

MP POWER TRANSMISSION COMPANY LIMITED

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Jabalpur, dated: 21.11.14

То

As per distribution list

Sub: Minutes of 42nd meeting of Operation and Coordination Committee of MP.

The Minutes of 42nd meeting of the Operation and Coordination Committee of MP held **on 28th October 2014 at 10.30 AM** at **Conference hall of SLDC, MPPTCL, Jabalpur** has been uploaded on the website of SLDC 'www.sldcmpindia.com' and can be downloaded.

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

Encl : As above.

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MINUTES OF 42ND MEETING OF OPERATION & COORDINATION COMMITTEE OF MP HELD ON 28TH OCTOBER 2014 AT 10.30 AM AT CONFERENCE HALL OF SLDC, MPPTCL, JABALPUR

Shri P.A R. Bende, Chairman OCC welcomed all the participants attending 42nd Operation and Coordination Committee Meeting. He stated that last meeting was held in the month of August 2014 and August was the toughest period for SLDC/MPPMCL due to deficient rains in the state and large increase in demand as compared to Aug-2013 and hydel machines could not be run fully to meet the increased demand due to depleted reservoir level. The average frequency during the month of August-September 2014 was recorded as 49.93 Hz and 49.95 Hz respectively. He stated that frequency profile shall be improved during rabi season due to load pattern of Northern region. He informed the committee that after implementation of Deviation Settlement Mechanism, Additional Charges and Capping Amount in pool account of RLDC and MP has increased manifold which has caused financial burden on beneficiaries / DISCOMs. He has given graphical presentation on comparison of pool amount balance in regional/state pool for the period 17.02.2014 to 31.08.2014 (after implementation of DSM) to 18.02.2013 to 01.09.2013 (at the time of UI mechanism) due to additional charges and capping amount. He further informed that as per graph it is very clear that after implementation of DSM the total amount balance in regional pool (WR,NR and ER) in respect of additional charges and capping amount is about Rs 1330.84 crore as compared to Rs. 14.54 crore when UI mechanism was in vogue for same period. Similarly, during the same period the additional charges and capping amount in MP pool account has increased to about Rs.100.84 cores after DSM as compared to Rs. 2.23 crores before implementation of DSM. The same comparison of various constituents of Western Region was also shown in the presentation. SLDC MP is taking this matter in WRPC meeting as an agenda item with a request to take up the matter with the MoP and Gol at regional level. He further informed that the SLDC in their comments on draft DSM of Hon'ble CERC has mentioned that before applicability of DSM regulation, primary response from Generators, ancillary services and spot market are essential.

Chairman OCC informed the committee that there is one more meeting in post lunch session regarding comments submitted by various State Grid entities on the draft Balancing and Settlement Code (BSC). As per directives of MPERC, SLDC has submitted the proposal for amendment to M.P. Electricity Balancing and Settlement Code 2009. The East Discom and MPPGCL have also submitted their comments on the draft BSC to the Commission. In the public hearing MPERC stated that SLDC has not concurred with most of the comments offered by these intra state entities and directed SLDC to convene a meeting with the Distribution companies and MPPGCL to discuss all the amendments proposed by interstate entities and a conclusive proposal be submitted to the Hon'ble Commission. The representative from Commercial Sections of Discoms, MPPGCL and MPPMCL have also been invited for the meeting to get comments of all the entities before submission of consolidated proposal on draft BSC to the Hon'ble Commission.

Chairman OCC stated that the Protection Audit of remaining EHV sub-stations and power stations is not included as agenda item in this meeting. Protection Audit already conducted by the teams constituted by SLDC has been considered as Third Party Protection Audit by CEA, New Delhi. The deficiencies observed during Protection Audit already conducted were not rectified by any of the entities completely. He requested that the deficiencies observed during protection audit should be rectified at the earliest. He informed that ISP has submitted that some of the major deficiencies shall be attended after Third Party Protection Audit proposed to be conducted by them and requested ISP that deficiencies observed during the earlier Protection Audit shall be rectified and report may be submitted to SLDC for onward submission to WRPC in compliance to CERC order in this regard. He further informed that the status report submitted by MPPGCL on deficiencies observed during the Protection Audit is not satisfactory and

most of the issues have been mentioned to be completed by 2015-16 whereas category-B deficiencies were to be rectified by 21.08.2014.

He further stated that, the CEA has requested to submit the list of 220 kV and above sub-stations where Protection Audit is to be conducted in the State in near future. The Chairman OCC proposed to constitute teams comprising of engineers from SLDC, MPPTCL, MPPGCL, NHDC & Jaypee Bina to carry-out the Protection of remaining sub-stations from February 2015. On receipt of list of sub-station from MPPTCL, a meeting will be arranged to finalize the teams and dates for Protection Audit of each sub-station.

Thereafter, Chairman, OCC requested Shri K.K. Parbhakar, Member Secretary (OCC) to take up the agenda items for discussion.

ITEM NO. 1 : CONFIRMATION OF MINUTES :

Minutes of 41st meeting of Operation & coordination committee of MP held on 27th August 2014 at State Load Despatch Centre were forwarded to the committee members vide No. 07-05/SG-9B-II/3561 dated 10.10.2014. No comments have been received to SLDC. Committee has confirmed the minutes.

ITEM NO. 2 : REVIEW OF SYSTEM OPERATION DURING THE MONTHS AUGUST 2014 TO SEPTEMBER 2014.

2.1 Frequency Particulars :

Member Secretary informed the committee that during September 2014 the system frequency was below 49.9 Hz for 28.07% of time against 37.87% of time during August 2014. The system frequency was within the IEGC range of 49.9-50.05 Hz for 55.70 % of the time during September 2014 against 49.50% of time during August 2014. The average monthly frequency was 49.95 Hz during September 2014 whereas it was 49.93 Hz in the month of August 2014. The system frequency did not touch 49.20 Hz during the above period.

The detailed frequency particulars for the month of August 2014 and September 2014 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
Aug 2014	49.93 Hz	49.53 Hz	50.14 Hz	49.36 Hz	50.34 Hz
Sept 2014	49.95 Hz	49.61 Hz	50.16 Hz	49.34 Hz	50.37 Hz

2.2 Operational Matters-

2.2.1 Operational Discipline : Member Secretary informed the committee that system operated in terms of frequency profile for the months August 2014 and September 2014 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
Aug 2014	37.87 %	12.63 %	49.50 %	49.93 Hz	0
Sept 2014	28.07 %	16.17 %	55.70 %	49.95 Hz	0

Member Secretary informed the committee that as compared to Aug 14 there was improvement in frequency profile during September 2014 but the pattern was same for both the months. Member Secretary presented a graphical representation of Discomwise anticipated and Actual demand during Diwali period. He pointed that demand forecasted by East and Central Discom was on higher side whereas the forecasted demand of West Discom was in order. The wrong forecasting of demand by East and Central Discom was resulting in huge under drawal of MP particularly during evening peak hours. To control the under drawl of MP, SLDC stopped the hydel machines which caused over drawal as it reduced the schedule of West Discom. Chairman OCC requested all the Discoms to take due care while forecasting their demand.

GM(PM), MPPMCL also requested Discoms to forecast their demand considering all possible factors affecting the demand while computing demand projection for the next day. The sale/purchase of power is being planned by MPPMCL based on the demand projection submitted by the Discoms. Any wrong projection may lead to excessive under drawal or over drawal during the real time of operation. He further informed that additional power from the power plants allocated to MPPMCL is allocated to Discoms on the basis of requirement of power submitted by the Discoms in 96 time blocks on day ahead basis to minimize DSM charges and also to avoid power cuts in the Discoms. However, if the projections are not accurate the very purpose of precise allocation of power from power plants allocated to MPPMCL is defeated.

2.3.1 Voltage Profile: Member Secretary informed the committee that date wise voltage profile at some of the important 400 KV and 220 KV substations during the months August 2014 and September 2014 is enclosed at **Annexure -2.3.1**.

			Aug 2014				Sept 2014			
Sr	Name of 400 KV	Max. Voltage observed		Min. Voltage observed		Max. Vol	tage observed	Min. Voltage observed		
NO	Substation	Voltage	Date	Volta ge	Date	Voltage	Date	Voltage	Date	
1	Indore	421	12.08.14			421	05.09.14			
2	Itarsi	423	31.08.14			425	03.09.14			
3	Bina	429	08.08.14			426	11.09.14			
4	Gwalior	416	24.08.14			426	13.09.14			
5	Nagda	425	26.08.14			426	11.09.14			
6	Khandwa	430	07.08.14			434	11.09.14			
6	Satpura	425	06.08.14			425	11.09.14			
7	Birsingpur	428	06.08.14			427	03.09.14			
8	ISP	426	10.08.14			426	04.09.14			

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

9	Bina 765kV	805	07.08.14	 	810	13.09.14	
10	Seoni 765 kV	792	07.08.14	 	797	11.09.14	

2.3.2 Status of Capacitor Banks in sub-transmission system : Member Secretary informed the committee that the updated information of the status of capacitor banks in sub-transmission system as on 30th September 2014 as submitted by **DISCOMs is detailed below :**

DISCO	Capac install condit	itor bank ed in goc ion (№)	d	Capac install defect repair	titor ban led but tive & are able (No	k e)	Requirem ent of repair against each unit (No)	Requir agains repaira capaci banks	ement t non- able tor	Capacitor banks alr covered t ADB T-V	r eady under	Balanc capacit banks covere other scheme	e tor to be d in es
Ň	600 KVA R	1200 KVAR	150 0 кva	600 KVA R	1200 KVA R	1500 KVA R	No of 100 KVAR Units required	600 KVA R	1200 KVA R	600 KVAR	1200 KVAR	600 KVA R	1500 KVA R
			R										
wz	583	421	99	56	75		595	25	52				226
cz	5	687	433	0	0	0	0	0	0	0	588	0	331
EZ	406	166		51	25		94	0	0			32	10

DISCOMs have also furnished the updated additional information as detailed below .:

Figures are in MVAR

S N	Particulars	WZ	CZ	EZ
1	MVAR capacity of connected capacitors in good condition	855	1476.9	382
2	MVAR capacity of connected capacitors in partially good condition	123.6	0	60.6
3	MVAR capacity of connected capacitors in good condition including partially good condition.	978.6	1403.4	442.63
4	MVAR capacity of connected capacitors covered under ADV T-V	148.5	496.5	Nil
5	Grand total MVAR of capacitors including that are proposed in ADB T-V	1127.	1973.	442.6

SE(T&C), MPPTCL informed the committee that effect in voltage is not observed on EHV side when capacitor banks installed in sub transmission system by Discoms are in service. Chairman OCC requested the DISCOMs to look into the matter. The representative from Central Discom has intimated that capacitor banks installed are in service and working properly. If capacitor banks installed on sub-transmission system are not in working condition, the voltages at EHV sub-stations of MPPTCL may go down. Therefore Member secretary requested all the Discoms for installation of meters on Capacitor Banks and to take their MRIs to ensure that the capacitor banks are in working condition and also to know their monthly useful hours.

Chairman OCC stated that it is observed that though some of the capacitor Banks are in healthy condition but cannot be taken into service due to problem in its control units or other problems. It is

requested that henceforth such capacitor banks shall be indicated in separate column as "Capacitor bank healthy but not in service due to control ckts. Problems".

2.3.3 Status of Shunt Capacitor Banks installed at various EHV Transmission Substations: Member Secretary informed the committee that the updated information of the status of Installed capacitor banks (in MVAR) in EHV transmission system as on 30th September 2014 as submitted by MPPTCL is given below :

Voltage Class	Capacitor bank installed in good condition (No/Mvar)	Capacitor bank installed but defective & are repairable (No/Mvar)	Requireme nt of repair against each unit (No/Mvar)	Requirement against non- repairable capacitor banks	Capacitor banks already covered under ADB T-V	Balance capacitor banks to be covered in other schemes
220 KV	62 MVAR	All in Service				
132 KV	1221 MVAR					
33 KV	3602MVAR					-
Total	4885 MVAR]				

Chairman OCC requested MPPTCL to submit the plan of installation and commissioning of capacitor banks in EHV system during the current financial year (2014-15). He informed that MPPTCL is only submitting the status of capacitor bank already installed and it appears that there is no requirement for installation of additional capacitor banks in the EHV system of MPPTCL. He further requested that the format may please be revised by T&C, MPPTCL indicating the capacitor banks installed as on date, commissioned during current financial year and plan for commissioning of additional capacitor banks in the remaining period of current financial year.

2.4.1 Status of completion of on going Transmission Schemes being executed by MPPTCL : Member Secretary informed the committee that the various ongoing Transmission Schemes completed during the current financial year 2014-2015 (upto September 2014) and plan for completion of various ongoing Transmission Schemes for the Year 2014-2015 as submitted by MPPTCL in the meeting is enclosed as Annexure-2.4.1.

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 nor gone below during August 2014 and September 2014. 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.

Member Secretary requested T&C, MPPTCL to furnish the updated revised list of df/dt relays installed at various EHV S/s. Chairman OCC requested MPPTCL to remove those feeders which were covered under df/dt and now under ring main system. New radial feeders may be identified for installing df/dt relays so that desired load relief can be obtained. On receipt of the information from T&C MPPTCL, a meeting shall be convened to finalize the installation of df/dt relays.

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 August 2014 and September 2014 is enclosed at **Annexure 2.5(i)**.

Member Secretary informed that the supply hours to Rural DLF and Rural irrigation given by Central Discom was less than other Discoms and requested Central Discom to intimate the reason for the same. The representative of Central Discom informed the committee that there is overloading problem in 33 kV feeders in some areas such as Seopurkalan, Pipariya etc. and unscheduled load shedding is to be taken on rural feeders of these area to arrest the over loading problem. Chairman OCC informed that the supply hours to consumers are being submitted to CEA, New Delhi regularly and requested Central Discom to augment the network so that 24 hours committee supply could be ensured.

(ii) Group Allocation to Newly Commissioned existing EHV substations :- Member Secretary informed the committee that as per information submitted by CE (Plng. & 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).

SN	DISCOM	Region	No of 33 KV feeders for which			
			groups to be allocated			
01		Jabalpur	13			
02	EAST	Sagar	03			
03	EAST	Rewa	04			
04		Total	20			
05		Indore	02			
06	WEST	Ujjain	03			
07		Total	05			
08		Bhopal	03			
09	CENTRAL	Gwalior	02			
10		Total	05			
TOTAL		Grand Total	30			

The matter was discussed in the meeting and the revised information as submitted by Discom is enclosed as **Annexure 2.5.(ii)**.

ITEM NO. 3 : OPERATIONAL PLANNNING

3.1 Anticipated availability for the Month of November 2014 to Mar 2015.: Member Secretary informed the committee that the details of Source wise anticipated availability for the period November 2014 to March-2015 is enclosed in **Annexure-3.1**. This has been worked out on the basis availability as furnished by the respective utilities.

Member Secretary presented the month wise availability, demand & shortages/surplus for the month of November-2014 to March-2015. Chairman OCC stated that Discoms are requested to review anticipated demand furnished for coming rabi season. He further informed that Hydel availability has been taken on higher side while preparing availability. Chairman OCC stated that thermal availability furnished by MPPGCL for the coming months is on lower side i.e. 2300 MW as against installed capacity of 3720 MW. MPPMCL requested MPPGCL that committed thermal generation should be

maintained by MPPGCL during the rabi season so that load management could be planned accordingly. Further Chairman OCC requested MPPMCL to explore the possibility for arranging additional power to meet the irrigational load during Rabi season.

3.2 Generating Units under planned outage and proposed maintenance programme : Member Secretary informed the committee that there is no AOH programme of MPPGCL thermal and hydel units during Nov 14 to Mar 15. The MPPGCL has deferred AOH programme of the following thermal units during 2014-15 :-

- 1. Amarkantak Unit no. 3 (120 MW)
- 2. Amarkantak Unit no. 4 (120 MW)
- 3. SGTPS unit no. 2 (210 MW)
- 4. SGTPS Unit no. 3 (210 MW)
- 5. SGTPS Unit no. 5 (500 MW)

3.2 Proposed shutdown programme of Transmission lines / Transformers : Member Secretary informed the committee that the proposed shutdown of transmission elements for the period 27.10.2014 to 30.11.2014 submitted by MPPTCL is enclosed as **Annexure-3.2**.

Chairman OCC requested that shut down proposed on 400 KV Sarni – ISP Ckt (S.No.9 & 10 of annexure-3.2) for dt 14.11.2014 & 15.11.2014 for maintenance work may kindly be clubbed with 400 KV Satpura – Ashta new line crossing work (tentative date 30th OCT 2014).

3.3 **Long Outages of transmission elements and protections :** The latest status of Long outage of transmission elements and protection has not been submitted by MPPGCL. MPPGCL is requested to submit the same in the meeting. However the status submitted by MPPGCL in 41st OCC meeting and status submitted by MPPTCL are given below :

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	Price bid opened on dtd. 24.07.14 order will be placed shortly. However the order has not been placed so far. Work is expected to be completed by Dec'14.
2	Main Breaker of 500 MVA ICT at Satpura	18.04.2014	Capacitor pole of R-phase Burst	The price Bid was opened on dtd. 18.06.14. Order will be placed shortly. Work is expected to be completed by Nov'2014
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 single
4	220 KV Bus bar protection scheme	Since commissioning	The scheme not available	offer tender enquiry will be issued by CE (MM) at

	at SGTPS	of 220 KV		Jabalpur. Work is expected
	Birsinghpur	switch yard		to be completed by April'15.
5	220 KV Bus bar	Since	Not mentioned	However the same is also
	differential	commissioning		included in R&U scheme of
	protection at TONS			WRPC.
	HPS			Latest Status Not Submitted
				by MPPGCL
6	12.5 MVA 132/33	24.09.2014	Not mentioned	CE(T&C), MPPTCL informed
	KV transformer at			that 12.5 MVA, 132/33KV X'mer
	132 KV S/s Bijawar			for 132 KV S/s Bijawar has
				been released from Sagar and
				shall be commissioned by 15 th -
				20 th November 2014 at Bijawar.
7	20 MVA 132/33 KV	06.08.2014	Not mentioned	The transformer declared
	transformer at 220			failed and replaced with 40
	KV s/s			MVA transformer which has
	Hoshangabad			been charged on 10.10.14
8	20 MVA	08.10.2014	bushing of 20	MPPGCL informed that
	Transformer at		MVA X'mer has	defective bushing will be
	Bargi HPS		failed	replaced shortly.
9	50 MVA Station	02.08.2014	R-Phase	MPPGCL intimate that the
	Transformer of		bushing	work is being done by BHEL
	Satpura TPS # 10		problem	and shall be available shortly.

Chairman OCC requested MPPGCL to take the necessary action for commissioning of Bus Bar Differential Protection Scheme at above power station and installation of Bus-1 Reactor at STPS. Representative of MPPGCL informed that Bus Bar Differential protection scheme specifications are under finalization stage and tender is yet not issued. He also informed that Bus reactor at STPS has been purchased and its installation work order has to be placed.

Chairman OCC informed the committee that the tie breaker of 400 KV S/s Satpura has been continuously engaged in 500 MVA ICT for more than 6 months and if main breaker of any critical transmission element becomes faulty that element has to be kept out of service which may cause threat to grid security. If this tie breaker engaged for 500 MVA ICT itself becomes faulty, it would be serious threat to the 220 kV network of Itarsi and Sarni area. He requested MPPGCL to ensure the availability of tie breaker at the earliest after repair of main breaker of 500 MVA ICT.

ITEM NO. 4: **OPERATIONAL STATISTICS FOR THE MONTH OF AUG 2014 and SEPT 2014**: Member Secretary informed the committee that 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.

ITEM NO. 5 : SYSTEM DISTURBANCE IN MP DURING AUG 2014 AND SEPT 2014 : There was no major grid disturbance in MP during Aug 2014 and Sept 2014. However the Grid Disturbances and Grid Incidents in MP during these months are given in **Annexure 5.0**.

Chairman OCC stated that trippings at 400 KV & 220 KV S/s Bina have occurred frequently since April 2014 and Bina is on critical transmission corridor connecting WR & NR grid. WRLDC is viewing very seriously tripping of these sub-stations and requested for regular testing / maintenance of transmission elements/equipments for system reliability and security.

Member Secretary informed that the load dropping scheme at Pithampur was not operated during system disturbance occurred at Pithampur Substation on dtd. 31.08.2014. CE(T&C), MPPTCL informed that the instructions for regular checking has already been issued and the defect has been attended and now load dropping scheme is in working conditions.

ITEM NO. 6.0 : IMPORTANT OPERATIONAL ISSUES

6.1 Injection of infirm power by Sri Singhaji Unit no. 2 of MPPGCL without injection schedule: Member Secretary informed that SLDC is entrusted with the responsibility of carrying out real time operation for grid control and despatch of electricity within the state through secure and economic operation of the state grid in accordance with the Grid Standards, IEGC and MPEGC. For safe, secure & reliable operation of the integrated grid, it is necessary that all the state grid entities comply to the system security aspects of the Grid Code. Any additional generation evacuated to the transmission network without informing SLDC, it may cause threat to the grid security & may cause serious reliability issues.

SSTPS unit No.2 was synchronized at 00:27 Hrs of 15.10.2014 and generation on the unit was raised to 605 MW in the morning and subsequently unit was stopped at 06:40 Hrs. GCC / SSTPS neither informed nor obtained consent of SLDC for injecting such a huge quantum of power into the state grid and even stoppage time of unit was also not intimated. SLDC could not know the generation on unit No.2 of SSTPS as the telemetry of this unit is not made through by the MPPGCL. The power injected by unit No.2 also made the demand calculation incorrect in the SCADA system. It is to mention here that schedule for injection of infirm power by the generating station is to be submitted to SLDC/RLDC before actual injection of power into the grid and only on acceptance of the same, injection to the grid need to be made as for injection schedule given by SLDC.

Nodal Officer, West Discom also pointed out that the on dtd. 15.10.14 & 16.10.14 display of drawal of West Discom in remote VDU was not correct and same was reported to SE(Opn), SLDC, Jabalpur. SE(Opn), SLDC intimated West Discom that the telemetry of Unit No.2 of Sri Singhaji TPS is not available and the injection of SSTPS is being entered manually for computing West Discom drawal. West Discom also pointed out that the schedule of West Discom is not prepared as per real time demand forecasting of West Discom, resulting problem in their demand management and forecasting of demand.

Such incident of injecting infirm power into the grid by SSTPP is violation of Section 32 of Indian Electricity Act and Section 5.2 "System Security Aspects" of India Electricity Grid Code. Such type of violations may cause threat to the secured operation of the integrated grid. In future the SLDC in the interest of safe and secured operation of the integrated grid, shall be compelled to bring to the notice of the State Commission such instances by any of the state entity endangering the reliability and security of the grid.

Chairman OCC stated that COD of unit 2 of SSTPS will not be accepted until its RGMO is installed & commissioned and telemetry is made available at SLDC. MPPGCL replied that the matter will be taken up with respective authorities for necessary compliance.

6.2 Charging of Station Transformer No. 2 at Sri Singhaji TPS : Member Secretary stated that as per IEGC regulation no.5.2 and MPEGC regulation 6.1, any new transmission element is to be charged with prior intimation to RLDC/SLDC. Sri Singhaji TPS had charged Station Transformer no. 2 in the month of April 2014 without prior permission of SLDC / Sub-SLDC Indore. MPPGCL has not informed charging of this Station Transformer to SLDC so far and this is violation of IEGC and MPEGC.

Member Secretary informed that the Procedure for availing Start up power from the Grid by the Generating Stations under commissioning phase shall be settled through Deviation Settlement Mechanism as per approve procedure of CERC dtd. 12.08.2014. He stated that the charges of power drawn by Sri Singhaji TPS through this Station transformer for unit no. 2 are to be paid to the West Discom by the MPPGCL upto 12.08.2014 and thereafter charges for power drawn shall be computed as per approved procedure of CERC for drawal of startup power by generating unit(s) through State Deviation Settlement Mechanism account prepared by SLDC.

6.3 IMPLEMENTATION OF AUTOMATIC DEMAND MANAGEMENT SYSTEM: Member Secretary informed the committee that 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 implementation of ADMS was discussed in various OCC meetings and it was agreed by the Discoms that SLDC shall engage consultant for working out the scheme for which the Discoms will share the cost in proportion to their normative percentage allocation as notified by the Govt. of MP. In the meantime the Energy Department vide letter No. 164/2013/13 dated 08.01.2014 has directed MPPTCL to explore the possibility of implementation of ADMS through Transco SCADA. Accordingly the matter was discussed by CE (Plng. & Design) MPPTCL and SLDC with the SCADA Vendor and finalized the logics for implementation of the ADMS in Transco SCADA. Prior to this the logics for operation of the group feeders under ADMS were finalized in consultation with Discoms and MPPMCL.

The SCADA Vendor has already submitted its technical proposal and MPPTCL is in process of obtaining the commercial proposal from the SCADA Vendor. In the Suo Motu petition no. 208/SM/2011 the CERC had directed the SLDCs to submit their action plan for implementation of ADMS and SLDC has submitted that the ADMS shall be implemented through Transco SCADA on behalf of the Distribution Companies of MP. It is likely that the pilot project shall be implemented by 1st quarter of 2015 and the completion would be achieved during 3rd/4th quarter of 2015.

In the last meeting Chairman OCC has informed that the funding of the implementation of ADMS shall be shared by the Distribution Companies in proportion to their normative percentage allocation as notified by the Govt. of MP. The SLDC is in process of taking up the matter with the respective Distribution Companies and requested Discom representatives to apprise the same to their higher authorities/management for taking appropriate action in the matter. Discoms have not intimated any progress in this matter.

MPPTCL informed that commercial offer will be available by 1st week of November 2014. Chairman OCC requested all the DISCOMS to apprise their higher authorities regarding funding of ADMS Project as intimated in last meeting also.

6.4 CHECKING & TESTING OF PROTECTION RELAYS AT STPS, SGTPS & TONS HPS (MPPGCL):

Chairman OCC informed that in the recent past grid incidences/ trippings occurred at STPS Sarni, SGTPS Birsinghpur and Tons HPS and the reason for such tripping is suspected mal-operation or improper setting of protection relays.

SGTPS, STPS and Tons HPS are important generating stations and any tripping of evacuating circuits due to mal-operation/improper setting of protection relay is serious threat to the grid security. Therefore relay testing and proper relay coordination as per CBIP standards and CEA(Grid Standards) Regulation is utmost necessary to avoid such type of undesired trippings of lines in future. Further, any tripping either at 220 kV sub-station Sarni or STP causes tripping of 220 kV STP-Sarni interconnector, which is also needed to be investigated.

Thus SLDC proposes to constitute teams from SLDC Engineers and T&C, MPPTCL Engineers to carry out the intensive protection relay checking & testing work in the presence of MPPGCL Engineers at above mentioned power stations to ensure safe, secure & reliable operation of the grid.

In addition to checking & testing of protection relay at power stations, the team will also carry out the checking & testing of relays at 220 kV substation Birsinghpur and 220 kV substation Kotar and 220 KV Sarni sub stations while performing work at SGTPS, Tons HPS and Satpura TPS, respectively.

The work done by the team constituted by SLDC shall be limited to testing & checking of protection relays and may not be treated as third party protection audit. Any modification /change in relay setting suggested by the team shall be done by the site officials of power stations/ substations.

It is requested that name of the coordinating officer from each power station and substation/Testing may be intimated in the meeting so that necessary arrangement could be finalized. Further, arrangement for stay and necessary local transport facility shall be extended at the respective power stations.

MPPGCL & MPPTCL agreed for checking and testing of protection relays in the above matter and the name of the officers for assigning the above works will shortly be intimated to SLDC.

6.5 Generator Transformer / ICT Tap position: Member Secretary informed that new SCADA system is being commissioned at WRLDC / MP SLDC by end of 2014. WRLDC is requested to furnish tap position and corresponding voltages for each Generator transformer/ ICT for EMS software. All the State Utilities are requested to submit the same to SLDC at the earliest in the format given below : -

Sr. No.	Tap Position	Corresponding Voltage in KV	Current Tap Position
1			
2			
3			
4			
5			

The matter was discussed in the 41st OCC meeting and T&C, MPPTCL has submitted the details of tap positions and corresponding voltages at different tap 400 kV Class Transformers installed in MPPTCL system. The information has been submitted without mentioning the current tap position of 400 kV class transformers. T&C, MPPTCL is requested to submit the current tap position of 400 kV class transformers installed in MPPTCL system at the earliest so that the complete information could be forwarded to WRLDC.

The MPPGCL has furnished the details of Current Tap Positions of GT/ICT installed at various thermal and hydel power stations without details of all the tap positions and corresponding voltages. MPPGCL is requested to submit the details of all the tap positions with corresponding voltages of generator transformers and ICTs as well as current tap positions of transformers installed at various thermal / Hydel power stations in the meeting.

M/s BLA and M/s JP Bina have not submitted any detail to SLDC and they are requested to submit the same in the meeting.

All the entities except for 315 MVA ICTs at SSTPS, MPPGCL have submitted the desired information. MPPGCL is requested to furnish the information in the above format pertaining to 315 MVA, ICT I & II at SSTPS.

6.6 SENDING DISTURBANCE RECORDER(DR)/SEQUENTIAL EVENT LOGGER (SERS) OUTPUT TO WRLDC:

Member Secretary informed the committee that 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.

MPPTCL/MPPGCL requested that the time slot allotted (i.e., within 24 Hrs.) for submitting the DRs and SE

Rs output along with detailed report of all grid incidents/disturbances is insufficient and this should be increased to 72 Hrs.

Chairman OCC stated that the matter will be taken up with WRLDC in next WRPC-OCCM but till the matter is resolved and time slot is increased to 72 hrs, the details shall be submitted within stipulated time limit (i.e., within 24 Hrs.) positively.

6.7 REACTIVE CAPABILITY TESTING OF GENERATORS IN WESTERN REGION : Member Secretary informed that In 464th OCC meeting of WR, WRLDC intimated that reactive performance of generators is being monitored every month. It is observed that most of the large size of generators (500 MW and above) are contributing in voltage control by MVAR absorption/generation. Further smaller size units (<500 MW) are injecting MVAR even at high voltage. The WRLDC has submitted few typical examples in which it was intimated that 210 MW units of Satpura TPS are injecting reactive power in high voltage conditions.

During 429th and 430th OCC meetings of WR, it was decided to conduct Reactive Power Capability testing of 210 MW unit of VSTPS, Birsinghpur and Korba NTPC. The reactive capability testing was conducted for 210 MW VSTPS unit no. 4 only on 24-02-2012. In the 464th meeting it was again decided that a team comprising of representatives from concerned generating utility, concerned SLDC, WRPC and WRLDC may be constituted to finalize a procedure for performing Reactive Capability test of the generators in Western Region. The MPPGCL may intimate the date and name of the coordinator so that the same could be forwarded to WRPC & WRLDC.

MPPGCL representative replied that the name of the coordinator will be informed after consultation with the higher authorities.

6.8 One terminal node of IABS of MPPMCL at SLDC for Load Forecasting :

Chairman OCC informed the committee that as per IEGC Regulation 5.3(b) of CERC, each SLDC has to develop methodologies/mechanisms for daily/ weekly/monthly/yearly demand estimation (MW, MVAr and MWh) for operational purposes. SLDCs shall create this facility at the earliest so that demand estimation data could be submitted to WRLDC to facilitate on-line estimation of demand for daily operational use for each 15 minutes block at regional level. In addition to this, the estimated demand forecasted shall also be utilised for load management and planning at state level. WRPC has raised the issue of providing forecasted demand in 96 time block to WRLDC by the constituents in several OCC meetings. It was decided in the 25th TCC/WRPC meeting to form a task force for exploring development of software for load forecasting at SLDC level. In the meeting of task force held at Vadodara it was decided that M/s Metelogical would be service provider for MP for providing load forecast software free of cost for two months. In the above context representative of M/s Metelogical had also visited MP SLDC on 28.06.2014.

In the meantime MPPMCL has informed vide letter no. GM(PM)/403 dtd. 27.06.14 addressed to SE(Opn), WRPC Mumbai that MPPMCL have already placed an order to M/s L&T Infotech ltd for providing load forecast services on behalf of all three Discoms and the project is in advance stage with request to exempt MP from implementation of Load Forecasting Mechanism to avoid duplicacy. It is pertinent to mention here that such software is to be developed at SLDC level only.

In view of the above SLDC vide letter no.3529 dtd 08.10.14 requested GM(PM), MPPMCL to provide one terminal node of IABS of MPPMCL at SLDC, MPPTCL, Jabalpur for online submission of daily/monthly/yearly forecasted demand in 15 minutes time block to WRLDC for better system operation at regional level. This would also be immense help in maintaining historical data of demand estimation/forecasting at SLDC.

Member secretary requested MPPMCL to provide one terminal at SLDC for submission of Load Forecast to WRLDC. MPPMCL has confirmed that one terminal of same shall be provide to SLDC.

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

7.1 TRIAL RUN OF DG SETS :

Member Secretary informed the committee that 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. In 461ST meeting of WRPC, WRPC intimated that the test report of Diesel Generator sets are not being submitted by the state utility on regular basis. All the intra state generating companies are requested to submit the weekly trial run test report of DG sets on quarterly basis to WRPC on regular basis under intimation to this office.

Member Secretary informed the committee that the matter was discussed in 41st OCC meeting also, and 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. He requested MPPGCL and NHDC representative that the information should be submitted directly to SE(Opn), WRPC and WRLDC, Mumbai under intimation to SLDC.

7.2 Black Start Mock Drill of Tons, Madikeda, Rajghat and Birsingpur HPS:

Member Secretary informed the committee that 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 machines. It is to clarify that decision for conducting mock drill at these power stations is under the purview of SLDC and SLDC has 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. He requested MPPGCL to submit the time schedule of rectifying the problems of governors in these units and plan for Black Start Mock Drill of Tons, Madhikheda, Ratjghat and Birsinghpur HPS and intimate to SLDC in this regards. MPPGCL has not submitted any response in this regard.

7.2 Black Start Mock Drill of Bargi HPS: Member Secretary informed the committee that the black start mock drill exercise at Bargi Hydel Power Station was successfully conducted on 8th October 2014. The above black start exercise involved two major stages:-

- a) **Stage-I** : Creating an islanded subsystem by separating out unit #2 (45 MW) at Bargi HPS along with radial load at 132/33 kV Lakhnadaun s/s fed through 132 KV bus #2 of Bargi HPS, followed by operation of the created island around the Bargi unit for some time.
- b) Stage-II : Creating a blackout in the islanded subsystem created with one unit (45 MW unit #2) of Bargi and radial load at 132/33 kV Lakhnadaun s/s, start of one unit at Bargi, charging of dead 132 KV bus-II at Bargi, charging 132 kV Bargi-Lakhnadaun line, islanded operation of the Bargi HPS unit with radial load at Lakhnadaun s/s followed by synchronising this island at Bargi HPS.

The islanded system (prior to blackout) with about 17 MW load was run for about 12 minutes i.e. from 11.00 hrs to 11.12 hrs. After stabilizing the island for few minutes, Unit No.# 2 was hand tripped at 11:12 hrs. This has created black out in the area fed from Lakhnadaun S/s. After starting DG set at Bargi HPS & subsequent synchronisation of Unit no. 2, the restoration of the supply to Lakhnadaun area post black out took about 19 minutes i.e from 11.12 hrs to 11.31 hrs. The islanded portion operated for about 20 minutes without any difficulty. The islanded portion check-synchronized with the NEW grid by closing 132 kV Bus coupler at Bargi HPS at 11:51 Hrs.

The observations that need immediate attention by MPPGCL are described hereunder :

- (1) During mock drill exercise AVR and Governor did not work in auto mode and hence operated manually. MPPGCL may take suitable action to restore auto operation of AVR and Governor.
- (2) The ampere meter on 132 kV Bus coupler panel at Bargi HPS was showing 130 Ampere current irrespective of load and even when both buses were isolated by opening bus coupler, the meter continued showing 130 Amp current. The ampere meter need to be recalibrated/replaced. This ampere meter was also showing wrong value during previous black start mock drill conducted on 10th February, 2012

The MPPGCL shall submit the action taken on these issues.

The MPPGCL agreed for above and the ampere meter of 132 KV Bus Coupler panel at Bargi HPS will be replaced shortly.

ITEM NO 8: SOME IMPORTANT MATTERS REQUIRED IMMEDIATE ATTENTION:

8.1 Quarterly Review of Crisis Management Plan:

Member Secretary informed the committee that 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 Second quarter for the year 2014-15 (July to Sept 2014) to CEA under intimation to this office.

8.2 Status of Physical & Cyber Security in Power Sector regarding:

Member Secretary informed the committee that the status of physical & cyber security in Power Sector for the Second quarter (July to Sept 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 Second quarter (July to Sept 2014) directly to the Chief Engineer (GM), CEA New Delhi under intimation to SLDC Jabalpur and WRPC Mumbai.

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

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

SLDC representative informed that complete data of ABT meters installed at interface points are not being downloaded through AMR system mainly due to compatibility issue & connectivity problem and also apprised the committee about the status of data received through AMR system in the month of Sept

2014. In response, MPPTCL informed that all non-compatible ABT meters have been replaced with compatible ABT meters and M/s Secure representative will be available in SLDC in the first week of November 2014 to sort out the problem of non-receipt of meter data through AMR system.

9.2 Replacement of faulty ABT meters and providing new ABT meter at Power stations :

- (i) SLDC representative informed that ABT meters installed on 132kV Deolond Beohari Ckt at Deolond Hydel Power Station is faulty from the past few months. He has further intimated that MPPGCL representative in 41st OCCM has informed that faulty CT / PT has being replaced, but meter data received by SLDC of Sept 2014 was not correct. In response, MPPGCL representative has informed that problem related to CT/ PT will be checked and resolved within a week time.
- (ii) Chairman OCC asked East Discom about the status of providing supply to 415 volts consumers of Mangthar village from their own network which is presently being fed through 0.4kV Mangthar feeder of SGTPS. East Discom representative has informed that a proposal has been prepared by EE(O&M), Umaria and submitted in Jila Panchat for financing of scheme.

9.3 Providing AMR facility for the ABT meters installed at MPPGCL / NHDC :

SLDC representative requested MPPGCL / NHDC to apprise the committee about the status of implementation of AMR on the meters installed at the interface points of power stations for data communication with AMR System installed at SLDC.

ISP representative has informed that ABT meters alongwith modems of secure make has been procured and installed by ISP.

OSP representative has informed that tendering is in process for procurement of secure make meters alongwith modems.

Chairman OCC stated that SLDC requested the MPPGCL to furnish the list of interface points indicating the meter Sr. Nos. where AMR facility is to be provided by MPPGCL so as to ensure the correctness and completeness of the interface points being considered by SLDC for energy accounting. MPPGCL representative have assured to submit the same to SLDC. Further, Chairman OCC also stated that MPPGCL/ NHDC may also advise the firm to obtain a certificate from SLDC for successful integration of ABT meters installed at the interface points of power stations with AMR system installed at SLDC.

9.4 Providing AMR facility on the Discoms embedded Open Access Customers:

SLDC representative requested Discoms to apprise the committee about the status of AMR facility to be provided by the embedded Open Access Customers by installing compatible modems alongwith GPRS+GSM enabled SIMs for data downloading by SLDC and Discoms independently through AMR system. West Discoms representative have informed that they have discussed the matter with M/s Secure Meters Ltd. and had asked them to demonstrate the same on one meter so that same could be implemented for all embedded OACs. East and Central Discoms representative have assured to discuss the matter with their respective commercial sections for implementation of AMR system on the ABT meters installed at interface points of Discom embedded customers.

ITEM NO 10: SCADA/EMS RELATED ISSUES:

10.1 Providing telemetry of 220KV Chichli, 220KV Dhar & 400KV Julwaniya S/s:-

It was informed by SLDC that telemetry of 220KV Chichli S/s is only partially commissioned as only analog telemetry is available to SLDC. The OLTC tap Position and status telemetry (CBs and SOE) of Chichli S/s is still not available to SLDC. Further, the telemetry of 220KV Dhar is pending for commissioning. T&C representative informed that the balance telemetry of 220KV Chichli shall be commissioned shortly. Further, the telemetry of Dhar shall be arranged shortly.

It was also informed by T&C, MPPTCL representative that VFT Modems for 400kV Julwaniya S/s is now arranged and telemetry of 400KV Julwaniya shall be arranged along with the charging of S/s.

10.2 PROVIDING TELEMETRY OF REACTORS AT 400KV S/s & POWER STATIONS :-

The matter of arranging telemetry of reactors is discussed in detail and T&C representative informed that telemetry pertaining to reactors of MPPTCL lines/bus/transformers is under final stage of completion and telemetry of reactors pertaining to PGCIL lines in MPPTCL S/s is to be arranged which is to be taken up with PGCIL. SLDC will take up the matter with PGCIL.

10.3 STATUS OF PROCUREMENT OF NEW RTUS

Representative from MPPGCL informed that the NIT for procurement of RTUs has already been issued. SLDC informed that the telemetry of Rajghat HPS is out due to fault in RTU and hence procurement of RTU is to be expedited by MPPGCL.

SLDC further informed that RTU delivered under TRANSCO SCADA system has already been tested with SLDC SCADA/EMS system. It was informed by CE(Procurement),MPPTCL representative that earlier processing of tender for procurement of RTU is pending for want of decision regarding utilization of TRANSCO SCADA system RTUs for SLDC use. T&C and Planning, MPPTCL representative informed that planning section has decided not to utilize TRANSCO SCADA system RTU for any other purpose. Accordingly, it was informed by CE (procurement), MPPTCL that procurement of RTU for 37 S/s for which tender processing is already in progress shall be expedited.

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.

MPPTCL representative informed that procurement of materials (PLCC modems, outdoor equipments and PLCC panels) are under process and order shall be issued shortly. Similarly MPPGCL informed that the matter has been put up for administrative approval to MD MPPGCL and tender for procurement of materials shall be issued shortly.

SLDC requested to expedite the procurement and arrange the required materials so that communication channels and modification in RTU configuration required for achieving dual control center reporting may be achieved as per the commissioning schedule of backup SLDC i.e. by December 2014.

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

SLDC representative informed that the work of arranging fiber connectivity between SLDC-220KV Sub Station-Shakti Bhawan is pending for long time. SLDC has now taken initiative to arrange 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 has already been accorded by MDs of all companies. The preparation of tender document is under progress and NIT shall be issued shortly by SLDC. The signing of agreement between various utilities, nomination of coordinating officers is to be done.

SLDC representative further informed that the Optical fiber connectivity till 132KV Chambal S/s and Backup SLDC at Govindpura Bhopal is also planned by SLDC. The arrangement for subsequent cabling/infrastructure for extension of optical connectivity from 132KV Chambal to West DISCOM control Centre and from Backup SLDC Bhopal to Central DISCOMs Control Centre are to be arranged by concern utilities i.e. Central and West DISCOM. Necessary arrangement for the same is required to be made by both the utilities before installation of new system.

10.6 DISCREPANCY IN TELEMETRERED VALUES RECEIVED FROM DIFFERENT EHV S/S & POWER STATIONS & UPGRADATION OF EXISTING RTU's

The matter was discussed in detail and SLDC explained that the rectifications of telemetry discrepancies are pending due to shortage of material (transducers, MFM, relays). MPPTCL assured that the material at division level shall be arranged shortly. Following telemetry problem were discussed in detail

- (1) It was informed by SLDC that RTU configuration of commissioned Chemtrol RTUs is not available at site. This is creating problem in maintenance of RTU as well as removal of telemetry discrepancies. T&C representative informed that the configuration and wiring details provided by the firm to site offices is not matching with actual RTU configuration. T&C representative further requested CE(Procurement), MPPTCL representative to take up the matter with M/s Chemtrol Ltd. Mumbai.
- (2) It was also assured by MPPTCL that action for upgradation of RTU at 220KV Sarni S/s & 220KV Pandurna which is required because of interdiscom feeders shall be initiated shortly. <u>It was</u> informed by MPPTCL that modification in RTU configuration at 220KV Sarni S/s is required for this work. SLDC inform that same shall be arranged by Sub-LDC Bhopal on priority.
- (3) SLDC informed that in Hydel power stations (Gandhi Sagar and Pench Hydel power), frequency and voltage telemetry of only one bus is available. This is creating problem in black start. The frequency and voltage telemetry of other bus is required to be arranged. Representative from Hydel O&M informed that they will arrange the telemetry after arranging the desired material.
- (4) SLDC Informed that the telemetry of 220/132Kv Transformers at 220KV Vidisha, 220KV Tikamgarh, 220KV Mehgaon, 220KV Handia, is not available and required to be arranged. T&C representative informed that the same shall be arranged shortly.
- (5) SLDC informed that the telemetry of second generator of Singaji Thermals Power station is not available. The telemetry of Singaji Power station failed frequently. MPPGCL assured to arrange the telemetry on priority basis.

It was informed by SLDC representative that telemetry discrepancy and up-gradation for RTU work is still pending for Hydel Power Stations. MPPGCL assured to complete the telemetry discrepancy and completion of extension of process connections of <u>SOE at HYDEL</u> power stations at the earliest.

10.7 PROBLEM IN PLCC CHANNELS :-

SLDC representative informed that the telemetry of 132KV Morwa , 132KV Waidhan S/s is out since last three months. T&C representative informed that the problem is due to out-door equipments at ATPS. The data channels of 220KV Anuppur, 132KV Kotma, 132KV Beohari, 220KV Sidhi, etc is not functioning

properly. The Data & voice channels of all Hydel Power Stations are not working properly. Lot of inconvenient is observed during black start mock drill of Hydel power stations. The data and voice channel is to be planned properly for all Hydel stations on top priority basis.

The problem of RTU data channels of 220KV Anuppur and Morwa S/s was discussed in detail in last five 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. However the matter is still pending and SLDC again requested T&C and MPPGCL to sort out the matter by joint testing. SLDC further informed that long outage of RTUs may result in objection during performance audit.

Further, it was agreed by MPPTCL & MPPGCL that the action for providing alternate data channel and voice channels shall be taken on priority basis.

10.8 TELEMETRY DISCREPIENCIES AT JP BINA POWER STATION

SLDC representative informed that the telemetry of 400KV JP Bina-MP Bina feeder is not available since long time. As no representative from M/s JP Bina was present in the meeting matter shall be taken up by SLDC separately.

10.9 Arrangement of necessary space, air-conditioning and power supply ,PLCC equipments for installation of wideband equipments and hot line PABX:-

The matter was discussed in detail and it was informed by T&C, MPPTCL representative that administrative approval for procurement of DCPS for wideband nodes has already been obtained and now procurement shall be initiated shortly. Further, necessary action regarding space and air-conditioning is also initiated shortly. MPPGCL representative informed that they will initiate the action in the matter shortly.

10.10 Real time monitoring of feeders / substations that are covered under AUFLs

SLDC representative informed that the telemetry of feeders / substations covered under the AUFLS is desirable for real time assessment of the anticipated relief that would be available from the AUFLS scheme at any given instance of time. CERC has also directed all the constituents for mapping of these feeders in the SCDA of SLDC/RLDC. The same can be achieved in the Transco SCADA as U/F & df/dt relays are installed at EHV substation.

In response MPPTCL representative informed that in present scope of contract, integration of U/F and df/dt relays into the TRANSCO SCADA system is not included and for integration of the same, additional Hardware (CMRS, DI point) shall be required. Further, development of logic in the SCADA system shall also be required which require SCADA vendor support. It was decided that a separate meeting for the same will be arranged.

10.11 Undertaking regarding telemetry arrangement to be submitted before charging of new grid element:-

SLDC representative informed that NLDC and RLDC has devised an undertaking to be submitted by generation/transmission utilities regarding telemetry before integration of new grid elements. The format of the same was circulated in the meeting. It is agreed that all concern will submit the undertaking before charging of new grid element.

ITEM No 11 : SUPPLEMENTARTY AGENDA:

SA-1 - **Time synchronization of SEMs in WR** : Member Secretary informed the committee that WRLDC has pointed that time synchronization of SEMs with GPS/AIR signal is essential for proper weekly DSM accounting. This was discussed in Commercial Committee Meetings of WRPC also, but no action has been taken by the state grid entities in this regard. WRLDC has requested in 67th CCM of WRPC to all the generating stations, sub- stations to do quarterly checking of the time of each SEM installed by PGCIL at the respective locations with GPS/AIR signals and send the same to WRLDC. If any drift is noticed necessary correction using DCD by one minute/week may be done and the same be reported to WRLDC.

The matter was discussed in the meeting and it was decided that SLDC shall provide the list of PGCIL meters installed at interface points of MP with CTU to CE(T&C), MPPTCL, ED(O&M:Gen), MPPGCL and JP Bina TPP. The respective entities shall do the time synchronization of the PGCIL meters with GPS/AIR signal through DCD and same shall be conveyed to WRLDC under intimation to this office.

SA-2 CT/PT Errors : WRLDC/WRPC informed that, it is observed that CT/PT are changed and not informed timely to WRLDC/WRPC causing unnecessary revision of accounts. In this regard to minimize such inadvertent omission of information, it is proposed that -

- 1) All utilities to indicate CT/PT change of elements affecting Commercial accounts to commercial section of WRLDC to keep better track of the issue in addition to informing shift in charge/operation division of WRLDC.
- 2) Prior to the outage itself, a copy shall also be marked to WRPC in addition to WRLDC. Constituents are kindly requested to check their CT/PT ratio with those at WRLDC.

The matter was discussed in the meeting and it was agreed by MPPTCL, MPPGCL and JP Bina TPP that they will provide the information to WRLDC as and when CT/PT ratios of meters are changed. Member secretary requested all the entities the furnished the latest status of the same to WRLDC under intimation to this office.

SA-3 Certification of Metering and Single Line Diagram of Short Term Open Access customers : As per clause (3)(b) of Regulation 8 of CERC (Terms & Conditions for Open Access in Inter-state Transmission) Regulations-2008 and amendment 2009 it is mandated as:

"Quote

(b) While processing the application for concurrence or 'no objection' or prior standing clearance, as the case may be, the State Load Despatch Centre shall verify the following, namely-

(i) existence of infrastructure necessary for time-block-wise energy metering and accounting in accordance with the provisions of the Grid Code in force, and

(ii) availability of surplus transmission capacity in the State network.

Unquote

Further in the press release of CERC dt.25.05.2009 it is mentioned that :

"The State Load Despatch Centres will check only two parameters i.e. availability of transmission capacity and availability of metering infrastructure. This has been done to explicitly provide that no other ground can be the basis for refusal of the open access. It has been further clarified that metering infrastructure will be in accordance with grid code specified by the Commission."

Processing of applications by SLDC for Short Term Open Access in time bound manner is also mandated in the CERC/MPERC Regulations for Open Access. The regulatory requirements such as certification for Metering and Single Line Diagram indicating injection & drawal points etc. from concern Discoms and MPPTCL as the case may be, is mandatory. When the Open Access Customer submits the same along with his application, it is presumed that all the basic requirements including no due against Open Access Customer has been ensured by the concerned Distribution licensee.

SLDC vide letter no. 07-05/SG-11A/3324 dated 25.10.2013 requested Commercial Section of all the three Discoms that while issuing the certification for Metering and Single Line Diagram indicating injection & drawal points, the no dues with Open Access Customer may please be ensured. If the Discoms are not willing to allow the open access because of pending dues with the open access customer, they should decide at this stage only at their own and certification regarding meter, metering equipments and single line diagram may be issued to the applicant from their end accordingly.

If the customer complies to all the formalities for availing power under short term open access, it would not be possible for SLDC to deny the STOA unless DISCOMS specifically advise MP SLDC to do so with mentioning the reason thereof as the Short Term Open Access application need to be processed in time bound manner.

The matter was discussed in the meeting and Member secretary informed that DCC should take up the matter with their Commercial Sections that SLDC shall issue the No objection Certificate / Approval to the OACs once the NOC is received from the DISCOMs, irrespective of any pending arrears of OACs.

ITEM No 12 : DATE AND VENUE OF NEXT OCC MEETING : It has been decided in the meeting that 43nd OCC meeting of Operation and Coordination Committee of MP will be held on 23rd December 2014 at SLDC, MPPTCL, Nayagaon, Jabalpur.

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		S.WO	tes of	77 42nd (to 220	MP 26	27	28	29	30	31	28 23	33	34	35	36	37	30	39	40	41	42	43	VV

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FREQUENCY PARTICULARS

S. No.	Particulars		Aug-14	Se	ер-14
1	INTEGRATED OVER AN-HOUR				
1.1	Maximum Frequency	50.14 Hz	Between 17.00 hrs & 18.00 Hrs on 15.08.14	50.16 Hz	Between 22.00 hrs & 23.00 Hrs on 01.09.14
1.2	Minimum Frequency	49.53 Hz	Between 19.00 hrs & 20.00 Hrs on 01.08.14	49.61 Hz	Between 10.00 hrs & 11.00 Hrs on 29.09.14
1.3	Average Frequency	49.93 Hz		49.95 Hz	
2	INSTANTANEOUS FREQUENCY				
2.1	Maximum Frequency	50.34 Hz	AT 17.07 HRS ON 26.08.14	50.37 Hz	AT 13.04 HRS ON 01.09.14
2.2	Minimum Frequency	49.36 Hz	AT 19.10 HRS ON 01.08.14	49.34 Hz	AT 19.09. HRS ON 09.09.14
3	Percentage of time when frequency was	:-			
	%age of time when frequency was	Aug-14	Sep-14		
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	0.06	0.06		
3.5	Between 49.50 Hz and 49.7 Hz	3.42	1.6		
3.6	Between 49.70 Hz and 49.9 Hz	34.39	26.47		
3.7	Between 49.9 Hz and 50.05 Hz	49.50	55.7		
3.8	Between 50.05 Hz AND 51.5 Hz	12.63	16.17		
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 frquency touched 48.60 Hz	0	0		
4.2	No. of times frquency touched 51.0 Hz	0	0		

Voltage Profile During the Month of Aug- 2014

	Ind	ore	Ita	rsi	Bi	na	Gwa	alior	Nag	gda	Birsir	ngpur	Satp	oura	IS	P
Date	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	414	399	419	406	419	409	411	400	418	403	423	416	421	413	420	409
2	414	399	419	406	419	409	413	400	418	403	422	417	420	413	419	408
3	414	399	419	406	421	407	414	400	418	403	424	418	423	413	422	411
4	415	397	420	407	421	408	411	396	419	405	424	418	421	413	421	411
5	417	400	420	404	420	411	409	402	420	403	427	419	422	411	424	407
6	417	400	420	404	422	413	412	402	420	403	428	421	425	414	425	412
7	419	400	420	405	426	411	411	395	421	403	426	421	423	416	421	412
8	419	399	420	406	429	407	406	397	421	406	424	419	422	411	425	408
9	417	404	419	403	421	411	409	398	419	400	426	419	421	411	424	410
10	419	399	420	402	422	413	414	401	421	405	425	421	422	416	426	417
11	421	402	421	410	422	410	414	404	422	412	425	419	420	400	422	400
12	421	410	421	410	422	413	423	416	422	412	424	419	420	411	421	412
13	415	410	416	402	423	414	412	401	419	403	425	419	420	409	420	409
14	413	399	415	406	420	412	415	401	420	407	426	418	419	412	419	411
15	415	402	416	404	423	407	413	393	419	405	426	416	419	411	422	412
16	413	401	413	402	421	412	415	401	420	406	421	416	417	409	418	410
17	416	399	416	398	419	406	408	392	422	404	423	416	417	407	421	408
18	416	397	417	398	418	409	407	396	422	404	424	418	417	409	421	410
19	414	397	416	402	419	409	408	397	421	406	424	418	417	410	420	411
20	413	399	417	404	420	408	407	393	421	407	424	418	419	408	422	411
21	414	400	417	404	418	407	407	396	420	405	424	418	419	409	422	411
22	415	399	416	407	417	408	410	393	421	411	423	418	417	410	421	411
23	415	402	419	404	419	412	412	398	422	407	421	412	418	409	422	411
24	419	400	422	407	421	410	416	398	425	411	420	415	420	413	423	416
25	419	405	419	408	417	407	407	394	424	410	421	412	420	411	423	414
26	420	405	419	412	420	411	410	396	425	411	423	415	423	414	425	418
27	418	409	421	410	421	406	410	392	424	413	420	416	421	415	422	416
28	416	407	419	403	416	407	402	393	423	404	420	413	419	411	420	410
29	414	399	419	407	416	410	402	395	420	408	420	416	417	413	418	413
30	413	402	418	406	414	405	406	390	419	405	419	415	417	411	420	409
31	417	401	423	412	421	411	412	400	422	409	421	413	421	414	422	416
Max /Min	421	397	423	398	429	405	423	390	425	400	428	421	425	416	426	418

Voltage Profile During the Month of Sept - 2014

Data	Ind	ore	lta	rsi	Bi	na	Gwa	alior	Nag	gda	Birsir	ngpur	Sat	oura	IS	P
Date	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	418	400	421	407	419	410	409	396	423	404	423	416	421	412	425	410
2	418	402	421	407	419	411	408	398	423	406	426	419	423	414	422	411
3	421	403	425	410	424	413	413	405	424	407	427	419	421	416	422	413
4	419	406	421	409	421	411	410	402	424	410	424	418	423	415	426	416
5	421	404	422	406	422	415	414	401	424	407	424	416	421	413	424	412
6	419	403	419	407	415	408	412	399	422	404	426	419	423	413	425	411
7	418	409	422	407	419	410	413	402	424	412	426	419	424	417	424	416
8	420	408	422	410	421	412	413	406	422	413	424	420	424	419	422	416
9	418	404	421	409	423	412	412	404	423	407	424	419	422	416	422	413
10	419	405	420	409	424	412	412	399	425	410	424	418	418	418	424	415
11	419	407	424	410	426	414	418	406	426	413	424	419	425	418	423	416
12	417	406	420	407	423	413	418	406	424	410	423	418	423	414	423	415
13	419	403	421	407	419	404	426	412	424	409	424	419	422	414	422	414
14	416	406	419	409	421	412	415	401	423	412	424	419	422	416	423	417
15	418	405	420	409	422	409	412	401	422	411	423	416	420	413	421	414
16	418	408	421	410	421	411	409	398	424	410	423	416	423	413	421	414
17	416	404	421	409	422	413	411	402	422	409	423	417	422	415	421	415
18	415	401	420	407	421	408	411	398	421	406	421	415	421	414	420	414
19	414	400	419	406	418	407	412	400	421	404	420	415	419	411	419	411
20	411	400	416	404	416	409	410	400	418	405	421	416	419	411	420	412
21	414	400	417	403	417	408	409	398	420	404	421	416	417	409	417	411
22	412	394	413	398	417	402	407	393	417	399	421	414	416	406	417	408
23	418	401	419	403	417	407	407	395	420	405	419	415	415	407	416	409
24	418	401	419	408	418	407	410	398	421	407	420	415	417	407	418	408
25	414	389	416	396	417	405	407	396	418	393	421	415	416	404	420	400
26	421	410	421	410	417	408	407	395	422	412	419	413	416	405	423	409
27	418	402	417	402	419	410	406	398	420	402	419	415	416	407	420	412
28	418	398	418	399	419	407	410	393	423	401	421	414	414	405	420	408
29	418	398	418	399	419	407	410	393	423	401	420	414	415	404	420	407
30	416	399	414	397	418	409	406	392	419	400	423	415	418	406	421	411
31																
Max	421	389	425	396	426	402	426	392	426	393	427	420	425	419	426	417

	TRANSMISSION WORKS UNDER PROGI	RESS (AS	ON 30.09.	2014)	AI		E- 2.4.1
S. No.	NAME OF THE TRANSMISSION LINE	TYPE OF CKT.	СКТ.КМЅ.	COMPLETION PROGRAMME	FUNDING AGENCY	ESTIMATE D COST (Rs.in Lakhs)	PROGRESS IN %
А.	400 KV TRANSMISSION LINES						
1	400KV DCDS Chhegaon - Julwania line (2x114)	DCDS	228	मार्च-14	PFC	16088	99%
2	400KV DCDS Satpuda - Ashta line (2x241)	DCDS	482	मार्च-15	PPP	34019	90%
	Sub Total (A)		710			50107	
в.	220 KV TRANSMISSION LINES						
1	Ashta (400) - Indore - II (Jaitpura) (2x100)	DCDS	200	मार्च-14	PFC	5603	93%
2	220KV line from Gwalior (400kv) (PGCIL) to Gwalior (220kv) (II) (2x0.76)	DCDS	5.02	दिसम्बर-13	JICA	275	60%
3	2nd Ckt of 220kv Damoh - Tikamgarh line (152)	2nd ckt	152	सितम्बर-15	JICA	2093	83%
4	220KV Berchha -Shajapur DCDS line	DCDS	45	मार्च-16	JICA	2674	96%
5	LILO of 2nd Ckt of 220kv DCDS Narsinghpur - Itarsi line at 220kv S/S Pipariya. (DCDS)	DCDS	10.4	मार्च-14	JICA	321	80%
6	LILO of one Ckt of 220kv DCDS Bhopal - Ashta line at 220kv S/S Mugaliya chhap. (DCDS)	DCDS	52	दिसम्बर-14	JICA	1970	2%
7	LILO of one Ckt of 220kv DCDS Pithampur- Rajgarh line at 220kv S/S DHAR by second circuiting of part of existing line from location no.87 upto 220 Kv S/s Dhar including Bay shifting work. (DCDS) (2x0.3)	DCDS	0.6	मार्च-14	JICA	112	20%
8	LILO of both Ckt of 220kv Badod - Kota /Modak line for Bhanpura (DCDS)	DCDS	3.62	मई-14	PFC Saving	288	46%
9	LILO of one Ckt of 220kv BINA - Bhopal line at 220kv S/S Ganj Basoda (2x9.946)	DCDS	19.89	दिसम्बर-14	PFC Saving	839	19%
10	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	जून-14	Contrib.	0	90%
11	Modification/Shifting of 220KV DCDS Narsighpur- Itarsi line due to project site of NTPC AT Gadarwara between location no350 -367 (Mandsaur) (2x7.50)	DCDS	15	जुलाई-15	Contrib.	0	6%
	Sub Total (B)		543			14175	
С.	132 KV TRANSMISSION LINES			•		•	
1	2nd Ckt of Satna - Pawai section for Nagod 132kv S/s (19.50)	2nd Ckt	19.5	मार्च-14	PFC	453	94%

2	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	अप्रैल-13	GoMP	800	46%
3	132kv Birsinghpur -Shahdol DCSS line (1x48)	DCSS	48	मार्च-14	ED-II Priority	994	4%
4	132kv Ichhawar -Sehore DCSS line (1x35.298)	DCSS	35.298	मार्च-14	JICA	1326	14%
5	132kv Chhatarpur (220kv)- Laundi line (1x43)	DCSS	43	मार्च-14	JICA	1868	15%
6	132KV DCSS Line between 220kv Pipariya s/s & 132kv Semari Harchanchad (Sohagpur) s/s. (1x39.408km)	DCSS	39.408	सितम्बर-14	JICA	1548	87%
7	132 kv DCDS Ujjain(220 kv) -Chandrawatiganj line (2x35.42)	DCDS	70.84	मार्च-14	JICA	1945	43%
8	132 kv DCSS Dewas-Barotha line (1x23)	DCSS	23	दिसम्बर-13	JICA	1283	38%
9	132 kv DCDS Dewas(220KV) TO Shankargarh(Dewas bypass) line (2x4.74)	DCDS	4.74	जून-14	JICA	991	36%
10	132 kv DCSS Ghatabillod-Betama line (1x18)	DCSS	18	दिसम्बर-13	JICA	798	20%
11	132 kv DCSS Tikamgarh (220kv)-Budhera line (1x32)	DCSS	32	दिसम्बर-13	JICA	1790	80%
12	132kv Jeerapur -Susner DCSS line (1x32)	DCSS	32	मार्च-14	JICA	983	25%
13	132kv DCSS Gautampur -Depalpur line (1x19)	DCSS	19	दिसम्बर-14	JICA	661	20%
14	132kv Katra - Mauganj DCSS line (1x50)	DCSS	50	मार्च-14	JICA	1703	56%
15	132kv Nagda(220kv)- Kachrod-Jaora DCSS line (1x64)	DCSS	64	मार्च-14	JICA	2268	18%
16	132kv Julwaniya- Anjad DCSS line (1x28)	DCSS	28	दिसम्बर-14	JICA	854	67%
17	132kv Sajapur (220kv) -Berchha DCDS line (2x22+4x3)	DCDS	56	जून-14	JICA	1533	62%
18	132kv DCSS Shujalpur(220kv) -Pachhore DCSS line (1x35.5)	DCSS	35.5	मार्च-15	JICA	1253	18%
19	132kv DCDS Shajapur(220kv) -Moman Badodiya line (1x24)	DCSS	48	जून-14	JICA	1137	54%
20	(1×24)	DCSS	24	दिसम्बर-14	JICA	1457	5%
21	132kv Pipariya 220kv- Bareli DCSS line (1x34)	DCSS	34	मार्च-15	JICA	1473	15%
22	132 kv DCDS line between Bairagarh s/s(132KV) to Runaha line (2x50)	DCDS	100	मार्च-15	JICA	2220	19%
23	132 kv DCSS line between 220KV Harda s/s and 132KV Khirkiya s/s (1x36.55)	DCSS	36.55	मार्च-14	JICA	1175	12%
24	LILO of one ckt ofBarwaha 220-Indore SZ 132 kv DCDS line at Balwada (2x0.892)	DCDS	1.784	अप्रैल-15	PFC-II	173	20%
25	132 kv DCSS line between 132KV Ganj Basoda to Saharwasa (1x29)	DCSS	29	मार्च-15	PFC-II	1129	10%
26	132 KV DCDS IME Datiya	DCDS	12.4	मार्च-14	JICA	478	80%
27	2nd Ckt of 132kv Dewas - Chapda line (45)	2nd ckt	45	मार्च-14	JICA	356	68%

28	LILO of S/C ckt of 132 KV Seoni-Lakhnadon	DCDS	40	अप्रैल-15	JICA	682	5%
29	132 kv Sitamau- Daloda DCSS line (1x34)	DCSS	34	जুলাई-14	JICA	4200	57%
30	LILO of Both circuit of 132 kv DCDS Jabalpur/Marhotal - Mansakra/Katni line for proposed 220 KV S/s at Panagar (Gudgaon) (2x2x3.57)	DCDS	14	अप्रैल-14	JICA	969	58%
31	132 kv DCSS Julwaniya (400kv-)-Sendhwa line (1x27)	DCSS	27	जुलाई-14	JICA	756	34%
32	132 kv DCSS Sheopur-Baroda line (1x34)	DCSS	34	दिसम्बर-14	JICA	1074	18%
33	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	मई-15	JICA	499	7%
34	132 kv DCSS Damoh (220Kv)-Batiyagarh line on 220Kv Towers (1x40)	DCSS	40	मई-15	JICA	2030	18%
35	LILO of one S/C ckt of 132 KV Chhegaon- Khargone 132Kv DCDS Line at Andad(Bediya) (2x6.33)	DCDS	12.66	अप्रैल-15	PFC Saving	499	17%
36	132 kv DCSS Line from 220Kv S/s Shivpuri- 132Kv Bairad (1x32.859)	DCSS	32.859	अप्रैल-15	PFC Saving	1703	4%
37	132 kv DCSS Alot-Tal line (1x16.23)	DCSS	16.23	मई-14	PFC Saving	97	19%
38	132 kv DCSS MomanBarodiya-Nalkheda line (1x34)	DCSS	34	फरवरी-15	PFC Saving	1385	22%
39	132 kv DCSS from 220Kv S/s Datiya-132kv S/s Indergarh (1x27.1)	DCSS	27.1	अप्रैल-15	PFC Saving	1710	8%
40	132 kv Gwalior II - Hastinapur DCSS line (1x30.00)	DCSS	30	मार्च-15	UNFUND ED- Priority	1563	27%
41	LILO of Malanpur-Ambaah 132 kv DCDS line at Badagaon(Dimni) (2x2.50)	DCDS	5	अप्रैल-15	PFC-II	195	48%
42	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	जुलाई-14	PFC-II	1463	9%
43	132 kv DCDS Line for LILO of Ujjain- Ratadiya S/c line at 132 kv s/s at Bherugarh (2x2.57)	DCDS	7.343	जून-15	Priority	410	20%
44	132 kv DCDS Line for LILO of Ujjain- Ingoriya line at existing 132 kv s/s Ratadiya (2x2.172)	DCDS	4.344	फरवरी-15	Priority	269	13%
45	132 kv Sirmor - Katra DCDS line (2x37.67)	DCDS	75.34	मार्च-15	PFC-S	2587	2%
46	220kv S/s MandiDeep -M/s Proctor & Gamble MandiDeep (DISTBhpoal) DCSS line (1x9.0)	DCSS	9	मार्च-14	Contrib.	0	56%
47	2nd ckt of 132kv RTS Mangliyagaon line	2nd ckt	9	मार्च-14	Contrib.	0	96%
	Grand Total 132kv lines		1515			54741	
	Grand Total (A+B+C)		2769			119023	

S. No.	NAME OF THE SUBSTATION	VOLTAGE RATIO (KV)	EFFECTIVE CAPACITY MVA	COMPLETIO N PROGRAMM E	FUNDING AGENCY	ESTIMAT ED COST (Rs.in Lakhs)	PROGRESS IN %
Α.	400 KV SUBSTATIONS						
1	Ashta (New S/s)	400/220	630	मार्च-15	PFC - II	8844	90%
2	Nagda (ADDL.) X-mer	400/220	315	मार्च-14	JICA	2090	24%
3	2x80 MVAR Reactor at 400Kv S/s Bhopal	400KV	0	2014-15	JICA	1557	84%
4	Katni (ADDL.) X-mer	400/220	315	मार्च-15	JICA	2002	3%
	Sub Total (A) (400 kv)		1260			14493	
В.	220 KV SUBSTATIONS		•	•	L		•
1	Gwalior II (New S/s) (2x160+40 MVA)	220/132	320	मार्च-14	JICA	3618	28%
2	Datiya (New S/s) (1x160+40 MVA)	220/132	160	अप्रैल-14	JICA	2581	48%
3	Dhar (New S/s) (1x160+40 MVA)	220/132	160	अप्रैल-14	JICA	2476	88%
4	Julwaniya 220/132kv S/s at 400kv s/s(2x160+40 MVA)	220/132	320	मई-14	JICA	3128	25%
5	Shajapur 220kv S/s (2x160+40 MVA)	220/132	320	मई-14	JICA	3592	30%
6	Bhanpura 220kv (New S/s)	220/132	160	मई-14	Uniunae	1838	48%
7	Panagar 220kv new s/s (1x160+40 MVA)	220/132	160	अप्रैल-14	JICA	2877	88%
8	GanjBasoda 220kv (New S/s)	220/132	160	अगस्त-14	PFC-II	1888	30%
9	Sirmour 220kv (New S/s)	220/132	160	अक्तूबर-14	PFC-II	3089	1%
	Sub Total (B) (220kv)		1920			25087	
C.	132 KV SUBSTATIONS						
(a)	NEW SUBSTATIONS						
1	Runaha	132/33	63	जुलाई-13	JICA	1060	90%
2	Hastinapur (New S/s) (40 MVA)	132/33	40	अप्रैल-14	JICA	868	43%
3	Baroda	132/33	40	फरवरी-14	JICA	868	16%
4	Anjad 132kv s/s	132/33	40	अक्तूबर-13	JICA	868	84%
5	Budhera132kv s/s	132/33	40	फरवरी-14	JICA	868	52%
6	Laundi132kv s/s	132/33	40	दिसम्बर-13	JICA	868	81%
7	Shankargarh 132kv s/s	132/33	40	दिसम्बर-13	JICA	913	3%
8	Chandrwatiganj 132kv s/s	132/33	40	सितम्बर-13	JICA	913	76%
9	Barotha (Dewas)132kv s/s	132/33	40	जनवरी-14	JICA	868	94%
10	Batiygarh132kv s/s	132/33	40	सितम्बर-13	JICA	864	8%
11	Eshagarh132kv s/s	132/33	40	माचे-14	JICA	868	6%
12	Digoda 132kv s/s	132/33	40	फरवरी-14	JICA	866	5%
13	Tal 132kv s/s	132/33	40	मई-14	PFC-II	1041	9%
14	Nalkheda 132kv s/s	132/33	40	मइ-14 मई 14	PFC-II	1041	24%
15	Sanarwasa 132KV S/S	132/33	40	ਸ\$-14 21ੀਨ 15	PFC-II	1041	2%
17	Badagaon (Dimni) 132ky s/s	132/33	40	319(1-13 भक्तबग्र-17	PFC-II	1093	2%
18	Andad (Bediva)132kv s/s	132/33	40	मार्च-15	PFC	1058	3%
19	Balwada 132ky s/s	132/33	40	मार्च-15	<u>Prica</u>	1058	9%
20	Barahi 132ky s/s	132/33	40		spying	1069	2%
21	Karapgaon 132ky s/s	132/33	40	अप्रैल-15	PFC	1051	3%
22	Sivni 132ky s/s	132/33	40	मार्च-15	PFC	1041	8%
23	Lateri 132kv s/s	132/33	40	अक्तूबर-14	PFC	1093	4%

24	Rahatgarh132kv s/s	132/33	40	मई-15	JICA	872	1%
25	Indergarh 132kv s/s	132/33	40	अप्रैल-15	PFC	1057	1%
26	Dongari Tal 132kv s/s	132/33	40	फरवरी-15	Contrib.	0	3%
	SUB-Total (C.a)	0	1063			24259	
(b)	ADDITIONAL / AUG. WORKS						
1	Bina220kv s/s(Addl.) X-mer	132/33	40	मार्च-14	PFC-III	462	30%
2	Morar132kv s/s(Addl.) X-mer	132/33	63	मई-14	JICA	581	57%
3	220kv Sidhi s/s(Addl.) X-mer	132/33	20	अक्तूबर-15	PFC-III	135	20%
4	Nowgaon 132 kv s/s(Addl.) X-mer	132/33	20	सितम्बर-14	PFC-II	0	60%
	SUB-Total (C.b)		143			1178	

PARTICULARS	East	Zone	Centra	I Zone			
PARTICULARS	Aug-14	Sep-14	Aug-14	Sep-14			
Commissinary HQ	23:53	23:45	23:27	23:33			
District HQ	24:00	24:00	23:08	23:35			
Tehsil HQ	22:27	23:52	21:02	23:18			
Rural -Mixed	22:12	23:41	20:07	22:18			
Rural -DLF	22:12	23:47	20:21	22:31			
Rural -Irrigation	9:57	9:59	9:03	9:38			
			МР				
	West	Zone	Μ	P			
PARTICULARS	West Aug-14	Zone Sep-14	M Aug-14	P Sep-14			
PARTICULARS	West Aug-14 23:50	Zone Sep-14 23:48	M Aug-14 23:42	P Sep-14 23:41			
PARTICULARS Commissinary HQ District HQ	West Aug-14 23:50 23:50	Zone Sep-14 23:48 23:42	M Aug-14 23:42 23:42	P Sep-14 23:41 23:46			
PARTICULARS Commissinary HQ District HQ Tehsil HQ	West Aug-14 23:50 23:50 23:21	Zone Sep-14 23:48 23:42 23:28	M Aug-14 23:42 23:42 22:16	P Sep-14 23:41 23:46 23:35			
PARTICULARS Commissinary HQ District HQ Tehsil HQ Rural -3Phase	West Aug-14 23:50 23:50 23:21 22:27	Zone Sep-14 23:48 23:42 23:28 22:54	M Aug-14 23:42 23:42 22:16 21:33	P Sep-14 23:41 23:46 23:35 23:02			
PARTICULARS Commissinary HQ District HQ Tehsil HQ Rural -3Phase Rural -1Phase	West Aug-14 23:50 23:50 23:21 22:27 22:39	Zone Sep-14 23:48 23:42 23:28 22:54 23:10	M Aug-14 23:42 23:42 22:16 21:33 21:44	P Sep-14 23:41 23:46 23:35 23:02 23:12			

Discoms wise Average Supply Hours

LIST OF 33KV FEEDERS UNDER MPPKVVCL, JABALPUR

(For which group to be allocated) JABALPUR REGION

	132KV		Status Submitted by DISCOMs in the meering
220 KV Jabalpur	33 kV AKVN	06.04.2012	Completed
132 kV Madhotal	33 kV Panagar	24.12.2011	Completed
	33 kV Joba	05.04.2014	
220 kV Narsinghpur	33 kV Ramkhiriya	19.11.2014	proposal not received
	33 kV Bachai	27.08.2013	
	33 kV Paloha	07.02.2014	Completed
132 kV Barman	33 kV Dobhi No 2	27.07.2013	Completed
	33 kV Chichli No 3	07.02.2014	Completed
122 kV/ Lakhnadana	33 kV Dhanora	04.01.2014	Completed
132 KV Lakillauolle	33 kV Adegaon	14.06.02013	Completed
	33 kV Bagaspur	13.10.2013	Completed
132 kV Shrinagar	33 kV New Gotegaon	15.09.2013	Completed
	33 kV Paramhansi	14.12.2012	Completed
	REWA REGION		
	132KV		
122k)/ Deeper	33kV Bargawan		Completed
ISZKV DEUSAI	33kV Chitrangi		Completed
132kV Morwa	33kV Trimula	30.01.2014	line incomplte

SAGAR REGION

Name of EHV S/s	Name of 33kV feeder	Date of charging of feeder	Status Submitted by DISCOMs in the meeting
132 KV Hatta	33 kv Patera	15.10.13	Completed
132 KV Sagar	33 KV Mothi	17.06.14	Completed
220 KV Sagar	33 kv Taliman Pani	17.08.13	Completed
220 KV Sagar	33 kv Patna Bujurg	30.12.13	Completed

LIST OF 33KV FEEDERS UNDER MPMKVVCL, Bhopal

(For which group to be allocated)

BHOPAL REGION

Name of EHV Substation	Name of 33KV feeder	Date of charging of feeder	Status Submitted by DISCOMs in the meeting
	132 kV		
132 kV Bareli	33 kV Barna	19.02.2014	proposar recu anu
132 kV Bareli	33 kV Boras	19.02.2014	allocated within 4-5
Dhanal	33 kV BMC	25.03.2014	proposal not recd

GWALIOR REGION

Name of EHV Substation	Name of 33KV feeder	Date of charging of feeder	Status Submitted by DISCOMs in the meeting
	132KV		
132KV Morena	33KV Jigni	15.05.2014	same shall be
132KV Sheopur	33KV Pandolla	22.09.2013	allocated within 4-5

LIST OF 33KV FEEDERS UNDER MPPaKVVCL, Indore

(For which group to be allocated)

INDORE REGION

Name of EHV	Name of 33KV feeder	Date of Charging	Status Submitted by DISCOMs in the
Substation		of feeder	meeting
	220KV		
	33KV PS-I Sasliya	15.01.2014	
220KV Barwaha	33KV NVDA Omkareshwar Lift Irrigation	07.12.2013	proposal not recd.

UJJAIN REGION

Name of EHV Substation	Name of 33KV feeder	Date of Charging of feeder	Status Submitted by DISCOMs in the meeting
	132KV		
132KV Makdon	33KV Gata	26.05.2013	
			proposal not recd.
132KV Susner	33KV Friends Salt (Solar Gen Plant)	09.04.2013	
132KV Berchha	33KV Lahori	28.02.2014	

							Antio	cipated	Hourly	Averag	e Availal	oility for	the Mon	th : Nov	- 2014	(BLA 40	, JP BIN	A 2X175	<mark>X0.85,</mark> L	ANCO 3	00X0.85,	SASAN-5X	247.5X0.75	, JP NIGR	1 247.5X0	. <mark>85, JPB</mark> 12	20)					
Hrs	Th.	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	BTPS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	IPP	Banking Ret.	Banking Adv.	Total Availabil	Demand	Shortge(+) / Surplus(-)
1	2300	0	0	90	0	0	25	0	6	6	0	127	2510	200	30	124	40	50	350	15	10	40	418	255	928	210	1851	175	800	8582	8257	-325
2	2300	0	0	90	0	0	25	0	6	6	0	127	2510	200	30	0	40	0	350	15	10	40	418	255	928	210	1851	175	800	8408	7966	-442
3	2300	0	0	90	0	0	25	0	6	6	0	127	2510	200	30	0	40	0	350	15	10	40	418	255	928	210	1851	175	800	8408	8039	-369
4	2300	0	0	90	0	0	25	0	6	6	0	127	2510	200	30	0	40	0	350	15	10	40	418	255	928	210	1851	175	800	8408	7967	-441
5	2300	0	0	90	0	0	25	0	6	6	0	127	2510	200	30	0	40	0	350	15	10	40	418	255	928	210	1851	175	800	8408	8187	-221
6	2300	58	63	90	0	0	25	0	6	6	0	247	2510	200	30	248	40	100	350	15	10	40	418	255	928	210	1851	175	800	8876	8745	-131
7	2300	110	100	90	0	0	25	0	6	6	40	377	2510	200	30	496	358	200	350	15	10	40	418	255	928	210	1851	175	800	9672	9711	40
8	2300	110	100	90	300	0	25	0	6	6	40	677	2510	200	30	868	440	350	350	15	11	40	418	255	928	210	1851	175	800	10577	10286	-291
9	2300	110	100	90	300	0	25	0	6	6	40	677	2510	200	30	868	440	350	350	15	60	40	418	255	928	210	1851	175	800	10626	10308	-318
10	2300	110	100	90	300	0	25	0	6	6	40	677	2510	200	30	744	440	300	350	15	100	40	418	255	928	210	1851	175	800	10492	10079	-413
11	2300	30	100	90	0	0	25	0	6	6	40	297	2510	200	30	744	193	300	350	15	130	40	418	255	928	210	1851	175	800	9895	9751	-143
12	2300	0	75	90	0	0	25	0	6	6	0	202	2510	200	30	248	110	100	350	15	130	40	418	255	928	210	1851	175	800	9021	9173	152
13	2300	0	0	90	0	0	0	0	6	6	0	102	2510	200	30	248	110	100	350	15	130	40	418	255	928	210	1851	175	800	8921	9181	260
14	2300	0	0	90	0	0	0	0	6	6	0	102	2510	200	30	248	110	100	350	15	130	40	418	255	928	210	1851	175	800	8921	9359	438
15	2300	0	0	90	0	0	0	0	6	6	0	102	2510	200	30	248	110	100	350	15	80	40	418	255	928	210	1851	175	800	8871	9361	490
16	2300	0	0	90	0	0	0	0	6	6	0	102	2510	200	30	248	248	100	350	15	60	40	418	255	928	210	1851	175	800	8989	9501	513
17	2300	0	0	90	0	0	0	0	6	6	0	102	2510	200	30	496	330	200	350	15	56	40	418	255	928	210	1851	175	800	9415	9341	-74
18	2300	0	0	90	0	0	0	0	6	6	0	102	2510	200	30	496	330	200	350	15	25	40	418	255	928	210	1851	175	800	9384	8453	-931
19	2300	0	0	90	0	0	0	0	6	6	0	102	2510	200	30	248	220	100	350	15	10	40	418	255	928	210	1851	175	800	8911	8222	-689
20	2300	0	0	90	100	0	25	0	6	6	0	227	2510	200	30	124	220	50	350	15	10	40	418	255	928	210	1851	175	800	8862	8125	-737
21	2300	0	0	90	100	0	25	0	6	6	0	227	2510	200	30	124	220	50	350	15	10	40	418	255	928	210	1851	175	800	8862	8478	-384
22	2300	0	0	90	100	0	25	0	6	6	0	227	2510	200	30	124	220	50	350	15	10	40	418	255	928	210	1851	175	800	8862	8998	136
23	2300	0	0	90	0	0	25	0	6	6	0	127	2510	200	30	248	110	100	350	15	10	40	418	255	928	210	1851	175	800	8826	8793	-33
24	2300	0	0	90	0	0	25	0	6	6	0	127	2510	200	30	248	40	100	350	15	10	40	418	255	928	210	1851	175	800	8756	8513	-243
Average	2300	22	27	90	50	0	18	0	6	6	8	227	2510	200	30	310	187	125	350	15	43	40	418	255	928	210	1851	175	800	9123	8950	-173
LU/Day	552	5	6	22	12	0	4	0	1	1	2	54	602	48	7	74	45	30	84	4	10	10	100	61	223	50	444	42	192	2190	2148	-42

576 6443.82

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						A	nticipate	d Hourl	ly Avera	age Avai	ilability f	or the M	onth : D	EC - 201	4 (BLA 4	<mark>40</mark> , JP B	INA <mark>2X</mark> 1	75X0.85,	LANCO	300X0.8	5, SASAN-	5X247.5X	0.75, JP NI	GRI 247.5	<mark>X0.85</mark> , MOS	SER BARE	210X0.6,	JPB <mark>120</mark>))				
Hrs	Th.	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	BTPS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	MOSER BARE	Total IPP	Banking Ret.	Banking Adv.	Total Availabil	Demand	Shortge(+) / Surplus(-)
1	2300	0	0	90	0	0	25	0	6	6	0	127	2500	200	30	124	40	50	350	15	10	40	418	255	928	210	126	1977	190	700	8613	8284	-329
2	2300	0	0	90	0	0	25	0	6	6	0	127	2500	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	190	700	8439	8037	-402
3	2300	0	0	90	0	0	25	0	6	6	0	127	2500	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	190	700	8439	7954	-485
4	2300	0	0	90	0	0	25	0	6	6	0	127	2500	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	190	700	8439	7921	-518
5	2300	0	0	90	0	0	25	0	6	6	0	127	2500	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	190	700	8439	8151	-288
6	2300	58	50	90	0	0	25	0	6	6	0	235	2500	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	190	700	8547	8391	-155
7	2300	110	100	90	0	0	25	0	6	6	40	377	2500	200	30	124	275	50	350	15	10	40	418	255	928	210	126	1977	190	700	9098	9031	-67
8	2300	110	100	90	300	0	25	0	6	6	40	677	2500	200	30	372	440	150	350	15	11	40	418	255	928	210	126	1977	190	700	9912	9853	-59
9	2300	110	100	90	300	0	25	0	6	6	40	677	2500	200	30	620	440	250	350	15	60	40	418	255	928	210	126	1977	190	700	10309	10333	24
10	2300	110	100	90	300	0	25	0	6	6	40	677	2500	200	30	744	440	300	350	15	100	40	418	255	928	210	126	1977	190	700	10523	10365	-158
11	2300	110	100	90	0	0	25	0	6	6	40	377	2500	200	30	744	193	300	350	15	130	40	418	255	928	210	126	1977	190	700	10006	10208	203
12	2300	110	50	90	0	0	25	0	6	6	0	287	2500	200	30	744	110	300	350	15	130	40	418	255	928	210	126	1977	190	700	9833	10018	185
13	2300	110	0	90	0	0	0	0	6	6	0	212	2500	200	30	744	110	300	350	15	130	40	418	255	928	210	126	1977	190	700	9758	9993	235
14	2300	110	0	90	0	0	0	0	6	6	0	212	2500	200	30	744	110	300	350	15	130	40	418	255	928	210	126	1977	190	700	9758	10025	267
15	2300	110	0	90	0	0	0	0	6	6	0	212	2500	200	30	744	110	300	350	15	80	40	418	255	928	210	126	1977	190	700	9708	9908	200
16	2300	110	0	90	0	0	0	0	6	6	0	212	2500	200	30	744	248	300	350	15	60	40	418	255	928	210	126	1977	190	700	9826	10022	197
17	2300	110	0	90	0	0	0	0	6	6	0	212	2500	200	30	620	330	250	350	15	56	40	418	255	928	210	126	1977	190	700	9730	9633	-97
18	2300	110	0	90	0	0	0	0	6	6	0	212	2500	200	30	620	330	250	350	15	25	40	418	255	928	210	126	1977	190	700	9699	8817	-882
19	2300	0	0	90	0	0	0	0	6	6	0	102	2500	200	30	372	220	150	350	15	10	40	418	255	928	210	126	1977	190	700	9116	8346	-770
20	2300	0	0	90	100	0	25	0	6	6	0	227	2500	200	30	124	220	50	350	15	10	40	418	255	928	210	126	1977	190	700	8893	8183	-710
21	2300	0	0	90	100	0	25	0	6	6	0	227	2500	200	30	0	220	0	350	15	10	40	418	255	928	210	126	1977	190	700	8719	8784	65
22	2300	0	0	90	100	0	25	0	6	6	0	227	2500	200	30	0	220	0	350	15	10	40	418	255	928	210	126	1977	190	700	8719	8795	76
23	2300	0	0	90	0	0	25	0	6	6	0	127	2500	200	30	124	110	50	350	15	10	40	418	255	928	210	126	1977	190	700	8683	8615	-68
24	2300	0	0	90	0	0	25	0	6	6	0	127	2500	200	30	124	40	50	350	15	10	40	418	255	928	210	126	1977	190	700	8613	8470	-143
Average	2300	57	25	90	50	0	18	0	6	6	8	260	2500	200	30	351	184	142	350	15	43	40	418	255	928	210	126	1977	190	700	9242	9089	-153
LU/Day	552	14	6	22	12	0	4	0	1	1	2	63	600	48	7	84	44	34	84	4	10	10	100	61	223	50	30	474	46	168	2218	2181	-37

141.36 520.8 6762.33

						A	nticipate	d Hour	ly Avera	age Avai	ilability f	or the M	onth : J/	AN - 201	5 (BLA 4	<mark>10</mark> , JP B	INA <mark>2X1</mark> 7	75X0.85,	LANCO	300X0.8	5, SASAN-	5X247.5X0).75, JP NI	GRI 247.5	<mark>X0.85</mark> , MO	SER BARE	210X0.6,	JPB <mark>120</mark>)					
Hrs	Th.	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	BTPS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	MOSER BARE	IPP	Banking Ret.	Banking Adv.	Total Availabil	Demand	Shortge(+) / Surplus(-)
1	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	45	250	7704	7508	-196
2	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	45	250	7704	7351	-353
3	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	45	250	7704	7272	-432
4	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	45	250	7704	7202	-502
5	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	45	250	7704	7298	-406
6	2300	58	50	45	0	0	0	0	6	6	0	165	2430	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	45	250	7812	7683	-128
7	2300	110	100	90	0	0	25	0	6	6	40	377	2430	200	30	0	248	0	350	15	10	40	418	255	928	210	126	1977	45	250	8232	8249	18
8	2300	110	100	90	300	0	25	0	6	6	40	677	2430	200	30	122	385	50	350	15	11	40	418	255	928	210	126	1977	45	250	8842	8991	149
9	2300	110	100	90	300	0	25	0	6	6	40	677	2430	200	30	488	440	200	350	15	60	40	418	255	928	210	126	1977	45	250	9462	9514	52
10	2300	110	100	90	300	0	25	0	6	6	40	677	2430	200	30	732	440	300	350	15	100	40	418	255	928	210	126	1977	45	250	9846	9711	-135
11	2300	110	100	90	0	0	25	0	6	6	40	377	2430	200	30	732	193	300	350	15	130	40	418	255	928	210	126	1977	45	250	9329	9561	233
12	2300	110	50	90	0	0	25	0	6	6	0	287	2430	200	30	732	110	300	350	15	130	40	418	255	928	210	126	1977	45	250	9156	9270	114
13	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	732	110	300	350	15	130	40	418	255	928	210	126	1977	45	250	8926	9337	411
14	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	732	110	300	350	15	130	40	418	255	928	210	126	1977	45	250	8926	9460	534
15	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	732	110	300	350	15	80	40	418	255	928	210	126	1977	45	250	8876	9278	402
16	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	732	193	300	350	15	60	40	418	255	928	210	126	1977	45	250	8939	9157	218
17	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	610	330	250	350	15	56	40	418	255	928	210	126	1977	45	250	8900	8629	-271
18	2300	0	0	45	0	0	0	0	6	6	0	57	2430	200	30	610	330	250	350	15	25	40	418	255	928	210	126	1977	45	250	8869	7999	-870
19	2300	0	0	90	0	0	0	0	6	6	0	102	2430	200	30	488	220	200	350	15	10	40	418	255	928	210	126	1977	45	250	8617	8108	-509
20	2300	0	0	90	100	0	25	0	6	6	0	227	2430	200	30	244	193	100	350	15	10	40	418	255	928	210	126	1977	45	250	8371	7948	-423
21	2300	0	0	90	100	0	25	0	6	6	0	227	2430	200	30	122	110	50	350	15	10	40	418	255	928	210	126	1977	45	250	8116	8330	214
22	2300	0	0	90	100	0	25	0	6	6	0	227	2430	200	30	122	110	50	350	15	10	40	418	255	928	210	126	1977	45	250	8116	8222	106
23	2300	0	0	90	0	0	25	0	6	6	0	127	2430	200	30	122	40	50	350	15	10	40	418	255	928	210	126	1977	45	250	7946	7888	-58
24	2300	0	0	90	0	0	25	0	6	6	0	127	2430	200	30	122	40	50	350	15	10	40	418	255	928	210	126	1977	45	250	7946	7691	-255
Average	2300	30	25	68	50	0	11	0	6	6	8	204	2430	200	30	341	165	140	350	15	43	40	418	255	928	210	126	1977	45	250	8489	8403	-87
LU/Day	552	7	6	16	12	0	3	0	1	1	2	49	583	48	7	82	40	34	84	4	10	10	100	61	223	50	30	474	11	60	2037	2017	-21

33.48 186 6251.48

						Anti	icipated	Hourly	Averag	je Availa	bility for	r the Moi	nth : FEB	3 - 2015	(BLA 40,	JP BIN/	A 2X175	<mark>K0.85</mark> , LA	NCO 30	0X0.85,	SASAN-5X	(247.5X0.7	⁵ , JP NIG	RI 247.5X(<mark>0.85</mark> , MOSE	ER BARE 2	210X0.6, J	PB <mark>120</mark>)					
Hrs	Th.	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	css	BTPS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	MOSER BARE	IPP	Banking Ret.	Banking Adv.	Availabilit v	Demand	Shortge(+) / Surplus(-)
1	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	0	0	7334	7000	-334
2	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	0	0	7334	6906	-428
3	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	0	0	7334	6764	-570
4	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	0	0	7334	6736	-598
5	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	0	0	7334	6850	-484
6	2300	58	50	0	0	0	0	0	6	6	0	120	2400	200	30	0	40	0	350	15	10	40	418	255	928	210	126	1977	0	0	7442	7244	-197
7	2300	110	100	88	0	0	0	0	6	6	0	310	2400	200	30	120	40	50	350	15	10	40	418	255	928	210	126	1977	0	0	7802	8025	223
8	2300	110	100	88	300	0	0	0	6	6	0	610	2400	200	30	480	358	200	350	15	11	40	418	255	928	210	126	1977	0	0	8931	8938	7
9	2300	110	100	88	300	0	0	0	6	6	0	610	2400	200	30	600	440	250	350	15	60	40	418	255	928	210	126	1977	0	0	9232	9463	231
10	2300	110	100	88	300	0	0	0	6	6	0	610	2400	200	30	600	440	250	350	15	100	40	418	255	928	210	126	1977	0	0	9272	9622	350
11	2300	110	100	88	0	0	0	0	6	6	0	310	2400	200	30	600	193	250	350	15	130	40	418	255	928	210	126	1977	0	0	8755	9445	690
12	2300	110	50	88	0	0	0	0	6	6	0	260	2400	200	30	600	110	250	350	15	130	40	418	255	928	210	126	1977	0	0	8622	8827	205
13	2300	0	0	88	0	0	0	0	6	6	0	100	2400	200	30	600	110	250	350	15	130	40	418	255	928	210	126	1977	0	0	8462	8603	141
14	2300	0	0	88	0	0	0	0	6	6	0	100	2400	200	30	480	110	200	350	15	130	40	418	255	928	210	126	1977	0	0	8292	8754	462
15	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	480	110	200	350	15	80	40	418	255	928	210	126	1977	0	0	8154	8722	568
16	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	480	193	200	350	15	60	40	418	255	928	210	126	1977	0	0	8217	8686	470
17	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	480	220	200	350	15	56	40	418	255	928	210	126	1977	0	0	8240	8327	87
18	2300	0	0	0	0	0	0	0	6	6	0	12	2400	200	30	480	165	200	350	15	25	40	418	255	928	210	126	1977	0	0	8154	7740	-414
19	2300	0	0	88	0	0	0	0	6	6	0	100	2400	200	30	240	110	100	350	15	10	40	418	255	928	210	126	1977	0	0	7832	7755	-77
20	2300	0	0	88	100	0	0	0	6	6	0	200	2400	200	30	120	110	50	350	15	10	40	418	255	928	210	126	1977	0	0	7762	7703	-59
21	2300	0	0	88	100	0	0	0	6	6	0	200	2400	200	30	0	15	0	350	15	10	40	418	255	928	210	126	1977	0	0	7497	7804	307
22	2300	0	0	88	100	0	0	0	6	6	0	200	2400	200	30	0	15	0	350	15	10	40	418	255	928	210	126	1977	0	0	7497	7647	150
23	2300	0	0	88	0	0	0	0	6	6	0	100	2400	200	30	0	15	0	350	15	10	40	418	255	928	210	126	1977	0	0	7397	7245	-152
24	2300	0	0	88	0	0	0	0	6	6	0	100	2400	200	30	0	15	0	350	15	10	40	418	255	928	210	126	1977	0	0	7397	7048	-349
Average	2300	30	25	51	50	0	0	0	6	6	0	168	2400	200	30	265	125	110	350	15	43	40	418	255	928	210	126	1977	0	0	7984	7994	9
LU/Day	552	7	6	12	12	0	0	0	1	1	0	40	576	48	7	64	30	27	84	4	10	10	100	61	223	50	30	474	0	0	1916	1919	2

5371.89

0

						Ant	icipated H	ourly A	Average	e Availa	bility for	the Mo	nth : MA	R - 2015	(BLA	40, JP B	INA <mark>2X1</mark>	75X0.85,	LANCO	300X0.8	5, SASAN	-5X247.5	X0.75, JP N	NIGRI 247.	.5X0.85, M	OSER BAR	E 210X0.6	6, JPB 12	20)				
Hrs	Th.	GS	PENC	BARGI	TONS	BIR	RJGT	DEV	SIL	Zinha	Medi kheda	Hydel	CSS	BTPS	Sugen	ISP	SSP	OSP	DVC	RMT	REN	BLA	JP BINA	LANCO	SASAN	JP NIGRI	MOSER BARE	IPP	Banking Ret.	Banking Adv.	Total Availabi	Demand	Shortge(+) / Surplus(-)
1	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	0	40	0	350	8	10	40	418	255	928	210	126	1977	0	0	7455	6912	-543
2	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	0	40	0	350	8	10	40	418	255	928	210	126	1977	0	0	7455	6731	-724
3	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	0	40	0	350	8	10	40	418	255	928	210	126	1977	0	0	7455	6617	-838
4	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	0	40	0	350	8	10	40	418	255	928	210	126	1977	0	0	7455	6594	-861
5	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	0	40	0	350	8	10	40	418	255	928	210	126	1977	0	0	7455	6616	-839
6	2300	58	50	0	0	0	0	0	25	20	0	153	2500	200	25	0	40	0	350	8	10	40	418	255	928	210	126	1977	0	0	7563	7025	-538
7	2300	110	100	80	0	0	25	0	25	20	40	400	2500	200	25	0	40	0	350	8	10	40	418	255	928	210	126	1977	0	0	7810	7653	-157
8	2300	110	100	80	300	0	25	0	25	20	40	700	2500	200	25	115	40	50	350	8	11	40	418	255	928	210	126	1977	0	0	8276	8103	-174
9	2300	110	100	80	300	0	25	0	25	20	40	700	2500	200	25	230	40	100	350	8	60	40	418	255	928	210	126	1977	0	0	8490	7985	-505
10	2300	110	100	80	300	0	25	0	25	20	40	700	2500	200	25	230	40	100	350	8	100	40	418	255	928	210	126	1977	0	0	8530	7845	-685
11	2300	110	100	80	0	0	25	0	25	20	40	400	2500	200	25	230	40	100	350	8	130	40	418	255	928	210	126	1977	0	0	8260	7457	-803
12	2300	110	50	80	0	0	25	0	25	20	0	310	2500	200	25	230	40	100	350	8	130	40	418	255	928	210	126	1977	0	0	8170	7052	-1118
13	2300	0	0	80	0	0	0	0	25	20	0	125	2500	200	25	230	40	100	350	8	130	40	418	255	928	210	126	1977	0	0	7985	6829	-1156
14	2300	0	0	80	0	0	0	0	25	20	0	125	2500	200	25	230	40	100	350	8	130	40	418	255	928	210	126	1977	0	0	7985	6770	-1215
15	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	230	40	100	350	8	80	40	418	255	928	210	126	1977	0	0	7855	6676	-1179
16	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	230	40	100	350	8	60	40	418	255	928	210	126	1977	0	0	7835	6788	-1047
17	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	230	40	100	350	8	56	40	418	255	928	210	126	1977	0	0	7831	6645	-1186
18	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	230	40	100	350	8	25	40	418	255	928	210	126	1977	0	0	7800	6771	-1029
19	2300	0	0	40	0	0	0	0	25	20	0	85	2500	200	25	230	248	100	350	8	10	40	418	255	928	210	126	1977	0	0	8033	7495	-538
20	2300	0	0	40	100	0	0	0	25	20	0	185	2500	200	25	230	330	100	350	8	10	40	418	255	928	210	126	1977	0	0	8215	7635	-580
21	2300	0	0	40	100	0	0	0	25	20	0	185	2500	200	25	230	330	100	350	8	10	40	418	255	928	210	126	1977	0	0	8215	7689	-526
22	2300	0	0	40	100	0	0	0	25	20	0	185	2500	200	25	230	330	100	350	8	10	40	418	255	928	210	126	1977	0	0	8215	7555	-660
23	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	230	90	100	350	8	10	40	418	255	928	210	126	1977	0	0	7835	7299	-536
24	2300	0	0	0	0	0	0	0	25	20	0	45	2500	200	25	230	15	100	350	8	10	40	418	255	928	210	126	1977	0	0	7760	7208	-552
Average	2300	30	25	33	50	0	6	0	25	20	8	198	2500	200	25	158	86	69	350	8	43	40	418	255	928	210	126	1977	0	0	7914	7164	-750
LU/Day	552	7	6	8	12	0	2	0	6	5	2	47	600	48	6	38	21	17	84	2	10	10	100	61	223	50	30	474	0	0	1899	1719	-180
		22.24	10.0	24.0	31.2	,	4.05	0	10.0	14.00	0.2	147.2	1000		10.0	117.0	03.94	51.15	200	0	52	30	511	190	091	137	54	14/1	0	0	JUU0. I	5330.3	-337.70000

6.066

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Annexure - 3.2

-	DETAILS OF 400/220 KV LINES / S	SUB-STAION	EQUIPMEN	TS PROPO	SED SH	UT DOW	N PROCRAMME DUIPING 30 00 2014 TO 10 10	Annexure-
Br. No.	Name of Line / Equipments	Ckt. No.	Date	Period of at	hut down	Dun	Maintenance work proposed	Remark
400 KV	Transformers/Reactors				1.14			
1	50MVAR REACTOR I AT 400KV S/S BINA	1	27-Oct-14	9.00	17.00	# 00 T	FOR MAINTENANCE WORK	
2	50MVAR RECTOR II AT 400KV 5/S BINA		28-Oct-14	9.00	17.00	8.00	FOR MAINTENANCE WORK.	
3	50MVAR BUS REACTOR AT 400KV S/S BINA		10-Nov-14	9.00	17.00	8.00	FOR MAINTENANCE WORK.	
4	3X105 MVA ICT-1 / 400 KV 5/5 INDORE		29-Oct-14	8.00	17.00	9.00	400 KV SIDE B DH C Y BEB ACENENY	
5	3X105 MVA ICT-1/400 KV S/S INDORE		30-Oct-14	6.00	17.00	9.00	400 KV SIDE Y PH C T REPLACEMENT	
6	3X105 MVA (CT-17400 KV 5/5 INDORE		31-Oct-14	00.5	17.00	9.00	400 KV SIDE B PH.C.T. REPLACEMENT	
1	3X16.66 MVAR RECTOR/ 400 KV S/S INDORE FOR ISP II		10-Nov-14	9.00			C B REPLACEMENT WORK	
	3X16.66 MVAR RECTOR/ 400 KV 5/S INDORE FOR ISP II		13-Nov-14		17:00	80.00	C B REPLACEMENT WORK	
400 KV	LINES					-		
1	400KV JP BPSCL BINA		11-Nov-14	9:00	17.00	8.00	FOR MAINTENANCE WORK AT BINA 5/5	1
2	400 KV BHOPAL BINA 1	1	27-Oct-14	9.00	17.00	8.00	FOR MAINTENANCE WORK AT DURING ALSO	-
3	400 KV BHOPAL BINA 1	1	28-0:1-14	9.00	17.00	8.00	FOR MAINTENANCE WORK AT DRUTAL SS	
4	400 KV BHOPAL BINA 2	11	29.001-14	9.00	17.00	8.00	FOR MAINTENANCE WORK AT BROPAL SS	
5	400 KV BHOPAL BINA 2	11	30.0014	9.00	17.00	8.00	FOR MAINTENANCE WORK AT BRUPAL S'S	
6	400 KV Seoni-Bhitai		12.Nov. 14	8.00	18.00	6.00	FOR MAINTENANCE WORK AT BROPAL SIS	
7	400 KV Katri-Damoh		10 high 14	8.00	10.00	0.00	Maint Work	
8	400 KV Birsinohour-Katol		74 Nov-14	9.00	18.00	0.00	Maint Work	
	The second s		14 Nov-14	9.00	18:00	9.00	Maint Work	
10	400 KV Sami-ISP	+++++	14-7609-14	9.00	17.00	0.00	Maint Work	
11	400 KV Nanda Rainarh		10-740V-14	9.00	17:00	8.00	Maint Work	
12	400 KV Nagda-Ragain	-	13-Nov-14	9:00	18:00	0:00	Maint Work	
13	400 KV Indexe Nande		20-Oct-14	9.00	16:00	7.00	Maint Work	
10	eve Ky moore-wagoa		25-Oct-14	9:00	16:00	7:00	Maint Work	
14	400 KV Rajgarh-SSP	1	07-Nov-14 to 17-Nov- 14	6.00	18:00	12:00	Maint Work	Shutdown is required on daily
15	400 KV Rajgarh-SSP		18-Nov-14 and 19-Nov 14	5:00	18:00	12.00	Maint Work	defective insulators

Ur	nitwise / Stat	ionwise Ge	nration in MU	
A. Thermal				Ann 4.1
Stn. Name	UNIT No.	Capacity MW	Aug-14	Sep-14
×	3	120	39.93	46.40
ITAI	4	120	0.00	0.00
AN AN	PH II	240	39.93	46.40
ARA	5	210	26.73	118.88
M M	PH III	210	26.73	118.88
	тот	450	66.66	165.28
	1	62.5	0.00	0.00
	2	62.5	0.00	0.00
	4	62.5	0.00	0.00
	PHI	187.5	0.00	0.00
	6	200	0.00	37.28
RA	7	210	113.21	100.06
Pd	PHI	410	113.21	137.34
SAT	8	210	121.99	122.80
•	9	210	24.87	0.00
		420	146.86	122.80
	10	250	114.566	126.10
	11	050	138.555	69.03
	PHIV	250	253.121	195.13
	101	1267.5	513.19	400.27
	1	210	0	9.62
토		210	49.93	49.33
Q	2	420	49.93	06.97
dA	3	210	00.10 27.10	90.04
IAY	4 PH II	210 420	125 34	135.11
AN,	5	420 500	300 72	301.40
ŝ	у при ш	500	300.72	301.40
	тот	1340	475.99	495 47
S	101	600	41 91	67 17
STP		600	41.01	67.17
	FHI	2057.5	41.91	1102.10
AMARKANTAK POWER H	HOUSE-I RETIRED FRO	OM SERVICE WEF 01	04 2009	1103.10
B. Hvdel			10 112000	
Station N	lame	Capacity	Aug-14	Sep-14
GANDHISAGAR		MW 115.0	2.49	0.44
R.P.SAGAR		172.0	31.31	0.48
J.SAGAR		99.0	26.56	8.69
CHAMBAL		386.0	60.35	9.61
M.P.CHAMBAL		193.0	30.18	4.80
		160.0	36.05	51.12
BARGI		90.0	<u>24.03</u> 51.78	<u>54.06</u> 62.37
TONS		315.0	73.63	43.58
BIRSINGHPUR		20.0	10.15	7.34
B.SGR(DEOLONDH)		60.0	25.67	42.74
B.SGR(SILPARA)		30.0	0.48	0.68
M.P.RAJGHAT		22.5	5.56	7.87
B.SGR(JINHA)		20.0	2.09	0.77
		60.0	15.61	2.62
		1186.0	286.95	236.57
MPSEB HYDEL Share		915.0	229.08	227.40
C. NHDC (Ex-Bu	us)			
Station N	lame	Capacity MW	Aug-14	Sep-14
Indira Sagar Hydel Proj	ect	1000	204.078	467.830
Omkareshwar Hydel Pr	oject	520	88.215	187.778

ENERGY BALANCE SHEET

Yea	ar :	201	4 -	15	

						All fi	gures in N	
S No.	Source	Apr/14	May/14	Jun/14	Jul/14	Aug/14	Sep/14	Total
А.	M.P. Availability							
1	Thermal	1321.54	1313.76	1186.55	1134.97	992.44	1067.53	7016.79
2	Hydel	261.44	245.35	226.73	98.05	236.60	204.27	1272.45
4	Total	1582.98	1559.11	1413.29	1233.02	1229.04	1271.80	8289.24
В.	Exchange with other States / Systems							
1	Indira Sagar	265.71	114.58	83.24	66.22	202.74	464.63	1197.13
2	Omkareshwar	122.22	56.90	42.43	41.59	88.21	187.78	539.14
3	MPPMCL Schedule from Central Sector of WR	1743.94	1815.60	1623.72	1616.06	1498.74	1689.60	9987.66
4	MPPMCL Schedule from Central Sector ER	24.28	41.04	34.62	28.30	30.03	26.04	184.31
5	Total MPPMCL Schedule from Central Sector (WR+ER)	1/68.22	1856.64	1658.34	1644.36	1528.77	1/15.65	101/1.9/
6	Deviation Energy	-14.84	-10.01	-53.90	-19.85	3.18	5.98	-89.44
/	Schedule From DVC ER	0.00	8.83	232.29	238.70	153.77	9.75	643.35
0		23.04	23.81	23.00	23.69	28.62	22.01	144.17
9		185.98	193.50	191.06	191.43	F 41 74	131.31	1007.08
10	SASAN ESSAD	347.14	333.13	455.06	0.00	541.74	400.01	2092.70
10	ESSAR	0.00	0.00	0.00	0.00	0.00	3.64	9.04
12	schedule from Sardar Sarovar	127.60	102.00	10.00	0.00	0.00	107.07	07.37
14	Schedule from SE7	10.40	102.43	19.71	0.04	10.02	414.17	302.44 20.94
14	Schedule from Riband+Matatila	10.40	0.03	9.00	0.00	15 65	16 32	50.04 62.92
15		4.01	9.04	9.52	1.91	15.05	10.33	03.02
16	CSPDCCL dtd. 18.09.2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Medium Term Power Purchase from Balco through PTC agaisnt 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
18	Additional Power Purchase	0.00	0.00	0.00	0.00	56.76	26.24	83.00
19	Energy Exchange	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	Banking of Energy	0.00	-14.79	-97.02	-268.32	-264.50	-548.09	-1192.72
21	Sale of Power	-168.86	-21.85	-92.30	-1.79	-11.17	-112.35	-408.31
22	MPPMCL Schedule Incl. Power Purchase	2308.35	2502.14	2407.25	2428.78	2392.04	2227.05	14265.62
23	MPPMCL Drawal Including Power Purchase	2293.51	2492.13	2353.35	2408.93	2395.22	2233.03	14176.17
24	Wheeled Energy of Tawa HEG	1.71	0.03	0.00	0.00	0.00	7.94	3.70
20	Wheeled Energy of Wind Farm	13.35	13.79	23.52	10.71	11.04	12.15	88.10
20	Wheeled Energy of Solar Plant	14.00	10.00	10.42	1 24	0.79	13.44	6.67
27	POWER PURCHASE by MRRMCL from RLA Power + IR RINA (Intro State STOA)	1.02	1.20	1.30	1.24	11/0		0.07
20	FOWER FORGERSE BY WEFFINGE HOLD BEAF OWER + 3F BINA (IIIIa State STOA)	0.00	0.00	22.95	0.00	22.54	0.14	54 52
23	Deviation Energy of MPRCCI Thermal	0.00	0.00	22.85	0.00	22.54	9.14	54.53
30	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not included in State Supply)	0.00	0.00	22.85 -10.99	0.00 -9.08	22.54 -8.27	9.14 -5.04	54.53 -39.33 -63.75
30	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm	0.00 2.05 0.00 26.55	0.00 -8.01 0.00 37.68	22.85 -10.99 0.00 43.36	0.00 -9.08 -21.68	-22.54 -8.27 -21.20	9.14 -5.04 -20.87	54.53 -39.33 -63.75 301.24
30 31 32	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant	0.00 2.05 0.00 26.55 34.96	0.00 -8.01 0.00 37.68 34.09	22.85 -10.99 0.00 43.36 36.86	0.00 -9.08 -21.68 90.65 25.67	22.54 -8.27 -21.20 59.45 27.61	9.14 -5.04 -20.87 43.55 34.53	54.53 -39.33 -63.75 301.24 193.73
30 31 32	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind purchase	0.00 2.05 0.00 26.55 34.96	0.00 -8.01 0.00 37.68 34.09	22.85 -10.99 0.00 43.36 36.86	0.00 -9.08 -21.68 90.65 25.67	22.54 -8.27 -21.20 59.45 27.61	9.14 -5.04 -20.87 43.55 34.53	54.53 -39.33 -63.75 301.24 193.73
30 31 32 33	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Bionas Parivat +	0.00 2.05 0.00 26.55 34.96 31.05	0.00 -8.01 0.00 37.68 34.09 49.76	22.85 -10.99 0.00 43.36 36.86 56.51	0.00 -9.08 -21.68 90.65 25.67 38.24	22.54 -8.27 -21.20 59.45 27.61 27.07	9.14 -5.04 -20.87 43.55 34.53 26.60	54.53 -39.33 -63.75 301.24 193.73 229.22
30 31 32 33 33 34	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA_JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass	0.00 2.05 0.00 26.55 34.96 31.05 7.54	0.00 -8.01 0.00 37.68 34.09 49.76 6.96	22.85 -10.99 0.00 43.36 36.86 56.51 7.31	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76	9.14 -5.04 -20.87 43.55 34.53 26.60 7.40	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93
30 31 32 33 34 35	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75	22.85 -10.99 0.00 43.36 36.86 56.51 7.31 2.36	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33	9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89
30 31 32 33 33 34 35 36	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA, JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83	22.85 -10.99 0.00 43.36 36.86 56.51 7.31 2.36 8.33	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40
30 31 32 33 34 35 36 37	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67	22.85 -10.99 0.00 43.36 36.86 56.51 7.31 2.36 8.33 209.77	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32
30 31 32 33 33 34 35 36 37 38	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01	22.85 -10.99 0.00 43.36 36.86 56.51 7.31 2.36 8.33 209.77 -0.01	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99
30 31 32 33 33 34 35 36 37 38 39	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / less Overshare by MP	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03	22.85 -10.99 0.00 43.36 36.86 56.51 7.31 2.36 8.33 209.77 -0.01 6.98	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04	6.76 22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11
30 31 32 33 33 34 35 36 37 38 39 40	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / less Overshare by MP Rajghat Hydel Power Station Excess / Less Overshare by MP	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04	22.85 -10.99 0.00 43.36 36.86 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16
30 31 32 33 34 35 36 37 38 39 40 41	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power Station Excess / Less Overshare by MP	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06	22.85 -10.99 0.00 43.36 36.86 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75
30 31 32 33 34 35 36 37 38 39 40 41 42	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power Station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41 150.41	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46
30 31 32 33 34 35 36 37 38 39 40 41 42 43	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MINIMUM DAILY	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41 150.41 131.53	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 122.27	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46 102.06
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MINIMUM DAILY	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41 150.41 131.53 151.26	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30 151.48	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 122.27 151.69	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36 149.18	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06 155.47	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09 178.76	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46 102.06 178.76
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MINIMUM DAILY State Supply (Ex-Power st. Bus):- YEAR : 2013-14	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41 150.41 131.53 151.26 4052.83	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30 151.48 4387.49	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 122.27 151.69 3382.02	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36 149.18 3396.74	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06 155.47 3412.55	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09 178.76 4150.33	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 -6.16 26253.75 143.46 102.06 178.76 22781.96
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of ISP Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MINIMUM DAILY MAXIMUM DAILY State Supply (Ex-Power st. Bus):- YEAR : 2013-14 (14-15)*100/(13-14)	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41 150.41 131.53 151.26 4052.83 11.34	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30 151.48 4387.49 5.05	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 122.27 151.69 3382.02 27.61	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36 149.18 3396.74 21.17	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06 155.47 3412.55 23.49	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09 178.76 4150.33 8.10	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46 102.06 178.76 22781.96 15.24
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of BLA Power against LTOA Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / less Overshare by MP Rajghat Hydel Power station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MINIMUM DAILY State Supply (Ex-Power st. Bus):- YEAR : 2013-14 (14-15)*100/(13-14) Unshedule L/S : Year-2014-15	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41 150.41 151.26 4052.83 11.34 2.55	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30 151.48 4387.49 5.05 27.16	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 1422.27 151.69 3382.02 27.61 26.62	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36 149.18 3396.74 21.17 38.09	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06 155.47 3412.55 2.349 191.58	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09 178.76 4150.33 8.10 6.07	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46 102.06 178.76 22781.96 15.24 292.09
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of BLA Power against LTOA Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MAXIMUM DAILY State Supply (Ex-Power st. Bus):- YEAR : 2013-14 (14-15)*100/(13-14) Unshedule L/S : Year-2014-15 Frequency Correction	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 -0.03 4512.41 150.41 150.41 151.26 4052.83 11.34 2.55 -0.81	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30 151.48 4387.49 5.05 27.16 -3.90	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 122.27 151.69 3382.02 27.61 26.62 -1.69	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36 149.18 3396.74 21.17 38.09 1.47	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06 155.47 3412.55 2.349 191.58 1.59	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09 178.76 4150.33 8.10 6.07 -0.70	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46 102.06 178.76 22781.96 15.24 292.09 -4.03
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of BLA Power against LTOA Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power Station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MINIMUM DAILY State Supply (Ex-Power st. Bus):- YEAR : 2013-14 (14-15)*100/(13-14) Unshedule L/S : Year-2014-15 Frequency Correction Restricted Requirement : Year-2014-15	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 0.27 -1.38 -0.03 4512.41 150.41 151.26 4052.83 11.34 2.55 -0.81 4514.16	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30 151.48 4387.49 5.05 27.16 -3.90 4632.32	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 122.27 151.69 3382.02 27.61 26.62 -1.69 4340.75	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36 149.18 3396.74 21.17 38.09 1.47 4155.40	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06 155.47 3412.55 23.49 191.58 1.59 4407.27	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09 178.76 4150.33 8.10 6.07 -0.70 4491.90	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46 102.06 178.76 22781.96 22781.96 22781.96 15.24 292.09 -4.03 26541.80
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Deviation Energy of MPPGCL Thermal Sale of Power to SEZ by MPPMCL (Not Included in State Supply) Energy Purchased by MP from Wind Farm Energy Purchased by MP from Solar Plant Firm / Infirm Energy of HEG Mandideep +HEG Tawa +Trimula Ind. purchase by MP +Wheeled / UI energy of BLA,JP Bina & Hindalco Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass Deviation Energy of BLA Power against LTOA Schedule Energy of BLA Power against LTOA Schedule Energy of JP BINA Power against LTOA Import from bargi Left Bank Canal Power House + ISP NVDA Chambal - Satpura System Excess / Less Overshare by MP Rajghat Hydel Power Station Excess / Less Overshare by MP State Supply (Ex-Power st. Bus) AVERAGE DAILY MINIMUM DAILY State Supply (Ex-Power st. Bus):- YEAR : 2013-14 (14-15)*100/(13-14) Unshedule L/S : Year-2014-15 Frequency Correction Restricted Requirement : Year-2014-15 Shedule L/S : Year-2014-15	0.00 2.05 0.00 26.55 34.96 31.05 7.54 2.16 7.70 106.38 0.27 -1.38 0.27 -1.38 -0.03 4512.41 150.41 151.26 4052.83 11.34 2.55 -0.81 4514.16 0.00	0.00 -8.01 0.00 37.68 34.09 49.76 6.96 1.75 9.83 222.67 -0.01 -0.03 -0.04 4609.06 148.68 135.30 151.48 4387.49 5.05 27.16 -3.90 4632.32 0.00	22.85 -10.99 0.00 43.36 56.51 7.31 2.36 8.33 209.77 -0.01 6.98 -0.07 4315.82 143.86 122.27 151.69 3382.02 27.61 26.62 -1.69 4340.75 0.00	0.00 -9.08 -21.68 90.65 25.67 38.24 7.95 0.09 8.37 173.61 -0.01 -0.04 -0.03 4115.84 132.77 104.36 149.18 3396.74 21.17 38.09 1.47 4155.40 0.00	22.54 -8.27 -21.20 59.45 27.61 27.07 6.76 1.33 9.42 152.75 2.82 -29.44 2.62 4214.10 135.94 102.06 155.47 3412.55 2.349 191.58 1.59 4407.27 0.00	1.06 9.14 -5.04 -20.87 43.55 34.53 26.60 7.40 3.20 7.76 177.13 2.91 -5.20 3.70 4486.53 149.55 123.09 178.76 4150.33 8.10 6.07 -0.70 4491.90 0.00	54.53 -39.33 -63.75 301.24 193.73 229.22 43.93 10.89 51.40 1042.32 5.99 -29.11 6.16 26253.75 143.46 102.06 178.76 22781.96 15.24 292.09 -4.03 26541.80 0.00

<u>Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand</u> <u>Month :- अगस्त 2014</u>

FIGURES IN MW

					Own	Gener	ation									Sche	dule	from												Loa	d Shec	Iding		
Hrs.	FREQ.	THER. Incl Aux	THER. Excl Aux	HYD.	ISP	OSP	Total IPPs Injectio n	Total CPPs Injectio n	Total	CSS	DVC ER	Sugen	Lanco	Sasan	Essar	SSP	SEZ	Banking	Sale	Pur	Total MTO A at MP	STO A	Riha nd+ Mata tila- Rajg hat	Total	Tot Avl.	Act. Drl	Devia tion	Intra State STO A	DEMA ND MET	SCH	UN SCH	TOTAL	REST. DEMA ND	UNRES T. DEMAN D
1:00	49.95	1458	1327	279	337	174	273	15	2406	2023	206	37	156	693	8	254	0	-438	-7	60	0	-1	17	3008	5415	3072	64	0	5478	0	272	272	5758	5758
2:00	49.99	1457	1326	275	271	139	274	15	2299	2025	206	37	153	700	8	253	0	-431	0	73	0	8	17	3047	5346	3107	60	0	5406	0	283	283	5691	5691
3:00	49.99	1453	1322	275	197	101	273	13	2181	2000	200	37	149	704	8	164	0	-306	0	81	0	11	17	3064	5245	3186	122	0	5368	0	284	284	5654	5654
4:00	50.00	1446	1316	266	170	81	276	13	2122	1999	199	37	149	702	8	141	0	-301	0	95	0	25	17	3071	5193	3154	82	0	5276	0	324	324	5601	5601
5:00	49.92	1459	1327	259	179	78	279	14	2135	2007	199	37	149	698	8	149	0	-299	0	114	0	49	17	3127	5263	3159	31	0	5294	0	316	316	5623	5623
6:00	50.01	1460	1329	286	196	87	282	14	2193	2005	198	37	149	707	8	266	0	-295	0	87	0	46	17	3224	5417	3290	66	0	5483	0	282	282	5762	5762
7:00	49.98	1475	1342	306	221	102	275	24	2271	2002	200	38	145	708	8	288	0	-294	0	122	0	83	17	3316	5587	3379	63	0	5650	0	261	261	5916	5916
8:00	50.04	1479	1346	297	239	105	276	50	2314	1999	199	38	145	701	8	284	0	-294	-7	118	o	74	17	3282	5596	3293	11	0	5607	0	261	261	5861	5861
9:00	49.94	1473	1341	286	228	100	278	80	2314	2002	199	38	146	700	8	274	0	-294	-7	98	o	57	17	3239	5553	3233	-7	0	5546	0	272	272	5828	5828
10:00	49.98	1471	1339	279	212	97	274	102	2303	1976	199	38	150	701	8	168	0	-296	-10	105	0	42	17	3097	5400	3079	-18	0	5382	0	356	356	5742	5742
11:00	49.99	1470	1338	261	174	85	275	119	2251	1950	198	38	146	702	8	123	0	-298	-13	92	0	19	17	2981	5233	2984	3	0	5236	0	385	385	5622	5622
12:00	49.99	1467	1335	245	125	62	275	116	2158	1949	198	37	146	702	8	125	0	-298	-7	70	0	4	17	2952	5110	2925	-27	0	5083	0	374	374	5458	5458
13:00	50.08	1462	1331	199	111	50	278	124	2094	1956	195	37	140	697	8	242	0	-305	-10	70	0	5	17	3051	5145	3034	-18	0	5127	0	265	265	5380	5380
14:00	50.01	1455	1324	209	117	45	281	119	2095	1944	193	37	140	700	8	297	0	-483	-7	70	0	13	17	2929	5024	3001	72	0	5096	0	219	219	5315	5315
15:00	49.96	1458	1327	210	134	55	281	100	2106	1948	193	36	140	701	8	263	0	-485	-18	69	0	-5	17	2866	4973	2954	88	0	5060	0	248	248	5316	5316
16:00	50.01	1467	1335	217	132	54	282	77	2096	1942	194	36	140	698	8	312	0	-485	-26	69	0	-5	17	2899	4995	2999	101	0	5096	0	246	246	5339	5339
17:00	49.99	1455	1324	212	122	50	282	51	2041	1934	194	36	137	698	8	376	0	-485	-7	79	0	9	17	2997	5038	3149	152	0	5190	0	238	238	5429	5429
18:00	50.07	1450	1319	260	187	79	284	28	2157	1942	192	37	140	695	8	400	0	-322	-10	123	0	39	17	3260	5417	3225	-35	0	5382	0	184	184	5556	5556
19:00	49.99	1471	1339	384	464	190	315	22	2714	1966	209	37	153	699	8	408	0	-323	-24	99	0	25	17	3271	5986	3322	50	0	6036	0	144	144	6183	6183
20:00	49.91	1498	1363	479	688	258	323	23	3134	1970	211	37	153	699	8	425	0	-312	-42	28	0	-56	17	3138	6271	3190	53	0	6324	0	221	221	6563	6563
21:00	49.96	1505	1369	450	612	248	322	21	3023	1984	211	37	153	702	8	501	0	-308	-52	36	0	-59	17	3229	6252	3261	32	0	6284	0	164	164	6456	6456
22:00	49.97	1514	1377	419	537	232	312	23	2900	1997	211	37	153	706	8	586	0	-311	-43	37	0	-57	17	3340	6241	3290	-51	0	6190	0	122	122	6317	6317
23:00	50.00	1501	1366	375	571	240	313	21	2885	2018	209	38	153	707	8	479	0	-444	-44	0	0	-62	17	3077	5962	3089	11	0	5974	0	197	197	6172	6172
24:00	50.02	1480	1346	332	501	223	289	18	2709	2018	209	37	150	709	8	214	0	-429	-31	42	0	-25	17	2921	5630	2978	57	0	5688	0	260	260	5945	5945
Avg.	49.99	1470	1338	294	280	122	286	50	2371	1982	201	37	147	701	8	291	0	-356	-15	77	0	10	17	3100	5470	3140	40	0	5511	0	258	258	5770	5770
00 TO 06 HRS.	49.98	1456	1325	273	225	110	276	14	2223	2010	201	37	151	701	8	204	0	-345	-1	85	0	23	17	3090	5313	3161	71	0	5384	0	294	294	5681	5681
06 TO 12 HRS.	49.99	1473	1340	279	200	92	275	82	2268	1980	199	38	147	702	8	210	0	-296	-7	101	0	47	17	3144	5413	3149	4	0	5417	0	318	318	5738	5738
12 TO 18 HRS.	50.02	1458	1327	218	134	56	281	83	2098	1944	193	37	140	698	8	315	0	-428	-13	80	0	9	17	3000	5099	3060	60	0	5159	0	233	233	5389	5389
06TO 18 HRS.	50.00	1465	1333	248	167	74	278	82	2183	1962	196	37	143	700	8	263	0	-362	-10	90	0	28	17	3072	5256	3105	32	0	5288	0	276	276	5564	5564
18 TO 24 HRS.	49.97	1495	1360	406	562	232	312	21	2894	1992	210	37	152	704	8	435	0	-355	-39	40	0	-39	17	3163	6057	3188	25	0	6082	0	185	185	6273	6273

<u>Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand</u> <u>Month :- सितम्बर 2014</u>

															INICI	<u>nur</u>	<u>nac</u>	<u>• 41</u>	2014													F	IGUF	RES II	N MW
		, I			Own	Gener	ation		ſ							s	chedul	e fron	n												Loa	d Shec	lding		
Hrs.	FREQ.	THER. Incl Aux	THER. Excl Aux	HYD.	ISP	OSP	Total IPPs Injectio n	Total CPPs Injectio n	Total	CSS	DVC ER	Sugen	Lanco	Sasan	Essar	JP Nigri	SSP	SEZ	Banking	Sale	Pur	Total MTO A at MP	STO A	Riha nd+ Mata tila- Rajg hat	Total	Tot Avi.	Act. Drl	Devia tion	Intra State STO A	DEMA ND MET	SCH	UN SCH	TOTAL	REST. DEMA ND	UNRES T. DEMAN D
1:00	49.99	1645	1497	316	690	292	293	15	3103	2361	15	30	183	640	5	93	601	0	-786	-170	28	0	-3	16	3014	6118	2991	-23	0	6095	0	0	0	6097	6097
2:00	50.02	1640	1493	266	611	258	296	14	2937	2356	15	30	175	646	5	96	627	0	-786	-158	38	0	5	16	3065	6002	3082	17	0	6020	0	0	0	6017	6017
3:00	50.04	1621	1475	236	553	231	296	14	2805	2273	15	30	169	645	5	98	610	0	-569	-169	39	0	3	16	3164	5969	3174	9	0	5979	0	0	0	5972	5972
4:00	50.03	1619	1473	227	550	231	290	13	2785	2252	15	30	166	652	5	98	596	0	-569	-162	39	0	4	16	3142	5927	3153	11	0	5938	0	0	0	5932	5932
5:00	49.95	1624	1478	233	582	245	292	14	2843	2271	15	30	171	658	5	103	597	0	-569	-189	37	0	1	16	3146	5989	3076	-69	0	5920	0	0	0	5928	5928
6:00	50.03	1630	1484	273	619	248	293	14	2930	2271	15	30	179	671	5	103	598	0	-569	-211	39	0	-1	16	3146	6076	3170	24	0	6100	0	0	0	6095	6095
7:00	50.01	1632	1485	294	647	256	292	26	3001	2273	15	30	175	674	5	103	605	0	-566	-187	27	0	15	16	3184	6185	3217	33	0	6218	0	0	0	6216	6216
8:00	50.03	1635	1488	288	633	256	295	62	3021	2289	15	30	176	665	5	103	612	0	-566	-187	26	0	16	16	3201	6222	3152	-49	0	6172	0	0	0	6168	6168
9:00	50.02	1639	1491	264	639	256	296	98	3045	2282	12	30	180	648	5	110	558	0	-627	-183	26	0	13	16	3070	6114	3010	-60	0	6055	0	0	0	6052	6052
10:00	50.01	1644	1496	259	628	262	296	124	3065	2266	12	29	179	643	5	111	394	0	-627	-185	20	0	5	16	2867	5932	2843	-24	0	5908	0	0	0	5908	5908
11:00	49.98	1637	1490	228	597	253	297	139	3004	2267	12	29	179	640	5	114	345	0	-627	-206	16	0	2	16	2792	5795	2641	-151	0	5644	0	0	0	5648	5648
12:00	50.03	1628	1481	219	537	234	295	148	2915	2230	12	29	176	639	5	109	391	0	-638	-232	16	0	0	16	2753	5668	2610	-143	0	5525	0	0	0	5520	5520
13:00	50.09	1622	1476	221	494	210	293	146	2841	2182	12	29	170	640	5	109	489	0	-641	-226	16	0	-1	16	2802	5642	2719	-82	0	5560	0	0	0	5546	5546
14:00	49.98	1603	1459	252	559	229	293	135	2927	2178	12	29	170	641	5	110	521	0	-863	-177	20	0	4	16	2665	5592	2651	-14	0	5578	0	0	0	5582	5582
15:00	49.97	1621	1475	275	644	256	300	115	3065	2246	12	29	173	639	5	111	440	0	-1096	-189	20	0	3	16	2408	5473	2545	137	0	5611	0	0	0	5618	5618
16:00	49.99	1617	1471	288	655	260	306	85	3065	2280	12	29	170	639	5	111	449	0	-1103	-190	20	0	3	16	2441	5506	2611	171	0	5676	0	0	0	5679	5679
17:00	50.02	1617	1472	269	627	253	310	48	2979	2267	12	29	170	646	5	110	601	0	-1103	-162	20	0	2	16	2613	5592	2695	82	0	5675	0	0	0	5672	5672
18:00	50.03	1614	1469	270	610	240	323	23	2936	2259	12	29	170	640	5	94	665	0	-875	-141	20	0	4	16	2897	5833	2892	-5	0	5827	0	0	0	5823	5823
19:00	49.90	1647	1499	443	805	309	336	17	3410	2313	12	30	182	637	5	94	627	0	-775	-118	20	0	-32	16	3010	6420	3247	237	0	6657	0	28	28	6705	6705
20:00	50.03	1660	1510	446	851	328	337	16	3489	2361	12	30	184	635	4	93	620	0	-785	-80	20	0	-44	16	3067	6556	3175	108	0	6664	0	38	38	6696	6696
21:00	50.00	1666	1516	404	802	320	332	17	3391	2410	12	30	184	625	4	89	590	0	-785	-73	26	0	-41	16	3088	6479	3137	49	0	6528	0	26	26	6553	6553
22:00	50.00	1662	1513	383	809	319	333	17	3374	2409	12	30	184	627	4	89	658	0	-785	-52	20	0	-37	16	3176	6550	3173	-3	0	6547	0	31	31	6578	6578
23:00	50.01	1662	1512	389	847	333	324	16	3421	2441	12	30	184	621	5	90	602	0	-977	-55	29	0	-38	16	2960	6381	3085	125	0	6506	0	57	57	6561	6561
24:00	50.04	1652	1504	351	800	322	302	15	3294	2431	12	30	184	622	5	90	562	0	-983	-38	35	0	-4	16	2963	6257	3031	68	0	6325	0	23	23	6341	6341
Avg.	50.01	1635	1488	296	658	267	305	56	3069	2299	13	30	176	643	5	101	557	0	-761	-156	26	0	-5	16	2943	6012	2962	19	0	6030	0	8	8	6038	6038
00 TO 06 HRS.	50.01	1630	1483	259	601	251	293	14	2901	2297	15	30	174	652	5	98	605	0	-641	-176	37	0	2	16	3113	6013	3108	-5	0	6008	0	0	0	6007	6007
06 TO 12 HRS.	50.01	1636	1489	259	613	253	295	100	3008	2268	13	29	178	651	5	109	484	0	-609	-197	22	0	8	16	2978	5986	2912	-66	0	5920	0	0	0	5919	5919
12 TO 18 HRS.	50.01	1616	1470	263	598	241	304	92	2969	2235	12	29	170	641	5	107	528	0	-947	-181	19	0	3	16	2638	5606	2686	48	0	5654	0	0	0	5653	5653
06TO 18 HRS.	50.01	1626	1480	261	606	247	300	96	2989	2252	13	29	174	646	5	108	506	0	-778	-189	21	0	6	16	2808	5796	2799	-9	0	5787	0	0	0	5786	5786
18 TO 24 HRS.	50.00	1658	1509	403	819	322	327	16	3396	2394	12	30	184	628	5	91	610	0	-848	-70	25	0	-33	16	3044	6441	3141	97	o	6538	0	34	34	6572	6572

<u>Discomwise Hourly Average Schedule Drawal</u>, <u>Actual Drawal &Over(+)/Under(-) Drawal</u> <u>Month :- अगस्त 2014</u>

FIGURES IN MW

					EZON	E						CZON	E						WZON	١E		
Hrs.	FREQ.	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricte d Demand	Unrestrict ed Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricte d Demand	Unrestrict ed Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricte d Demand	Unrestrict ed Demand
1:00	49.95	1897	1941	44	0	114	2058	2058	1949	1985	36	0	139	2127	2127	1640	1552	-88	0	19	1573	1573
2:00	49.99	1858	1922	64	0	108	2031	2031	1900	1925	25	0	159	2085	2085	1587	1558	-29	0	16	1575	1575
3:00	49.99	1836	1893	57	0	124	2018	2018	1853	1917	64	0	138	2056	2056	1571	1558	-13	0	21	1580	1580
4:00	50.00	1799	1875	76	0	105	1980	1980	1828	1866	38	0	185	2051	2051	1555	1535	-21	0	34	1569	1569
5:00	49.92	1798	1855	56	0	108	1967	1967	1841	1881	40	0	174	2060	2060	1600	1558	-41	0	34	1596	1596
6:00	50.01	1808	1852	43	0	108	1959	1959	1887	1945	58	0	148	2093	2093	1698	1686	-12	0	25	1710	1710
7:00	49.98	1817	1856	39	0	97	1955	1955	1950	2018	68	0	134	2153	2153	1788	1776	-12	0	30	1808	1808
8:00	50.04	1791	1795	4	0	107	1900	1900	1970	2009	38	0	127	2133	2133	1805	1803	-2	0	27	1828	1828
9:00	49.94	1766	1777	11	0	86	1867	1867	1940	1964	24	0	149	2116	2116	1799	1805	6	0	37	1846	1846
10:00	49.98	1731	1755	24	0	99	1855	1855	1891	1896	5	0	211	2108	2108	1739	1731	-8	0	47	1779	1779
11:00	49.99	1715	1725	10	0	118	1843	1843	1837	1840	4	0	204	2045	2045	1670	1670	0	0	63	1734	1734
12:00	49.99	1698	1726	28	0	101	1828	1828	1770	1786	16	0	202	1988	1988	1631	1571	-60	0	70	1642	1642
13:00	50.08	1700	1722	21	0	70	1788	1788	1763	1791	28	0	140	1926	1926	1670	1615	-55	0	55	1666	1666
14:00	50.01	1652	1693	41	0	65	1758	1758	1745	1804	59	0	106	1910	1910	1646	1598	-47	0	48	1646	1646
15:00	49.96	1617	1671	54	0	89	1763	1763	1744	1804	60	0	110	1917	1917	1632	1585	-47	0	49	1636	1636
16:00	50.01	1590	1671	82	0	80	1751	1751	1760	1833	74	0	117	1950	1950	1655	1591	-64	0	49	1639	1639
17:00	49.99	1592	1692	100	0	73	1766	1766	1788	1864	76	0	109	1973	1973	1690	1634	-56	0	55	1690	1690
18:00	50.07	1722	1770	48	0	45	1812	1812	1920	1925	5	0	105	2027	2027	1812	1687	-125	0	34	1717	1717
19:00	49.99	1921	2062	141	0	50	2113	2113	2062	2122	60	0	87	2211	2211	1965	1852	-113	0	7	1860	1860
20:00	49.91	2109	2186	76	0	105	2297	2297	2173	2237	63	0	108	2351	2351	1995	1902	-94	0	8	1915	1915
21:00	49.96	2147	2203	56	0	71	2277	2277	2215	2247	33	0	84	2335	2335	1912	1833	-79	0	8	1844	1844
22:00	49.97	2165	2191	26	0	46	2238	2238	2198	2210	12	0	72	2285	2285	1883	1789	-94	0	4	1794	1794
23:00	50.00	2068	2118	50	0	85	2203	2203	2115	2134	19	0	100	2234	2234	1787	1722	-65	0	12	1735	1735
24:00	50.02	1964	2005	41	0	127	2131	2131	2012	2059	46	0	118	2175	2175	1672	1624	-49	0	16	1639	1639
Avg.	49.99	1823	1873	50	0	91	1965	1965	1921	1961	40	0	134	2096	2096	1725	1676	-49	0	32	1709	1709
00 TO 06 HRS.	49.98	1833	1890	57	0	111	2002	2002	1876	1920	44	0	157	2079	2079	1608	1575	-34	0	25	1601	1601
06 TO 12 HRS.	49.99	1753	1772	19	0	101	1875	1875	1893	1919	26	0	171	2090	2090	1739	1726	-12	0	46	1773	1773
12 TO 18 HRS.	50.02	1646	1703	58	0	71	1773	1773	1787	1837	50	0	115	1951	1951	1684	1618	-66	0	48	1666	1666
06TO 18 HRS.	50.00	1699	1738	39	0	86	1824	1824	1840	1878	38	0	143	2020	2020	1711	1672	-39	0	47	1719	1719
18 TO 24 HRS.	49.97	2062	2127	65	0	81	2210	2210	2129	2168	39	0	95	2265	2265	1869	1787	-82	0	9	1798	1798

<u>Discomwise Hourly Average Schedule Drawal</u>, <u>Actual Drawal &Over(+)/Under(-) Drawal</u> <u>Month :- सितम्बर 2014</u>

FIGURES IN MW

					EZON	E						CZON	E						WZON	IE		
Hrs.	FREQ.	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricte d Demand	Unrestrict ed Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricte d Demand	Unrestrict ed Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricte d Demand	Unrestrict ed Demand
1:00	49.99	2170	2144	-26	0	0	2145	2145	2200	2203	3	0	0	2203	2203	1855	1748	-107	0	0	1748	1748
2:00	50.02	2125	2106	-19	0	0	2105	2105	2154	2182	28	0	0	2181	2181	1810	1732	-78	0	0	1731	1731
3:00	50.04	2123	2090	-33	0	0	2088	2088	2154	2155	1	0	0	2153	2153	1831	1733	-98	0	0	1731	1731
4:00	50.03	2098	2068	-29	0	0	2066	2066	2124	2134	10	0	0	2132	2132	1824	1735	-88	0	0	1734	1734
5:00	49.95	2095	2050	-45	0	0	2053	2053	2114	2132	18	0	0	2135	2135	1837	1737	-101	0	0	1739	1739
6:00	50.03	2051	2028	-23	0	0	2026	2026	2114	2180	65	0	0	2178	2178	1934	1893	-41	0	0	1891	1891
7:00	50.01	2013	2007	-7	0	0	2006	2006	2141	2195	54	0	0	2195	2195	2046	2016	-31	0	0	2015	2015
8:00	50.03	1996	1963	-33	0	0	1961	1961	2143	2156	13	0	0	2154	2154	2071	2054	-18	0	0	2053	2053
9:00	50.02	1939	1897	-42	0	0	1896	1896	2117	2116	-1	0	0	2115	2115	2055	2042	-13	0	0	2042	2042
10:00	50.01	1902	1869	-33	0	0	1869	1869	2059	2062	3	0	0	2062	2062	1986	1976	-10	0	0	1977	1977
11:00	49.98	1900	1849	-52	0	0	1850	1850	2011	1981	-29	0	0	1983	1983	1899	1814	-84	0	0	1816	1816
12:00	50.03	1899	1826	-73	0	0	1824	1824	1967	1900	-67	0	0	1898	1898	1834	1799	-35	0	0	1798	1798
13:00	50.09	1873	1806	-67	0	0	1802	1802	1926	1898	-27	0	0	1894	1894	1867	1855	-13	0	0	1851	1851
14:00	49.98	1829	1796	-33	0	0	1797	1797	1894	1911	17	0	0	1912	1912	1857	1871	14	0	0	1872	1872
15:00	49.97	1776	1786	10	0	0	1788	1788	1866	1948	82	0	0	1950	1950	1845	1877	32	0	0	1879	1879
16:00	49.99	1770	1789	18	0	0	1789	1789	1899	1975	76	0	0	1976	1976	1884	1913	28	0	0	1914	1914
17:00	50.02	1787	1792	5	0	0	1791	1791	1958	2004	46	0	0	2003	2003	1902	1879	-24	0	0	1878	1878
18:00	50.03	1826	1889	63	0	0	1887	1887	2039	2052	13	0	0	2050	2050	1960	1886	-73	0	0	1885	1885
19:00	49.90	2150	2289	139	0	6	2302	2302	2162	2292	129	0	19	2317	2317	2109	2077	-32	0	3	2085	2085
20:00	50.03	2269	2334	64	0	9	2340	2340	2242	2304	62	0	24	2326	2326	2056	2027	-29	0	5	2030	2030
21:00	50.00	2288	2304	16	0	6	2309	2309	2236	2267	31	0	16	2283	2283	1978	1957	-21	0	4	1961	1961
22:00	50.00	2280	2260	-20	0	4	2264	2264	2240	2296	55	0	10	2305	2305	2037	1991	-45	0	17	2009	2009
23:00	50.01	2221	2249	27	0	12	2260	2260	2208	2305	96	0	22	2326	2326	1975	1953	-22	0	22	1975	1975
24:00	50.04	2166	2200	34	0	1	2198	2198	2175	2258	83	0	8	2263	2263	1934	1867	-67	0	14	1880	1880
Avg.	50.01	2023	2016	-7	0	2	2017	2017	2089	2121	32	0	4	2125	2125	1933	1893	-40	0	3	1896	1896
00 TO 06 HRS.	50.01	2110	2081	-29	0	0	2081	2081	2143	2164	21	0	0	2164	2164	1849	1763	-86	0	0	1763	1763
06 TO 12 HRS.	50.01	1942	1902	-40	0	0	1901	1901	2073	2068	-4	0	0	2068	2068	1982	1950	-32	0	0	1950	1950
12 TO 18 HRS.	50.01	1810	1810	0	0	0	1809	1809	1930	1965	34	0	0	1964	1964	1886	1880	-6	0	0	1880	1880
06TO 18 HRS.	50.01	1876	1856	-20	0	0	1855	1855	2002	2017	15	0	0	2016	2016	1934	1915	-19	0	0	1915	1915
18 TO 24 HRS.	50.00	2229	2272	43	0	6	2279	2279	2211	2287	76	0	17	2303	2303	2015	1979	-36	0	11	1990	1990

System Disturbance / System Incidence :

August-2014 & September-2014

- 1. System Disturbance on 19.08.14 at 220KV S/s Bina : On dated 19.08.2014 at around 21:45Hrs. M.P System was normal and frequency of National Grid was 49.79Hz. At 21:51:52Hrs. 'Y'-Phase CT of 220KV Bina-Bina Interconnector-I burst at 220KV S/s Bina resulting in tripping of 220KV Bina-Bina Interconnector-I from both end. Consequently 220KV Bina-Vidisha Ckt which is adjacent to 220KV Bina-Bina Interconnector-I tripped due to heavy flash-over caused by bursting of CT and 220/132KV, 160MVA X'mer TELK make & 220/132KV, 3X40MVA X'mer BHEL make at 220KV S/s Bina also tripped. Simultaneously, 220KV 'Y'-Phase CT of 220KV Bina-Bina Interconnector-I also saturated at 400KV S/s Bina resulting in unbalance of current in 220KV Main Bus-I at 400KV S/s Bina, resulting in tripping of all feeders & transformers connected to 220KV Main Bus-I at 400KV S/s Bina. Due to above tripping there was no interruption in any area. and there was no consumer load loss. There was no generation loss and System was normalized in due course of time.
- 2. System Disturbance on 28.08.14 at 220KV S/s Malanpur : On dated 28.08.14 at around 01:30Hrs MP System was normal and frequency of National Grid was 49.89HZ. Prior to fault at 220KV S/s Malanpur, 220KV Malanpur-Auraiya Ckt was on Bus Tie Breaker as its main CB was out due to SF6 gas leakage & LBB protection has not been provided in Bus Tie Breaker and 220KV Bus Bar Protection (GE make) is out of service since 30.05.2014 due to problem in 'B'-Phase, B-90(87BB) relay. At 01:35 Hrs. 220KV Malanpur-Auriya Ckt tripped from both end due to 'R'-Phase disc flash over at location no. 300. In absence of LBB & Bus Bar Protection, Zone-I fault persisted for about 328.8 msec. resulting 220KV Malanpur-Gwalior (PGCIL) Ckt-I&II tripped from 765 KV Gwalior (PGCIL) end on E/F indication and 220KV Mehgaon-Auriya Ckt also tripped from 220KV Auriya TPS end on E/F indication. Consequently interruption occurred at 220KV S/s Malanpur, 220KV S/s Mehgaon, 132KV S/s Seondha, 132KV S/s Lahar, 132KV S/s Ron, 132KV S/s Bhind, 132KV S/s Porsa, 132KV S/s Ambha, 132KV S/s Banmore, 132KV S/s Morena, 132KV S/s Morar, 132KV Railway Traction Hetampur at 132KV S/s Banmore-I&II. Due to the above tripping there was a consumer load loss of about 437.5 MWH. There was no generation loss and System was normalized in due course of time.
- 3. System Disturbance on 28.08.14 at 220KV S/s Bina : On dated 28.08.2014 at around 17:35 Hrs. M.P System was normal and frequency of National Grid was 50.01Hz. At 17:38:01 Hrs. 220/132KV, 160MVA TELK X'mer tripped from 132KV side on Master Trip due to mal-operation while extending the process connections to Transco SCADA. Consequently, after 6 sec. (i.e., at 17:38:07Hrs.) 220/132KV, 3X40MVA X'mer tripped due to over loading. Subsequently 132 KV Bina-Sagar Ckt, 132KV Pichhore-Shivpuri Ckt & 132KV Karera-Mahalgaon Ckt also tripped due to overloading and remaining 132KV feeders at 220KV S/s Bina was hand tripped due to non-availability of 132KV supply. Consequently interruption occurred at 220KV S/s Bina, 132KV S/s Ganj Basoda, 132KV Rajghat, 132KV S/s Chanderi, 132KV S/s Pichhore, 132KV S/s Bina, 132KV S/s Datiya, 132KV S/s Khurai, 132KV Railway Traction at 220KV S/s Bina, 132KV S/s Datiya, 132KV Basai Railway Traction-I&II at 132KV S/s Pichhore. Due to the above tripping there was a consumer load loss of about 43.03 MWH. There was no generation loss and System was normalized in due course of time.

- 4. System Disturbance on 31.08.14 at 220KV S/s Pithampur : On dated 31.08.2014 at around 07:05 Hrs. M.P System was normal and frequency of National Grid was 50.15Hz. At 07:07Hrs. 220/132KV, 160MVA X-mer-I (NGEF) tripped at 220KV S/s Pithampur on main Buchholz trip indication due to main Buchholz cable fault. Consequently load of 220/132KV 160MVA X-mer-I (NGEF) shifted on 220/132KV, 160MVA X-mer -II (CGL), resulting load drop scheme of 220/132KV 160MVA X-mer -II (CGL) initiated but not operated due to open circuiting of coil of CMR, further resulted in tripping of 220/132KV, 160MVA X-mer-II (CGL) due to over loading. Due to the tripping of both 220/132KV X'mer at 220KV S/s Pithampur 132KV supply failed at 220KV S/s Pithampur, 132KV S/s Pithampur, 132KV Mid India, 132KV Bridge stone, 132KV Parasrampuriya, 132KV Hinduatan Motor, 132KV Jamli, 132KV Betma, 132KV Bagdi and 132KV Bhanu steel. Due to the above tripping there was a consumer load loss of about 137.50 MWH. There was no generation loss and System was normalized in due course of time.
- System Disturbance on 10.09.14 at 400KV S/s Indore : On dated 10.09.2014 at around 5. 00:15Hrs. M.P System was normal and frequency of National Grid was 49.68 Hz. At around 00:20 Hrs. Earth Wire of 220 KV Indore - South Zone Ckt - I snapped and resulted in 'B'-Phase to E/F and the feeder tripped from 220 KV S/s South Zone end which should have tripped from both end but 'Y'- Phase Pole of Circuit Breaker at 400 KV S/s Indore end did not open/was stuck as its breaker coil was burnt. Hence fault persisted and fed through 400 KV S/s Indore end. Consequently due to delay in fault clearance by its Main Breaker, LBB protection of 220 KV Indore - South Zone Ckt - I operated which initiated the operation of Bus Bar Protection of 220 KV Main Bus - I at 400 KV S/s Indore, resulting in trippings of 400/220 KV, 315 MVA ICT – I & II at 400 KV S/s Indore, 220 KV Indore – Dewas Ckt, 220 KV Indore – Barwaha Ckt – I, 220 KV Indore – Jetpura Ckt – I, 220 KV Bus-Coupler at 400 KV S/s Indore and 132 KV Rau Khedi – MSP Ckt. Consequently interruption occurred at 220 KV S/s South Zone. 132 KV S/s Rau Khedi, 132 KV Satya Sai, 132 KV S/s Chambal, 132 KV S/s West Zone, 132 KV S/s CAT, 132 KV S/s Rau, 132 KV S/s STI (Industrial feerder tapped from 132 KV Rau - Pithampur Ckt), 132 KV S/s Simrol, 132 KV S/s Ghata Billod, 132 KV S/s Electronic Complex and 132 KV S/s Manglia. Due to the above tripping there was a consumer load loss of about 53.95 MWH. There was no generation loss and System was normalized in due course of time

	LIST OF TELEMETRY DISCRI	PIENCY AND NOT CON	NECTED PARA	AMETER
Sr.no	DESCRIPTION	Status	telemetry value at SLDC	actual value at site
	BIRSING	IPUR 220 KV S/S		
1	220/132 KV TR	OLTC	N/C	6
2	132/33 KV TR	OLTC	N/C	5
605		II 220 KV S/S		
SOF	DATA NOT RECEIVED CONNECTIONS FOR ALL FED	EERS HAVE TO BE VERIFIE	D	
SOE	SUKH DATA NOT RECEIVED CONNECTIONS FOR ALL FED	A 220 KV S/S EERS HAVE TO BE VERIFIE	D	
	SAGA	R 220 KV S/S		
1	220/132 KV TR3	cb	FAULTY	CLOSE
2	220/132 KV TR(160 MVA)132 KV SIDE	СВ	FAULTY	CLOSE
	SIDH	1 220 KV S/S	-	
1	220/132 KV TB(160 MVA)		N/C	7
2	220/132 KV IN(100 MVX)	CB	FAULTY	, CLOSE
3	132/33 KV/TR		N/C	4
SOF	DATA NOT RECEIVED CONNECTIONS FOR ALL FED	FFRS HAVE TO BE VERIFIE		· · ·
501	SHIVE	JRI 220 KV S/S		
1	220/132 KV TR(160 MVA)		N/C	7
2	220/132 KV H(100 MV/)	CB	FALILTY	OPEN ,
2	132/33 KV/TR		N/C	
SOF		EERS HAVE TO BE VERIEIE		
30L			U	
1		ADAD ZZU KV S/S	N/C	4
1	132/33 KV IR 2,3		N/C	4
1		H (B) 220 KV 5/5	N/C	
1			N/C	PROCESSES
2	132 KV MAQSUDANGRAH		N/C	CONNECTION
3	132 KV NTPC 2	NW	25	15
4	220 KV BUS MAIN BUS 2		0	225
SOE	DATA NOT RECEIVED CONNECTIONS FOR ALL FED	EERS HAVE TO BE VERIFIE	D	
	ASHI	A 220 KV S/S		
1	132/33 KV TR 1 & 2	OLTC	N/C	6
2	132 KVBUSCOUPLER	CB	FAULIY	CLOSE
3	220 KV BUS MAIN BUS 2	VOLTAGE	0	225
4	220 KV BUS MAIN BUS 2		0	50
SOF	DATA NOT RECEIVED CONNECTIONS FOR ALL FED	EERS HAVE TO BE VERIFIE	D	
1	132/33 KV TR 40 MVA	KAH 220 KV 5/5	N/C	4
	BADNA	GΔR 220 KV S/S	, c	
1	132 /33 KV TR		N/C	Δ
		IN 220 KV S/S	N/C	
1	220/132 KV TR(160 MVA) 2	MW MVAR OLTC	N/C	PROCESSES
2	220/132 KV TR(160 MVA) 2 PRI	CB		CONNECTION
2	220/132 KV TR(160 MVA) 2 SEC	СВ		
		CP		
4		CB		
SOF		EEDS HAVE TO BE VERIEIE		CLOJL
301		HA 220 KV C/C		
1			N/C	DDOCESSES
2			N/C	CONNECTION
2		CB		CLOSE
3 505				CLUJL
JUE	DATA NOT RECEIVED CONNECTIONS FOR ALL FED		.0	
1		01TC	N/C	A
	122/33 NV IN 1, 2			4
2				CLU3E
3	220/132 TV IN 132/32 TP 1			
4	132/33 17 1	CD	FAULIT	CLUSE

SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FE	DEERS HAVE TO BE VERIF	IED	
DALO	ODA 220 KV S/S		
1 220 KV RATLAM	СВ	N/A	PROCESSES
2 220 KV MAMATKHEDA(RENEWABLE SOLOR)	СВ	N/A	CONNECTION
3 132/33 KV TR	СВ	N/A	REQUIRED
КОТ	MA 132 KV S/S		<u> </u>
1 132/33 KV TR 1, 2, 3	OLTC	N/C	4
2 132 KV MANEDRAGRAH	СВ	FAULTY	
MAI	HΔR 220 KV S/S		1
1 220/132 KV TR		N/C	3
2 132/33 KV TR 1 2		N/C	5
		N/C	
		NI/C	1 2
1 220/132 KV TR 1,2		N/C	3
2 132/33 KV TR 1, 2	ULIC	N/C	5
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FE	DEERS HAVE TO BE VERIF	IED	
SARAN	IGPUR 132 KV S/S	1	1
1 132/33 KV TR 1, ,3	OLTC	N/C	4
SHEOPU	RKALAN 132 KV S/S		
1 132/33 KV TR 1, 2 ,3	OLTC	N/C	4
2 40 MVA TR 2	MW /MVAR	C	10 / 3
BARW	/AHA 220 KV S/S		
1 220/132 KV TR 1, 2	OLTC	N/C	7
2 63 MVA TR	OLTC	N/C	6
		, -	PROCESSES
			CONNECTION
3 132 ΚΥ CHOTIKHARGAON	MW /MVAR /CB	N/A	REQUIRED
NEDAN		,,,	ne quine b
1 220/122 KV/ TP/160 M/VA)		N/C	6
		N/C	
		N/C	5
5 12.5 IVIVA IR		N/C	
	CB, MW//WWAR/OLIC	N/A	
	CB,IVIVV/IVIVAR		
	CB	FAULTY	CLOSE
7 220/132 KV IR 2	CB	FAULTY	
8 132 KV CHEGAON	СВ	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FE	DEERS HAVE TO BE VERIF	IED	
PITAN	APUR 220 KV S/S		1
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 FE	DEERS HAVE TO BE VERIF	IED	
INDORE NO	RTH 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
3 132 KVUJJAIN	CB,MW/MVAR	N/A	CONNECTION
4 132 KV TRACTION	CB,MW/MVAR	N/A	REQUIRED
RAJGRAH	I (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
ΝΛ	5DA 400 KV S/S	-, -	
		10	
2 400/220 KV/TP 1 9.2 /215MV/A		19	47
2 400/220 KV IN I & 3 (SISIVA)			
2 400/200/33 NV IENIANT REACION 2 & 3		IN/A	
	JUA ZZU KV S/S	E A LUI TH	
1 132 KB BUS COUPLER	СВ	FAULTY	CLOSE
2 220 KV BUS COUPLER	СВ	FAULTY	CLOSE

3 132/33 KV TR 4	СВ	FAULTY	CLOSE
DEV	NAS 220 KV S/S		
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	СВ	FAULTY	CLOSE
5 220 KV INDORE EAST(BICHOLI)	СВ	FAULTY	CLOSE
SA	TNA220 KV S/S	1	
1 220/132 TR 2		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	СВ	TRANIST	CLOSE
5 220/132 TR 1	СВ	FAULTY	CLOSE
NARSIN	IGHPUR 220 KV S/S	ł	
1 220/132 TR 2	СВ	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	СВ	FAULTY	CLOSE
6 220 KV PIPARIA	СВ	FAULTY	CLOSE
7 220 KV ITARSI	СВ	FAULTY	CLOSE
8 220 KV JBP 1 ,2	СВ	FAULTY	CLOSE
9 132 KV I /C 2	СВ	FAULTY	CLOSE
10 133/32 KV TR 2	CB,MW/MVAR/OLTC	N/A	PROCESSES
11 132 KV BARMAN 2	CB,MW/MVAR	N/A	CONNECTION
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FI	EDEERS HAVE TO BE VERIF	IED	
KA	TNI 220 KV S/S		
1 220 KV BUS COUPLER	СВ	FAULTY	CLOSE
2 220 KV BUS TIE	СВ	FAULTY	CLOSE
3 132 KV TR 1	СВ	FAULTY	CLOSE
4 132 KV I/C 1 ,2	СВ	FAULTY	CLOSE
5 132 KV KYMORE 1 & 2	СВ	FAULTY	CLOSE
6 220/132 KV TR 2	CB,MW/MVAR/OLTC	N/A	PROCESSES
7 132/33 KV TR 1 &2	CB,MW/MVAR/OLTC	N/A	CONNECTION
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL F	EDEERS HAVE TO BE VERIF	IED	
GU	INA 220 KV S/S		
1 132 KV RAGHOGRAH	СВ	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FI	EDEERS HAVE TO BE VERIF	IED	
GWA	ALIOR 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	СВ	TRANIST	CLOSE
BHC	OPAL 220 KV S/S	1 **	
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	СВ	FAULTY	CLOSE
5 220 KV MANDIDEEP	СВ	FAULTY	CLOSE
6 220/132 KV TR 2	СВ	FAULTY	CLOSE
7 220 KV MAIN BUS 1	VOLTAGE	N/C	233
8 220 KV MAIN BUS 1	OLTC	N/C	7
вно	OPAL 400 KV S/S	4 *	
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)	СВ	FAULTY	CLOSE
4 400/220 KV TR 1 , 2	СВ	FAULTY	CLOSE
SA	RNI 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
8	220/132 KV TR 2	CB.MW/MVAR/OLTC	N/A	REQUIRED
SOF	DATA NOT RECEIVED CONNECTIONS FOR ALL FED	FERS HAVE TO BE VERIFIE	, Ъ	
001	BAIPAG			
1			N/C	220
- 1				230
2		CB	FAULTY	CLOSE
3		СВ	FAULTY	CLOSE
4	220 KV BUS TIE	СВ	FAULTY	CLOSE
5	220/132 KV TR 1	СВ	FAULTY	CLOSE
6	220/132 KV TR 2	CB,MW/MVAR	FAULTY	PROCESSES
7	132/33 KV TR 4	CB,MW/MVAR/OLTC	N/A	CONNECTION
8	132 KV BHOPAL	CB,MW/MVAR	N/A	REQUIRED
SOE	DATA NOT RECEIVED CONNECTIONS FOR ALL FED	EERS HAVE TO BE VERIFIE	D	
	ASTH	A 132 KV S/S		
1	132 KV KANNOD	СВ	FAULTY	CLOSE
2	132 KV I/C 2	СВ	FAULTY	CLOSE
- 3	132 KV 1/C 2	MW /MVAR	0	20/5
1		VOLTAGE	N/C	133
4			N/C	155
		4400 KV 5/5		0.005
1	220 KV GUNA 2	СВ	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
	CHHATA	RPUR 220 KV S/S		
1	132/33 KV TR 2 , 3	OLTC	N/C	5
1	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER	OLTC CB	N/C FAULTY	5 OPEN
1	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO	OLTC CB RE 400 KV S/S	N/C FAULTY	5 OPEN
1 2 1	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 2 3	СРОК 220 KV S/S ОLTC СВ RE 400 KV S/S	N/C FAULTY	OPEN 6
1 2 1 2	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2	OLTC CB RE 400 KV S/S OLTC MVAR	N/C FAULTY N/C	5 OPEN 6
1 2 1 2 2	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NACDA LINE REACTOR	OLTC CB RE 400 KV S/S OLTC MVAR MVAR	N/C FAULTY N/C N/A	5 OPEN 6
1 2 1 2 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV NAGDA LINE REACTOR	OLTC CB RE 400 KV S/S OLTC MVAR MVAR	N/C FAULTY N/C N/A N/A	5 OPEN 6
1 2 1 2 3 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR MVAR	N/C FAULTY N/C N/A N/A N/A	5 OPEN 6
1 2 1 2 3 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR ON 400 KV S/S	N/C FAULTY N/C N/A N/A N/A	5 OPEN 6
1 2 1 2 3 3 3 1	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR ON 400 KV S/S CB	N/C FAULTY N/C N/A N/A FAULTY	5 OPEN 6
1 2 1 2 3 3 3 1 2	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR ON 400 KV S/S CB OLTC	N/C FAULTY N/C N/A N/A FAULTY N/C	5 OPEN 6
1 2 1 2 3 3 3 1 2 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR ON 400 KV S/S CB OLTC ON 400 KV S/S CB OLTC	N/C FAULTY N/A N/A N/A FAULTY N/C N/C	5 OPEN 6
1 2 1 2 3 3 3 1 2 3 4	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR ON 400 KV S/S CB OLTC OLTC	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY	5 OPEN 6
1 2 3 3 3 1 1 2 3 4 5	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV KHARGAON 2	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR ON 400 KV S/S CB OLTC OLTC CB OLTC CB OLTC OLTC CB	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY	5 OPEN 6
1 2 1 2 3 3 3 3 1 2 3 4 5	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV KHARGAON 2 DAMC	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR ON 400 KV S/S CB OLTC ON 400 KV S/S CB OLTC OLTC OLTC CB CB OLTC CB	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY	5 OPEN 6
1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR ON 400 KV S/S CB OLTC ON 400 KV S/S CB OLTC OLTC OLTC CB CB OLTC CB	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY FAULTY 34 /15	5 OPEN 6
1 2 3 3 3 3 3 3 3 3 3 4 4 5 5 1 1 2 2	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDO 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR ON 400 KV S/S CB OLTC OLTC ON 400 KV S/S CB OLTC CB CB CB OLTC CB	N/C FAULTY N/C N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY 34 /15 0	5 OPEN 6
1 2 3 3 3 3 3 3 3 3 4 5 5 7 1 1 2 2	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OLTC OLTC OLTC OLTC OLTC OLTC OLTC CB CB OLTC CB CB <	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY 34 /15 0	5 OPEN 6
11 22 33 33 11 22 33 44 55 11 22	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BARGL 1	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC CB CB OLTC OLTC OLTC VIR 220 KV S/S MW /MVAR MW /MVAR VIR 220 KV S/S MW/ (MVAR	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY 34 /15 0	5 OPEN 6 6 67 /05 35/2
11 22 33 33 11 22 33 34 4 55 11 22 2 11	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BARGI 1	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC CB CH 220 KV S/S MW /MVAR PUR 220 KV S/S MW /MVAR PUR 220 KV S/S <	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY 34 /15 0	5 OPEN 6 6 67 /05 35/2 15 /2
11 22 33 33 33 4 4 55 22 2 2 2 11	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV NAGDA LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BARGI 1 TIKAMG	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OLTC OD KV S/S CB OLTC ON 400 KV S/S CB OLTC OLTC CB CB OH 220 KV S/S MW /MVAR MW /MVAR VIR 220 KV S/S MW /MVAR CR CR CR CB CH 220 KV S/S MW /MVAR RAH 220 KV S/S	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY 34 /15 0	5 OPEN 6 6 6 7 /05 35/2 15 /2
11 22 33 33 33 44 55 11 22 2 2 11 11	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BARGI 1 TIKAMG	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OLTC OD 400 KV S/S CB OLTC OLTC OLTC OLTC OLTC OLTC CB OH 220 KV S/S MW /MVAR MW /MVAR VIR 220 KV S/S MW /MVAR CB CB // CB	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY FAULTY 34 /15 0 FAULTY C 0	5 OPEN 6 6 6 7 05 35/2 15/2 15/2 CLOSE
11 22 33 33 4 4 55 11 22 2 2 1 1 1 2 2 1 1 2 2	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BARGI 1 TIKAMG ² 220 KV BUS COUPLER 220 KV BUS TIE	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OD TC OD 400 KV S/S CB OLTC CB CB CB OLTC CB CB OLTC CB	N/C FAULTY N/A N/A N/A FAULTY N/C FAULTY FAULTY 34 /15 0 FAULTY FAULTY FAULTY FAULTY	5 OPEN 6 6 7 7 05 35/2 15 /2 15 /2 CLOSE CLOSE
11 22 33 33 33 4 4 55 5 7 11 22 2 7 11 22 3 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BARGI 1 TIKAMG ¹ 220 KV BUS COUPLER 220 KV BUS COUPLER 220 /132 KV TR 2	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OD 400 KV S/S CB OLTC OLTC OLTC OLTC OLTC OLTC CB CB CB CB OH 220 KV S/S MW /MVAR PUR 220 KV S/S MW /MVAR CB CB CB CB CB CB MW /MVAR RAH 220 KV S/S CB	N/C FAULTY N/A N/A N/A N/A FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY	5 OPEN 6 6 7 7 05 35/2 15 /2 15 /2 CLOSE CLOSE PROCESSES
11 22 33 33 33 4 4 55 5 7 11 22 2 7 11 22 3 3 4	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BUS COUPLER 220 KV BUS COUPLER 220 KV BUS TIE 220 /132 KV TR 2	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OD 400 KV S/S CB OLTC OLTC OLTC OLTC OLTC OLTC OLTC CB CB CB OH 220 KV S/S MW /MVAR PUR 220 KV S/S MW /MVAR CB	N/C FAULTY N/A N/A N/A N/A FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/A N/A	5 OPEN 6 6 7 7 05 35/2 15 /2 15 /2 CLOSE CLOSE PROCESSES CONNECTION
1 2 3 3 3 3 3 3 4 4 5 5 7 1 2 2 3 1 1 2 2 3 3 4 4 4	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BUS COUPLER 220 KV BUS COUPLER 220 KV BUS TIE 220 /132 KV TR 2 132/33 KV TR 2 SIDH	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OD 400 KV S/S CB OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC CB CB CB CB OH 220 KV S/S MW /MVAR VUR 220 KV S/S MW /MVAR CB CB </td <td>N/C FAULTY N/A N/A N/A N/A FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/A N/A</td> <td>5 OPEN 6 6 7 7 8 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7</td>	N/C FAULTY N/A N/A N/A N/A FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/A N/A	5 OPEN 6 6 7 7 8 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7
1 2 3 3 3 3 3 3 3 3 3 4 4 5 5 7 1 2 2 3 1 1 2 2 3 1 1 2 2 3 3 4 4 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BUS COUPLER 220 KV BUS COUPLER 220 KV BUS TIE 220 /132 KV TR 2 132/33 KV TR 2 SIDH 220 KV AMARKANTAK	RPUK 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OD 400 KV S/S CB OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC CB CB CB CB OH 220 KV S/S MW /MVAR VUR 220 KV S/S MW /MVAR CB MW /MVAR /CB/OLTC MW /MVARS CB CB CB	N/C FAULTY N/A N/A N/A N/A FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/A N/A	5 OPEN 6 6 7 7 6 7 7 0 5 3 5 7 2 6 7 7 0 5 3 5 7 2 6 7 7 0 5 3 5 7 2 6 7 7 0 5 3 5 7 2 6 7 7 0 5 3 5 7 2 6 7 7 0 5 3 5 7 2 7 7 7 9 7 7 9 7 9 7 7 9 7 9 7 9 7 9
1 2 3 3 3 3 3 3 3 3 4 4 5 5 7 1 2 2 3 1 1 2 2 3 1 1 2 2 3 3 4 4 1 2 2 3 3 3 4 4 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BUS COUPLER 220 KV BUS COUPLER 220 KV BUS TIE 220 /132 KV TR 2 132/33 KV TR 2 SIDH 220 KV AMARKANTAK 220/132 KV TR	RPUR 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OD 400 KV S/S CB OLTC CB CB DH 220 KV S/S MW /MVAR VUR 220 KV S/S MW /MVAR CB	N/C FAULTY N/A N/A N/A N/A FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/A N/A FAULTY N/A N/A	5 OPEN 6 6 7 7 05 35/2 67 /05 35/2 15 /2 15 /2 CLOSE CLOSE PROCESSES CONNECTION CLOSE 4
1 2 3 3 3 3 3 3 3 3 3 4 4 5 5 7 1 2 2 3 1 1 2 2 3 3 4 4 1 2 2 3 3 3 4 4 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CHHATA 132/33 KV TR 2 , 3 132 KV BUS COUPLER INDOI 400/220 TR 1 ,2 ,3 400/200/33 KV TERTIARY REACTOR 1 & 2 400 KV NAGDA LINE REACTOR 400 KV I S P LINE REACTOR CHEGA 220 KV MOONDI 400/220 TR 220/132 KV TR 1 & 2 132 KV SANAWAD 132 KV SANAWAD 132 KV SANAWAD 132 KV KHARGAON 2 DAMC 220 KV PGCIL 1 132/33 KV TR 3 JABALF 132 KV BUS COUPLER 220 KV BUS TIE 220 /132 KV TR 2 132/33 KV TR 2 SIDH 220 KV AMARKANTAK 220/132 KV TR	RPUK 220 KV S/S OLTC CB RE 400 KV S/S OLTC MVAR MVAR MVAR OD 400 KV S/S CB OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC OLTC CB OH 220 KV S/S MW /MVAR VUR 220 KV S/S MW /MVAR CB MW /MVAR /CB/OLTC MW /MVAR /CB/OLTC I 220 KV S/S CB OLTC OLTC OLTC	N/C FAULTY N/A N/A N/A N/A FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/A N/A FAULTY N/A N/A N/A	5 OPEN 6 6 7 7 05 35/2 67 /05 35/2 15 /2 15 /2 CLOSE CLOSE CLOSE CLOSE CLOSE CONNECTION 4 4

DEM	14 220 101 5/5		
			0.005
1 220 KV SATNA	CB	FAULIY	CLOSE
2 220/132 KV TR 1 & 2	OLTC	N/C	4
3 132/33 KV TR 1 & 2	OLTC	N/C	4
КОТ	AR 220 KV S/S		
1 220 KV TONS PH	CB	FAULTY	CLOSE
AMARPA	TAN 132 KV KV S/S		
1 132/33 KV TR (40 MVA)	MW	5	15-Jan
ITAF	SI 220 KV S/S	•	
1 220 KV BUS COUPLER	СВ	FAULTY	CLOSE
2 132/33 KV TR 4	CB	FAULTY	CLOSE
3 132/33 KV TR 4		N/C	4
MEHG	AON 220 KV S/S	11/0	
		45	0
	СВ		CLOSE
3 132 KV RUN	CB	FAULTY	CLOSE
4 220 KV AURYA	СВ	FAULTY	CLUSE
			PROCESSES
			CONNECTION
5 220/132 KV IR 2	CB,MW/MVAR/OLTC	N/A	REQUIRED
6 132/33 KV TR 2	OLTC	N/A	
-	7		
MALAN	IPUR 220 KV S/S		
1 220 KV B/C	СВ	FAULTY	CLOSE
2 220 /132 KV TR 2	OLTC	N/A	
3 220 KV GWALIOR PGCIL	СВ	FAULTY	CLOSE
4 132 KV BAMORE	СВ	FAULTY	CLOSE
5 132/33 KV TR 1 &2	OLTC	N/A	5
	ITH 70NF 220 KV S/S		0
1 220 KV/ INDORE (400KV/)	CR	ΕΔΙΠΤΥ	CLOSE
2 200/122 VV TP 1 2 8 4			
2 220/152 KV TK 1,2 & 4			
3 132/33 KV IR 1 & 2		N/A	
NEEM	ACH 220 KV S/S	1.	Γ
1 220 KV MAIN BUS	FREQUENCY	N/C	50
NEPAN	AGAR 220 KV S/S		-
1 220 KV B/C	СВ	FAULTY	CLOSE
2 220/132 KV TR (160MVA)	OLTC	N/C	7
		, e	
RATL	AM 220 KV S/S		ŀ
RATL 1 `220 KV BUS COUPLER	AM 220 KV S/S CB	FAULTY	CLOSE
COMPLEX RATL 1 `220 KV BUS COUPLER 2 2 132/33 KV TR 3 3	AM 220 KV S/S CB CB	FAULTY FAULTY	CLOSE CLOSE
COUPLER 2 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3	AM 220 KV S/S CB CB	FAULTY FAULTY	CLOSE CLOSE PROCESSES
COUPLER 1 `220 KV BUS COUPLER 2 132/33 KV TR 3	AM 220 KV S/S CB CB	FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION
RATL 1 `220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA	AM 220 KV S/S CB CB CB	FAULTY FAULTY N/A	CLOSE CLOSE PROCESSES CONNECTION REQUIRED
RATL 1 `220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER	AM 220 KV S/S CB CB CB CB CB	FAULTY FAULTY N/A FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE
RATL 1 `220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR	AM 220 KV S/S CB CB CB CB CB CB CB CB	FAULTY FAULTY N/A FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE
RATL 1 `220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY N/A FAULTY FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE
RATL 1 `220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY N/A FAULTY FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE
RATL 1 `220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD SHUJA 1 132 KV I/C 2	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY N/A FAULTY FAULTY FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV HACHROD SHUJAI 1 132 KV I/C 2 2 132 KV CAPACITOR BANK	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY N/A FAULTY FAULTY FAULTY FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV HACHROD SHUJAI 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE CLOSE
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD SHUJA 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE CLOSE S
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD SHUJA 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2 UJJA	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE CLOSE 5
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD SHUJAI 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2 UJJA 1 220/132 KV TR (160 MVA) 2 230/132 KV TR 3*40 MVA	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE CLOSE 5
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV HACHROD SHUJAI 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2 UJJA 1 220/132 KV TR (160 MVA) 2 220/132 KV TR 3*40 MVA	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C N/C FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOS
RATL 1 `220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV HACHROD SHUJAI 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2 UJJA 1 220/132 KV TR (160 MVA) 2 220/132 KV TR 3*40 MVA 3 220 KV BADOD 4 132 KV TA DANA	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C N/C FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE CLOSE 5 6 CLOSE 5 6 CLOSE
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD SHUJAI 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2 UJJA 1 220/132 KV TR (160 MVA) 2 220/132 KV TR 3*40 MVA 3 220 KV BADOD 4 132 KV TARANA 5 132 KV TARANA	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C N/C FAULTY FAULTY FAULTY FAULTY FAULTY	CLOSE CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE 5 6 CLOSE CLOSE CLOSE
RATL 1 '220 KV BUS COUPLER 2 132/33 KV TR 3 3 220 KV DALDODA 4 132 KV BUS COUPLER 5 132 KV BADNAGAR 5 132 KV KHACHROD SHUJAI 1 132 KV I/C 2 2 132 KV CAPACITOR BANK 3 132/33 TR 1 7 2 UJJA 1 220/132 KV TR (160 MVA) 2 220/132 KV TR 3*40 MVA 3 220 KV BADOD 4 132 KV TARANA 5 132/33 KV TR 1 2	AM 220 KV S/S CB CB CB CB CB CB CB CB CB CB	FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY FAULTY N/C N/C FAULTY FAULTY FAULTY FAULTY N/C	CLOSE PROCESSES CONNECTION REQUIRED CLOSE CLOSE CLOSE CLOSE 5 CLOSE 5 CLOSE 6 CLOSE 6 CLOSE 6 CLOSE 6

1 220/132 KV TR (160 MVA) 2 PRIMARY	СВ	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
MA	NDIDEEP 220 KV S/S		
1 220/132 KV TR 1	CB	FAULTY	CLOSE
2 132 KV HOSANGABAD	CB	FAULTY	CLOSE
3 132 KV ANANT STEEL	CB	FAULTY	CLOSE
4 132 KV VARDHMAN	CB	FAULTY	CLOSE
5 132/33 KV TR 1	СВ	FAULTY	CLOSE
6 220 /132 KV TR 1 & 2	OLTC	N/C	
7 132/33 KV TR	OLTC	N/C	
	KATNI 400 KV S/S		
1 400 KV BUS COUPLER	СВ	FAULTY	
		N/C	
1 132/33 KV IR			
2 132 KV MOSERBEAR		FAULTY	CLOSE
PA	NDURNA 220 KV S/S	1	DDOCECCEC
			PRUCESSES
		N/A	REQUIRED
	NDWADA ZZU KV S/S	N/C	
1 132/33 KV IR		N/C	5
	HARDA 132 KV S/S		
1 132/33 KV IR	CB	FAULTY	CLOSI
В	SEOHARI 132KV S/S		
ALL L			
	NORWA 132 KV S/S	DENT	
	UG VALUE NUN-CUR	RENT	
W	AIDHAN 132 KV S/S		
ALL L	DATA NON CURRENT		
	SATPURA T P S		
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	(
4 GEN 7 GT	MW/MVAR	152/4	(
5 GEN 6	CB	FAULTY	OPEN
6 220 KV TRB	CB	FAULIY	
7 GEN 11	MW /MVAR	N/C	220/25
8			
		TRANCIT	
	CB		OPEN
			OPEN
		1 N/A	00 15(
5 400 KV BALCO		1	150
1 132 KV ANU IDDI ID 1 8. 2		EALILTY	CLOSE
2 132 KV HIIM	CB		
3 132 KV BUS COUPLER	CB	FAULTY	CLOSE
		TAOLIT	
1 400 KV MAIN BUS 1		N/C	
	VOLTAGE		
21400 KV MAIN BUS 1	VOLTAGE FREQUENCY	N/C	
2 400 KV MAIN BUS 1 3 400/220 KV TR 1 & 2 (315MVA)	VOLTAGE FREQUENCY OLTC	N/C N/C	
2 400 KV MAIN BUS 1 3 400/220 KV TR 1 & 2 (315MVA)	VOLTAGE FREQUENCY OLTC	N/C N/C N/C	
2 400 KV MAIN BUS 1 3 400/220 KV TR 1 & 2 (315MVA)	VOLTAGE FREQUENCY OLTC	N/C N/C	

1 STN TR

MW/ MVAR

0 2/1

GANDHI SAGAR H P S								
1	132 KV BUS 2	FREEQUENCY	N/A	50				
PENCH H P S								
1	132 KV BUS 2	FREEQUENCY	N/A	50				
MADHIKHEDA H P S								
1	132 KV KARERA 2	MW/ MVAR	20	40				
RAJGHAT H P S								
DATA NOT AVAILABLE								
TONS H P S								
1	220 KV REWA 1	СВ	FAULTY	CLOSE				
2	220 KV BUS COUPLER	СВ	FAULTY	CLOSE				
3	GEN 2 & 3	СВ	TRANSIT	OPEN				

Format IIIB

Name and address of transmission /generation company/ipp

Undertaking in respect of telemetry & communication

Capacity and name of grid element:

This list of data points that would be made available to SLDC in real time had been indicated vide communication dated it is certified that the following data points have been mapped and real time data would flow to SLDC immediately as the element is change and commissioned.

S.no.	Name of substation	Data point (analog as well as digital)identified in earlier communication dated	Point to point checking done jointly with SLDC (Y/N)	Data would be available at SLDC (Y/N)	Remark (path may be specified)
1	Sending end	Analog			
		Digital			
		SOE			
		Main channel			
		Standby channel			
		Voice			
		communication(specify)			
2	Receiving end	Analog			
		Digital			
		SOE			
		Main channel			
		Standby channel			
		Voice			
		communication(specify)			

It is also certified that the data through main channel is made available to SLDC as well as alternate communication channel is available for data transfer to SLDC ensure reliable and redundant data as per IEGC(as amended from time to time). Also voice communication is established as per IEGC. The arrangements are of permanent nature in case of any interruption in data in real time the undersigned undertakes to get the same restored at the earlist.

Place.

Date

(Name and designation of the authorized person with official seal)