195	884	295	114	202	1932	-517	0	5299.9	4370.44	-929.4806



Anticipated Hourly Average Availability for the Month : August - 2015																																	
(BLA 14, JP BINA 156, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 247.5X0.8, Jhabua-153 MW, Moser Bare-271 MW)																												Average MW					
Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking		Total Availability	DISCOM DEMAND	
																																Demand	Shortage(+) / Surplus(-)
1	1850	0	0	90	0	0	0	0	15	15	0	120	2250	30	0	22	0	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	6362	6192	-170
2	1850	0	0	90	0	0	0	0	15	15	0	120	2250	30	0	22	0	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	6362	6107	-255
3	1850	0	0	90	0	0	0	0	15	15	0	120	2250	30	0	22	0	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	6362	6035	-327
4	1850	0	0	90	0	0	0	0	15	15	0	120	2250	30	0	22	0	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	6362	6021	-341
5	1850	0	0	90	0	0	0	0	15	15	0	120	2250	30	0	22	0	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	6362	5999	-363
6	1850	0	0	90	105	0	0	0	15	15	0	225	2250	30	124	210	50	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	6829	6125	-704
7	1850	0	0	90	210	20	0	0	15	15	0	350	2250	30	124	210	50	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	6954	6200	-754
8	1850	0	0	90	315	20	0	60	15	15	60	575	2250	30	372	210	150	350	15	22	14	156	262	1188	198	153	271	2242	-539	0	7527	6188	-1339
9	1850	0	0	90	315	20	30	60	15	15	60	605	2250	30	496	210	200	350	15	60	14	156	262	1188	198	153	271	2242	-539	0	7769	6169	-1600
10	1850	0	0	90	315	20	30	60	15	15	60	605	2250	30	496	210	200	350	15	100	14	156	262	1188	198	153	271	2242	-539	0	7809	6070	-1739
11	1850	0	0	90	210	20	30	0	15	15	0	380	2250	30	496	210	200	350	15	130	14	156	262	1188	198	153	271	2242	-539	0	7614	5922	-1692
12	1850	0	0	90	210	20	30	0	15	15	0	380	2250	30	496	210	200	350	15	190	14	156	262	1188	198	153	271	2242	-539	0	7674	5791	-1883
13	1850	0	0	90	105	20	30	0	15	15	0	275	2250	30	0	22	0	350	15	190	14	156	262	1188	198	153	271	2242	-740	0	6484	5713	-771
14	1850	0	0	90	105	0	0	0	15	15	0	225	2250	30	0	22	0	350	15	150	14	156	262	1188	198	153	271	2242	-740	0	6394	5686	-708
15	1850	0	0	90	105	0	0	0	15	15	0	225	2250	30	0	22	0	350	15	100	14	156	262	1188	198	153	271	2242	-740	0	6344	5684	-660
16	1850	0	0	90	105	0	0	0	15	15	0	225	2250	30	0	22	0	350	15	60	14	156	262	1188	198	153	271	2242	-740	0	6304	5749	-555
17	1850	0	0	90	105	0	0	0	15	15	0	225	2250	30	0	22	0	350	15	56	14	156	262	1188	198	153	271	2242	-740	0	6300	5833	-467
18	1850	0	50	90	105	0	0	60	15	15	0	335	2250	30	124	510	50	350	15	25	14	156	262	1188	198	153	271	2242	-740	0	7041	5931	-1110
19	1850	0	100	90	210	0	0	60	15	15	60	550	2250	30	496	510	200	350	15	22	14	156	262	1188	198	153	271	2242	-740	0	7775	6503	-1272
20	1850	0	100	90	315	20	0	60	15	15	60	675	2250	30	496	510	200	350	15	22	14	156	262	1188	198	153	271	2242	-740	0	7900	6853	-1047
21	1850	0	100	90	315	20	0	60	15	15	60	675	2250	30	372	510	150	350	15	22	14	156	262	1188	198	153	271	2242	-740	0	7726	6776	-950
22	1850	0	100	90	210	20	0	60	15	15	0	510	2250	30	372	510	150	350	15	22	14	156	262	1188	198	153	271	2242	-740	0	7561	6709	-852
23	1850	0	50	90	210	20	0	0	15	15	0	400	2250	30	372	210	150	350	15	22	14	156	262	1188	198	153	271	2242	-740	0	7151	6527	-624
24	1850	0	50	90	210	0	0	0	15	15	0	380	2250	30	372	18	150	350	15	22	14	156	262	1188	198	153	271	2242	-740	0	6939	6270	-669
<b>Average</b>	1850	0	23	90	158	9	6	20	15	15	15	351	2250	30	217	186	88	350	15	57	14	156	262	1188	198	153	271	2242	-639	0	6996	6127	-869
<b>LU/Day</b>	444	0	6	22	38	2	2	5	4	4	4	84	540	7	52	45	21	84	4	14	3	37	63	285	48	37	65	538	-153	0	1679	1471	-209
		0	17.05	66.96	117.2	6.82	4.65	14.9	11.2	11.16	11.16	261	1674	22.32	161.4	138.5	65.1	260	11	42	10	116	195	884	147	114	202	1668	-476	0	5205.1	4558.64	-646.4264

Anticipated Hourly Average Availability for the Month : September - 2015																																	
(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8,Jhabua-153 MW, Moser Bare-271 MW)																												Average MW		Total Availability	DISCOM DEMAND		
Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking		Demand	Shortage(+) / Surplus(-)	
1	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	248	22	100	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7326	6890	-436
2	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	248	22	100	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7326	6795	-531
3	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	248	22	100	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7326	6735	-591
4	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	248	22	100	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7326	6702	-624
5	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	248	22	100	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7326	6696	-630
6	1801	0	50	90	105	0	0	60	30	20	0	355	2250	30	248	210	100	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7564	6902	-662
7	1801	0	50	90	210	20	0	60	30	20	0	480	2250	30	248	210	100	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7689	7120	-569
8	1801	0	50	90	315	20	0	60	30	20	0	585	2250	30	372	210	150	350	15	22	14	313	262	1188	396	153	271	2597	-414	0	7968	7077	-891
9	1801	0	50	90	315	20	30	60	30	20	0	615	2250	30	496	210	200	350	15	60	14	313	262	1188	396	153	271	2597	-414	0	8210	6994	-1216
10	1801	0	50	90	315	20	30	60	30	20	0	615	2250	30	496	210	200	350	15	100	14	313	262	1188	396	153	271	2597	-414	0	8250	6797	-1453
11	1801	0	50	90	210	20	30	60	30	20	0	510	2250	30	496	210	200	350	15	130	14	313	262	1188	396	153	271	2597	-414	0	8175	6401	-1774
12	1801	0	50	90	210	20	30	60	30	20	0	510	2250	30	496	210	200	350	15	190	14	313	262	1188	396	153	271	2597	-414	0	8235	6320	-1915
13	1801	0	50	90	105	20	30	60	30	20	0	405	2250	30	496	22	200	350	15	190	14	313	262	1188	396	153	271	2597	-614	0	7742	6385	-1357
14	1801	0	50	90	105	0	0	60	30	20	0	355	2250	30	248	22	100	350	15	150	14	313	262	1188	396	153	271	2597	-614	0	7304	6465	-839
15	1801	0	50	90	105	0	0	60	30	20	0	355	2250	30	248	22	100	350	15	100	14	313	262	1188	396	153	271	2597	-614	0	7254	6496	-758
16	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	248	22	100	350	15	60	14	313	262	1188	396	153	271	2597	-614	0	7164	6554	-610
17	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	248	22	100	350	15	56	14	313	262	1188	396	153	271	2597	-614	0	7160	6463	-697
18	1801	0	0	90	105	0	0	60	30	20	0	305	2250	30	372	510	150	350	15	25	14	313	262	1188	396	153	271	2597	-614	0	7791	6584	-1207
19	1801	110	50	90	315	20	0	60	30	20	60	755	2250	30	496	510	200	350	15	22	14	313	262	1188	396	153	271	2597	-614	0	8412	7593	-819
20	1801	110	100	90	315	20	0	60	30	20	60	805	2250	30	496	510	200	350	15	22	14	313	262	1188	396	153	271	2597	-668	0	8408	7502	-906
21	1801	110	100	90	315	20	0	60	30	20	60	805	2250	30	496	510	200	350	15	22	14	313	262	1188	396	153	271	2597	-668	0	8408	7306	-1102
22	1801	110	100	90	315	20	0	60	30	20	60	805	2250	30	372	510	150	350	15	22	14	313	262	1188	396	153	271	2597	-668	0	8234	7420	-814
23	1801	110	50	90	315	20	0	60	30	20	0	695	2250	30	372	210	150	350	15	22	14	313	262	1188	396	153	271	2597	-668	0	7824	7442	-382
24	1801	110	50	90	315	0	0	60	30	20	0	675	2250	30	372	18	150	350	15	22	14	313	262	1188	396	153	271	2597	-614	0	7666	7154	-512
Average	1801	28	40	90	197	10	6	60	30	20	10	490	2250	30	357	186	144	350	15	57	14	313	262	1188	396	153	271	2597	-523	0	7754	6866	-887
LU/Day	432	7	10	22	47	2	2	14	7	5	2	118	540	7	86	45	35	84	4	14	3	75	63	285	95	37	65	623	-126	0	1861	1648	-213
		19.8	28.5	64.8	141.8	7.2	4.5	43.2	21.6	14.4	7.2	353	1620	21.6	256.7	134	103.5	252	11	41	10	225	189	855	285	110	195	1870	-377	0	5582.6	4943.79	-638.8485

**Anticipated Hourly Average Availability for the Month : October - 2015**

**(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8, Jhabua-153 MW, Moser Bare-271 MW)**

**Average MW**

Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking		Total Availability	DISCOM DEMAND	
																																Demand	Shortge(+) / Surplus(-)
1	2453	0	50	90	105	0	0	0	30	20	0	295	2325	30	124	22	50	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8470	8076	-394
2	2453	0	0	90	105	0	0	0	30	20	0	245	2325	30	0	22	0	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8246	7878	-368
3	2453	0	0	90	105	0	0	0	30	20	0	245	2325	30	0	22	0	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8246	7864	-382
4	2453	0	0	90	105	0	0	0	30	20	0	245	2325	30	0	22	0	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8246	7890	-356
5	2453	0	0	90	105	0	0	0	30	20	0	245	2325	30	0	22	0	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8246	7740	-506
6	2453	0	50	90	105	0	0	0	30	20	0	295	2325	30	124	210	50	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8658	7988	-670
7	2453	0	100	90	210	0	0	0	30	20	0	450	2325	30	124	210	50	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8813	8258	-555
8	2453	0	100	90	315	0	0	0	30	20	0	555	2325	30	372	210	150	350	15	22	14	313	262	1188	396	153	271	2597	187	0	9266	8425	-841
9	2453	0	100	90	315	0	30	0	30	20	0	585	2325	30	620	210	250	350	15	60	14	313	262	1188	396	153	271	2597	187	0	9682	8426	-1256
10	2453	0	100	90	315	0	30	0	30	20	0	585	2325	30	620	210	250	350	15	100	14	313	262	1188	396	153	271	2597	187	0	9722	8340	-1382
11	2453	0	100	90	210	0	30	0	30	20	0	480	2325	30	620	210	250	350	15	130	14	313	262	1188	396	153	271	2597	187	0	9647	8114	-1533
12	2453	0	100	90	210	0	30	0	30	20	0	480	2325	30	620	210	250	350	15	190	14	313	262	1188	396	153	271	2597	187	0	9707	7850	-1857
13	2453	0	50	90	105	0	30	0	30	20	0	325	2325	30	496	22	200	350	15	190	14	313	262	1188	396	153	271	2597	187	0	9190	8097	-1093
14	2453	0	50	90	105	0	0	0	30	20	0	295	2325	30	248	22	100	350	15	150	14	313	262	1188	396	153	271	2597	187	0	8772	8037	-735
15	2453	0	50	90	105	0	0	0	30	20	0	295	2325	30	248	22	100	350	15	100	14	313	262	1188	396	153	271	2597	187	0	8722	8080	-642
16	2453	0	0	90	105	0	0	0	30	20	0	245	2325	30	248	22	100	350	15	60	14	313	262	1188	396	153	271	2597	187	0	8632	8077	-555
17	2453	0	0	90	105	0	0	0	30	20	0	245	2325	30	248	22	100	350	15	56	14	313	262	1188	396	153	271	2597	187	0	8628	7854	-774
18	2453	0	0	90	105	0	0	0	30	20	0	245	2325	30	248	510	100	350	15	25	14	313	262	1188	396	153	271	2597	187	0	9085	7387	-1698
19	2453	110	50	90	210	20	0	0	30	20	60	590	2325	30	620	510	250	350	15	22	14	313	262	1188	396	153	271	2597	187	0	9949	7814	-2135
20	2453	110	100	90	315	20	0	0	30	20	60	745	2325	30	620	510	250	350	15	22	14	313	262	1188	396	153	271	2597	187	0	10104	7877	-2227
21	2453	110	100	90	315	20	0	0	30	20	60	745	2325	30	496	510	200	350	15	22	14	313	262	1188	396	153	271	2597	187	0	9930	7772	-2158
22	2453	0	100	90	210	20	0	0	30	20	60	530	2325	30	372	510	150	350	15	22	14	313	262	1188	396	153	271	2597	187	0	9541	8345	-1196
23	2453	0	50	90	210	20	0	0	30	20	60	480	2325	30	248	210	100	350	15	22	14	313	262	1188	396	153	271	2597	187	0	9017	8788	-229
24	2453	0	50	90	210	20	0	0	30	20	60	480	2325	30	248	18	100	350	15	22	14	313	262	1188	396	153	271	2597	187	0	8825	8627	-198
<b>Average</b>	2453	14	54	90	179	5	6	0	30	20	15	414	2325	30	315	186	127	350	15	57	14	313	262	1188	396	153	271	2597	187	0	9056	8067	-989
<b>LU/Day</b>	589	3	13	22	43	1	2	0	7	5	4	99	558	7	76	45	31	84	4	14	3	75	63	285	95	37	65	623	45	0	2173	1936	-237
		10.2	40.3	66.96	133.5	3.72	4.65	0	22.3	14.88	11.16	307.7	1730	22.32	234.5	138.5	94.55	260	11	42	10	233	195	884	295	114	202	1932	139	0	6737.6	6001.72	-735.9136

**Anticipated Hourly Average Availability for the Month : November - 2015**

**(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8, Jhabua-153 MW, Moser Bare-271 MW)**

**Average MW**

Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking		Total Availability	DISCOM DEMAND	
																																Demand	Shortage(+) / Surplus(-)
1	2600	110	50	90	210	0	30	0	30	20	0	540	2450	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9398	9303	-95
2	2600	110	0	90	210	0	30	0	30	20	0	490	2450	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9348	8902	-446
3	2600	0	0	90	105	0	30	0	30	20	0	275	2450	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9133	8943	-190
4	2600	0	0	90	105	0	30	0	30	20	0	275	2450	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9133	8880	-253
5	2600	0	0	90	105	0	30	0	30	20	0	275	2450	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9133	8914	-219
6	2600	110	0	90	105	0	30	0	30	20	0	385	2450	30	248	210	100	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9393	9533	140
7	2600	110	50	90	210	0	30	0	30	20	0	540	2450	30	372	450	150	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9962	9871	-91
8	2600	110	50	90	315	0	30	0	30	20	60	705	2450	30	496	510	200	350	15	22	14	313	262	1188	396	153	271	2597	386	0	10361	10288	-73
9	2600	110	100	90	315	0	30	0	30	20	60	755	2450	30	496	510	200	350	15	60	14	313	262	1188	396	153	271	2597	386	0	10449	10270	-179
10	2600	110	100	90	315	0	30	0	30	20	60	755	2450	30	496	510	200	350	15	100	14	313	262	1188	396	153	271	2597	386	0	10489	10190	-299
11	2600	110	100	90	210	0	30	0	30	20	0	590	2450	30	496	510	200	350	15	130	14	313	262	1188	396	153	271	2597	386	0	10354	10000	-354
12	2600	110	100	90	210	0	30	0	30	20	0	590	2450	30	496	330	200	350	15	190	14	313	262	1188	396	153	271	2597	386	0	10234	9524	-710
13	2600	110	50	90	105	0	30	0	30	20	0	435	2450	30	496	330	200	350	15	190	14	313	262	1188	396	153	271	2597	386	0	10079	9798	-281
14	2600	110	50	90	105	0	30	0	30	20	0	435	2450	30	496	330	200	350	15	150	14	313	262	1188	396	153	271	2597	386	0	10039	9966	-73
15	2600	110	50	90	105	0	30	0	30	20	0	435	2450	30	744	330	300	350	15	100	14	313	262	1188	396	153	271	2597	386	0	10337	10095	-242
16	2600	0	50	90	105	0	30	0	30	20	0	325	2450	30	744	330	300	350	15	60	14	313	262	1188	396	153	271	2597	386	0	10187	10086	-101
17	2600	0	50	90	105	0	30	0	30	20	0	325	2450	30	496	210	200	350	15	56	14	313	262	1188	396	153	271	2597	386	0	9715	9605	-110
18	2600	0	50	90	105	0	30	0	30	20	0	325	2450	30	124	60	50	350	15	25	14	313	262	1188	396	153	271	2597	386	0	9012	8382	-630
19	2600	110	100	90	210	0	30	0	30	20	0	590	2450	30	0	60	0	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9100	8627	-473
20	2600	110	100	90	315	0	30	0	30	20	0	695	2450	30	0	60	0	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9205	8495	-710
21	2600	110	100	90	315	0	30	0	30	20	60	755	2450	30	0	60	0	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9265	8540	-725
22	2600	110	100	90	315	0	30	0	30	20	60	755	2450	30	496	60	200	350	15	22	14	313	262	1188	396	153	271	2597	386	0	9961	9381	-580
23	2600	110	100	90	315	0	30	0	30	20	60	755	2450	30	868	60	350	350	15	22	14	313	262	1188	396	153	271	2597	386	0	10483	10360	-123
24	2600	110	100	90	315	0	30	0	30	20	60	755	2450	30	620	60	350	350	15	22	14	313	262	1188	396	153	271	2597	386	0	10235	10047	-188
<b>Average</b>	2600	83	60	90	201	0	30	0	30	20	18	532	2450	30	393	220	163	350	15	57	14	313	262	1188	396	153	271	2597	386	0	9792	9500	-292
<b>LU/Day</b>	624	20	15	22	48	0	7	0	7	5	4	128	588	7	94	53	39	84	4	14	3	75	63	285	95	37	65	623	93	0	2350.2	2280	-70
		59.4	43.5	64.8	144.9	0	21.6	0	21.6	14.4	12.6	382.8	1764	21.6	282.7	158.4	117	252	11	41	10	225	189	855	285	110	195	1870	278	0	7050.2	6840	-210.1575

**Anticipated Hourly Average Availability for the Month : December - 2015**

**(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8, Jhabua-153 MW, Moser Bare-271 MW)**

**Average MW**

Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking	Total Availability	DISCOM DEMAND	
																															Demand	Shortage(+) / Surplus(-)
1	2600	110	50	90	210	0	0	0	30	20	0	510	2550	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	374	9456	9349	-107
2	2600	110	50	90	210	0	0	0	30	20	0	510	2550	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	374	9456	8915	-541
3	2600	110	50	90	105	0	0	0	30	20	0	405	2550	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	374	9351	9055	-296
4	2600	110	50	90	105	0	0	0	30	20	0	405	2550	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	374	9351	8870	-481
5	2600	110	50	90	105	0	0	0	30	20	0	405	2550	30	248	60	100	350	15	22	14	313	262	1188	396	153	271	2597	374	9351	8902	-449
6	2600	110	50	90	105	0	0	0	30	20	0	405	2550	30	248	210	100	350	15	22	14	313	262	1188	396	153	271	2597	374	9501	9251	-250
7	2600	110	50	90	210	0	0	0	30	20	0	510	2550	30	496	450	200	350	15	22	14	313	262	1188	396	153	271	2597	374	10194	10049	-145
8	2600	110	50	90	315	0	0	0	30	20	60	675	2550	30	620	510	250	350	15	22	14	313	262	1188	396	153	271	2597	374	10593	10359	-234
9	2600	110	100	90	315	0	30	0	30	20	60	755	2550	30	620	510	250	350	15	60	14	313	262	1188	396	153	271	2597	374	10711	10489	-222
10	2600	110	100	90	315	0	30	0	30	20	60	755	2550	30	620	510	250	350	15	100	14	313	262	1188	396	153	271	2597	374	10751	10439	-312
11	2600	110	100	90	210	0	30	0	30	20	0	590	2550	30	496	510	200	350	15	130	14	313	262	1188	396	153	271	2597	374	10442	10249	-193
12	2600	110	100	90	210	0	30	0	30	20	0	590	2550	30	496	330	200	350	15	190	14	313	262	1188	396	153	271	2597	374	10322	9787	-535
13	2600	110	50	90	105	0	30	0	30	20	0	435	2550	30	496	330	200	350	15	190	14	313	262	1188	396	153	271	2597	374	10167	9993	-174
14	2600	110	50	90	105	0	0	0	30	20	0	405	2550	30	496	330	200	350	15	150	14	313	262	1188	396	153	271	2597	374	10097	10042	-55
15	2600	110	50	90	105	0	0	0	30	20	0	405	2550	30	744	330	300	350	15	100	14	313	262	1188	396	153	271	2597	374	10395	10291	-104
16	2600	110	0	90	105	0	0	0	30	20	0	355	2550	30	744	330	300	350	15	60	14	313	262	1188	396	153	271	2597	374	10305	10282	-23
17	2600	110	0	90	105	0	0	0	30	20	0	355	2550	30	496	210	200	350	15	56	14	313	262	1188	396	153	271	2597	374	9833	9798	-35
18	2600	110	0	45	105	0	0	0	30	20	0	310	2550	30	124	60	50	350	15	25	14	313	262	1188	396	153	271	2597	374	9085	8375	-710
19	2600	110	0	45	105	0	0	0	30	20	60	370	2550	30	0	60	0	350	15	22	14	313	262	1188	396	153	271	2597	374	8968	8791	-177
20	2600	110	0	45	105	0	0	0	30	20	60	370	2550	30	0	60	0	350	15	22	14	313	262	1188	396	153	271	2597	374	8968	8659	-309
21	2600	110	0	45	105	0	0	0	30	20	60	370	2550	30	0	60	0	350	15	22	14	313	262	1188	396	153	271	2597	374	8968	8533	-435
22	2600	110	100	90	315	0	0	0	30	20	60	725	2550	30	496	60	200	350	15	22	14	313	262	1188	396	153	271	2597	374	10019	9375	-644
23	2600	110	100	90	315	0	0	0	30	20	60	725	2550	30	868	60	350	350	15	22	14	313	262	1188	396	153	271	2597	374	10541	10442	-99
24	2600	110	100	90	315	0	0	0	30	20	60	725	2550	30	620	60	350	350	15	22	14	313	262	1188	396	153	271	2597	374	10293	10153	-140
<b>Average</b>	2600	110	52	83	179	0	6	0	30	20	23	503	2550	30	413	220	171	350	15	57	14	313	262	1188	396	153	271	2597	374	9880	9602	-278
<b>LU/Day</b>	624	26	13	20	43	0	2	0	7	5	5	121	612	7	99	53	41	84	4	14	3	75	63	285	95	37	65	623	90	2371	2304	-67
	81.84	38.75	61.38	133.5	0	4.65	0	22.3	14.88	16.74	374	1897	22.32	307.5	163.7	127.1	260	11	42	10	233	195	884	295	114	202	1932	278	7350.7	7143.89	-206.77775	

**Anticipated Hourly Average Availability for the Month : January - 2016**

**(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8, Jhabua-153 MW, Moser Bare-271 MW)**

**Average MW**

Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking	Total Availability	DISCOM DEMAND	
																															Demand	Shortage(+) / Surplus(-)
1	2600	110	50	45	0	0	0	0	30	20	0	255	2400	30	248	22	100	350	15	22	14	313	262	1188	396	153	271	2597	8639	8524	-115	
2	2600	110	50	45	0	0	0	0	30	20	0	255	2400	30	124	22	50	350	15	22	14	313	262	1188	396	153	271	2597	8465	8275	-190	
3	2600	110	50	45	0	0	0	0	30	20	0	255	2400	30	124	22	50	350	15	22	14	313	262	1188	396	153	271	2597	8465	8227	-238	
4	2600	110	50	45	0	0	0	0	30	20	0	255	2400	30	124	22	50	350	15	22	14	313	262	1188	396	153	271	2597	8465	8274	-191	
5	2600	110	50	45	0	0	0	0	30	20	0	255	2400	30	124	22	50	350	15	22	14	313	262	1188	396	153	271	2597	8465	8350	-115	
6	2600	110	50	45	105	0	0	0	30	20	0	360	2400	30	372	210	150	350	15	22	14	313	262	1188	396	153	271	2597	9106	8510	-596	
7	2600	110	50	45	210	0	0	0	30	20	0	465	2400	30	496	410	200	350	15	22	14	313	262	1188	396	153	271	2597	9585	9448	-137	
8	2600	110	50	45	315	0	0	0	30	20	60	630	2400	30	620	410	250	350	15	22	14	313	262	1188	396	153	271	2597	9924	9782	-142	
9	2600	110	100	45	315	0	30	0	30	20	60	710	2400	30	620	410	250	350	15	60	14	313	262	1188	396	153	271	2597	10042	9666	-376	
10	2600	110	100	45	315	0	30	0	30	20	60	710	2400	30	620	410	250	350	15	100	14	313	262	1188	396	153	271	2597	10082	9696	-386	
11	2600	110	100	45	210	0	30	0	30	20	0	545	2400	30	496	410	200	350	15	130	14	313	262	1188	396	153	271	2597	9773	9505	-268	
12	2600	110	100	45	210	0	30	0	30	20	0	545	2400	30	496	210	150	350	15	190	14	313	262	1188	396	153	271	2597	9583	9014	-569	
13	2600	110	50	45	105	0	30	0	30	20	0	390	2400	30	496	56	200	350	15	190	14	313	262	1188	396	153	271	2597	9324	9297	-27	
14	2600	110	50	45	105	0	0	0	30	20	0	360	2400	30	744	56	300	350	15	150	14	313	262	1188	396	153	271	2597	9602	9303	-299	
15	2600	110	50	45	105	0	0	0	30	20	0	360	2400	30	744	56	300	350	15	100	14	313	262	1188	396	153	271	2597	9552	9312	-240	
16	2600	110	50	45	105	0	0	0	30	20	0	360	2400	30	868	56	350	350	15	60	14	313	262	1188	396	153	271	2597	9686	9325	-361	
17	2600	110	50	45	105	0	0	0	30	20	0	360	2400	30	620	56	250	350	15	56	14	313	262	1188	396	153	271	2597	9334	9205	-129	
18	2600	110	50	45	0	0	0	0	30	20	0	255	2400	30	0	56	0	350	15	25	14	313	262	1188	396	153	271	2597	8328	8068	-260	
19	2600	110	50	45	0	0	0	0	30	20	60	315	2400	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8385	8385	0	
20	2600	110	50	45	0	0	0	0	30	20	60	315	2400	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8385	8233	-152	
21	2600	110	50	45	0	0	0	0	30	20	60	315	2400	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8385	8117	-268	
22	2600	110	100	45	315	0	0	0	30	20	60	680	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8924	8858	-66	
23	2600	110	100	45	315	0	0	0	30	20	60	680	2400	30	620	56	300	350	15	22	14	313	262	1188	396	153	271	2597	9670	9646	-24	
24	2600	110	100	45	315	0	0	0	30	20	60	680	2400	30	620	56	300	350	15	22	14	313	262	1188	396	153	271	2597	9670	9347	-323	
<b>Average</b>	2600	110	65	45	131	0	6	0	30	20	23	430	2400	30	388	135	158	350	15	57	14	313	262	1188	396	153	271	2597	#DIV/0!	9160	8932	-228
<b>LU/Day</b>	624	26	16	11	32	0	2	0	7	5	5	103	576	7	93	33	38	84	4	14	3	75	63	285	95	37	65	623	0	2198	2144	-55
	81.84	48.05	33.48	97.65	0	4.65	0	22.3	14.88	16.74	319.6	1786	22.32	288.3	100.8	117.8	260	11	42	10	233	195	884	295	114	202	1932	0	6815	6645.38	-169.6056	

**Anticipated Hourly Average Availability for the Month : February - 2016**

**(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8, Jhabua-153 MW, Moser Bare-271 MW)**

**Average MW**

Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking	Total Availability	DISCOM DEMAND	
																															Demand	Shortage(+) / Surplus(-)
1	2600	110	0	44	0	0	0	0	20	15	0	189	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8309	7833	-476	
2	2600	110	0	44	0	0	0	0	20	15	0	189	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8309	7512	-797	
3	2600	110	0	44	0	0	0	0	20	15	0	189	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8309	7568	-741	
4	2600	110	0	44	0	0	0	0	20	15	0	189	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8309	7658	-651	
5	2600	110	0	44	0	0	0	0	20	15	0	189	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8309	7720	-589	
6	2600	110	0	44	0	0	0	0	20	15	0	189	2450	30	124	210	50	350	15	22	14	313	262	1188	396	153	271	2597	8637	8041	-596	
7	2600	110	50	88	210	0	0	0	20	15	0	493	2450	30	496	410	200	350	15	22	14	313	262	1188	396	153	271	2597	9663	8779	-884	
8	2600	110	50	88	315	0	0	0	20	15	60	658	2450	30	496	410	200	350	15	22	14	313	262	1188	396	153	271	2597	9828	9175	-653	
9	2600	110	100	88	315	0	0	0	20	15	60	708	2450	30	496	410	200	350	15	60	14	313	262	1188	396	153	271	2597	9916	9152	-764	
10	2600	110	100	88	315	0	0	0	20	15	60	708	2450	30	496	410	200	350	15	100	14	313	262	1188	396	153	271	2597	9956	9122	-834	
11	2600	110	50	88	210	0	0	0	20	15	60	553	2450	30	496	410	200	350	15	130	14	313	262	1188	396	153	271	2597	9831	8982	-849	
12	2600	110	0	88	210	0	0	0	20	15	0	443	2450	30	372	56	150	350	15	190	14	313	262	1188	396	153	271	2597	9253	8356	-897	
13	2600	110	0	88	105	0	0	0	20	15	0	338	2450	30	372	56	150	350	15	190	14	313	262	1188	396	153	271	2597	9148	8504	-644	
14	2600	110	0	88	105	0	0	0	20	15	0	338	2450	30	372	56	150	350	15	150	14	313	262	1188	396	153	271	2597	9108	8457	-651	
15	2600	110	0	88	105	0	0	0	20	15	0	338	2450	30	372	56	150	350	15	100	14	313	262	1188	396	153	271	2597	9058	8466	-592	
16	2600	110	0	88	105	0	0	0	20	15	0	338	2450	30	372	56	150	350	15	60	14	313	262	1188	396	153	271	2597	9018	8543	-475	
17	2600	110	0	88	105	0	0	0	20	15	0	338	2450	30	372	56	150	350	15	56	14	313	262	1188	396	153	271	2597	9014	8467	-547	
18	2600	110	0	45	105	0	0	0	20	15	0	295	2450	30	0	56	0	350	15	25	14	313	262	1188	396	153	271	2597	8418	7672	-746	
19	2600	110	0	45	105	0	0	0	20	15	0	295	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8415	8087	-328	
20	2600	110	0	45	105	0	0	0	20	15	0	295	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8415	7945	-470	
21	2600	110	0	45	0	0	0	0	20	15	0	190	2450	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8310	7830	-480	
22	2600	110	50	88	0	0	0	0	20	15	0	283	2450	30	248	56	100	350	15	22	14	313	262	1188	396	153	271	2597	8751	8501	-250	
23	2600	110	50	88	0	0	0	0	20	15	0	283	2450	30	620	56	250	350	15	22	14	313	262	1188	396	153	271	2597	9273	9000	-273	
24	2600	110	50	88	0	0	0	0	20	15	0	283	2450	30	372	56	150	350	15	22	14	313	262	1188	396	153	271	2597	8925	8686	-239	
<b>Average</b>	2600	110	21	70	101	0	0	0	20	15	10	346	2450	30	253	136	102	350	15	57	14	313	262	1188	396	153	271	2597	#DIV/0!	8937	8336	-601
<b>LU/Day</b>	624	26	5	17	24	0	0	0	5	4	2	83	588	7	61	33	25	84	4	14	3	75	63	285	95	37	65	623	0	2145	2001	-144

81.84 15.5 51.956 74.87 0 0 0 14.9 11.16 7.44 257.6 1823 22.32 188.4 101.3 75.95 260 11 42 10 233 195 884 295 114 202 1932 0 6648.9 6201.74 -447.21375 0

**Anticipated Hourly Average Availability for the Month :March - 2016**

**(BLA 14, JP BINA 313, LANCO 262, SASAN-6X247.5X0.90, JP NIGRI 495X0.8,Jhabua-153 MW, Moser Bare-271 MW) Average MW**

Hrs	Thermal	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	Jhabua Power	MOSER BARE	IPP	Banking	Total Availability	DISCOM DEMAND	
																															Demand	Shortge(+)/ Surplus(-)
1	2600	0	0	44	0	0	0	0	20	15	0	79	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8323	7389	-934	
2	2600	0	0	44	0	0	0	0	20	15	0	79	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8323	7203	-1120	
3	2600	0	0	44	0	0	0	0	20	15	0	79	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8323	7113	-1210	
4	2600	0	0	44	0	0	0	0	20	15	0	79	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8323	7224	-1099	
5	2600	0	0	44	0	0	0	0	20	15	0	79	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8323	7241	-1082	
6	2600	0	0	44	0	0	0	0	20	15	0	79	2400	30	372	56	150	350	15	22	14	313	262	1188	396	153	271	2597	8671	7422	-1249	
7	2600	110	50	88	210	0	0	0	20	15	0	493	2400	30	372	56	150	350	15	22	14	313	262	1188	396	153	271	2597	9085	7790	-1295	
8	2600	110	50	88	315	0	0	0	20	15	60	658	2400	30	372	56	150	350	15	22	14	313	262	1188	396	153	271	2597	9250	8001	-1249	
9	2600	110	100	88	315	0	0	0	20	15	60	708	2400	30	372	56	150	350	15	60	14	313	262	1188	396	153	271	2597	9338	7871	-1467	
10	2600	110	100	88	315	0	0	0	20	15	60	708	2400	30	372	56	150	350	15	100	14	313	262	1188	396	153	271	2597	9378	7821	-1557	
11	2600	110	50	88	210	0	0	0	20	15	60	553	2400	30	372	56	150	350	15	130	14	313	262	1188	396	153	271	2597	9253	7641	-1612	
12	2600	0	50	88	210	0	0	0	20	15	0	383	2400	30	372	56	150	350	15	190	14	313	262	1188	396	153	271	2597	9143	7246	-1897	
13	2600	0	50	88	105	0	0	0	20	15	0	278	2400	30	372	56	150	350	15	190	14	313	262	1188	396	153	271	2597	9038	7441	-1597	
14	2600	0	50	88	105	0	0	0	20	15	0	278	2400	30	372	56	150	350	15	150	14	313	262	1188	396	153	271	2597	8998	7400	-1598	
15	2600	0	50	88	105	0	0	0	20	15	0	278	2400	30	372	56	150	350	15	100	14	313	262	1188	396	153	271	2597	8948	7300	-1648	
16	2600	0	50	88	105	0	0	0	20	15	0	278	2400	30	372	56	150	350	15	60	14	313	262	1188	396	153	271	2597	8908	7130	-1778	
17	2600	0	50	88	105	0	0	0	20	15	0	278	2400	30	372	56	150	350	15	56	14	313	262	1188	396	153	271	2597	8904	7307	-1597	
18	2600	0	0	45	105	0	0	0	20	15	0	185	2400	30	0	56	0	350	15	25	14	313	262	1188	396	153	271	2597	8258	7378	-880	
19	2600	0	0	45	105	0	0	0	20	15	0	185	2400	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8255	7845	-410	
20	2600	0	0	45	105	0	0	0	20	15	0	185	2400	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8255	7953	-302	
21	2600	0	0	45	0	0	0	0	20	15	0	80	2400	30	0	56	0	350	15	22	14	313	262	1188	396	153	271	2597	8150	7827	-323	
22	2600	0	0	45	0	0	0	0	20	15	0	80	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8324	8068	-256	
23	2600	0	0	45	0	0	0	0	20	15	0	80	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8324	8034	-290	
24	2600	0	0	45	0	0	0	0	20	15	0	80	2400	30	124	56	50	350	15	22	14	313	262	1188	396	153	271	2597	8324	7762	-562	
<b>Average</b>	2600	23	27	64	101	0	0	0	20	15	10	260	2400	30	227	56	92	350	15	57	14	313	262	1188	396	153	271	2597	#DIV/0!	8684	7559	-1126
<b>LU/Day</b>	624	6	7	15	24	0	0	0	5	4	2	62	576	7	55	13	22	84	4	14	3	75	63	285	95	37	65	623	0	2084	1814	-270

17.05 20.15 47.957 74.87 0 0 0 14.9 11.16 7.44 193.5 1786 22.32 169.1 41.66 68.2 260 11 42 10 233 195 884 295 114 202 1932 0 6461 5623.62 -837.37975 0



PROPOSED SHUT DOWN PROGRAMME OF 400KV EQUIPMENTS/FEEDER DURING 20-02-2015 TO 19-03-2015									
S-NO-	NAME OF 400KV SUBSTATION	NAME OF EQUIPMENT/FEEDER	CIRCUIT NO-	DATE	PERIOD OF SHUTDOWN		DURATION IN HRS-	MAINTAINANCE WORK PROPOSED	REMARKS
					FROM	TO			
<b>400 KV TRANSFORMERS/REACTORS/FEEDER BAYS OF 400KV SUBSTATION</b>									
1	400KV S/S BINA	315 MVA XMER 1	-	16-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
2	400KV S/S BINA	315 MVA XMER 1	-	17-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
3	400KV S/S BINA	315 MVA XMER 2	-	18-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
4	400KV S/S BINA	315 MVA XMER 2	-	19-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
5	400KV S/S BINA	BUS REACTOR	-	2-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
6	400KV S/S BINA	LINE REACTOR -1	-	3-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
7	400KV S/S BINA	LINE REACTOR -2	-	4-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
8	400 KV S/S BHOPAL	315 MVA Transformer No. 1	-	3-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
9	400 KV S/S BHOPAL	315 MVA Transformer No. 1 & BDTCL 1 Tie	-	5-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
10	400 KV S/S BHOPAL	315 MVA Transformer No. 2	-	9-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
11	400 KV S/S BHOPAL	315 MVA Transformer No. 2 & BDTCL 2 Tie	-	11-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
12	400 KV S/S BHOPAL	400 KV Itarsi 1	-	18-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
13	400 KV S/S BHOPAL	400 KV Itarsi 2	-	19-Mar-15	9.00	17.00	8.00	PREMONSOON MAINTENANCE	
<b>400 KV LINES</b>									
1	-	400 KV Indore-Nagda	-	9-Mar-15	9.00	16.00	7.00	Maintenance Work	
2	-	400 KV ISP-Nagda	-	27-Feb-15	9.00	16.00	7.00	Maintenance Work	
3	-	400 KV Rajgarh-SSP	I	24-Feb-15	6.00	18.00	12:00	Maintenance Work	
4	-	400 KV Rajgarh-SSP	II	25-Feb-15	6.00	18.00	12:00	Maintenance Work	
5	-	400 KV Birsinghpur-Katni Line	I	11-Mar-15	9.00	18.00	9.00	Maintenance Work	
6	-	400 KV Birsinghpur-Katni Line	II	18-Mar-15	9.00	18.00	9.00	Maintenance Work	
7	-	400 KV Damoh-Katni Line	-	19-Mar-15	9.00	18.00	9.00	Maintenance Work	
<b>220 KV LINES</b>									
1	-	220 KV Rewa-Tons	-	23-Feb-15	10.00	17.00	7.00	Maintenance Work	
2	-	220 KV Rewa-Tons	-	25-Feb-15	10.00	17.00	7.00	Maintenance Work	
3	-	220 KV Satna-Birsinghpur	-	28-Feb-15	10.00	17.00	7.00	Maintenance Work	
4	-	220 KV Satna-Birsinghpur	-	9-Mar-15	10.00	17.00	7.00	Maintenance Work	
5	-	220 KV Satna-Tons	-	16-Mar-15	10.00	17.00	7.00	Maintenance Work	
6	-	220 KV Satna-Tons	-	18-Mar-15	10.00	17.00	7.00	Maintenance Work	
7	-	220 KV Anuppur-Kotmikala	I	24-Feb-15	10.00	17.00	7.00	Maintenance Work	
8	-	220 KV Anuppur-Kotmikala	II	16-Mar-15	10.00	17.00	7.00	Maintenance Work	
9	-	220 KV Seoni-Interconnect Line	I	24-Feb-15	9.00	18.00	9.00	Maintenance Work	
10	-	220 KV Damoh-Tikamgarh(PGCIL) Line	-	25-Feb-15	9.00	18.00	9.00	Maintenance Work	

S-NO-	NAME OF 400KV SUBSTATION	NAME OF EQUIPMENT/FEEDER	CIRCUIT NO-	DATE	PERIOD OF SHUTDOWN		DURATION IN HRS-	MAINTAINANCE WORK PROPOSED	REMARKS
					FROM	TO			
11	-	220 KV Damoh-Sagar Line	-	26-Feb-15	9.00	18.00	9.00	Maintenance Work	
12	-	220 KV Damoh-Interconnect Line	II	26-Feb-15	9.00	18.00	9.00	Maintenance Work	
13	-	220 KV Seoni-Chhindwara Line	II	11-Mar-15	9.00	18.00	9.00	Maintenance Work	
14	-	220 KV Seoni-Chhindwara Line	I	13-Mar-15	9.00	18.00	9.00	Maintenance Work	
15	-	220 KV Damoh-Interconnect Line	I	17-Mar-15	9.00	18.00	9.00	Maintenance Work	
16	-	220 KV Badod-Kota	-	17-Mar-15	6.00	18.00	12:00	Maintenance Work	
17	-	220 KV Badod-Modak	-	18-Mar-15	6.00	18.00	12:00	Maintenance Work	
18	-	220 KV Omkareswar-Chhegaon	-	23-Feb-15	9.00	16.00	7.00	Maintenance Work	
19	-	220 KV Pithampur-Rajgarh Ckt 1	I	10-Mar-15	9.00	16.00	7.00	Maintenance Work	
20	-	220 KV Pithampur-Rajgarh	II	16-Mar-15	9.00	16.00	7.00	Maintenance Work	
21	-	220 KV PGCIL-Malanpur	I	24-Feb-15	9.00	17.00	8.00	Maintenance Work	
22	-	220 KV PGCIL-Malanpur	II	25-Feb-15	9.00	17.00	8.00	Maintenance Work	
23	-	220 KV Bina (PGCIL)-Shivpuri	-	26-Feb-15	9.00	17.00	8.00	Maintenance Work	
24	-	220 KV Bina (PGCIL)-Shivpuri	-	27-Feb-15	9.00	17.00	8.00	Maintenance Work	
25	-	220 KV Malanpur-Aouriya	-	10-Mar-15	9.00	17.00	8.00	Maintenance Work	
26	-	220 KV Malanpur-Aouriya	-	11-Mar-15	9.00	17.00	8.00	Maintenance Work	
27	-	220 KV Mehgaon-Aouriya	-	12-Mar-15	9.00	17.00	8.00	Maintenance Work	
28	-	220 KV Mehgaon-Aouriya	-	13-Mar-15	9.00	17.00	8.00	Maintenance Work	

Unitwise / Stationwise Genration in MU				
A. Thermal		Ann 4.1		
Stn. Name	UNIT No.	Capacity MW	Dec-14	Jan-15
AMARKANTAK	3	120	61.58	18.47
	4	120	0.00	0.00
	PH II	240	61.58	18.47
	5	210	148.04	155.73
	PH III	210	148.04	155.73
	TOT	450	209.62	174.19
SATPURA	1	62.5	0.00	0.00
	2	62.5	0.00	0.00
	4	62.5	0.00	0.00
	PH I	187.5	0.00	0.00
	6	200	112.27	103.41
	7	210	11.68	0.00
	PH II	410	123.945	103.41
	8	210	121.879372	108.23
	9	210	113.16	118.51
	PH III	420	235.039372	226.74
	10	250	101.612	111.79
	11		90.546	71.26
PH IV	250	192.158	183.05	
TOT	1267.5	551.14	513.19	
SANJAY GANDHI	1	210	105.375	62.29
	2	210	94.34	69.51
	PH I	420	199.71	131.80
	3	210	83.62	107.09
	4	210	98.46	79.64
	PH II	420	182.08	186.73
	5	500	317.59	312.72
	PH III	500	317.59	312.72
TOT	1340	699.38	631.25	
SSTPS	1	600	84.93	0.45
	2	600	117.27	78.00
	PH1	600	202.20	78.45
<b>MPPGCL THERMAL</b>		<b>3057.5</b>	<b>1662.34</b>	<b>1397.08</b>
AMARKANTAK POWER HOUSE-I RETIRED FROM SERVICE WEF 01.04.2009				
<b>B. Hydel</b>				
Station Name		Capacity MW	Dec-14	Jan-15
GANDHISAGAR		115.0	54.41	62.05
R.P.SAGAR		172.0	69.04	58.00
J.SAGAR		99.0	49.26	41.25
CHAMBAL		386.0	172.70	161.30
M.P.CHAMBAL		193.0	86.35	80.65
PENCH		160.0	10.96	47.35
M.P.PENCH		107.0	7.30	31.57
BARGI		90.0	43.30	38.44
TONS		315.0	54.04	79.46
BIRSINGHPUR		20.0	0.14	1.00
B.SGR(DEOLONDH)		60.0	0.00	0.00
B.SGR(SILPARA)		30.0	6.19	8.65
RAJGHAT		45.0	5.10	0.00
M.P.RAJGHAT		22.5	2.55	0.00
B.SGR(JINHA)		20.0	9.28	8.72
MADIKHEDA		60.0	4.69	6.27
TOTAL HYDEL		1186.0	306.38	351.18
MPPGCL Hydel		915.0	188.09	251.93
MPSEB HYDEL Share		917.5	213.83	254.75
<b>C. NHDC (Ex-Bus)</b>				
Station Name		Capacity MW	Dec-14	Jan-15
Indira Sagar Hydel Project		1000	229.478	291.775
Omkareshwar Hydel Project		520	96.552	127.335

**ENERGY BALANCE SHEET**  
Year : 2014 - 15

All figures in Million Unit

S No.	Source	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Total
<b>A.</b>	<b>M.P. Availability</b>											
1	Thermal	1321.54	1313.76	1186.55	1134.97	992.44	1067.53	1556.07	1449.39	1427.30	1266.42	12715.96
2	Hydel	261.44	245.35	226.73	98.05	236.60	204.27	247.97	273.27	211.32	251.64	2256.64
4	Total	1582.98	1559.11	1413.29	1233.02	1229.04	1271.80	1804.04	1722.66	1638.61	1518.05	14972.60
<b>B.</b>	<b>Exchange with other States / Systems</b>											
1	Indira Sagar	265.71	114.58	83.24	66.22	202.74	464.63	164.42	244.43	229.22	291.46	2126.66
2	Omkareshwar	122.22	56.90	42.43	41.59	88.21	187.78	65.89	101.63	96.55	127.31	930.51
3	MPPMCL Schedule from Central Sector of WR	1743.94	1815.60	1623.72	1616.06	1498.74	1689.60	1827.21	1812.23	1684.49	1486.96	16798.55
4	MPPMCL Schedule from Central Sector ER	24.28	41.04	34.62	28.30	30.03	26.04	43.09	40.17	25.40	27.32	320.29
5	Total MPPMCL Schedule from Central Sector (WR+ER)	1768.22	1856.64	1658.34	1644.36	1528.77	1715.65	1870.31	1852.40	1709.88	1514.28	17118.84
6	Deviation Energy	-14.84	-10.01	-53.90	-19.85	3.18	5.98	0.13	-13.88	-26.92	-34.55	-164.67
7	Schedule From DVC ER	0.00	8.83	232.29	238.70	153.77	9.75	238.11	233.00	250.64	223.07	1588.16
8	Schedule From Sugan	23.04	23.81	23.00	23.69	28.62	22.01	23.78	19.54	9.22	0.00	196.70
9	LANCO Amk	185.98	193.56	191.06	191.43	113.73	131.31	202.07	179.68	165.83	162.44	1717.10
10	SASAN	347.14	333.13	453.06	536.90	541.74	480.81	388.15	536.00	547.03	367.80	4531.75
11	ESSAR	0.00	0.00	0.00	0.00	6.00	3.64	0.00	0.00	0.00	0.00	9.64
12	J P Nigri	0.00	0.00	0.00	0.00	0.00	67.57	146.78	121.00	144.83	127.92	608.10
13	NTPC BADARPUR	0.00	0.00	0.00	0.00	0.00	0.00	137.17	102.12	51.34	0.00	290.63
14	Himachal Pradesh HYDAL	0.00	0.00	0.00	0.00	0.00	0.00	3.48	8.49	6.92	0.00	18.90
15	BARH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.54	4.17	0.00	20.71
16	Schedule from Sardar Sarovar	137.62	102.43	19.71	55.84	222.67	414.17	112.26	80.72	97.31	157.05	1399.78
17	Schedule from SEZ	10.40	10.83	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.84
18	Schedule from Rihand+Matatila	4.81	9.54	9.52	7.97	15.65	16.33	14.73	4.79	5.45	8.32	97.11
19	Medium Term Power Purchase from CSPDCL through PTC against PPA CSPDCL dtd. 18.09.2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	Medium Term Power Purchase from Balco through PTC against PPA Balco dtd. 18.09.2012 Including Short term purchase against MTOA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Additional Power Purchase	0.00	0.00	0.00	0.00	56.76	26.24	34.51	30.27	0.00	4.43	152.21
22	Energy Exchange	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	1.11
23	Banking of Energy	0.00	-14.79	-97.02	-268.32	-264.50	-548.09	-52.90	564.91	494.37	188.45	2.10
24	Sale of Power	-168.86	-21.85	-92.30	-1.79	-11.17	-112.35	-38.19	-29.88	-100.70	-205.57	-782.65
25	<b>MPPMCL Schedule Incl. Power Purchase</b>	<b>2308.35</b>	<b>2502.14</b>	<b>2407.25</b>	<b>2428.78</b>	<b>2392.04</b>	<b>2227.05</b>	<b>3080.26</b>	<b>3719.58</b>	<b>3386.28</b>	<b>2549.29</b>	<b>27001.03</b>
26	<b>MPPMCL Drawal Including Power Purchase</b>	<b>2293.51</b>	<b>2492.13</b>	<b>2353.35</b>	<b>2408.93</b>	<b>2395.22</b>	<b>2233.03</b>	<b>3080.39</b>	<b>3705.69</b>	<b>3359.36</b>	<b>2514.75</b>	<b>26836.36</b>
27	Wheeled Energy of Tawa HEG	1.71	0.03	0.00	0.00	0.00	1.94	1.96	4.38	4.80	5.43	20.28
28	Wheeled Energy of Wind Farm	13.35	13.79	23.52	18.71	11.64	7.15	3.20	3.04	3.74	4.56	102.71
29	Wheeled Energy of Solar Plant	14.65	16.60	15.42	10.69	11.78	13.44	18.15	15.06	15.32	14.40	145.51
30	Wheeled Energy of Ascent Hydro	1.02	1.25	1.30	1.24	0.78	1.06	1.31	1.22	1.18	1.17	11.55
31	<b>POWER PURCHASE by MPPMCL from BLA Power + JP BINA (Intra State STO)</b>	0.00	0.00	22.85	0.00	22.54	9.14	6.97	6.54	0.00	3.47	71.51
32	Deviation Energy of MPPGCL Thermal	2.05	-8.01	-10.99	-9.08	-8.27	-5.04	11.14	-2.29	80.44	-1.84	48.13
33	Sale of Power to SEZ by MPPMCL (Not Included in State Supply)	0.00	0.00	0.00	-21.68	-21.20	-20.87	-19.86	-20.81	-21.42	-20.99	-146.82
34	Energy Purchased by MP from Wind Farm	26.55	37.68	43.36	90.65	59.45	43.55	19.47	17.54	22.05	31.22	391.51
35	Energy Purchased by MP from Solar Plant	34.96	34.09	36.86	25.67	27.61	34.53	36.26	35.16	35.55	35.86	336.55
36	Firm / Infirm Energy of HEG Mandideep+Hindalco+HEG Tawa +Trimula Ind. purchase by MP +Wheeled enrgy of CPP / IPP	31.05	49.76	56.51	38.24	27.07	26.60	30.52	17.90	24.14	19.56	321.34
37	Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragma Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadaraawara Bio-Mass	7.54	6.96	7.31	7.95	6.76	7.40	1.94	2.52	2.97	11.36	62.72
38	Deviation Energy of ISP	2.16	1.75	2.36	0.09	1.33	3.20	-0.13	-0.51	0.26	0.31	10.82
39	Schedule Energy of BLA Power against LTOA	7.70	9.83	8.33	8.37	9.42	7.76	9.92	8.40	7.13	9.25	86.09
40	Schedule Energy of JP BINA Power against LTOA	106.38	222.67	209.77	173.61	152.75	177.13	225.21	215.08	204.69	188.41	1875.71
41	Import from bargi Left Bank Canal Power House + ISP NVDA	0.27	-0.01	-0.01	-0.01	2.82	2.91	1.44	1.95	2.14	2.17	13.69
42	Chambal Complex Excess / less Overshare by MP	-1.38	-0.03	6.98	-0.04	-29.44	-5.20	-49.39	-56.94	-35.17	-20.89	-191.49
43	Rajghat Hydel Power Station Excess / Less Overshare by MP	-0.03	-0.04	-0.07	-0.03	2.62	3.70	4.08	6.18	0.68	-0.06	17.04
44	<b>State Supply (Ex-Power st. Bus)</b>	<b>4512.41</b>	<b>4609.06</b>	<b>4315.82</b>	<b>4115.84</b>	<b>4214.10</b>	<b>4486.53</b>	<b>5436.77</b>	<b>6049.66</b>	<b>5693.67</b>	<b>4755.95</b>	<b>48189.80</b>
45	AVERAGE DAILY	150.41	148.68	143.86	132.77	135.94	149.55	175.38	201.66	183.67	153.42	157.48
46	MINIMUM DAILY	131.53	135.30	122.27	104.36	102.06	123.09	147.15	188.12	133.38	105.32	102.06
47	MAXIMUM DAILY	151.26	151.48	151.69	149.18	155.47	178.76	189.65	202.23	202.35	183.09	202.35
48	<b>State Supply (Ex-Power st. Bus):- YEAR : 2013-14</b>	<b>4072.12</b>	<b>4403.60</b>	<b>3386.50</b>	<b>3378.74</b>	<b>3401.49</b>	<b>4144.54</b>	<b>4079.53</b>	<b>5601.64</b>	<b>6106.39</b>	<b>4807.90</b>	<b>43382.45</b>
49	(14-15)*100/(13-14)	10.81	4.67	27.44	21.82	23.89	8.25	33.27	8.00	-6.76	-1.08	11.08
50	Unshedule L/S : Year-2014-15	2.55	27.16	26.62	38.09	191.58	6.07	0.62	0.92	0.00	0.00	293.63
51	Frequency Correction	-0.81	-3.90	-1.69	1.47	1.59	-0.70	-5.02	-13.27	-10.72	-9.16	-42.20
52	<b>Restricted Requirement : Year-2014-15</b>	<b>4514.16</b>	<b>4632.32</b>	<b>4340.75</b>	<b>4155.40</b>	<b>4407.27</b>	<b>4491.90</b>	<b>5432.38</b>	<b>6037.32</b>	<b>5682.95</b>	<b>4746.80</b>	<b>48441.24</b>
53	Shedule L/S : Year-2014-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	<b>Un-Restricted Requirement : Year-2014-15</b>	<b>4514.16</b>	<b>4632.32</b>	<b>4340.75</b>	<b>4155.40</b>	<b>4407.27</b>	<b>4491.90</b>	<b>5432.38</b>	<b>6037.32</b>	<b>5682.95</b>	<b>4746.80</b>	<b>48441.24</b>

**ENERGY BALANCE SHEET : Demand & Supply Hours**

**Year : 2014 - 15**

S.NO.		Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Yr 14-15
<b>C. MORNING PEAK (MAX)</b>												
1	DEMAND MET	6945	6581	6556	6435	6539	7842	8515	9618	9832	9483	9832
2	LOAD RELIEF	0	0	0	0	0	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	347	0	0	0	0	0	0
<b>D. EVENING PEAK (MAX)</b>												
1	DEMAND MET	7046	6996	6949	6923	7545	7974	7771	8030	8163	7669	8163
2	LOAD RELIEF	0	0	0	0	0	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	524	0	0	0	0	0	0
<b>F. REGISTERED MAXIMUM</b>												
		7054	6996	6949	6923	7545	8238	8551	9618	9832	9568	9832
<b>G. COMPUTED MAXIMUM DEMAND</b>												
		7058	7059	7255	6955	8103	8233	8513	9598	9870	9614	9870
<b>H. UNRESTRICTED MAXIMUM DEMAND</b>												
		7058	7059	7255	6955	8103	8233	8513	9598	9870	9614	9870
<b>I. Average Power Supply per day to</b>												
1.	Div. Head Quarters	23:46	23:43	23:42	23:44	23:42	23:41	23:46	23:48	23:43	23:42	23:44
2.	District Head Quarters	23:52	23:46	23:48	23:48	23:42	23:46	23:50	23:53	23:49	23:52	23:49
3.	Tahsil Head Quarters	23:44	23:37	23:33	23:19	22:16	23:35	23:39	23:41	23:38	23:41	23:28
4.	Rural -Mixed	23:24	23:10	23:06	22:40	21:33	23:02	23:05	22:57	23:03	23:13	22:55
5.	Rural -DLF	23:34	23:14	23:11	23:00	21:44	23:12	23:18	23:15	23:17	23:26	23:07
6.	Rural -Irrigation	9:50	9:45	9:38	9:33	9:26	9:43	9:48	9:51	9:49	9:49	9:43
<b>J</b>	<b>LOAD FACTOR %</b>	<b>88.85</b>	<b>88.55</b>	<b>86.26</b>	<b>79.49</b>	<b>74.69</b>	<b>74.15</b>	<b>80.63</b>	<b>83.48</b>	<b>72.16</b>	<b>64.72</b>	<b>79.30</b>

**FREQUENCY ANALYSIS YEAR 2014-15**

S.N	PARTICULARS	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Yr 14-15
<b>A. INTGRATED FREQUENCY</b>												
1	MAXIMUM	50.29	50.38	50.29	50.20	50.14	50.16	50.17	50.19	50.38	0.00	50.38
2	MINIMUM	49.71	49.62	49.59	49.62	49.53	49.61	49.87	49.80	49.72	0.00	0.00
<b>B. INSTANTANEOUS FREQUENCY</b>												
1	MAXIMUM	50.56	50.59	50.67	50.36	50.34	50.37	50.48	50.42	50.58	0.00	50.67
2	MINIMUM	49.49	49.41	49.32	49.39	49.36	49.34	49.53	49.58	49.54	0.00	0.00
<b>C. AVG FREQUENCY</b>												
		49.95	49.98	49.94	49.93	49.93	49.95	49.96	50.00	49.98	0.00	44.96
<b>D. % TIME WHEN FREQUENCY WAS</b>												
1	ABOVE 51.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	50.05 TO 51.5 Hz	17.03	24.33	17.49	15.33	12.63	16.17	21.51	29.91	27.86	0.00	18.20
3	49.9 TO 50.05 Hz	52.33	53.19	45.36	50.16	49.50	55.70	52.94	53.60	48.29	0.00	46.03
4	49.7 TO 49.9 Hz	29.41	21.55	32.16	31.29	34.39	26.47	24.43	16.08	22.85	0.00	23.83
5	49.5 TO 49.7 Hz	1.23	0.93	4.76	3.14	3.42	1.60	1.12	0.41	1.00	0.00	1.76
6	49.2 TO 49.5 Hz	0.00	0.00	0.23	0.08	0.06	0.06	0.00	0.00	0.00	0.00	0.04
7	48.8 TO 49.2 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	48.5 TO 48.8 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	BELOW 48.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Hourly Average Own Generation, Schedule Drawal, Actual Drawal & Demand**  
**Month :- दिसम्बर 2014**

**FIGURES IN MW**

Hrs.	FREQ.	Own Generation								Schedule from																		Load Shedding			REST DEM AND	UNRE ST. DEMAND					
		Ther. Incl Aux	Ther. Excl Aux	HYD.	ISP	OSP	Total IPPs Injection	Total CPPs Injection	Total	CSS	DVC ER	Sugen	Lanco	Sasan	Essar	JP Nigri	NTPC Badarpur	HP Hydrel (C+P+T+K)	SSP	SE Z	Banking	Sale	Pur	Total MTO A at MP	ST OA	Rihand+Matatila-Rajghat	Total	Tot Avl.	Act. Dri	Deviation			Intra State STOA	DEMAND MET	SCH	UN SCH	TOTAL
1:00	50.09	2119	1928	171	124	67	286	21	2596	1953	307	12	187	710	0	184	74	2	59	0	710	-248	0	0	123	5	4076	6672	3954	-122	0	6550	0	0	0	6532	6532
2:00	50.14	2126	1935	140	31	22	286	21	2435	1821	299	12	180	702	0	178	74	2	59	0	710	-222	0	0	129	5	3948	6383	3774	-174	0	6209	0	0	0	6183	6183
3:00	50.14	2124	1933	136	16	10	288	20	2403	1758	305	12	174	686	0	169	74	2	59	0	710	-132	0	0	132	5	3954	6357	3971	17	0	6374	0	0	0	6348	6348
4:00	50.12	2123	1931	139	32	13	289	21	2426	1775	305	12	174	692	0	164	74	2	59	0	710	-130	0	0	132	5	3973	6398	3954	-18	0	6380	0	0	0	6359	6359
5:00	50.09	2136	1944	165	118	53	290	21	2590	1755	304	12	177	692	0	164	74	3	60	0	710	-210	0	0	129	5	3877	6467	3847	-29	0	6438	0	0	0	6420	6420
6:00	50.09	2171	1975	209	196	83	294	21	2778	1815	308	12	190	699	0	178	74	26	59	0	710	-71	0	0	134	5	4137	6915	3947	-190	0	6725	0	0	0	6707	6707
7:00	49.90	2241	2039	296	328	128	301	22	3114	2037	325	12	202	703	0	195	74	30	256	0	813	-170	0	0	83	5	4565	7680	4654	89	0	7768	0	0	0	7791	7791
8:00	49.99	2315	2107	383	489	193	316	42	3530	2301	350	12	233	718	0	200	73	27	283	0	816	-106	0	0	45	5	4958	8487	4840	-118	0	8369	0	0	0	8371	8371
9:00	49.95	2312	2104	409	601	228	322	99	3763	2399	356	12	239	719	0	200	73	16	289	0	819	-110	0	0	27	5	5044	8807	5073	29	0	8836	0	0	0	8849	8849
10:00	50.03	2325	2116	386	629	262	326	141	3861	2440	359	12	239	719	0	201	74	14	268	0	819	-100	0	0	21	5	5070	8931	4957	-113	0	8818	0	0	0	8810	8810
11:00	49.98	2324	2115	360	593	243	327	172	3809	2433	363	12	239	725	0	201	70	8	238	0	819	-132	0	0	10	5	4990	8799	4797	-193	0	8606	0	0	0	8612	8612
12:00	50.11	2312	2104	295	461	201	325	179	3565	2444	360	12	239	721	0	194	70	4	129	0	816	-189	0	0	16	5	4820	8385	4481	-339	0	8046	0	0	0	8019	8019
13:00	50.10	2282	2077	299	508	216	324	180	3604	2447	359	12	233	718	0	192	71	2	182	0	720	-96	0	0	34	5	4879	8483	4972	92	0	8576	0	0	0	8549	8549
14:00	50.08	2289	2083	278	461	202	324	161	3509	2455	356	12	233	711	0	192	68	2	195	0	720	-80	0	0	41	5	4908	8417	4873	-35	0	8382	0	0	0	8362	8362
15:00	50.00	2302	2095	258	393	174	324	133	3377	2446	357	12	233	709	0	191	68	2	208	0	720	-84	0	0	42	5	4908	8285	4892	-16	0	8269	0	0	0	8268	8268
16:00	49.99	2309	2101	267	422	178	324	90	3381	2448	356	12	233	709	0	192	68	2	211	0	720	-90	0	0	30	5	4894	8275	4830	-64	0	8211	0	0	0	8213	8213
17:00	49.99	2314	2106	289	565	216	325	41	3542	2455	358	12	233	706	0	198	69	7	172	0	720	-89	0	0	32	5	4878	8420	4735	-143	0	8277	0	0	0	8279	8279
18:00	50.12	2301	2094	287	529	211	318	22	3461	2465	355	12	233	708	0	193	68	27	76	0	358	-106	0	0	41	5	4434	7895	4032	-402	0	7493	0	0	0	7465	7465
19:00	50.08	2261	2057	301	395	162	312	22	3250	2373	349	12	233	706	0	194	74	28	59	0	136	-160	0	0	60	5	4069	7319	4083	13	0	7332	0	0	0	7315	7315
20:00	50.07	2218	2019	246	245	114	305	22	2952	2339	334	12	224	713	0	192	72	7	59	0	165	-103	0	0	73	5	4090	7041	4112	23	0	7064	0	0	0	7050	7050
21:00	50.10	2163	1968	177	68	43	291	22	2569	2207	287	12	198	715	0	189	74	2	59	0	566	-92	0	0	92	5	4313	6882	4101	-212	0	6670	0	0	0	6650	6650
22:00	50.19	2160	1966	196	124	62	292	21	2661	2254	294	12	211	717	0	186	74	2	59	0	584	-162	0	0	114	5	4351	7012	4124	-227	0	6785	0	0	0	6746	6746
23:00	50.10	2137	1945	196	216	90	293	21	2761	2291	300	12	214	706	0	186	72	2	59	0	700	-163	0	0	104	5	4487	7249	4378	-110	0	7139	0	0	0	7118	7118
24:00	50.22	2124	1933	154	144	64	290	20	2606	2262	300	12	205	697	0	186	72	2	59	0	700	-98	0	0	116	5	4517	7123	4179	-338	0	6785	0	0	0	6743	6743
Avg.	50.07	2229	2028	252	320	135	307	64	3106	2224	331	12	215	708	0	188	72	9	134	0	665	-131	0	0	73	5	4506	7612	4398	-108	0	7504	0	0	0	7490	7490
00 TO 06 HRS.	50.11	2133	1941	160	86	41	289	21	2538	1813	305	12	180	697	0	173	74	6	59	0	710	-169	0	0	130	5	3994	6532	3908	-86	0	6446	0	0	0	6425	6425
06 TO 12 HRS.	49.99	2305	2097	355	517	209	319	109	3607	2342	352	12	232	718	0	198	73	16	244	0	817	-134	0	0	34	5	4908	8515	4800	-108	0	8407	0	0	0	8409	8409
12 TO 18 HRS.	50.05	2299	2092	280	480	199	323	104	3479	2453	357	12	233	710	0	193	69	7	174	0	659	-91	0	0	37	5	4817	8296	4722	-95	0	8201	0	0	0	8189	8189
06 TO 18 HRS.	50.02	2302	2095	317	498	204	321	107	3543	2397	355	12	233	714	0	196	71	12	209	0	738	-113	0	0	35	5	4862	8405	4761	-101	0	8304	0	0	0	8299	8299
18 TO 24 HRS.	50.13	2177	1981	212	199	89	297	22	2800	2288	311	12	214	709	0	189	73	7	59	0	475	-130	0	0	93	5	4305	7104	4163	-142	0	6963	0	0	0	6937	6937

**Hourly Average Own Generation, Schedule Drawal, Actual Drawal & Demand**  
**Month :- जनवरी 2015**

**FIGURES IN MW**

Hrs.	FREQ.	Own Generation								Schedule from																	Load Shedding			REST DEM AND	UNRE ST. DEMAND						
		Ther. Incl Aux	Ther. Excl Aux	HYD.	ISP	OSP	Total IPPs Injection	Total CPPs Injection	Total	CSS	DVC ER	Sugen	Lanco	Sasan	Essar	JP Nigri	NTPC Badar pur	HP Hydrel (C+P+T+K)	SSP	SE Z	Banking	Sale	Pur	Total MTO A at MP	ST OA	Riha nd+ Mata tila- Rajgh hat	Total	Tot Avl.	Act. Dri			Deviation	Intra State STO A	DEMAND MET	SCH	UN SCH	TOTAL
1:00	50.10	1779	1619	251	175	95	267	27	2434	1409	262	0	166	476	0	137	0	0	58	0	388	-336	0	0	135	11	2707	5141	2638	-69	0	5072	0	0	0	5058	5058
2:00	50.14	1789	1628	230	112	71	267	26	2334	1305	263	0	166	457	0	128	0	0	58	0	388	-287	0	0	140	11	2629	4963	2518	-111	0	4852	0	0	0	4832	4832
3:00	50.15	1790	1629	220	81	48	267	26	2270	1245	263	0	166	445	0	120	0	0	58	0	388	-263	0	0	143	11	2577	4847	2624	47	0	4893	0	0	0	4872	4872
4:00	50.07	1798	1636	225	97	43	264	25	2291	1242	263	0	166	438	0	113	0	0	58	0	388	-256	0	0	144	11	2567	4858	2575	7	0	4867	0	0	0	4857	4857
5:00	50.08	1793	1632	250	168	69	264	26	2409	1265	261	0	166	439	0	122	0	0	66	0	388	-277	0	0	143	11	2585	4994	2557	-28	0	4966	0	0	0	4954	4954
6:00	50.08	1795	1633	254	257	98	271	26	2539	1463	264	0	166	454	0	144	0	0	114	0	388	-178	0	0	141	11	2967	5505	2806	-161	0	5345	0	0	0	5332	5332
7:00	49.92	1804	1642	289	333	123	288	25	2701	1868	289	0	197	489	0	177	0	0	317	0	201	-218	0	0	110	11	3441	6142	3537	96	0	6237	0	0	0	6253	6253
8:00	50.00	1912	1740	382	532	201	310	38	3204	2196	328	0	244	485	0	184	0	0	432	0	214	-220	8	0	73	11	3954	7158	3953	-2	0	7157	0	0	0	7157	7157
9:00	49.98	1984	1805	438	683	275	319	80	3600	2303	344	0	253	497	0	187	0	0	419	0	208	-243	8	0	53	11	4039	7638	4047	9	0	7647	0	0	0	7653	7653
10:00	50.02	1998	1818	454	708	301	318	123	3722	2351	344	0	253	497	0	187	0	0	414	0	206	-338	15	0	40	11	3978	7700	4025	47	0	7747	0	0	0	7743	7743
11:00	50.04	1994	1815	444	688	301	319	149	3717	2370	344	0	253	492	0	189	0	0	416	0	206	-391	15	0	37	11	3941	7658	3778	-163	0	7495	0	0	0	7486	7486
12:00	50.12	1976	1799	401	570	259	322	163	3513	2358	340	0	250	476	0	182	0	0	253	0	206	-366	8	0	40	11	3758	7270	3462	-296	0	6975	0	0	0	6949	6949
13:00	50.09	1934	1760	350	504	219	320	172	3325	2332	335	0	247	475	0	183	0	0	312	0	198	-279	8	0	50	11	3872	7197	3897	25	0	7223	0	0	0	7205	7205
14:00	50.08	1913	1741	314	457	198	315	164	3188	2328	336	0	244	476	0	188	0	0	325	0	192	-269	8	0	55	11	3891	7079	3806	-85	0	6994	0	0	0	6978	6978
15:00	50.04	1909	1737	278	437	183	316	141	3093	2311	337	0	247	480	0	186	0	0	338	0	192	-289	8	0	55	11	3875	6968	3814	-61	0	6908	0	0	0	6899	6899
16:00	50.03	1904	1732	311	469	183	314	106	3116	2309	330	0	241	481	0	186	0	0	328	0	193	-364	7	0	63	11	3783	6899	3771	-12	0	6887	0	0	0	6882	6882
17:00	50.07	1917	1745	333	513	206	309	57	3163	2289	306	0	222	480	0	187	0	0	363	0	193	-290	7	0	66	11	3835	6998	3814	-20	0	6978	0	0	0	6963	6963
18:00	50.17	1894	1724	334	493	203	300	29	3083	2259	306	0	225	483	0	189	0	0	272	0	186	-234	7	0	75	11	3778	6861	3495	-283	0	6578	0	0	0	6545	6545
19:00	50.05	1899	1729	400	564	237	300	26	3256	2224	303	0	222	484	0	189	0	0	181	0	186	-340	0	0	84	11	3544	6800	3542	-3	0	6797	0	0	0	6788	6788
20:00	50.06	1869	1701	388	566	248	297	25	3224	2215	296	0	213	487	0	189	0	0	120	0	186	-386	0	0	82	11	3412	6636	3348	-63	0	6573	0	0	0	6562	6562
21:00	50.08	1852	1685	348	358	191	287	26	2895	2126	285	0	207	486	0	172	0	0	89	0	193	-234	0	0	92	11	3425	6321	3275	-150	0	6171	0	0	0	6156	6156
22:00	50.11	1823	1659	310	308	167	271	26	2740	1957	258	0	182	487	0	162	0	0	77	0	193	-151	0	0	109	11	3285	6025	3252	-32	0	5993	0	0	0	5974	5974
23:00	50.08	1815	1652	291	342	173	270	25	2753	1749	261	0	175	488	0	163	0	0	71	0	340	-141	0	0	108	11	3225	5978	3089	-137	0	5842	0	0	0	5829	5829
24:00	50.18	1796	1635	266	251	125	270	25	2571	1601	262	0	179	482	0	138	0	0	71	0	340	-156	0	0	136	11	3064	5635	2864	-200	0	5435	0	0	0	5407	5407
Avg.	50.07	1872	1704	323	403	176	294	65	2964	1961	299	0	210	476	0	167	0	0	217	0	257	-271	4	0	91	11	3422	6386	3354	-68	0	6318	0	0	0	6306	6306
00 TO 06 HRS.	50.10	1791	1629	238	148	71	267	26	2379	1322	263	0	166	452	0	127	0	0	69	0	388	-266	0	0	141	11	2672	5051	2620	-52	0	4999	0	0	0	4984	4984
06 TO 12 HRS.	50.01	1945	1770	401	586	243	313	96	3409	2241	331	0	242	489	0	184	0	0	375	0	207	-296	9	0	59	11	3852	7261	3800	-51	0	7210	0	0	0	7207	7207
12 TO 18 HRS.	50.08	1912	1740	320	479	199	313	112	3161	2305	325	0	237	479	0	186	0	0	323	0	192	-287	7	0	61	11	3839	7000	3766	-73	0	6928	0	0	0	6912	6912
06 TO 18 HRS.	50.05	1928	1755	361	532	221	313	104	3285	2273	328	0	240	484	0	185	0	0	349	0	200	-292	8	0	60	11	3845	7131	3783	-62	0	7069	0	0	0	7059	7059
18 TO 24 HRS.	50.09	1842	1677	334	398	190	283	26	2907	1979	278	0	196	486	0	169	0	0	102	0	240	-235	0	0	102	11	3326	6232	3228	-98	0	6135	0	0	0	6119	6119

**Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal**  
**Month :- दिसम्बर 2014**

FIGURES IN MW

Hrs.	FREQ.	EZONE							CZONE							WZONE						
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestric ted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestric ted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestric ted Demand
1:00	50.09	1992	1983	-9	0	0	1977	1977	2065	2036	-29	0	0	2030	2030	2547	2531	-15	0	0	2524	2524
2:00	50.14	1900	1879	-21	0	0	1871	1871	1989	1899	-91	0	0	1891	1891	2406	2431	25	0	0	2421	2421
3:00	50.14	1822	1824	2	0	0	1817	1817	1955	1946	-10	0	0	1938	1938	2555	2604	50	0	0	2593	2593
4:00	50.12	1798	1803	5	0	0	1797	1797	1956	1950	-6	0	0	1944	1944	2569	2627	58	0	0	2618	2618
5:00	50.09	1811	1833	22	0	0	1828	1828	1976	2003	26	0	0	1998	1998	2575	2602	27	0	0	2595	2595
6:00	50.09	1898	1900	2	0	0	1895	1895	2108	2045	-63	0	0	2039	2039	2801	2780	-20	0	0	2773	2773
7:00	49.90	2057	2154	97	0	0	2160	2160	2216	2326	110	0	0	2333	2333	3241	3288	47	0	0	3298	3298
8:00	49.99	2250	2280	30	0	0	2281	2281	2428	2413	-15	0	0	2414	2414	3667	3676	9	0	0	3676	3676
9:00	49.95	2290	2345	56	0	0	2349	2349	2521	2625	104	0	0	2629	2629	3815	3866	51	0	0	3871	3871
10:00	50.03	2340	2357	18	0	0	2355	2355	2614	2661	47	0	0	2658	2658	3799	3800	1	0	0	3796	3796
11:00	49.98	2335	2343	9	0	0	2345	2345	2658	2669	11	0	0	2671	2671	3626	3594	-32	0	0	3596	3596
12:00	50.11	2273	2256	-17	0	0	2248	2248	2533	2384	-149	0	0	2376	2376	3402	3406	4	0	0	3395	3395
13:00	50.10	2204	2279	76	0	0	2272	2272	2414	2537	122	0	0	2529	2529	3662	3760	98	0	0	3749	3749
14:00	50.08	2150	2186	36	0	0	2181	2181	2429	2462	32	0	0	2456	2456	3687	3735	48	0	0	3726	3726
15:00	50.00	2134	2170	35	0	0	2169	2169	2379	2410	31	0	0	2410	2410	3631	3690	58	0	0	3689	3689
16:00	49.99	2159	2177	18	0	0	2177	2177	2398	2422	24	0	0	2423	2423	3604	3612	7	0	0	3613	3613
17:00	49.99	2204	2203	-1	0	0	2204	2204	2438	2518	79	0	0	2518	2518	3610	3556	-54	0	0	3557	3557
18:00	50.12	2286	2381	95	0	0	2372	2372	2529	2342	-187	0	0	2333	2333	2939	2771	-168	0	0	2761	2761
19:00	50.08	2296	2388	91	0	0	2382	2382	2272	2358	86	0	0	2352	2352	2662	2587	-76	0	0	2581	2581
20:00	50.07	2246	2344	97	0	0	2339	2339	2248	2314	66	0	0	2309	2309	2447	2406	-41	0	0	2401	2401
21:00	50.10	2197	2219	22	0	0	2213	2213	2230	2220	-10	0	0	2213	2213	2324	2231	-93	0	0	2224	2224
22:00	50.19	2045	2084	39	0	0	2072	2072	2105	2031	-74	0	0	2020	2020	2674	2669	-4	0	0	2654	2654
23:00	50.10	2164	2166	3	0	0	2160	2160	2215	2187	-28	0	0	2180	2180	2742	2786	44	0	0	2778	2778
24:00	50.22	2130	2074	-56	0	0	2061	2061	2204	2088	-116	0	0	2075	2075	2688	2624	-64	0	0	2607	2607
<b>Avg.</b>	<b>50.07</b>	<b>2124</b>	<b>2151</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>2147</b>	<b>2147</b>	<b>2287</b>	<b>2285</b>	<b>-2</b>	<b>0</b>	<b>0</b>	<b>2281</b>	<b>2281</b>	<b>3070</b>	<b>3068</b>	<b>-2</b>	<b>0</b>	<b>0</b>	<b>3062</b>	<b>3062</b>
<b>00 TO 06 HRS.</b>	50.11	1870	1870	0	0	0	1864	1864	2008	1980	-29	0	0	1973	1973	2575	2596	21	0	0	2587	2587
<b>06 TO 12 HRS.</b>	49.99	2257	2289	32	0	0	2290	2290	2495	2513	18	0	0	2514	2514	3592	3605	13	0	0	3605	3605
<b>12 TO 18 HRS.</b>	50.05	2189	2233	43	0	0	2229	2229	2431	2448	17	0	0	2445	2445	3522	3520	-2	0	0	3516	3516
<b>06 TO 18 HRS.</b>	50.02	2223	2261	38	0	0	2259	2259	2463	2481	18	0	0	2479	2479	3557	3563	6	0	0	3561	3561
<b>18 TO 24 HRS.</b>	50.13	2180	2213	33	0	0	2204	2204	2212	2200	-13	0	0	2192	2192	2590	2550	-39	0	0	2541	2541



**Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal  
Month :- जनवरी 2015**

FIGURES IN MW

Hrs.	FREQ.	EZONE								CZONE								WZONE							
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestric ted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestric ted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestric ted Demand			
1:00	50.10	1587	1620	33	0	0	1615	1615	1576	1587	11	0	0	1583	1583	1951	1865	-86	0	0	1860	1860			
2:00	50.14	1546	1556	10	0	0	1549	1549	1527	1489	-39	0	0	1483	1483	1901	1807	-94	0	0	1800	1800			
3:00	50.15	1482	1526	45	0	0	1519	1519	1471	1493	22	0	0	1486	1486	1927	1874	-53	0	0	1866	1866			
4:00	50.07	1458	1500	42	0	0	1497	1497	1470	1490	19	0	0	1487	1487	1932	1877	-55	0	0	1873	1873			
5:00	50.08	1465	1522	57	0	0	1519	1519	1484	1548	64	0	0	1545	1545	1974	1895	-79	0	0	1891	1891			
6:00	50.08	1569	1609	41	0	0	1605	1605	1632	1650	18	0	0	1646	1646	2210	2085	-125	0	0	2080	2080			
7:00	49.92	1725	1836	110	0	0	1840	1840	1715	1866	151	0	0	1871	1871	2615	2536	-79	0	0	2543	2543			
8:00	50.00	1963	2025	61	0	0	2025	2025	2003	2076	73	0	0	2076	2076	3083	3056	-27	0	0	3056	3056			
9:00	49.98	2079	2102	23	0	0	2104	2104	2197	2251	54	0	0	2253	2253	3282	3294	11	0	0	3296	3296			
10:00	50.02	2123	2123	-1	0	0	2122	2122	2305	2365	60	0	0	2364	2364	3238	3259	21	0	0	3257	3257			
11:00	50.04	2141	2078	-63	0	0	2075	2075	2396	2374	-23	0	0	2371	2371	3101	3043	-58	0	0	3040	3040			
12:00	50.12	2083	1981	-102	0	0	1973	1973	2295	2149	-147	0	0	2141	2141	2890	2845	-45	0	0	2834	2834			
13:00	50.09	1975	1958	-16	0	0	1954	1954	2164	2194	30	0	0	2189	2189	3068	3070	2	0	0	3063	3063			
14:00	50.08	1931	1863	-68	0	0	1859	1859	2128	2097	-31	0	0	2092	2092	3037	3034	-3	0	0	3027	3027			
15:00	50.04	1888	1845	-42	0	0	1843	1843	2062	2062	0	0	0	2060	2060	3038	3000	-38	0	0	2996	2996			
16:00	50.03	1868	1839	-29	0	0	1838	1838	2047	2078	31	0	0	2077	2077	2991	2970	-21	0	0	2968	2968			
17:00	50.07	1921	1886	-35	0	0	1883	1883	2118	2158	40	0	0	2154	2154	2951	2933	-17	0	0	2927	2927			
18:00	50.17	2071	2084	13	0	0	2074	2074	2215	2094	-120	0	0	2084	2084	2510	2399	-111	0	0	2388	2388			
19:00	50.05	2254	2266	12	0	0	2263	2263	2132	2225	93	0	0	2222	2222	2380	2306	-75	0	0	2303	2303			
20:00	50.06	2242	2205	-36	0	0	2202	2202	2150	2202	52	0	0	2198	2198	2240	2165	-75	0	0	2162	2162			
21:00	50.08	2132	2095	-38	0	0	2090	2090	2086	2099	13	0	0	2094	2094	2097	1977	-120	0	0	1973	1973			
22:00	50.11	1940	1920	-20	0	0	1914	1914	1906	1913	7	0	0	1907	1907	2202	2159	-43	0	0	2152	2152			
23:00	50.08	1853	1826	-27	0	0	1822	1822	1822	1846	24	0	0	1842	1842	2259	2169	-90	0	0	2165	2165			
24:00	50.18	1715	1697	-17	0	0	1689	1689	1709	1705	-4	0	0	1696	1696	2148	2032	-115	0	0	2022	2022			
<b>Avg.</b>	<b>50.07</b>	<b>1875</b>	<b>1874</b>	<b>-2</b>	<b>0</b>	<b>0</b>	<b>1870</b>	<b>1870</b>	<b>1942</b>	<b>1959</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>1955</b>	<b>1955</b>	<b>2543</b>	<b>2486</b>	<b>-57</b>	<b>0</b>	<b>0</b>	<b>2481</b>	<b>2481</b>			
<b>00 TO 06 HRS.</b>	50.10	1518	1556	38	0	0	1551	1551	1527	1543	16	0	0	1538	1538	1983	1901	-82	0	0	1895	1895			
<b>06 TO 12 HRS.</b>	50.01	2019	2024	5	0	0	2023	2023	2152	2180	28	0	0	2179	2179	3035	3006	-29	0	0	3004	3004			
<b>12 TO 18 HRS.</b>	50.08	1942	1913	-30	0	0	1908	1908	2122	2114	-8	0	0	2109	2109	2933	2901	-32	0	0	2895	2895			
<b>06 TO 18 HRS.</b>	50.05	1981	1968	-12	0	0	1966	1966	2137	2147	10	0	0	2144	2144	2984	2953	-30	0	0	2950	2950			
<b>18 TO 24 HRS.</b>	50.09	2023	2002	-21	0	0	1997	1997	1968	1998	31	0	0	1993	1993	2221	2135	-86	0	0	2129	2129			

**System Disturbance / System Incidence :**

- 1. System Disturbance on 03.12.14 at 220KV S/s Jabalpur :** On dated 03.12.2014 at around 10:10 Hrs. MP System was normal and frequency of National Grid was 49.88Hz. On dtd. 03.12.2014 shut down on 220KV Main Bus-II at 220KV S/s Nayagaon Jabalpur was proposed. To avail the shut-down all 220KV feeders and transformers connected to 220KV Main Bus-II were shifted on 220KV Main Bus-I, load of 220/132KV, 160MVA BHEL X'mer was transferred on Bus Coupler Breaker at 10:08 Hrs.  
But 220/132KV, 120MVA X'mer was under clearance zone hence main CB of 220/132KV, 3X40MVA BHEL X'mer was switched OFF/Hand Tripped at 10:08 Hrs. (*Isolators of 220/132KV, 3X40MVA BHEL X'mer were in closed condition and the arrange at 220KV S/s Jabalpur is such that 220KV Main Bus-I side isolator of 220/132 KV, 120 MVA BHEL X'mer and PT No.-1 Bus-Coupler are located in the same bay on either side of the 220 KV Main Bus-I*). For opening the isolator two operating staff went into the yard and inadvertently opened the isolator of PT No.-1 at 10:14Hrs. instead of opening the Main Bus-I side isolator of 220/132KV, 3X40MVA BHEL X'mer. This resulted in non-availability of the only PT at 220KV S/s Jabalpur. Consequently 220/132KV, 160MVA BHEL X'mer tripped on Zone-I, trip ABC indication and complete load of this X'mer shifted on 220/132KV, 160MVA MTSB & 3X40MVA MTSB X'mer. Resulting 220/132KV, 160MVA MTSB & 3X40MVA MTSB X'mer also tripped due to overloading. Due to the above tripping there was no consumer load loss as complete load was managed by 132 KV system. There was no generation loss and System was normalized in due course of time.
- 2. System Disturbance on 16.12.14 at 220KV S/s Ratlam :** On dated 16.12.2014 at around 05:15 Hrs. MP System was normal and frequency of National Grid was 49.91Hz. Prior to fault 220KV Ratlam-Badnagar Ckt-II tripped at 02:15 Hrs. from both end due to disc flash-over at location no.-383, thereafter this circuit was under permit. At around 05:19 Hrs. "R" Phase conductor of Interconnector-II snapped due to suspension string failure at 132KV S/s Ratlam at end line gantry side. Simultaneously at 220KV S/s Ratlam, snapped conductor fell on 132KV Auxiliary Bus which was in charged condition causing 132KV bus fault. Consequently 220/132KV, 160MVA X'mer-I,II&III, 220KV Ratlam-Nagda Ckt-I&II, 132KV Ratlam-Jaora Ckt-I&II and 132KV Ratlam-Khachrod and 132KV Ratlam-Badnagar Ckt tripped. Resulting 132KV supply failed at 220KV S/s Ratlam, 132KV S/s Ratlam, Sailana, Meghnagar and Jhabua. Due to the above tripping there was a consumer load loss of about 51.18MWH. There was no generation loss and System was normalized in due course of time.
- 3. System Disturbance on 12.01.15 at 400KV S/s Nagda :** On dated 12.01.2015 at around 20:40 Hrs. MP System was normal and frequency of National Grid was 49.98Hz. at around 20:43 Hrs. 220 KV Ratlam – Nagda Ckt – I tripped from both end due to disk flash over at Loc No. 138. Simultaneously 220 KV Interconnector – I & II also tripped from 400 KV S/s Nagda end. Due to the above tripping there was no consumer load loss as complete load was managed by 132 KV system. There was no generation loss and System was normalized in due course of time.
- 4. System Disturbance on 23.01.2015 at 220KV S/s Damoh :** On dated 23.01.2015 at around 11:20 Hrs. MP System was normal and frequency of National Grid was Hz. at around 11:25 Hrs. 'R'-Phase CT of 220 KV Damoh – Katni Ckt burst at 220 KV S/s Damoh creating a bus fault and resulted in operation of 220 KV Bus Bar Protection. Consequently all 220 KV feeders and 220/132 KV X'mers at 220 KV S/s Damoh tripped. Due to the above tripping there was no consumer load loss as complete load was managed by 132 KV system. There was no generation loss and System was normalized in due course of time.

## LIST OF TELEMETRY DISCREPENCY AND NOT CONNECTED PARAMETER

Sr.no.	DESCRIPTION	Status	telemetry value at SLDC	actual value at site
<b>BIRSINGHPUR 220 KV S/S</b>				
1	220/132 KV TR	OLTC	N/C	6
2	132/33 KV TR	OLTC	N/C	5
3	220 KV INTERCONNECTOR 1	MW/MVAR	N/C	115/15
4	220 KV MAIN BUS 2	VOLTAGE/ FREQUENCY	N/C	225/50
<b>SEONI 220 KV S/S</b>				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SUKHA 220 KV S/S</b>				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SAGAR 220 KV S/S</b>				
1	220/132 KV TR(160MVA) 2	cb	FAULTY	CLOSE
2	220/132 KV TR(160 MVA)132 KV SIDE	CB	FAULTY	CLOSE
<b>BEOHARI 132KV S/S</b>				
<b>ALL DATA NON CURRENT</b>				
<b>SIDHI 220 KV S/S</b>				
1	220/132 KV TR(160 MVA)	OLTC	N/C	7
2	220KV AMARKANTAK	CB	FAULTY	CLOSE
3	132/33 KV TR	OLTC	N/C	4
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SHIVPURI 220 KV S/S</b>				
1	132 KV KOLARAS	MW/MVAR	N/C	
2	132 KV MOHANA	MW/MVAR	N/C	
3	132 MAIN BUS	VOLTAGE /FREQUENCY	N/C	
4	132/33 KV XFMR 1 & 2	MW/MVAR	N/C	
5	220/132 KV TR(160 MVA)	OLTC	N/C	7
6	220KVBUSTIE	CB	FAULTY	OPEN
7	132/33 KV TR	OLTC	N/C	4
<b>ALL STATUS DATA NON CURRENT</b>				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>HOSANGABAD 220 KV S/S</b>				
1	132/33 KV TR 2,3	OLTC	N/C	4
<b>RAJGRAH (B) 220 KV S/S</b>				
1	132 KV RAGHOGRAH	CB,MW/MVAR	N/C	PROCESSES CONNECTION
2	132 KV MAQSUDANGRAH	CB,MW/MVAR	N/C	REQUIRED
3	132 KV NTPC 2	MW	25	15
4	220 KV SUJALPUR PG	MW /MVAR	N/C	15/5
5	220 KV BUS MAIN BUS 2	VOLTAGE	0	225
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>ASHTA 220 KV S/S</b>				
1	132/33 KV TR 1 & 2	OLTC	N/C	6
2	132 KVBUSCOUPLER	CB	FAULTY	CLOSE
3	220 KV BUS MAIN BUS 1	VOLTAGE	0	225
4	220 KV BUS MAIN BUS 1	FREQUENCY	0	50
5	220/132 KV XMAR 1 & 2	OLTC	N/C	7
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SABALGRAH 220 KV S/S</b>				
1	132 KV BUS COUPLER	CB	FAULTY	4
<b>BADNAGAR 220 KV S/S</b>				
1	220/132 KV TR 1,2 & 3	OLTC	N/C	
2	132 /33 KV TR	OLTC	N/C	4
<b>HANDIA 220 KV S/S</b>				
1	220/132 KV TR(160 MVA) 2	MW ,MVAR, OLTC	N/C	
2	220/132 KV TR(160 MVA) 2 PRI	CB	FAULTY	PROCESSES CONNECTION
3	220/132 KV TR(160 MVA) 2 SEC	CB	FAULTY	REQUIRED
4	220 KV ITARSI	CB	FAULTY	CLOSE
5	220 KV BARWAHA	CB	FAULTY	CLOSE
6	132 KV KANNOD	CB	FAULTY	CLOSE
7	220/132 KV XMAR 1 & 2	OLTC	N/C	8
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>VIDHISHA 220 KV S/S</b>				
1	220/132 KV TR 2 PRI	CB,MW/MVAR/OLTC	N/C	PROCESSES CONNECTION
2	220/132 KV TR 2 SEC	CB	N/C	REQUIRED
3	132 KVSAMSABAD	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>JULWANIA 220 KV S/S</b>				
1	132/33 KV TR 1, 2	OLTC	N/C	4
2	132 KV BUS BARWANI	CB	FAULTY	CLOSE
3	220/132 KV TR	OLTC	N/C	5
4	220 KV INTERCONNECTOR 2	MVAR	N/C	10

SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>DALODA 220 KV S/S</b>				
1	220 KV RATLAM	CB	N/A	PROCESSES CONNECTION REQUIRED
2	220 KV MAMATKHEDA(RENEWABLE SOLOR)	CB	N/A	
3	132/33 KV TR	CB	N/A	
<b>KOTMA 132 KV S/S</b>				
1	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
2	132 KV MANEDRAGRAH	CB	FAULTY	
<b>MAIHAR 220 KV S/S</b>				
1	220/132 KV TR	OLTC	N/C	3
2	132/33 KV TR 1, 2	OLTC	N/C	5
<b>NIMRANI 220 KV S/S</b>				
1	220/132 KV TR 1,2	OLTC	N/C	3
2	132/33 KV TR 1, 2	OLTC	N/C	5
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SARANGPUR 132 KV S/S</b>				
1	132/33 KV TR 1, ,3	OLTC	N/C	4
<b>SHEOPURKALAN 132 KV S/S</b>				
1	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
2	40 MVA TR 2	MW /MVAR	0	10 /3
<b>BARWAHA 220 KV S/S</b>				
1	220/132 KV TR 1, 2	OLTC	N/C	7
2	63 MVA TR	OLTC	N/C	6
3	132 KV CHOTIKHARGAON	MW /MVAR /CB	N/A	PROCESSES CONNECTION REQUIRED
<b>NEPANAGAR 220 KV S/S</b>				
1	220/132 KV TR(160 MVA)	OLTC	N/C	6
2	3 * 40 MVA TR	OLTC	N/C	9
3	12.5 MVA TR	OLTC	N/C	5
4	133/32 KV TR (20 MVA)	CB,MW/MVAR/OLTC	N/A	PROCESSES CONNECTION REQUIRED
5	132 KV BADGAON	CB,MW/MVAR	N/A	
6	220 KV BUS COUPLER	CB	FAULTY	CLOSE
7	220/132 KV TR 2	CB	FAULTY	CLOSE
8	132 KV CHEGAON	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>PITAMPUR 220 KV S/S</b>				
1	220/132 KV TR(160 MVA)	OLTC	N/C	5
2	132/33 KV TR	OLTC	N/C	5
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>INDORE NORTH ZONE 220 KV S/S</b>				
1	220/132 KV TR(160 MVA) 2	OLTC	N/C	5
2	133 KV SANWER	CB,MW/MVAR/OLTC	N/A	PROCESSES CONNECTION REQUIRED
3	132 KV UJJAIN	CB,MW/MVAR	N/A	
4	132 KV TRACTION	CB,MW/MVAR	N/A	
<b>RAJGRAH (DHAR) 220 KV S/S</b>				
1	132 KV BUS	VOLTAGE	N/C	134
2	132 KV BUS	FREQUENCY	N/C	50
3	132 KV KUKSHI	MW	N/C	15
<b>NAGDA 400 KV S/S</b>				
1	400 KV BUS REACTOR 1 & 2	MVAR	19	47
2	400/220 KV TR 1 & 3 (315MVA)	OLTC	N/C	6
2	400/200/33 KV TERTIARY REACTOR 2 & 3	MVAR	N/A	
<b>NAGDA 220 KV S/S</b>				
1	132 KB BUS COUPLER	CB	FAULTY	CLOSE
2	220 KV BUS COUPLER	CB	FAULTY	CLOSE
3	132/33 KV TR 4	CB	FAULTY	CLOSE
<b>DEWAS 220 KV S/S</b>				
1	220/132 TR 4	OLTC	N/C	6
2	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
3	132 KV I /C 1	CB	FAULTY	CLOSE
4	220 KV ASTHA 2	CB	FAULTY	CLOSE
5	220 KV INDORE EAST(BICHOLI)	CB	FAULTY	CLOSE
<b>SATNA 220 KV S/S</b>				
1	220/132 TR 2	OLTC	N/C	4
2	132/33 KV TR 1,2	OLTC	N/C	5
3	220 KV BUS COUPLER	CB	FAULTY	CLOSE
4	220 KV TONS PH	CB	TRANIST	CLOSE
5	220/132 TR 1	CB	FAULTY	CLOSE
<b>NARSINGHPUR 220 KV S/S</b>				
1	220/132 TR 2	CB	FAULTY	CLOSE
2	220/132 KV TR (BHEL)	MW /MVAR	66/16	120/10

3	220/132 TR 1 ,2	OLTC	N/C		4
4	132/33 KV TR 1	OLTC	N/C		5
5	132 KV BUS COUPLER	CB	FAULTY		CLOSE
6	220 KV PIPARIA	CB	FAULTY		CLOSE
7	220 KV ITARSI	CB	FAULTY		CLOSE
8	220 KV JBP 1 ,2	CB	FAULTY		CLOSE
9	132 KV I/C 2	CB	FAULTY		CLOSE
10	133/32 KV TR 2	CB,MW/MVAR/OLTC	N/A		PROCESSES CONNECTION
11	132 KV BARMAN 2	CB,MW/MVAR	N/A		REQUIRED
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED					
<b>KATNI 220 KV S/S</b>					
1	220 KV BUS COUPLER	CB	FAULTY		CLOSE
2	220 KV BUS TIE	CB	FAULTY		CLOSE
3	132 KV TR 1	CB	FAULTY		CLOSE
4	132 KV I/C 1,2	CB	FAULTY		CLOSE
5	132 KV KYMORE 1 & 2	CB	FAULTY		CLOSE
6	220/132 KV TR 2	CB,MW/MVAR/OLTC	N/A		PROCESSES CONNECTION
7	132/33 KV TR 1 & 2	CB,MW/MVAR/OLTC	N/A		REQUIRED
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED					
<b>GUNA 220 KV S/S</b>					
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED					
<b>GWALIOR 220 KV S/S</b>					
1	220/132 TR 2	OLTC	N/C		7
2	132/33 KV TR 1 ,2 & 3	OLTC	N/C		5
3	220 KVTR 1	CB	FAULTY		CLOSE
4	132/33 KV TR 4	CB	TRANIST		CLOSE
5	220/132 TR 3(160MVA 2)	CB,MW/MVAR/OLTC	N/A		PROCESSES CONNECTION REQUIRED
<b>BHOPAL 220 KV S/S</b>					
1	220/132 TR 1 , 2 , 3 & 4	OLTC	N/C		7
2	132KV BHEL	CB	FAULTY		CLOSE
3	132 KV TRANSFER BUS	CB	FAULTY		CLOSE
4	132/33 KV TR 3	CB	FAULTY		CLOSE
5	220 KV MANDIDEEP	CB	FAULTY		CLOSE
6	220/132 KV TR 2	CB	FAULTY		CLOSE
7	220 KV MAIN BUS 1	VOLTAGE	N/C		233
8	220 KV MAIN BUS 1	OLTC	N/C		7
<b>BHOPAL 400 KV S/S</b>					
1	400 KV DAMOH 1 & 2 LINE REACTOR	MVAR	N/A		
2	400/200/33 KV TERTIARY REACTOR 1 & 2	MVAR	N/A		
3	400/220 KV TR 2 (PRI)	CB	FAULTY		CLOSE
4	400/220 KV TR 1 , 2	CB	FAULTY		CLOSE
<b>SARNI 220 KV S/S</b>					
1	220/132 TR 1	OLTC	N/C		7
2	132/33 KV TR 1 & 2	OLTC	N/C		5
3	220 BUS TRANSFER	CB	FAULTY		CLOSE
4	220 KV SARNI PH 1	CB	FAULTY		CLOSE
5	220 KV BETUL	CB,MW/MVAR	FAULTY		
6	220 KV SARNI PH 2	CB,MW/MVAR/OLTC	N/A		PROCESSES CONNECTION
7	220 KV PANDURNA	CB,MW/MVAR	N/A		REQUIRED
8	220/132 KV TR 2	CB,MW/MVAR/OLTC	N/A		
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED					
<b>BAIRAGRAH 220 KV S/S</b>					
1	220 KV MAIN BUS 1	VOLTAGE	N/C		230
2	132 KV LALGHATI 2	CB	FAULTY		CLOSE
3	132 KV BUS COUPLER	CB	FAULTY		CLOSE
4	220 KV BUS TIE	CB	FAULTY		CLOSE
5	220/132 KV TR 1	CB	FAULTY		CLOSE
6	220/132 KV TR 2	CB,MW/MVAR	FAULTY		
7	132/33 KV TR 4	CB,MW/MVAR/OLTC	N/A		PROCESSES CONNECTION
8	132 KV BHOPAL	CB,MW/MVAR	N/A		REQUIRED
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED					
<b>ASTHA 132 KV S/S</b>					
1	132 KV KANNOD	CB	FAULTY		CLOSE
2	132 KV I / C 2	CB	FAULTY		CLOSE
3	132 KV I / C 2	MW /MVAR	0		20/5
4	132 KV MAIN BUS 2	VOLTAGE	N/C		133
<b>BINA 400 KV S/S</b>					
1	220 KV GUNA 2	CB	FAULTY		CLOSE
2	400/200/33 KV TERTIARY REACTOR 1 & 2	MVAR	N/A		
3	400 KV BUS 2	VOLTAGE		375	415
4	220 KV BUS 2	MVAR		198	224
5	400/220 KV TR 2 & 3 (315MVA)	OLTC	N/C		6
<b>CHHATARPUR 220 KV S/S</b>					

1	132/33 KV TR 2 , 3	OLTC	N/C		5
2	132 KV BUS COUPLER	CB	FAULTY	OPEN	
<b>INDORE 400 KV S/S</b>					
1	400/220 TR 1 ,2 ,3	OLTC	N/C		6
2	400/200/33 KV TERTIARY REACTOR 1 & 2	MVAR	N/A		
3	400 KV NAGDA LINE REACTOR	MVAR	N/A		
3	400 KV I S P LINE REACTOR	MVAR	N/A		
<b>CHEGAON 400 KV S/S</b>					
1	220 KV MOONDI	CB	FAULTY		
2	400/220 TR	OLTC	N/C		
3	220/132 KV TR 1 & 2	OLTC	N/C		
4	132 KV SANAWAD	CB	FAULTY		
5	132 KV KHARGAON 2	CB	FAULTY		
<b>DAMOH 220 KV S/S</b>					
1	220 KV PGCIL 1	MW /MVAR	34 /15		67 /05
2	132/33 KV TR 3	MW /MVAR	0		35/2
<b>JABALPUR 220 KV S/S</b>					
1	132 KV BARGI 1	MW /MVAR	0		15 /2
<b>TIKAMGRAH 220 KV S/S</b>					
1	220 KV BUS COUPLER	CB	FAULTY		CLOSE
2	220 KV BUS TIE	CB	FAULTY		CLOSE
3	220 /132 KV TR 2	MW /MVAR /CB/OLTC	N/A		PROCESSES CONNECTION
4	132/33 KV TR 2	MW /MVAR /CB/OLTC	N/A		REQUIRED
<b>SIDHI 220 KV S/S</b>					
1	220 KV AMARKANTAK	CB	FAULTY		CLOSE
2	220/132 KV TR	OLTC	N/C		4
3	132/33 KV TR	OLTC	N/C		4
<b>REWA 220 KV S/S</b>					
1	220 KV SATNA	CB	FAULTY		CLOSE
2	220/132 KV TR 1 & 2	OLTC	N/C		4
3	132/33 KV TR 1 & 2	OLTC	N/C		4
<b>KOTAR 220 KV S/S</b>					
1	220 KV TONS PH	CB	FAULTY		CLOSE
<b>AMARPATAN 132 KV KV S/S</b>					
1	132/33 KV TR (40 MVA)	MW	5		15-Jan
<b>ITARSI 220 KV S/S</b>					
1	220 KV BUS COUPLER	CB	FAULTY		CLOSE
2	132/33 KV TR 4	CB	FAULTY		CLOSE
3	132/33 KV TR 4	OLTC	N/C		4
4	220 KV HOSANGABAD	MW /MVAR /CB	0		70 /15
5	220 KV PIPARIA 1	MW /MVAR /CB	0		105/10
<b>PIPARIA 220 KV S/S</b>					
1	220 KV NARSINGPUR	MW /MVAR /CB	0		100/20
2	220 KV CHICHLI	MW /MVAR /CB	0		110/10
3	220/132 KV TR 2 (160 MVA)	CB,MW/MVAR/OLTC	N/A		PROCESSES CONNECTION REQUIRED
<b>MEHGAON 220 KV S/S</b>					
1	132 KV PORSA	MW	45		0
2	132 KV MALANPUR	CB	FAULTY		CLOSE
3	132 KV RON	CB	FAULTY		CLOSE
4	220 KV AURYA	CB	FAULTY		CLOSE
5	220/132 KV TR 2	CB,MW/MVAR/OLTC	N/A		PROCESSES CONNECTION REQUIRED
6	132/33 KV TR 2	OLTC	N/A		
7					
<b>MALANPUR 220 KV S/S</b>					
1	220 KV B/C	CB	FAULTY		CLOSE
2	220 /132 KV TR 2	OLTC	N/A		
3	220 KV GWALIOR PGCIL	CB	FAULTY		CLOSE
4	132 KV BAMORE	CB	FAULTY		CLOSE
5	132/33 KV TR 1 & 2	OLTC	N/A		5
<b>INDORE SOUTH ZONE 220 KV S/S</b>					
1	220 KV INDORE (400KV)	CB	FAULTY		CLOSE
2	220/132 KV TR 1,2 & 4	OLTC	N/A		
3	132/33 KV TR 1 & 2	OLTC	N/A		
<b>NEEMACH 220 KV S/S</b>					
1	220 KV MAIN BUS	FREQUENCY	N/C		50
<b>NEPANAGAR 220 KV S/S</b>					
1	220 KV B/C	CB	FAULTY		CLOSE
2	220/132 KV TR (160MVA)	OLTC	N/C		7
<b>RATLAM 220 KV S/S</b>					
1	220 KV BUS COUPLER	CB	FAULTY		CLOSE
2	132/33 KV TR 3	CB	FAULTY		CLOSE
3	220 KV DALDODA	CB	N/A		PROCESSES CONNECTION REQUIRED

4	132 KV BUS COUPLER	CB	FAULTY	CLOSE	
5	132 KV BADNAGAR	CB	FAULTY	CLOSE	
5	132 KV KHACHROD	CB	FAULTY	CLOSE	
<b>SHUJALPUR 220 KV S/S</b>					
1	132 KV I/C 2	CB	FAULTY	CLOSE	
2	132 KV CAPACITOR BANK	CB	FAULTY	CLOSE	
3	132/33 TR 1 7 2	OLTC	N/C		5
<b>UJJAIN 220 KV S/S</b>					
1	220/132 KV TR (160 MVA)	OLTC	N/C		5
2	220/132 KV TR 3*40 MVA	OLTC	N/C		6
3	220 KV BADOD	CB	FAULTY	CLOSE	
4	132 KV TARANA	CB	FAULTY	CLOSE	
5	132/33 KV TR 1 2	OLTC	N/C		6
<b>BADOD 220 KV S/S</b>					
1	220/132 KV TR (160 MVA) 2 PRIMARY	CB	N/A	CLOSE	
2	220/132 KV TR (160 MVA) 2 SEC	CB	N/A	CLOSE	
3	220/132 KV TR (160 MVA) 2	OLTC	N/A		6

BADNAGAR 220 KV S/S				
1	132 KV KANWAN	CB	TRANSIT	
NIMRANI 220 KV S/S				
1	220/132 KV TR 1,2	OLTC	N/C	3
2	132/33 KV TR 1, 2	OLTC	N/C	5
3	220 KV BUS	FREQUENCY	N/C	50
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
JULWANIA 220 KV S/S				
1	132/33 KV TR 1, 2	OLTC	N/C	4
2	132 KV BUS BARWANI	CB	FAULTY	CLOSE
3	220/132 KV TR	OLTC	N/C	5
4	132/33 TR 1	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
DALODA 220 KV S/S				
1	220 KV RATLAM	CB,MW/MVAR	N/A	PROCESSES CONNECTION
2	220 KV MAMATKHEDA(RENEWABLE)	CB,MW/MVAR	N/A	REQUIRED
BARWAHA 220 KV S/S				
1	220/132 KV TR(160 MVA)	OLTC	N/C	7
2	63 MVA TR	OLTC	N/C	6
3	132 KV CHOTIKHARGAON	MW /MVAR /CB	N/A	PROCESSES CONNECTION REQUIRED
NEPANAGAR 220 KV S/S				
1	220/132 KV TR(160 MVA)	OLTC	N/C	6
2	3 * 40 MVA TR	OLTC	N/C	9
3	12.5 MVA TR	OLTC	N/C	5
4	133/32 KV TR (20 MVA)	CB,MW/MVAR/OLTC	N/A	PROCESSES CONNECTION
5	132 KV BADGAON	CB,MW/MVAR	N/A	REQUIRED
6	220/132 KV TR (132 KV SIDE)	CB	FAULTY	CLOSE
7	63 MVA TR (132 KV SIDE)	CB	FAULTY	CLOSE
8	132 KB BUS COUPLER	CB	FAULTY	CLOSE
9	220 KV BUS COUPLER	CB	FAULTY	CLOSE
10	220 KV KHANDWA 2	CB	FAULTY	CLOSE
11	132 KV CHEGAON	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
PITAMPUR 220 KV S/S				
1	220/132 KV TR(160 MVA)	OLTC	N/C	5
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
INDORE NORTH ZONE 220 KV S/S				
1	220/132 KV TR(160 MVA) 2	OLTC	N/C	5
2	133 KV SANWER	CB,MW/MVAR/OLTC	N/A	PROCESSES CONNECTION REQUIRED
3	132 KV UJJAIN	CB,MW/MVAR	N/A	
4	132 KV TRACTION	CB,MW/MVAR	N/A	
RAJGRAH (DHAR) 220 KV S/S				
1	132 KV BUS	VOLTAGE	N/C	134
2	132 KV BUS	FREQUENCY	N/C	50
3	132 KV KUKSHI	MW	N/C	15
NAGDA 400 KV S/S				
1	400 KV BUS REACTOR	MVAR	N/A	
2	400/200/33 KV TERTIARY REACTOR 2	MVAR	N/A	
NAGDA 220 KV S/S				
1	132 KB BUS COUPLER	CB	FAULTY	CLOSE
2	220 KV BUS COUPLER	CB	FAULTY	CLOSE
DEWAS 220 KV S/S				
1	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
2	132 KV I /C 1	CB	FAULTY	CLOSE
3	220 KV ASTHA 2	CB	FAULTY	CLOSE
4	220 KV INDORE EAST(BICHOLI )	CB	FAULTY	CLOSE
INDORE 400 KV S/S				
1	400/220 TR 1 ,2 ,3	OLTC	N/C	6
2	400/200/33 KV TERTIARY REACTOR 1	MVAR	N/A	
3	400 KV NAGDA LINE REACTOR	MVAR	N/A	
3	400 KV I S P LINE REACTOR	MVAR	N/A	
CHEGAON 400 KV S/S				
1	400 KV BUS REACTOR	CB	FAULTY	6
2	220 KV MOONDI	CB	FAULTY	
3	400/220 TR	OLTC	N/C	
3	220/132 KV TR 1 & 2	OLTC	N/C	
INDORE SOUTH ZONE 220 KV S/S				
1	220 KV INDORE (400KV)	CB	FAULTY	CLOSE
NEEMACH 220 KV S/S				
1	220 KV MAIN BUS	FREQUENCY	N/C	50
NEPANAGAR 220 KV S/S				
1	220 KV B/C	CB	FAULTY	CLOSE



2	220/132 KV TR (160MVA)	OLTC	N/C	7
<b>RATLAM 220 KV S/S</b>				
1	220 KV BUS COUPLER	CB	FAULTY	CLOSE
2	132/33 KV TR 3	CB	FAULTY	CLOSE
3	220 KV DALDODA	MW /MVAR /CB	N/A	PROCESSES CONNECTION REQUIRED
4	132 KV BUS COUPLER	CB	FAULTY	CLOSE
5	220/132 KV TR (160MVA) 132 KV SID	CB	FAULTY	CLOSE
5	132 KV KHACHROD	CB	FAULTY	CLOSE
<b>SHUJALPUR 220 KV S/S</b>				
1	132 KV BUS COUPLER	CB	FAULTY	CLOSE
2	132 KV CAPACITOR BANK	CB	FAULTY	CLOSE
3	132 KV ARNIKALAN	CB	FAULTY	CLOSE
<b>UJJAIN 220 KV S/S</b>				
1	220/132 KV TR (160 MVA)	OLTC	N/C	5
2	220/132 KV TR 3*40 MVA	OLTC	N/C	6
3	132 KV TARANA	CB	FAULTY	CLOSE
4	132/33 KV TR	OLTC	N/C	6
<b>BADOD 220 KV S/S</b>				
1	220/132 KV TR (160 MVA) 2 PRIMAR	CB	N/A	CLOSE
2	220/132 KV TR (160 MVA) 2 SEC	CB	N/A	CLOSE
3	220/132 KV TR (160 MVA) 2	OLTC	N/A	6

SHIVPURI 220 KV S/S				
1	220/132 KV TR(160 MVA)	OLTC	N/C	7
2	220KVBUSTIE	CB	FAULTY	OPEN
3	132/33 KV TR	OLTC	N/C	4
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
HOSANGABAD 220 KV S/S				
1	132/33 KV TR 2,3	OLTC	N/C	4
RAJGRAH (B) 220 KV S/S				
1	132 KV RAGHOGRAH	CB,MW/MVAR	N/C	PROCESSES
2	132 KV MAQSUDANGRAH	CB,MW/MVAR	N/C	CONNECTION REQUIRED
3	132 KV NTPC 2	MW	25	15
4	220 KV BUS MAIN BUS 2	VOLTAGE	0	225
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
ASHTA 220 KV S/S				
1	132/33 KV TR 1 & 2	OLTC	N/C	6
2	132 KV BUS COUPLER	CB	FAULTY	CLOSE
3	220 KV BUS MAIN BUS 2	VOLTAGE	0	225
4	220 KV BUS MAIN BUS 2	FREQUENCY	0	50
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
SABALGRAH 220 KV S/S				
1	132/33 KV TR 40 MVA	OLTC	N/C	4
HANDIA 220 KV S/S				
1	220/132 KV TR(160 MVA) 2	MW , OLTC	N/C	
2	220/132 KV TR(160 MVA) 2 PRI	CB	FAULTY	CLOSE
3	220/132 KV TR(160 MVA) 2 SEC	CB	FAULTY	CLOSE
4	220 KV ITARSI	CB	FAULTY	CLOSE
5	132 KV KANNOD	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
VIDHISHA 220 KV S/S				
1	220/132 KV TR 2 PRI	CB,MW/MVAR/OLTC	N/C	PROCESSES
2	220/132 KV TR 2 SEC	CB	N/C	CONNECTION REQUIRED
3	132 KVSAMSABAD	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
SARANGPUR 132 KV S/S				
1	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
SHEOPURKALAN 132 KV S/S				
1	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
2	20 MVA TR	CB	FAULTY	
3	40 MVA TR 2	MW /MVAR	0	10 / 3
GUNA 220 KV S/S				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
GWALIOR 220 KV S/S				
1	220/132 TR 2	OLTC	N/C	7
2	132/33 KV TR 1,2 &3	OLTC	N/C	5
3	220 KVTR 1	CB	FAULTY	CLOSE
4	132/33 KV TR 4	CB	TRANIST	CLOSE
BHOPAL 220 KV S/S				
1	220/132 TR 1, 2, 3 & 4	OLTC	N/C	7
2	132KV BHEL	CB	FAULTY	CLOSE
3	132 KV TRANSFER BUS	CB	FAULTY	CLOSE
4	132/33 KV TR 3	CB	FAULTY	CLOSE
5	220 KV MANDIDEEP	CB	FAULTY	CLOSE
6	220/132 KV TR 2	CB	FAULTY	CLOSE
7	220 KV MAIN BUS 1	VOLTAGE	N/C	233
8	220 KV MAIN BUS 1	FREQUENCY	N/C	40.9
BHOPAL 400 KV S/S				
1	400 KV DAMOH 1 & 2 LINE REACTOR	MVAR	N/A	
2	400/200/33 KV TERTIARY REACTOR 1	MVAR	N/A	
3	400/220 KV TR 2 (PRI)	CB	FAULTY	CLOSE
SARNI 220 KV S/S				
1	220/132 TR 1	OLTC	N/C	7
2	132/33 KV TR 1 & 2	OLTC	N/C	5
3	220 BUS TRANSFER	CB	FAULTY	CLOSE
4	220 KV SARNI PH 1	CB	FAULTY	CLOSE
5	220 KV BETUL	CB,MW/MVAR	FAULTY	
6	220 KV SARNI PH 2	CB,MW/MVAR/OLTC	N/A	PROCESSES

7	220 KV PANDURNA	CB,MW/MVAR	N/A	CONNECTION REQUIRED
8	220/132 KV TR 2	CB,MW/MVAR/OLTC	N/A	
<b>SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED</b>				
<b>BAIRAGRAH 220 KV S/S</b>				
1	220 KV MAIN BUS 1	VOLTAGE	N/C	230
2	132 KV LALGHATI 2	CB	FAULTY	CLOSE
3	132 KV BUS COUPLER	CB	FAULTY	CLOSE
4	220 KV BUS TIE	CB	FAULTY	CLOSE
5	220/132 KV TR 1	CB	FAULTY	CLOSE
6	220/132 KV TR 2	CB,MW/MVAR	FAULTY	
7	132/33 KV TR 4	CB,MW/MVAR/OLTC	N/A	PROCESSES
8	132 KV BHOPAL	CB,MW/MVAR	N/A	CONNECTION REQUIRED
<b>SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED</b>				
<b>ASTHA 132 KV S/S</b>				
1	132 KV KANNOD	CB	FAULTY	CLOSE
2	132 KV I / C 2	CB	FAULTY	CLOSE
3	132 KV I / C 2	MW /MVAR	0	20/5
4	132 KV MAIN BUS 2	VOLTAGE	N/C	133
<b>ITARSI 220 KV S/S</b>				
1	220 KV BUS COUPLER	CB	FAULTY	CLOSE
2	132/33 KV TR 4	CB	FAULTY	CLOSE
3	132/33 KV TR 4	OLTC	N/C	4
<b>MANDIDEEP 220 KV S/S</b>				
<b>ALL ANALOG VALUE NON-CURRENT</b>				
<b>MEHGAON 220 KV S/S</b>				
1	132 KV PORSA	MW	45	0
2	132 KV MALANPUR	CB	FAULTY	CLOSE
3	132 KV RON	CB	FAULTY	CLOSE
4	220 KV AURYA	CB	FAULTY	CLOSE
<b>MALANPUR 220 KV S/S</b>				
1	220 KV B/C	CB	FAULTY	CLOSE

Sr.no.	DESCRIPTION	Status	telemetry value at SLDC	actual value at site
<b>BIRSINGHPUR 220 KV S/S</b>				
1	220/132 KV TR	OLTC	N/C	6
2	132/33 KV TR	OLTC	N/C	5
<b>SEONI 220 KV S/S</b>				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SUKHA 220 KV S/S</b>				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SAGAR 220 KV S/S</b>				
1	220/132 KV TR(160 MVA)	OLTC	N/C	8
2	220/132 KV TR(160 MVA)132 KV SIDE	CB	FAULTY	CLOSE
<b>BEOHARI 132KV S/S</b>				
<b>ALL DATA NON CURRENT</b>				
<b>SIDHI 220 KV S/S</b>				
1	220/132 KV TR(160 MVA)	OLTC	N/C	7
2	220KV AMARKANTAK	CB	FAULTY	CLOSE
3	132/33 KV TR	OLTC	N/C	4
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>WADHAN 132 KV S/S</b>				
1	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
2	132 KV BUS COUPLER	CB	FAULTY	
<b>KOTMA 132 KV S/S</b>				
1	132/33 KV TR 1, 2 ,3	OLTC	N/C	4
2	132 KV MANEDRAGRAH	CB	FAULTY	
<b>MAIHAR 220 KV S/S</b>				
1	220/132 KV TR	OLTC	N/C	3
2	132/33 KV TR 1, 2	OLTC	N/C	5
<b>SATNA220 KV S/S</b>				
1	220/132 TR 2	OLTC	N/C	4
2	132/33 KV TR 1,2	OLTC	N/C	5
3	220 KV BUS COUPLER	CB	FAULTY	CLOSE
4	220 KV TONS PH	CB	TRANIST	CLOSE
5	220/132 TR 1	CB	FAULTY	CLOSE
<b>NARSINGHPUR 220 KV S/S</b>				
1	220/132 TR 2	CB	FAULTY	CLOSE
2	220/132 KV TR (BHEL)	MW /MVAR	66/16	120/10
3	220/132 TR 1 ,2	OLTC	N/C	4
4	132/33 KV TR 1	OLTC	N/C	5
5	132 KV BUS COUPLER	CB	FAULTY	CLOSE
6	220 KV PIPARIA	CB	FAULTY	CLOSE
7	220 KV ITARSI	CB	FAULTY	CLOSE
8	220 KV JBP 1 ,2	CB	FAULTY	CLOSE
9	132 KV I /C 2	CB	FAULTY	CLOSE
10	133/32 KV TR 2	CB,MW/MVAR/OLTC	N/A	PROCESSES CONNECTION
11	132 KV BARMAN 2	CB,MW/MVAR	N/A	REQUIRED
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>KATNI 220 KV S/S</b>				
1	220 KV BUS COUPLER	CB	FAULTY	CLOSE
2	220 KV BUS TIE	CB	FAULTY	CLOSE
3	132 KV TR 1	CB	FAULTY	CLOSE
4	132 KV I/C 1 ,2	CB	FAULTY	CLOSE
5	132 KV KYMORE 1 & 2	CB	FAULTY	CLOSE
6	220/132 KV TR 2	CB,MW/MVAR/OLTC	N/A	PROCESSES CONNECTION
7	132/33 KV TR 1 & 2	CB,MW/MVAR/OLTC	N/A	REQUIRED
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>BINA 400 KV S/S</b>				
1	220 KV BINA 1	CB	FAULTY	CLOSE
2	400/200/33 KV TERTIARY REACTOR 1 & 2	MVAR	N/A	
<b>CHHATARPUR 220 KV S/S</b>				
1	132/33 KV TR 2 , 3	OLTC	N/C	5
2	132 KV BUS COUPLER	CB	FAULTY	OPEN
<b>DAMOH 220 KV S/S</b>				

1	220 KV PGCIL 1	MW /MVAR	34 /15	67 /05
2	132/33 KV TR 3	MW /MVAR	0	35/2
<b>JABALPUR 220 KV S/S</b>				
1	132 KV BARGI 1	MW /MVAR	0	15 /2
<b>TIKAMGRAH 220 KV S/S</b>				
1	220 KV BUS COUPLER	CB	FAULTY	CLOSE
2	220 KV BUS TIE	CB	FAULTY	CLOSE
3	220 /132 KV TR 2	MW /MVAR /CB/OLTC	N/A	PROCESSES CONNECTION REQUIRED
4	132/33 KV TR 2	MW /MVAR /CB/OLTC	N/A	
<b>SIDHI 220 KV S/S</b>				
1	220 KV AMARKANTAK	CB	FAULTY	CLOSE
2	220/132 KV TR	OLTC	N/C	4
3	132/33 KV TR	OLTC	N/C	4
<b>REWA 220 KV S/S</b>				
1	220 KV SATNA	CB	FAULTY	CLOSE
2	220/132 KV TR 1 & 2	OLTC	N/C	4
3	132/33 KV TR 1 & 2	OLTC	N/C	4
<b>KOTAR 220 KV S/S</b>				
1	220 KV TONS PH	CB	FAULTY	CLOSE
<b>AMARPATAN 132 KV KV S/S</b>				
1	132/33 KV TR (40 MVA)	MW	5	15-Jan

<b>SATPURA T P S</b>				
1	STP -SEONI 400 KV LINE REACTOR	MVAR	N/A	
2	STP -KORADI 400 KV LINE REACTOR	MVAR	N/A	
3	GEN 6 GT	MW/MVAR	76/4	0
4	GEN 7 GT	MW/MVAR	152/4	0
5	GEN 6 GT	CB	FAULTY	OPEN
6	GEN 7 GT	CB	FAULTY	OPEN
7	220 KV TRB	CB	FAULTY	CLOSE
8	GEN 11	MW /MVAR	N/C	220/25
<b>S G T P S T P S</b>				
1	GEN 4	CB	TRANSIT	OPEN
2	220 KV BUS COUPLER	CB	TRANSIT	OPEN
3	400 KV VANDANA LINE REAACTOR	MVAR	N/A	
4	400 KVBALCO LINE REAACTOR	MVAR	N/A	
5	400 KV BALCO	MW	100	150
<b>A T P S T P S</b>				
1	132 KV ANUPPUR 1 & 2	CB	FAULTY	CLOSE
2	132 KV HJIM	CB	FAULTY	CLOSE
3	132 KV BUS COUPLER	CB	FAULTY	CLOSE
<b>SINGHA JI S T P S</b>				
1	400 KV MAIN BUS 1	VOLTAGE	N/C	
2	400 KV MAIN BUS 1	FREQUENCY	N/C	
3	400/220 KV TR 1 & 2 (315MVA)	OLTC	N/C	
<b>BARGI H P S</b>				
1	STN TR	MW/ MVAR	0	2/1
2	132 KV BUS 2	FREQUENCY	N/A	50
<b>GANDHI SAGAR H P S</b>				
1	132 KV BUS 2	FREQUENCY	N/A	50
<b>PENCH H P S</b>				
1	132 KV BUS 2	FREQUENCY	N/A	50
<b>MADHIKHEDA H P S</b>				
1	132 KV KARERA 2	MW/ MVAR	20	40
<b>RAJGHAT H P S</b>				
<b>ALL ANALOG VALUE SHOWING 0</b>				
<b>TONS H P S</b>				
1	220 KV REWA 1	CB	FAULTY	CLOSE
2	220 KV BUS COUPLER	CB	FAULTY	CLOSE
3	GEN 2 & 3	CB	TRANSIT	OPEN