



MADHYA PRADESH POWER TRANSMISSION COMPANY LIMITED
STATE LOAD DESPATCH CENTRE, NAYAGAON, RAMPUR, JABALPUR

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Jabalpur, dated: 11.04.2023

To

As per distribution list

Sub: Minutes of 84th meeting of Operation and Coordination Committee of MP.

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The Minutes of 84th meeting of the Operation and Coordination Committee of MP held on 02nd MARCH 2023 at 11:00 AM through video conferencing has been uploaded on the website of SLDC 'www.sldcmpindia.com' and can be downloaded.

Superintending Engineer (Opn)
SLDC, MPPTCL, Jabalpur

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MINUTES FOR 84th MEETING OF OPERATION & COORDINATION COMMITTEE OF MP
HELD ON 2nd MARCH 2023 AT 11:00 AM THROUGH VIDEO CONFERENCING.

The 84th meeting of Operation & Coordination Committee of MP was held on 02nd MARCH 2023 at 11:00 AM through video conferencing. The list of participants is enclosed as **Annexure -1.0.**

Shri S.S Patel, Chief Engineer SLDC & Chairman OCCM welcomed all the participants joined through online mode.

Chairman OCCM stated that to control the new DSM Regulations -2022, a best possible expeditious plan needs to be prepared, that we are doing as well but this will also require to be discussed with all entities.

Chairman OCCM requested all the participants for introduction.

Thereafter the agenda was discussed.

ITEM NO. 1: CONFIRMATION OF MINUTES: Minutes of 82ND and 83RD meeting of Operation & Coordination Committee of MP were forwarded to the committee members vide No. 07-05/SG-9B-II/51 Jabalpur dated 12.01.2023 and vide No. 07-05/SG-9B-II/53 Jabalpur dated 13.01.2023 respectively.

No comments have been received hence committee confirmed the minutes.

ITEM NO.2: REVIEW OF SYSTEM OPERATION DURING THE MONTHS SEPT 2022 TO DEC 2022.

2.1. Frequency Particulars: The committee was apprised that the system frequency was below 49.90 Hz for 5.35% of time in SEPT 2022, 4.93% of time in OCT 2022, 6.68% of time during NOV 2022 and 13.66 %of time during DEC 2022. The system frequency was above 50.05 Hz for 11.30% of time in SEPT 2022, 16.64% of time in OCT 2022, 16.12% of time during NOV 2022 and 29.34% of time during DEC 2022. The system frequency was within the IEGC range of 49.90-50.05 Hz for 83.34 % of time in SEPT 2022, 78.43% of time in OCT 2022, 77.20 % of time during NOV 2022 and 57 %of time during DEC 2022. The average monthly frequency was 50.20Hz during month of SEPT 2022, 50 Hz during month of OCT 2022, 50 Hz during month of NOV- 2022 and 50 Hz during month of DEC 2022.

The detailed frequency particulars for the month of **SEPT 2022 TO DEC 2022** are enclosed at **Annexure-2.1.** The brief detail 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
SEPT 2022	50.20 Hz	49.50 Hz	50.30 Hz	49.50 Hz	50.31 Hz
OCT 2022	50 Hz	49.83 Hz	50.20 Hz	49.53 Hz	50.40 Hz
NOV 2022	50 Hz	49.83 Hz	50.20 Hz	49.43 Hz	50.27 Hz
DEC 2022	50 Hz	49.59 Hz	50.32 Hz	49.41 Hz	50.55 Hz

The committee was apprised that this huge variation in the instantaneous frequency in the month of DEC-22 is due to the introduction of new DSM regulations-2022.

2.2 Operational Matters

2.2.1 Operational Discipline: Frequency profile for the months **SEPT 2022 TO DEC 2022** is as given below :

Month	% of time Frequency Below 49.90 Hz	% of time Frequency above 50.05 Hz	% of time frequency within the permissible range of 49.90-50.05 Hz.	Average monthly frequency
SEPT 2022	*5.35	*11.30%	*83.34%	50.20 Hz
OCT 2022	4.93	16.64	78.43	50 Hz
NOV 2022	6.68	16.12	77.20	50 Hz
DEC 2022	13.66	29.34	57.00	50 Hz

* marked is SLDC SCADA data

2.2.2 Voltage Profile: The committee was apprised that the maximum and minimum voltage as recorded at important 400 KV s/s in MP Grid from **SEPT 2022 TO DEC 2022** is enclosed as **Annexure – 2.2.2.**

CE (T&C) informed that 50 MVAR reactor at 220kv ss Pandurna will be commissioned by the March-23.

Problem of high voltages at 400kv ss Kirnapur was discussed and it was advised to devise the ways to control heavy over voltages at kirnapur.

2.2.3 STATUS OF CAPACITOR BANKS IN SUB-TRANSMISSION SYSTEM: The committee was apprised that the updated information of the status of capacitor banks in sub-transmission system as on 31th DECEMBER 2022 as submitted by DISCOMs is detailed below:

DISCOM	Capacitor bank installed in good condition (No)				Capacitor Banks healthy but not in service due to control ckt problem			Capacitor bank installed but defective & are repairable (No)			Requirement of repair against each unit (No)	Requirement against non-repairable capacitor banks		Capacitor banks already covered under ADB T-V		Balance capacitor banks to be covered in other schemes	
	600 KVAR	1200 KVAR	1500 KVAR	1800 KVAR	600 KVAR	1200 KVAR	1500 KVAR	600 KVAR	1200 KVAR	1500 KVAR	No of 100 KVAR Units required	600 KVAR	1200 KVAR	600 KVAR	1200 KVAR	600 KVAR	1500 KVAR
EZ	418	137	115	-	00	0	0	4	8	0	6	24	7	0	0	-	553
CZ	0	498	1103	211	-	-	-	0	0	0	0	0	0	0	0	0	538
WZ	531	509	803	-	4	4	2	69	52	63	778	12	22	0	0	-	0

CE(T&C) informed that healthiness of capacitor banks needs to be checked thoroughly as next Peak (Rabi) Season will also be accompanied with State Elections.

Chairman OCC stated that this is the serious issue and to address this, the substation wise requirements of MVAR compensation shall be sent from T&C to Discoms within 1 month, so that the MVAR compensation can be addressed.

T&C representatives agreed to this.

2.2.4 Status of Shunt Capacitor Banks installed at various EHV Transmission Substation: The committee was apprised that the updated information of the status of installed capacitor banks (in MVAR) in EHV transmission system as on 31.12.2022 as submitted by MPPTCL is given below : -

Voltage Class	Capacitor bank installed as on 30.09.2022 (MVAR)	Capacity Added after Last OCC Meeting (MVAR)	TOTAL CAPACITY AS ON <u>31.12.2022</u> (MVAR)	Capacitor Bank Installed but defective & are not repairable (No & MVAR)
220 KV	0.00	0.00	0.00	All in Service
132 KV	1139.00	0.00	1139.00	
33/36 KV	7488.50	72.00	7560.50	
TOTAL	8627.50	72.00	8699.50	

2.2.5 U/F and df/dt Relay Operation

- (i) **U/F and df/dt Relay Operation:** During **SEPT 2022 TO DEC 2022**, frequency did not touch 49.40 Hz. There was no df/dt operation during the same period. MPPTCL informed that under Frequency Plan for all the stages have been implemented and in operation.
- (ii) **Defective u/f, df/dt Relays:** MPPTCL has informed that all the df/dt and U/F relays are in operation, where the U/F relays are not available, the numerical relays programmed for under frequency operation. All U/F stages are in good/ healthy & working condition.

2.3 POWER CUTS / LOAD RESTRICTIONS/DIFFERENTIAL LOAD SHEDDING BY DISCOMS & GROUP ALLOCATION TO 33 KV FEEDERS: -

- (i) The committee was apprised about the details of DISCOM wise Power supply given to various domestic categories during the period **SEPT 2022 TO DEC 2022** which is enclosed at **Annexure 2.3(i)**.
- (ii) **Group Allocation to Newly Commissioned existing EHV substations:-** The committee was apprised about the region wise list of 33 KV feeders emanating from various newly commissioned/existing EHV

substations for which groups have not been allocated. The DISCOM wise details of pending group allocation to 33 KV feeders as provided by T&C, MPPTCL is given below:-

SN	DISCOM	Region	No of 33 KV feeders for which groups to be allocated
01	EAST	Jabalpur	24
02		Sagar	11
03		Rewa	14
04		Total	49
05	WEST	Indore	30
06		Ujjain	9
07		Total	39
08	CENTRAL	Bhopal	36
09		Gwalior	10
10		Total	46
TOTAL		Grand Total	134

DISCOMs were requested to furnish the details as per list enclosed at **Annexure-2.3(ii)** in the meeting.

In view of the above, it was requested that the order copy for which group have been allocated may please be submitted to T&C, MPPTCL under intimation to SLDC.

S.NO.	NAME OF DISTRICT (to be provided by Discoms)	NAME OF SUB-STATION (to be provided by Discoms)	NAME OF 33KV FEEDER (to be provided by Discoms)	GROUP NO. AS ON <u>31.12.2022</u> (to be provided by Discoms)	U/F RELAY SETTING (48.8,49.0,49.2, 49.4)HZ (to be provided by T&C, MPPTCL)	AVERAGE LOAD IN MW DURING THE MONTH OF Dec - 2022 (to be provided by Discoms)
1						
2						
3						
4						

ITEM NO. 3 : OPERATIONAL PLANNING:

3.1 Generating Units under planned outage and proposed maintenance program: The committee was apprised about the latest status for annual maintenance /outages of thermal generating units of MPPGCL as provided by ED(O&M:Gen) for FY-2022 – 2023 is enclosed as **Annexure-3.1**.

3.2 Proposed shutdown program of Transmission lines / Transformers: The committee was apprised about the proposed shutdown of transmission elements for the period 01.11.2022 to 31.12.2022 as submitted by T&C, MPPTCL is enclosed as **Annexure-3.2**.

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

Sr. No	Line/Transformer/ etc under long Outage	Outage date	Reason	Response from Utility
1	220 KV ATPS – Railway Traction Ckt - 1	15.05.2019	B-Phase LA Burst	MPPGCL in 79th OCCM intimated that the line is ready for charging from ATPS end. Railway replied that the line cannot be charged from railway end as it was suspected that high voltage impulse is generated in charging the line which is the cause of frequent failure of power transformers. Railway reply letter is attached as annexure 3.3 Representative from Railway informed to update its latest status within 10 days.
2	315 MVA BHEL X-MER-2 AT 400 KV S/S NAGDA	27.08.22	Differential and Buchholz trip indication at the time of failure of B-PH HV and IV bushing	MPPTCL informed that the transformer is decommissioned on 16.12.22

Any transmission element/ EHV element under outage, which has not been intimated/included under aforesaid outage list, should be invariably intimated to SLDC. All entities are requested to ensure the same. The utility may submit the latest status.

ITEM NO. 4 : OPERATIONAL STATISTICS FROM SEPT 2022 TO DEC 2022:

The committee was apprised about 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(Energy Balance Sheet).
- 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

5.1 REPORTING OF FLASH REPORT, DR AND EL FOR 400KV, INTERSTATE TRANSMISSION ELEMENTS & DETAILED TRIPPING REPORT:-

The committee was apprised that as per the provisions of Regulation 5.2 (r) of CERC (Indian Electricity Grid Code) Regulations 2010 and Regulation of 5(9) of CERC (Indian Electricity Grid Code) (First Amendment) Regulations, 2012 all the Regional Entities of the Region shall furnish the tripping details including DR & EL output to RLDC within 24 hrs of the event for analysis and identify the real-time measures required in future to ensure secured grid operation. The flash report is also required to be furnished to SLDC within an hour of tripping. Sometimes It is observed that FLASH REPORT are being made available but not DR & EL of tripping of transmission grid element by the State Grid Entities.

It has been intimated by WRLDC wide that in case of tripping of Inter State & inter Regional lines of voltage class 220 KV & above level, a tripping report along with the DR/EL files shall be submitted to WRLDC. In the matter it is to mention that the detailed report along with DR/EL shall be submitted to WRLDC/WRPC within 24Hrs. Also the DR/EL shall be submitted to WRLDC tripping portal, details of which were previously circulated. The incidences / tripping's which occurred during the month of SEPT 2022 TO DEC 2022 for which the details have not been submitted are:-

S NO	Event at s/s	Date	Flash report	Detailed report	DR/EL
1	220 KV ss Sidhi	01.12.22	No	No	No

Entities were requested to follow the timelines of providing the information of tripping incidents.

ITEM NO. 6.0 : IMPORTANT OPERATIONAL ISSUES:-

6.1 STATUS OF COMPLETION OF ONGOING SCHEMES FOR COMMISSIONING OF REACTORS / TRANSMISSION ELEMENTS:-

The committee was apprised about the present status regarding schedule and commissioning of reactors / transmission elements is as below:-

S.No.	400 KV S/s	Size MVAR	Implementing Agency	Expected Date of Commissioning as intimated in last OCC
1.	Line reactor on 400 KV S/s Satna (PG) – Sagar Ckt at 400 KV S/s Sagar end.	50 MVAR Line Reactor	MPPTCL	T&C informed that they will submit its latest status at the earliest.

2.	400KV S/s Sagar	125 MVar Bus Reactor	MPPTCL	T&C informed that civil work for this has been started. It is also to intimate that a revised/recent EI approval shall be provided prior to its charging as the element was not in service for more than 6 months.
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6.2 CHARGING APPROVAL FROM ELECTRICAL INSPECTORATE FOR ISTS AND INTRASTATE POWER SYSTEM ELEMENTS IN EMERGENCY CONDITIONS:-

As per the CEA (Measures relating to Safety and Electric Supply) Amendment

Regulations, 2010 regulation 43 (4) says- *“The owner of any installation of voltage exceeding 650 V who makes any addition or alteration to his installation shall not connect to the supply his apparatus or electric supply lines, comprising the said alterations or additions unless and until such **alteration or addition** has been approved in writing by the Electrical Inspector”*

As per the CEA (Measures relating to Safety and Electric Supply) Amendment

Regulations, 2015 regulation 43 (7) says – *“The owner of any installation who makes any **addition or alteration** to his installation shall not connect to the supply his apparatus or electric supply lines, comprising the said alterations or additions, unless and until such alteration or addition has been approved in writing by the Electrical Inspector or self-certified by the owner of the installation, as the case may be.”*

On the basis of above regulations , WRLDC is requesting to provide the Electrical Inspector approval for charging of any ISTS elements after **routine/emergency replacement and up-gradation of elements like CT, PT, CVT, Isolator, CB, LA, Bushing and Wave Trap.**

In line with the above, a meeting to discuss minimizing of processing time of charging approval from CEA/State CEIG for ISTS/ISGS and associated power system elements in emergency conditions (**routine/emergency replacement and up-gradation of elements like CT, PT, CVT, Isolator, CB, LA, Bushing and Wave Trap**) in Western Region was called by CEA on 04.08.2022.

As informed during the meeting, the procedure followed by RIO(W) CEA for emergency replacement is mentioned below.

1. Apply online for clearance on CEA web portal which is readily and universally Accessible and details of nodal officers are also available therein. The entity shall inform the same to Electrical Inspector(RIO-West) before the works starts and conveys the schedule of works.

2. Upload the latest and relevant Test Reports of equipment or any test report asked by the electrical inspector. At the same time, the entities shall also inform the same through e-mail along with all relevant test reports, photos.

3. After the inspector examines the documents and if found in order, consent for charging will be issued under CEA Safety regulation 43(7) and conveyed through email within a minimum time (mostly within an hour).

4. For any assistance, nodal officers are available on telephone and may be Contacted for better coordination.

Representative from Chief Electrical Inspectorate M.P informed that MP state electrical inspectorate hasn't received any request from MPPTCL for charging on emergency basis. He informed that if any such proposal is received, it will be processed as per the procedure adopted by CEA.

All Electrical Inspectors agreed to minimize the procedural time during the charging of important elements in emergency case.

This adopted procedure is for ISTS emergency/routine replacement of elements, but for planned nature of work for ISTS/Intra state, conventional procedure of approval will be adopted.

In meeting it was suggested a similar procedure may be adopted for Intra-State Power System elements in consultation with the State Electrical Inspectorate.

In line with the above practice being adopted at ISTS/ISGS network, similar practice is required to be adopted at Intrastate transmission/generation elements.

Committee discussed the matter.

Chairman OCC stated that this agenda is very well known to all and entities are getting approvals from Electrical Inspectorates. Further he requested P&D, MPPTCL to follow up the matter with office of Chief Electrical Inspector for clarification/authorization/consent for charging of elements after emergency replacement conditions so that it will ease the charging procedure.

6.3 SINGLE BUS SYSTEM AT REWA MP AND LOADING ISSUE:-

220kv Rewa MP is the s/s which is connected with different kind of entities like MPPGCL, PGCIL and other nodes of MPPTCL. This s/s is having only one main bus system on 220kv voltage level. Further, in month of September-22, 220KV REWA MP-REWA RUMS CKT 1 and 2 having HTLS conductors has been charged. After this connection, fault level has been increase at rewa and it exports power to all other nodes .

In this situation the importance of 220kv Rewa MP s/s is very prominent looking to the reliability of network of that area. At this point if any planned or emergency s/d comes on bus then s/s left with no other option instead to keep the entire 220kv network out of service.

As Rewa is the vital source of supply to that area now, hence possibility of construction of 220kv Main Bus no 2 may be explored, it will definitely explore the reliability of power of this area.

Also with this new integration, this peak season is the first high demand season after its integration. Loading on 200 MVA and 160 MVA X-mers at REWA MP has been increased to about 80% and above. Hence N-1 criteria is very much violated here.

The problem of 220kv Rewa s/s having single bus and only 200MVA and 160 MVA x-mer has been elaborated during meeting.

Representative from T&C informed that the loading of Rewa 220kv s/s was 82%(max) in this Rabi season. Further he added that load dropping scheme at Rewa has been approved but right now there is no plans available with them to install new x-mer in near future.

Chairman OCC requested P&D representative to explore the feasibility of another 220kv Bus at 220kv s/s Rewa to improve the reliability of that area along with the possibility of installing the another x-mer so that N-1 criteria may be achieved.

6.4 REVIEW OF RAMP RATES :-

There are few generators who are not having 100% of their power scheduled with single entity. Thus they have to sale their power in the market as merchant power. They face some problem in ramping up/down during blocks where two or more entities give their schedule for ramping up/down simultaneously. In such blocks, requirement of ramping up/down becomes more than the required ramping up/down of 1% per minutes or 15% in a block as per IEGC. In such scenarios, generators have to face excessive DSM charges.

In view of the above, It was proposed to revisit the ramp rates of all the generators who are members of this committee.

During the meeting, the issue of Jhabua Power was discussed with MPPMCL. MPPMCL informed that they have asked the Jhabua Power to provide the documentary evidences to substantiate their claim, but they have not produced any documents related to the matter.

6.4 DISCRIPENCIES PENDING AT RAILWAY END:-

Regarding ABT and SCADA agenda point number **8.3 and 9.8**. It is requested from Railways to address the issues in one month, otherwise SLDC will be forced to file a petition before MPERC.

It was decided to discuss this agenda point during ABT and SCADA agenda points.

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

7.1 BLACK START MOCK DRILL OF HYDEL STATIONS OF MP:- During 2023-2024 Black Start Mock Drill proposed to be conducted at various Hydel power station of MP is detailed as mentioned below:-

S.NO.	NAME OF HPS	PROPOSED/TENTATIVE DATE OF MOCK DRILL
1.	PENCH HPS	MPPGCL informed that due to requirement of CT replacement of Bus coupler at Pench, it will take at least 1.5 month to conduct this mockdrill.
2.	BARGI HPS	Planned in March-23
3.	BIRSINGHPUR HPS	Conducted in Dec 2022
4.	MADIKHEDA HPS	Conducted in Dec 2022
5.	TONS HPS	MPPGCL informed that due to non availability of Machine no 3, it could not be done, presently trial run of machine is going on. Once it is available, mockdrill can be conducted.
6.	ISP HPS	Cannot be conducted due to failure / non-availability of Line Reactor of 400 KV ISP – Indore Ckt – 2 at Indore end.
7.	OSP HPS	Planned in April-23
8.	RAJGHAT HPS	Planned in March-23

ITEM NO. 8 : AVAILABILITY BASED TARIFF (ABT) RELATED ISSUES:

8.1 Non-Receipt of complete load survey data of Interface Points:

1. SLDC representative informed that around 09 Nos. ABT meters are installed at the interface points of newly commissioned substation / Xmers as shown in Annexure-I. He requested CE(T&C) office to include these meters in the AMC contract awarded to M/s Secure Meters Ltd vide order no. 04-04/ TC-AMR/ SII/ Addl. Order/1799/310 dated 04/05/2022 for 1080 Nos interface points. CE(T&C) office representative informed that newly installed interface points meters shall be included under AMC contract and they provided list to M/s Secure Meters.

2. SLDC representative informed that complete Load survey data of ABT meters installed at the Grid Substation interface points of Transco-Discoms, Open Access Customers, HT Consumers and Railways TSS are not received through AMR System and site officials are also not furnishing the load survey data timely. He further informed that SLDC sends the list of missing meters every month on 5th to 6th but does not receive the missing data. He requested CE(T&C) office to issue instructions to field offices for manually downloading the missing data and providing the same to SLDC on time. CE(T&C) office representative informed that they have already issued instructions to field offices for manual downloading of meter data and furnishing the missing data to SLDC on time, however they have assured to again issue instructions to field offices.

8.2 Time drift in Energy meters installed at the interface points PG:

SLDC representative requested CE(T&C) office to apprise status of replacement of following SEMs installed at the inter state transmission line due time-drift greater than 10 minutes.

S. No.	Location	Meter number	Interconnection	time drift in minutes	Meter type	Remarks
1	Malanpur*	NP4219A	220kV Auraiya line-1 at Malanpur	29	Main	Prolonged issue since 16.10.19. Issue intimated via letter dated 07.05.21 and 11.07.22. Matter discussed in 82nd, 83rd, 84th, 85th & 86th CCM.
2	Bhanpura*	NP2138A	220kV Sakatpura line at Bhanpura	26	Main	Prolonged issue since 01.05.20. Issue intimated via letter dated 07.05.21 and 11.07.22. Matter discussed in 83rd, 84th, 85th & 86th CCM.

CE(T&C) office informed that meter at Malanpur has been replaced and the meter Bhanpura shall be replaced within 2-3 days.

8.3 Non receipt of ABT meter data of Railway TSS through AMR System & JMR:

SLDC representative stated that Railway has informed in the previous OCCMs that the proposal of AMC contract to M/s Secure Meters Ltd. is under process and within one month tendering process will be completed. Railways have also ensured for timely receipt of meter data / JMR data at SLDC on weekly / Monthly basis for issuance of accounts. However, in spite of repeated requests from SLDC, the complete meter data of Railways is not received by SLDC. Railways are once again requested to provide following assistance to SLDC for timely issuance of accounts on weekly / Monthly basis:

1. Issue instructions to concerned officials for providing the weekly / monthly JMR data of TSS end meters to SLDC.
2. In case of missing meter data and JMR data, Nodal officer shall send weekly / monthly meter data through email within two days on request of SLDC.
3. 19 Nos. ABT meters installed at TSS end for the month of December 2022 are not communicating with SLDC AMR system. Also, manually downloaded meter data of these TSS is not received by SLDC despite repeated requests from SLDC.
4. Provide AMC for AMR system of meters installed at TSS and GSS end for successful downloading of meter data

Railway representative informed that they will coordinate with CE(T&C) MPPTCL and M/s Secure Meters Ltd. for data downloading remotely at SLDC. They have also requested to CE(T&C) MPPTCL for including their all TSS point in AMC contract of MPPTCL.

8.4 Testing & Calibration of interface meters of MPPGCL.

SLDC representative informed that as already requested in previous OCCMs to MPPGCL to conduct testing / calibration of main, check and standby meters installed at the interface points of Hydel power stations and check meters installed at the interface points of Thermal power stations as per Regulations 10 and 18 of Central Electricity Authority (Installation and operation of meter) Regulation 2010. He requested MPPGCL to apprise the Committee about the status of Testing / Calibration as per regulatory provisions. Further, he also requested MPPGCL to ensure that meters installed at the interface points are time synchronized with GPS. MPPGCL representative informed that testing / calibration of main & standby meters installed at Thermal Power Stations have already been done and assured to conduct the testing / calibration of meters installed at Hydel Power Station and of check meters of Thermal Power Stations. Further, MPPGCL assured to conduct time synchronization all meters with GPS.

8.5 Non-receipt of ABT meter data of Solar Generating station:

SLDC representative informed that meter data of some pooling stations qualified for RE DSM from Oct 2022 is not received by SLDC. The list of missing data of meters has already been emailed on monthly basis but, till date we have not receiving the meter data. The list of meters whose data is not received at SLDC is as under:

Sr. no.	Feeder Name	Location	Meter No
1	33 KV UJAAS I AGAR	132KV S/S AGAR	MPC59595
2	33 KV UJAAS II AGAR	132KV S/S AGAR	MPC59596
3	WINDFARM FEEDER AT JAORA (WINCON)	132KV S/S JAORA	MPE22421
4	VIVAAN SOLAR -1 MAKDON	132KV S/S MAKDON	MPC55922
5	VIVAAN SOLAR -2 MAKDON	132KV S/S MAKDON	XC529587
6	VIVAAN SOLAR -3 MAKDON	132KV S/S MAKDON	XC529586
7	33KV VIVAAN SOLAR -1 TARANA	132KV S/S MAKDON	XD501478
8	33KV VIVAAN SOLAR -2 TARANA	132KV S/S MAKDON	XE479821
9	33KV UJAAS 2 BAROD	220KV S/S BAROD	XE525399

SLDC representative stated that licensee has to arrange to furnish the missing meter data on top most priority for issuance of energy accounts by SLDC. Further, licensee has to coordinate with RE Generator for restoration of AMR connectivity to SLDC AMR Server on priority basis. The issue could not be discussed as no representative from DCC, Indore has attended the meeting.

8.6 Time drift in ABT meters installed at the pooling stations of Wind and Solar Generating Stations and Sliding Window problem:

SLDC representative stated that ABT meters installed at the following Pooling Stations of Wind and Solar Power Project has time drift and thus not recording the correct data. SLDC has requested to QCA / Generators with copy to concerned licensee vide letter no 07-05/REG-201/147 dated 25/01/2021 and letter no 07-05/REG -201/2215 dated 30.11.2021 for time synchronization of the ABT meters with GPS so that correct DSM account of these Wind and Solar Projects is issued by SLDC.

Sr. no.	FEEDER	SUBSTATION	ZONE (Discom)	Meter No.	TIME DRIFT IN MINUTES
1	UJAAS I SUSNER	132KV S/s Susner	WZONE	XB571653	368.40
2	33KV MARUTSHAKTI CHANDWASA	33KV CHANDWASA	WZONE	XC502303	381.00
3	VIVAAN SOLAR -3 MAKDON	132KV S/S MAKDON	WZONE	XC529586	20.00
4	WIND WORLD 4 SUSNER	132KV S/S SUSNER	WZONE	XA474846	110.00
5	33KV TODAY CLEAN ENERGY FDR-II	220KV S/S BAROD	WZONE	XD511507	18:00
6	GLOBUS STEEL & POWER	132KV S/s SITAMOU	WZONE	XC562469	87.00
7	ENERCON (I) LTD.-I RATEDI HILL,BAGLI	132 KV S/s CHAPDA	WZONE	Q0296375	26.00
8	ENERCON (I) LTD.II RATEDI HILL,BAGLI	132 KV S/s CHAPDA	WZONE	Q0296376	27.00
9	SEIL VOLTA AND SITARA	132KV S/s SITAMOU	WZONE	XB581188	32.00
10	UJAAS -II ICHHAWAR 33 KV	132KV S/S ICHHAWAR	CZONE	MPC59975	95.00
11	UJAAS -1 ICHHAWAR 33 KV	132KV S/S ICHHAWAR	CZONE	MPC58881	19.00

Further, ABT meters installed at the following Wind and Solar Generating Stations are recording the 15 minutes block wise data on sliding window principal thus blockwise data do not match with midnight data. SLDC has requested to Generators with copy to concerned licensee vide letter no. 2353 dated 31/08/2019, letter no. 2771, dated 16/10/2019, letter no. 809 & 810 dated 03/06/2020 and letter no 07-05/REG -201/2215 dated 30.11.2021 for immediate replacement of these ABT meters.

Sr.No.	FEEDER NAME	SUBSTATION	ABT METER No.	ZONE	QCA NAME
1	33KV SUZLON- IV RATLAM	132KV S/S JAORA	XE479859	WZONE	RECONNECT ENERGY SOLUTION
2	33KV SUZLON- V RATLAM	132KV S/S JAORA	XE479860	WZONE	RECONNECT ENERGY SOLUTION
3	33KV SUZLON-IV AGAR	132KV S/S AGAR	XE479864	WZONE	RECONNECT ENERGY SOLUTION
4	33KV SUZLON-V (SUSNER-III)	132KV S/S SUSNER	XE479867	WZONE	RECONNECT ENERGY SOLUTION

5	33KV SUZLON-III (AGAR- I),	132KV S/S AGAR	XE479863	WZONE	RECONNECT ENERGY SOLUTION
6	33KV SUZLON BEHAPUR	220 KV S/s DALODA	XE479862	WZONE	RECONNECT ENERGY SOLUTION
7	33KV SUZLON BEHPUR DALODA-	220 KV S/s DALODA	XE479861	WZONE	RECONNECT ENERGY SOLUTION
8	33KV SUZLON I (SUSNER-I),	132KV S/S SUSNER	XE479866	WZONE	RECONNECT ENERGY SOLUTION
9	33 KV SUZLON GUJRAT WIND	220 KV BAROD	XD595984 XD595980	WZONE	MANIKARAN ANALYTICS LTD...
10	33KV FREEWING POWER PVT. LTD.	132KV S/s MAKDON	Y0505422	WZONE	FREEWING POWER LTD.
11	33KV GI POWER PVT. LTD.	220KV S/s MAKDON	X1071843	WZONE	KREATE TECHNOLOGY PVT
12	SUZLON DEV 1 NAGDA HILL	220 KV DEWAS	XE479868	WZONE	RECONNECT ENERGY SOLUTION
13	SIMCON FEEDER -2	220KV GANJBASODA	Y0327309	CZONE	KREATE TECHNOLOGIES LLP

Licensees are requested to take-up the issue with concerned officials for time synchronization and replacement of ABT meters. Further licensees are requested to provide monthly status of those meters in which correction of time drift and replacement/ reconfiguration of meters based on sliding window principle were done.

SLDC representative requested to DCC, Bhopal to take-up the issue with concerned officials for time synchronization and replacement of ABT meters. DCC Bhopal has informed that concerned nodal officer / SE(O&M) / Commercial Section have been intimated for taking necessary action for time synchronization and replacement of meters. No representative from DCC Indore has attended the meeting.

8.7 Implementation of CERC (Deviation Settlement Mechanism and related matters) Regulations 2022:

SLDC representative gave the presentation on CERC (Deviation Settlement Mechanism and Related Matters) Regulations 2022 and subsequent directives issued by Hon'ble CERC in pursuance to CERC(DSM) Regulations 2022. He also explained the applicability DSM rates and methodology of these regulations on Intra State entities as per Clause No. 7 (4) of Madhya Pradesh Electricity Balancing and Settlement Code (BSC) 2015.

ITEM NO. 9: SCADA and E&T RELATED ISSUES

9.1 Replacement of RTUs in Thermal Power Stations:-

The matter was taken up by SLDC in various OCCM meetings as well as in separate SCADA and communication meetings held with power station officers and present status is summarized hereunder.

(i) STPS: - it was informed by MPPGCL that they are upgrading the existing SCADA system at Power stations and also procuring the New RTU for integrating the telemetry of thermal Power Stations. However regarding integration of interface energy meters into real time SCADA system has been summarized below:-

- (a) STPS PH-IV: New energy meter has been procured and Energy meter has been integrated in existing SCADA System for Sarni -Astha -I & II feeder, Generating Transformer and Station Transformer for unit 10 and real time telemetry data of the same are reporting to SLDC SCADA system but polarity of telemetry value of all data is reversed. However for unit 11, S/D shall be taken for unit 11 (as it is continuous in operation) for integration for energy meter and after that real time data shall be provided in SLDC SCADA System at the earliest.

MPPGCL official has assured that integration of energy meter for 400 KV Itarsi, Seoni (PG), and Koradi (MH) shall be done at the earliest. However timeline regarding integration of Energy meter at 400 KV Feeder Itarsi, Seoni (PG), and Koradi (MH) shall be provided after delivery of energy meter by M/s Secure at site.

- (b) PH-II & PH-III: - GE SCADA engineer have visited and order regarding procurement of energy meter has been processed and same shall be integrated in existing SCADA System of Ph-IV and real time data shall be provided in SLDC SCADA System.

MPPGCL official has submitted reply regarding procurement of new RTU is under approval stage.

- (ii) SGTPS: - Procurement of New RTU is in process and is under budgetary offer stage.

- (iii) ATPS: - Procurement of RTU is in process and shall be completed at the earliest.

In view of the above, MPPGCL have assured that the procurement of RTU of ATPS & SGTPS and complete the tendering process within 6 month.

9.2 ARRANGEMENT OF TELEMETRY OF IMPORTANT 220KV SUB STATIONS & 132KV S/S HAVING INJECTION FROM RENEWABLES/CAPTIVE POWER PLANTS OR HAVING INTERDISCOM FEEDERS /TRACTION FEEDERS.

The telemetry of Birsingpur HPS was commissioned, however the telemetry of Birsingpur HPS is currently not available due to RTU shifting work and some issue in 48 V DC Charger. MPPGCL informed that the 48 V DC Chargers is being replaced with a new Charger. New charger has been procured and connection needs to be done.

MPPGCL are requested to provide current progress in the matter.

In view of the above, MPPGCL have assured that the telemetry of Birsingpur HPS shall be restored at the earliest after procurement of RTU at SGTPS.

9.3 UPGRADATION OF EXISTING RTUS & DISCREPANCY IN TELEMETRERED VALUES RECEIVED FROM DIFFERENT EHV S/S & POWER STATIONS

The present status of telemetry discrepancy including upgradation requirement is enclosed herewith as **Annexure-1**. The list of major telemetry discrepancies is as given below:-

(a) MPPGCL Generating Substations :-

1. SGTPS :-

1.Sr. No.	Description	Unit	Pending since
1	XFMR 220 /33, STN XFMR	CB	15 month

(b) Transmission/ other Generating Substations :-

SI No.	Name of Substation	Name of feeders/transformers
01	220 KV Satna S/s	Value difference in Satna (PG)-I feeder

MPPTCL informed that they will arrange for rectification of above telemetry issue within one week in co-ordination with PGCIL official. However MPPGCL officials informed that they will rectify the issue within one month.

9.4 Extension of RGMO/FGMO signal to SLDC/WRLDC:-

The extension of RGMO/FGMO signal of following generating units is still pending: -

S.No.	Name of Generating Station	Unit.No.	MPPGCL response in last OCC
1	SGTPS	1,2,3,4	MPPGCL informed in last six OCC meetings that it is under tendering process & telemetry integration of RGMO/FGMO signal shall be completed within 3-4 months. However, no progress in the matter has been observed even after lapse of one and half year period.
3.	Singha Ji Phase 2	3, 4	MPPGCL informed in last 6 OCCM that matter has been taken up with L&T to initiate the work at the earliest & the integration work will be done when the units will be taken on operation. MPPGCL is requested to update the progress in this matter.

MPPGCL Official have assured that 1 to 4 UNIT of SGTPS are old and there is no provision of extension of RGMO/FGMO signal until replacement of old instrument and upgradation of all old instruments shall be done within three month and after that extension of RGMO/FGMO signal shall be extended and extension of RGMO/FGMO signal of unit 3 and 4 shall be done at the earliest.

9.5 LONG OUTAGE OF RTUS, PROBLEM IN DATA AND VOICE CHANNELS & INTERMITTENT TELEMETRY:-

As per CERC communication regulation 2017, availability of telemetry is required to be ensured more than 99.9%. However following RTUs are either out since very long time or are intermittent:-

S.No.	Name of RTU	Remarks	Telemetry Availability %
1	Birsinghpur HPS	Out since more than 2 months	0 %

2	220 KV Rewa	Intermittent	80%
3	132 KV Deolone HPS	Intermittent	0%
4	132 KV Bijawar	Intermittent	70%
5	132 KV Beohari	Intermittent	80%
6	220 KV Nepanagar	Intermittent	17%
7	132 KV Zinna	Intermittent	0%
8	132 KV Bara malhera	Intermittent	70%
9	132 KV Amarpatan	Intermittent	54%
10	132 KV Tendukheda	Intermittent	70%
11	400 KV Sagar	Intermittent	80 %
12	132 KV Gadarwara	Intermittent	80%
13	132 KV Dongarital	Intermittent	10%
14	132 KV Momenbarodia	Intermittent	72%
15	220 KV Tons HPS	Intermittent	80%

Further we have received a letter dated 10.01.23 from WRLDC wherein it is informed that poor telemetry availability (below 95%) shall be treated as violation of grid code as per Clause 4.6.2 of IEGC and also instructed SLDC to comply the same and to initiate necessary action as per grid code to ensure round the clock availability of telemetry. All grid users are therefore requested to take necessary action to ensure uninterrupted round the clock telemetry availability.

MPPGCL and MPPTCL have assured that reliability of telemetry shall be assured by shifting telemetry data link from PLCC to FOTE/Optical Fibre.

9.6 Non Availability Voice communication Between SLDC to Bansagar –IV (Zinna) Hydel Power Stations:-

It is to inform that as per CERC communication regulation 2017, availability of communication channel is required to be ensured more than 99.9%. However, despite constant pursuance, the PLCC voice communication between SLDC to Bansagar-IV (zinna) has not been established so far. The matter has been also discussed with communication division Satna and it has been informed that due to multiple breakage in coaxial cable and faulty LMU unit, PLCC link is currently not in working condition. However it is pending for more than two years.

MPPGCL has assured that they will restore the issue at the earliest.

9.7 Rectification/Confirmation of readiness of OPGW Links

S.No.	OPGW LINK	Action	Remark
1.	220 KV Satna-Katni	Replacement of OPGW cable between 220 KV Satna-Katni	Matter has been discussed with MPPTCL Officials and ROW matter has not been resolved and Replacement of cable is still pending for more than one year.
2.	400 KV Bhopal -Bina	Shifting of traffic from Old link to newly constructed Link by MPPTCL	Matter is under discussion and Confirmation and readiness pending.
3.	400 KV Pithampur-Indore	Repairing of 22 faulty fibers out of 24 Fibers	No confirmation from field has been received and Repairing is pending

MPPTCL officials have assured that they will restore the link within three month.

9.8 Telemetry of railway TSS Sub Stations: -

The Reliable telemetry of existing 50 Nos Railway Traction Sub Stations & telemetry of upcoming 13 new Railways TSS is required to be provided by railway for monitoring of drawl by each TSS and also monitoring of demand of railway in MP. Hence telemetry of 50 Nos Railway Traction Sub Stations out of 63 has been commissioned and is reporting to SLDC, Jabalpur. However telemetry availability of Railway TSS is very poor.

Railways are requested to complete the integration of 13 Nos Railway Traction Sub Stations as well as ensure reliable telemetry of existing Railway TSS by laying Redundant communication link from Railway control center to SLDC within one month else SLDC shall have no option but to file the petition in Honorable MPERC for violation of grid code.

Railway officials informed that they will arrange to provide redundant link to enhance reliability of telemetry and integrate the balance 13 Nos Railway Traction Sub Stations work at the earliest.

ITEM NO 10 : DATE AND VENUE OF NEXT OCC MEETING :- It is proposed to hold 85th Operation and Coordination Committee meeting of MP in May-23. The host and venue of the same shall be intimated separately.

ADDITIONAL DISCUSSION:- The matter has been raised by OSP regarding the frequent change in the schedule of Omkareshwar HPS, as they are facing problem in downstream which is having huge public gathering, due to frequent change in schedule it becomes difficult for OSP administration to handle the situation.

**LIST OF PARTICIPANTS OF 84th MP OCC MEETING HELD THROUGH VC ON DTD 2nd MARCH
-2023**

Sr no	NAME OF PARTICIPANT (Sh/Smt)	OFFICE/ORGANISATION
1	S. S PATEL	SLDC, MPPTCL
2	PRADEEP SACHAN	SLDC, MPPTCL
3	ANURAG MISHRA	SLDC, MPPTCL
4	V. K AGRAWAL	SLDC, MPPTCL
5	R. K GUPTA	SLDC, MPPTCL
6	G S THAKUR	SLDC, MPPTCL
7	SHIKHAR NEMA	SLDC, MPPTCL
8	RAJIV KUMAR	SLDC, MPPTCL
9	D S MUJHALDE	SLDC, MPPTCL
10	DIVYA SONI	Sub-SLDC, Indore, MPPTCL
11	A K CHOUBEY	Sub-SLDC, Bhopal, MPPTCL
12	ATUL JOSHI	T&C, MPPTCL
13	RAJESH SHANDILYA	T&C, MPPTCL
14	ANJANA THAKUR	P&D, MPPTCL
15	BABITA GAJBHIYE	EHT-C, MPPTCL
16	J S PASRICHA	MPPMCL
17	ANIL ALUNG	MPPMCL
18	RAJESH SHRIVASTAVA	GCC, MPPGCL
19	S K TRIPATHI	O&M, HYDEL, MPPGCL
20	SHUSHIL PAL	O&M, HYDEL, MPPGCL
21	ANOOP GUPTA	DCC-EZ, DISCOM
22	SHAILENDRA CHOUHAN	DCC-EZ, DISCOM
23	ROHIT UJJAINKAR	DCC-WZ, DISCOM
24	S K KUSHWAHA	DCC-CZ, DISCOM
25	CHETAN GULWANI	WCR
26	HEMANT VERMA	ISP, NHDC
27	VINOD KUMAR SINGH	OSP, NHDC
28	S K DWIVEDI	OSP, NHDC
29	AMIT SARKARI	JP BINA

FREQUENCY PARTICULARS

FREQUENCY PARTICULARS									
S. No.	Particulars	Sep-22		Oct-22		Nov-22		Dec-22	
1 INTEGRATED OVER AN-HOUR									
1.1	Maximum Frequency	50.3 Hz	Between 13.00 hrs & 14.00 Hrs on 16.09.22	50.2 Hz	Between 13.00 hrs & 14.00 Hrs on 24.10.22	50.2 Hz	Between 13.00 hrs & 14.00 Hrs on 23.11.22	50.32 Hz	Between 13.00 hrs & 14.00 Hrs on 20.12.22
1.2	Minimum Frequency	49.5 Hz	Between 19.00 hrs & 20.00 Hrs on 02.09.22	49.83 Hz	Between 18.00 hrs & 19.00 Hrs on 25.10.22	49.83 Hz	Between 18.00 hrs & 19.00 Hrs on 24.11.22	49.59 Hz	Between 09.00 hrs & 10.00 Hrs on 25.12.22
1.3	Average Frequency	50.2 Hz		50 Hz		50 Hz		50 Hz	
2 INSTANTANEOUS FREQUENCY									
2.1	Maximum Frequency	50.31 Hz	AT 13.02:38 HRS ON 16.09.22	50.4 Hz	AT 13.06:24 HRS ON 24.10.22	50.27 Hz	AT 06.03:39 HRS ON 26.11.22	50.55 Hz	AT 06.08:28 HRS ON 26.12.22
2.2	Minimum Frequency	49.5 Hz	AT 19:19:14 HRS ON 02.09.22	49.53 Hz	AT 18:12:49 HRS ON 25.10.22	49.43 Hz	AT 18:30:52 HRS ON 08.11.22	49.41 Hz	AT 09:08:28 HRS ON 25.12.22

3 Percentage of time when frequency was :-

	%age of time when frequency was	Sep-22	Oct-22	Nov-22	Dec-22
3.1	Above 50.20 Hz		0.18	0.13	4.01
3.2	Between 50.10 Hz and 50.20 Hz		2.26	1.97	9.07
3.3	Between 50.05 Hz and 50.10 Hz		14.21	14.02	16.26
3.4	Between 49.9 Hz and 50.05 Hz		78.43	77.20	57.00
3.5	Between 49.7 Hz and 49.8 Hz		4.43	5.91	8.87
3.6	Between 49.8 Hz and 49.9 Hz		0.44	0.63	2.90
3.7	Between 49.2 Hz and 49.7 Hz		0.05	0.14	1.13
3.8	Below 49.2 Hz		0.02	0.01	0.76
3.9	No. of times frequency touched 49.20 Hz		0	0	0
4.0	No. of times frequency touched 49.00 Hz		0	0	0
4.1	No. of times frequency touched 48.8 Hz		0	0	0

Discoms wise Average Supply Hours

PARTICULARS	East Zone					Central Zone				
	Sep-22	Oct-22	Nov-22	Dec-22		Sep-22	Oct-22	Nov-22	Dec-22	
Commissary HQ	23:55	23:54	23:55	23:56		23:35	23:49	23:53	23:53	
District HQ	23:42	23:47	23:47	23:51		23:47	23:55	23:56	23:55	
Tehsil HQ	23:24	23:33	23:33	23:36		23:39	23:52	23:52	23:51	
Rural -Mixed	22:58	23:10	23:08	23:10		23:07	23:41	23:41	23:43	
Rural -DLF	22:57	23:09	23:07	23:08		23:12	23:39	23:40	23:36	
Rural -Irrigation	9:34	9:40	9:41	9:41		9:42	9:49	9:54	9:54	
PARTICULARS	West Zone					MP				
	Sep-22	Oct-22	Nov-22	Dec-22		Sep-22	Oct-22	Nov-22	Dec-22	
Commissary HQ	23:55	23:55	23:56	23:55		23:47	23:52	23:55	23:55	
District HQ	23:52	23:48	23:55	23:56		23:46	23:49	23:52	23:53	
Tehsil HQ	23:45	23:46	23:52	23:54		23:35	23:43	23:45	23:46	
Rural -3Phase	23:08	23:25	23:30	23:43		23:02	23:23	23:22	23:26	
Rural -1Phase	23:32	23:35	23:40	23:44		23:12	23:27	23:28	23:30	
Total Rural	9:35	9:40	9:51	9:52		9:37	9:43	9:48	9:49	

ANNEXURE-2.2.2

Sep-22

Sr No	Name of Sub Station			M A X I M U M			M I N I M U M		
	KV	TIME	DATE	KV	TIME	DATE			
1	Indore	416	4.00	15 Sep 22	399	11.00	7 Sep 22		
2	Bhopal	424	3.20	16 Sep 22	401	6.40	26 Sep 22		
3	Nagda	419	4.00	15 Sep 22	401	11.00	10 Sep 22		
4	Satpura	422	15.00	4 Sep 22	403	7.00	26 Sep 22		
5	SGTPS Birsinghpur	420	13.00	4 Sep 22	405	2.00	7 Sep 22		
6	Bina	417	13.05	16 Sep 22	396	23.20	9 Sep 22		
7	Pithampur	419	4.00	15 Sep 22	404	11.00	7 Sep 22		
8	Ashta	422	3.00	16 Sep 22	403	7.00	26 Sep 22		
9	Julwania	423	5.00	15 Sep 22	410	11.00	7 Sep 22		
10	Kirnapur	432	14.00	21 Sep 22	416	7.00	30 Sep 22		
11	Badnawar	425	4.00	15 Sep 22	405	12.00	6 Sep 22		

Oct-22

Sr No	Name of Sub Station			M A X I M U M			M I N I M U M		
	KV	TIME	DATE	KV	TIME	DATE			
1	Indore	422	2.00	25 Oct 22	396	11.00	3 Oct 22		
2	Bhopal	423	13.05	13 Oct 22	399	16.40	29 Oct 22		
3	Nagda	421	21.00	26 Oct 22	399	11.00	6 Oct 22		
4	Satpura	426	13.00	14 Oct 22	400	18.00	29 Oct 22		
5	SGTPS Birsinghpur	421	4.00	2 Oct 22	405	7.00	29 Oct 22		
6	Bina	416	13.05	13 Oct 22	394	6.40	31 Oct 22		
7	Pithampur	422	21.00	26 Oct 22	401	17.00	17 Oct 22		
8	Ashta	422	2.00	25 Oct 22	401	18.00	10 Oct 22		
9	Julwania	425	21.00	24 Oct 22	406	11.00	3 Oct 22		
10	Kirnapur	433	3.00	25 Oct 22	415	7.00	3 Oct 22		
11	Badnawar	428	2.00	25 Oct 22	405	11.00	3 Oct 22		

Nov-22

Sr No	Name of Sub Station			M A X I M U M			M I N I M U M		
	KV	TIME	DATE	KV	TIME	DATE			
1	Indore	423	21.00	9 Nov 22	394	10.00	5 Nov 22		
2	Bhopal	424	20.10	16 Nov 22	396	6.40	1 Nov 22		
3	Nagda	424	21.00	9 Nov 22	392	10.00	5 Nov 22		
4	Satpura	423	21.00	29 Nov 22	396	10.00	7 Nov 22		
5	SGTPS Birsinghpur	416	1.00	30 Nov 22	401	10.00	2 Nov 22		
6	Bina	415	4.05	25 Nov 22	390	9.40	7 Nov 22		
7	Pithampur	424	21.00	9 Nov 22	397	10.00	5 Nov 22		
8	Ashta	425	21.00	9 Nov 22	394	10.00	5 Nov 22		
9	Julwania	424	21.00	9 Nov 22	399	11.00	23 Nov 22		
10	Kirnapur	430	2.00	30 Nov 22	412	11.00	8 Nov 22		
11	Badnawar	430	21.00	9 Nov 22	399	10.00	5 Nov 22		

Dec-22

Sr No	Name of Sub Station			M A X I M U M			M I N I M U M		
	KV	TIME	DATE	KV	TIME	DATE			
1	Indore	425	21.00	13 Dec 22	393	10.00	23 Dec 22		
2	Bhopal	427	21.00	20 Dec 22	395	9.55	23 Dec 22		
3	Nagda	427	21.00	13 Dec 22	393	11.00	17 Dec 22		
4	Satpura	424	21.00	12 Dec 22	400	11.00	13 Dec 22		
5	SGTPS Birsinghpur	422	21.00	13 Dec 22	399	11.00	23 Dec 22		
6	Bina	416	4.00	14 Dec 22	388	10.10	23 Dec 22		
7	Pithampur	424	21.00	13 Dec 22	398	10.00	16 Dec 22		
8	Ashta	428	21.00	13 Dec 22	394	10.00	23 Dec 22		
9	Julwania	428	21.00	13 Dec 22	397	10.00	23 Dec 22		
10	Kirnapur	430	22.00	3 Dec 22	407	10.00	19 Dec 22		
11	Badnawar	432	21.00	13 Dec 22	400	10.00	23 Dec 22		

PROPOSED SHUTDOWN OF TRANSMISSION ELEMENTS FOR THE PERIOD 01-12-2022 TO 31-12-2022 TO BE APPROVED IN OCCM

[illegible]

Seq. No.	Request Type	OCCM Number	Name of Requesting Agency	Element Name	Daily / Continual work	Reason	From Date	From Time	To Date	To Time
1	PLANNED	OCC	MP_SDC	1220V SHEETPIPER REPAIRING-2	D	FOR LINE MAINTENANCE WORK	16-Dec-22	9:00	16-Dec-22	17:00

PROPOSED SHUTDOWN OF TRANSMISSION ELEMENTS (INTERNAL) FOR THE PERIOD 01-12-2022 TO 31-12-2022 TO BE APPROVED BY SLDC								
Sr-No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/Continue)	Reason
			Date	Time	Date	Time		
A- 400 KV TRANSFORMERS								
1	400	400KV/220KV UJJAIN-ICT-1	16-Dec-22	10:00	16-Dec-22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
2	400	400KV/220KV UJJAIN-ICT-2	19-Dec-22	10:00	19-Dec-22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
B- 400 KV REACTORS								
1	400	UJJAIN - 400KV B/R 1	14-Dec-22	10:00	14-Dec-22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
C- 400 KV FEEDER & BAYS								
1	400	400KV MAIN BUS-II AT 400KV S/S INDORE	05/Dec/22	9:00	07/Dec/22	18:00	CONTINUE	FOR REPLACEMENT OF PG ISOLATOR OF 400 KV BUS COUPLER
2	400	400KV MAIN BUS-I AT 400KV S/S UJJAIN	01/Dec/22	10:00	01/Dec/22	18:00	DAILY	FOR MAINTENANCE AND TESTING WORK
3	400	400KV MAIN BUS-II AT 400KV S/S UJJAIN	02/Dec/22	10:00	02/Dec/22	18:00	DAILY	FOR MAINTENANCE AND TESTING WORK
4	400	400KV UJJAIN-ASHTA-I	05/Dec/22	10:00	05/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	400	400KV UJJAIN-ASHTA-II	06/Dec/22	10:00	06/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	400	400KV NAGDA-UJJAIN-I	07/Dec/22	10:00	07/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	400	400KV NAGDA-UJJAIN-II	08/Dec/22	10:00	08/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	400	400KV BUS COUPLER AT 400KV S/S UJJAIN	21/Dec/22	10:00	21/Dec/22	18:00	DAILY	FOR MONSOON MAINTENANCE AND TESTING WORK
9	400	400KV-BIRSINGPUR-MP-KATNI-MP-1	14/Dec/22	9:00	14/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
10	400	400KV-BIRSINGPUR-MP-KATNI-MP-2	16/Dec/22	9:00	16/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
11	400	400KV-SINGAJI-JULWANIA-1	13/Dec/22	8:00	13/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
D- 220 KV TRANSFORMERS								
1	220	160MVA CGL TRANSFORMER AT 220KV S/S NIMRANI	07/Dec/22	9:00	07/Dec/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
E- 220 KV FEEDER & BAYS								
1	220	220KV-GWALIOR-GWALIOR-II-1	05/Dec/22	9:00	05/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	220	220KV-GWALIOR-GWALIOR-II-2	06/Dec/22	9:00	06/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
3	220	220KV-MALANPUR-MORENA-MP-1	13/Dec/22	10:00	13/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
4	220	220KV-MALANPUR-MORENA-MP-2	14/Dec/22	10:00	14/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	220	220KV-MAHALGAON-MP-DATIA-MP-1	13/Dec/22	9:00	13/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	220	220KV-MAHALGAON-MP-DATIA-MP-2	15/Dec/22	9:00	15/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	220	220KV-DATIA-MP-BINA-MP	20/Dec/22	9:00	20/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	220	220KV-DATIA-MP-PICHHORE-MP	22/Dec/22	9:00	22/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
9	220	220KV-BARWAHA-MP-HANDIA-MP	05/Dec/22	9:00	05/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 220KV S/S BARWAHA
10	220	220KV-NAGDA-MP-DALODA-MP	13/Dec/22	9:00	13/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
11	220	220KV MAIN BUS-I AT 400KV S/S BADNARWAR	26/Dec/22	9:00	26/Dec/22	18:00	DAILY	FOR MAINTENANCE WORK
12	220	220KV-DAMOH-SAGAR-1	23/Dec/22	9:00	23/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
13	220	220KV-DAMOH-SAGAR-2	26/Dec/22	9:00	26/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
14	220	220KV-DAMOH-DAMOH-MP-1	28/Dec/22	9:00	28/Dec/22	18:00	DAILY	FOR MAINTENANCE WORK
15	220	220KV-DAMOH-DAMOH-MP-2	30/Dec/22	9:00	30/Dec/22	18:00	DAILY	FOR MAINTENANCE WORK
16	220	220KV-INDORE-MP-PITHAMPUR-MP	01/Dec/22	9:00	01/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
17	220	220KV-INDORE-MP-BADNAGAR-MP	02/Dec/22	9:00	02/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
18	220	220KV-INDORE-MP-DEWAS-MP	05/Dec/22	9:00	05/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
19	220	220KV-INDORE-MP-JETPURA-MP	06/Dec/22	9:00	06/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
20	220	220KV-INDORE-MP-MANGLIYA	07/Dec/22	9:00	07/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
21	220	220KV-INDORE-MP-BARWAHA-I	08/Dec/22	9:00	08/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
22	220	220KV-INDORE-MP-BARWAHA-II	09/Dec/22	9:00	09/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
23	220	220KV-INDORE-MP-INDORE-EAST	12/Dec/22	9:00	12/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
24	220	220KV-SATNA-CHHATTARPUR-1	01/Dec/22	10:00	01/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
25	220	220KV-SATNA-CHHATTARPUR-1	21/Dec/22	10:00	21/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
26	220	220KV-SATNA-MP-SATNA-1	03/Dec/22	10:00	03/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
27	220	220KV-SATNA-MP-SATNA-2	05/Dec/22	10:00	05/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
28	220	220KV-SATNA-MP-SATNA-3	07/Dec/22	10:00	07/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
29	220	220KV-SEONI-PG-CHINDWARA-1	26/Dec/22	9:00	26/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
30	220	220KV-SEONI-PG-CHINDWARA-2	14/Dec/22	9:00	14/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
31	220	220KV-SEONI-MP-SEONI-PG-1	29/Dec/22	9:00	29/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
32	200	220KV-INDORE-INDORE (NORTH)-MP-1	27/Dec/22	8:00	27/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
33	200	220KV-INDORE-INDORE (NORTH)-MP-2	28/Dec/22	8:00	28/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
F- 132 KV FEEDER & BAYS								

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/ Continue)	Reason
			Date	Time	Date	Time		
1	132	132KV-KIRNAPUR-DONGARGARH-1	12-Dec-22	9:00	12-Dec-22	18:00	DAILY	FOR LINE MAINTENANCE WORK

ANNEXURE 3.2

PROPOSED SHUTDOWN OF TRANSMISSION ELEMENTS FOR THE PERIOD 01-12-2022 TO 31-12-2022 TO BE APPROVED IN OCEN

Sr. No.	Request Type	OCEN Number	Name of Requesting Agency	Element Name	Only / Continue	Reason	From Date	To Date	To Time
A. 400 KV TRANSMISSIONS									
1	PLANNED	OCEN	NP_S&C	ROHILWADI-KANAKPUR-CT-1	D	FOR THE REGULAR MAINTENANCE AND TESTING WORK	19-Dec-22	00	19-Dec-22 17:00
2	PLANNED	OCEN	NP_S&C	ROHILWADI-KANAKPUR-CT-2	D	FOR THE REGULAR MAINTENANCE AND TESTING WORK	20-Dec-22	00	20-Dec-22 17:00
B. 220 KV FEEDER									
1	PLANNED	OCEN	NP_S&C	WOPAL-HP-ADWV-R/R-1	D	FOR WELDING WORK OF NEW BUS BAR ELEMENT AT ADWV I/C BRANCH	19-Dec-22	00:00	19-Dec-22 17:00
2	PLANNED	OCEN	NP_S&C	WOPAL-HP-ADWV-R/R-1	D	FOR WELDING WORK OF NEW BUS BAR ELEMENT AT ADWV I/C BRANCH	20-Dec-22	00:00	20-Dec-22 17:00
3	PLANNED	OCEN	NP_S&C	WOPAL-HP-ADWV-R/R-2	D	FOR WELDING WORK OF NEW BUS BAR ELEMENT AT ADWV I/C BRANCH	21-Dec-22	00:00	21-Dec-22 17:00
4	PLANNED	OCEN	NP_S&C	WOPAL-HP-ADWV-R/R-2	D	FOR WELDING WORK OF NEW BUS BAR ELEMENT AT ADWV I/C BRANCH	22-Dec-22	00:00	22-Dec-22 17:00
C. 110 KV FEEDER & BAYS									
1	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	19-Dec-22	00:00	19-Dec-22 17:00
2	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	20-Dec-22	00:00	20-Dec-22 17:00
3	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-2	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	05-Dec-22	00:00	05-Dec-22 17:00
4	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-2	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	12/02/2022	00:00	12/02/2022 18:00
5	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR REPLACEMENT OF SINGLE ROW FITTING INTO DOUBLE ROW FITTING	05/04/22	00:00	05/04/22 18:00
6	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-2	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	09-Dec-22	00:00	09-Dec-22 17:00
7	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-2	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	06/04/22	00:00	06/04/22 18:00
8	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-CT/BR-1	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	07-Dec-22	00:00	07-Dec-22 17:00
9	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-CT/BR-1	D	FOR REPLACEMENT OF SINGLE ROW FITTING INTO DOUBLE ROW FITTING	07/04/22	00:00	07/04/22 18:00
10	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	07/04/22	00:00	07/04/22 18:00
11	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-CT/BR-1	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	08-Dec-22	00:00	08-Dec-22 17:00
12	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	08-Dec-22	00:00	08-Dec-22 18:00
13	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	08/04/22	00:00	08/04/22 18:00
14	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	08/04/22	00:00	08/04/22 18:00
15	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	08/04/22	00:00	08/04/22 18:00
16	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	12/02/2022	10:00	12/02/2022 18:00
17	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR REPLACEMENT OF SINGLE ROW FITTING INTO DOUBLE ROW FITTING	12/02/2022	00:00	12/02/2022 18:00
18	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	09/04/22	00:00	09/04/22 18:00
19	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-CT/BR-2	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	12-Dec-22	00:00	12-Dec-22 17:00
20	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-CT/BR-2	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	12/12/2022	10:00	12/12/2022 18:00
21	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	12-Dec-22	00:00	12-Dec-22 18:00
22	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-CT/BR-2	D	FOR LINE MAINTENANCE WORK	12/04/22	00:00	12/04/22 18:00
23	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-CT/BR-2	D	FOR WELDING WORK OF NEW BUS BAR AT ADWV I/C BRANCH	13-Dec-22	00:00	13-Dec-22 17:00
24	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	13/04/22	00:00	13/04/22 18:00
25	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR PANEL REPLACEMENT	14-Dec-22	00:00	14-Dec-22 17:00
26	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	14/04/22	00:00	14/04/22 18:00
27	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR PANEL REPLACEMENT	15-Dec-22	00:00	15-Dec-22 17:00
28	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	14/04/22	00:00	14/04/22 18:00
29	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 17:00
30	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
31	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
32	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
33	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
34	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
35	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
36	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
37	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
38	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	15-Dec-22	00:00	15-Dec-22 18:00
D. 110 KV FEEDER									
1	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	01/04/22	00:00	01/04/22 18:00
2	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	02-Dec-22	00:00	02-Dec-22 17:00
3	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	02-Dec-22	00:00	02-Dec-22 18:00
4	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	05-Dec-22	00:00	05-Dec-22 18:00
5	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	05-Dec-22	00:00	05-Dec-22 17:00
6	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	05-Dec-22	00:00	05-Dec-22 17:00
7	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	05/04/22	00:00	05/04/22 17:00
8	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	05/04/22	00:00	05/04/22 18:00
9	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	06/04/22	00:00	06/04/22 18:00
10	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	07-Dec-22	00:00	07-Dec-22 17:00
11	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	08-Dec-22	00:00	08-Dec-22 17:00
12	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK	09-Dec-22	10:00	09-Dec-22 17:00
13	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	12/04/22	00:00	12/04/22 17:00
14	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	14/04/22	00:00	14/04/22 17:00
15	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	16/04/22	00:00	16/04/22 18:00
16	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	19-Dec-22	00:00	19-Dec-22 17:00
17	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	19/04/22	00:00	19/04/22 18:00
18	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	20-Dec-22	00:00	20-Dec-22 18:00
19	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	20/04/22	00:00	20/04/22 18:00
20	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	21-Dec-22	00:00	21-Dec-22 17:00
21	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	21/04/22	00:00	21/04/22 18:00
22	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	22/04/22	00:00	22/04/22 17:00
23	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	22/04/22	10:00	22/04/22 17:00
24	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	22/04/22	00:00	22/04/22 18:00
25	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	27/04/22	00:00	27/04/22 18:00
26	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	27/04/22	10:00	27/04/22 17:00
27	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	28/04/22	00:00	28/04/22 18:00
28	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	30/04/22	00:00	30/04/22 18:00
29	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	30/04/22	00:00	30/04/22 18:00
30	PLANNED	OCEN	NP_S&C	ROHILWADI-HP-BRANCH-BR/CT-1	D	FOR LINE MAINTENANCE WORK	31/04/22	00:00	31/04/22 18:00
E. 110 KV FEEDER & BAYS									

Seq. No.	Request Type	OCCM Number	Name of Requesting Agency	Element Name	Daily / Continual work	Reason	From Date	From Time	To Date	To Time
1	PLANNED	OCC	MP_SDC	1220V SHEETPIPER REPAIRING-2	D	FOR LINE MAINTENANCE WORK	16-Dec-22	9:00	16-Dec-22	17:00

PROPOSED SHUTDOWN OF TRANSMISSION ELEMENTS (INTERNAL) FOR THE PERIOD 01-12-2022 TO 31-12-2022 TO BE APPROVED BY SLDC								
Sr-No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/Continue)	Reason
			Date	Time	Date	Time		
A- 400 KV TRANSFORMERS								
1	400	400KV/220KV UJJAIN-ICT-1	16-Dec-22	10:00	16-Dec-22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
2	400	400KV/220KV UJJAIN-ICT-2	19-Dec-22	10:00	19-Dec-22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
B- 400 KV REACTORS								
1	400	UJJAIN - 400KV B/R 1	14-Dec-22	10:00	14-Dec-22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
C- 400 KV FEEDER & BAYS								
1	400	400KV MAIN BUS-II AT 400KV S/S INDORE	05/Dec/22	9:00	07/Dec/22	18:00	CONTINUE	FOR REPLACEMENT OF PG ISOLATOR OF 400 KV BUS COUPLER
2	400	400KV MAIN BUS-I AT 400KV S/S UJJAIN	01/Dec/22	10:00	01/Dec/22	18:00	DAILY	FOR MAINTENANCE AND TESTING WORK
3	400	400KV MAIN BUS-II AT 400KV S/S UJJAIN	02/Dec/22	10:00	02/Dec/22	18:00	DAILY	FOR MAINTENANCE AND TESTING WORK
4	400	400KV UJJAIN-ASHTA-I	05/Dec/22	10:00	05/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	400	400KV UJJAIN-ASHTA-II	06/Dec/22	10:00	06/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	400	400KV NAGDA-UJJAIN-I	07/Dec/22	10:00	07/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	400	400KV NAGDA-UJJAIN-II	08/Dec/22	10:00	08/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	400	400KV BUS COUPLER AT 400KV S/S UJJAIN	21/Dec/22	10:00	21/Dec/22	18:00	DAILY	FOR MONSOON MAINTENANCE AND TESTING WORK
9	400	400KV-BIRSINGPUR-MP-KATNI-MP-1	14/Dec/22	9:00	14/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
10	400	400KV-BIRSINGPUR-MP-KATNI-MP-2	16/Dec/22	9:00	16/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
11	400	400KV-SINGAJI-JULWANIA-1	13/Dec/22	8:00	13/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
D- 220 KV TRANSFORMERS								
1	220	160MVA CGL TRANSFORMER AT 220KV S/S NIMRANI	07/Dec/22	9:00	07/Dec/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
E- 220 KV FEEDER & BAYS								
1	220	220KV-GWALIOR-GWALIOR-II-1	05/Dec/22	9:00	05/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	220	220KV-GWALIOR-GWALIOR-II-2	06/Dec/22	9:00	06/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
3	220	220KV-MALANPUR-MORENA-MP-1	13/Dec/22	10:00	13/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
4	220	220KV-MALANPUR-MORENA-MP-2	14/Dec/22	10:00	14/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	220	220KV-MAHALGAON-MP-DATIA-MP-1	13/Dec/22	9:00	13/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	220	220KV-MAHALGAON-MP-DATIA-MP-2	15/Dec/22	9:00	15/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	220	220KV-DATIA-MP-BINA-MP	20/Dec/22	9:00	20/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	220	220KV-DATIA-MP-PICHHORE-MP	22/Dec/22	9:00	22/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
9	220	220KV-BARWAHA-MP-HANDIA-MP	05/Dec/22	9:00	05/Dec/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 220KV S/S BARWAHA
10	220	220KV-NAGDA-MP-DALODA-MP	13/Dec/22	9:00	13/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
11	220	220KV MAIN BUS-I AT 400KV S/S BADNARWAR	26/Dec/22	9:00	26/Dec/22	18:00	DAILY	FOR MAINTENANCE WORK
12	220	220KV-DAMOH-SAGAR-1	23/Dec/22	9:00	23/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
13	220	220KV-DAMOH-SAGAR-2	26/Dec/22	9:00	26/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
14	220	220KV-DAMOH-DAMOH-MP-1	28/Dec/22	9:00	28/Dec/22	18:00	DAILY	FOR MAINTENANCE WORK
15	220	220KV-DAMOH-DAMOH-MP-2	30/Dec/22	9:00	30/Dec/22	18:00	DAILY	FOR MAINTENANCE WORK
16	220	220KV-INDORE-MP-PITHAMPUR-MP	01/Dec/22	9:00	01/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
17	220	220KV-INDORE-MP-BADNAGAR-MP	02/Dec/22	9:00	02/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
18	220	220KV-INDORE-MP-DEWAS-MP	05/Dec/22	9:00	05/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
19	220	220KV-INDORE-MP-JETPURA-MP	06/Dec/22	9:00	06/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
20	220	220KV-INDORE-MP-MANGLIYA	07/Dec/22	9:00	07/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
21	220	220KV-INDORE-MP-BARWAHA-I	08/Dec/22	9:00	08/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
22	220	220KV-INDORE-MP-BARWAHA-II	09/Dec/22	9:00	09/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
23	220	220KV-INDORE-MP-INDORE-EAST	12/Dec/22	9:00	12/Dec/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S INDORE
24	220	220KV-SATNA-CHHATTARPUR-1	01/Dec/22	10:00	01/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
25	220	220KV-SATNA-CHHATTARPUR-1	21/Dec/22	10:00	21/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
26	220	220KV-SATNA-MP-SATNA-1	03/Dec/22	10:00	03/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
27	220	220KV-SATNA-MP-SATNA-2	05/Dec/22	10:00	05/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
28	220	220KV-SATNA-MP-SATNA-3	07/Dec/22	10:00	07/Dec/22	17:00	DAILY	FOR LINE MAINTENANCE WORK
29	220	220KV-SEONI-PG-CHINDWARA-1	26/Dec/22	9:00	26/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
30	220	220KV-SEONI-PG-CHINDWARA-2	14/Dec/22	9:00	14/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
31	220	220KV-SEONI-MP-SEONI-PG-1	29/Dec/22	9:00	29/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
32	200	220KV-INDORE-INDORE (NORTH)-MP-1	27/Dec/22	8:00	27/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
33	200	220KV-INDORE-INDORE (NORTH)-MP-2	28/Dec/22	8:00	28/Dec/22	18:00	DAILY	FOR LINE MAINTENANCE WORK
F- 132 KV FEEDER & BAYS								

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/ Continue)	Reason
			Date	Time	Date	Time		
1	132	132KV-KIRNAPUR-DONGARGARH-1	12-Dec-22	9:00	12-Dec-22	18:00	DAILY	FOR LINE MAINTENANCE WORK



दक्षिण पूर्व मध्य रेलवे
South East Central Railway
 कार्यालय - मण्डल विद्युत अभियंता (क.वि.) शहडोल, बिलासपुर मंडल
 Office of Divisional Electrical Engineer (TRD) Shahdol, Bilaspur Division



No: TRD/SDL/T-08/APR-TSS/...146

Date: 18/07/2022

To,
 ✓ The Sr.DEE/TrD/BSP,
 S.E.C. Railway.

Sub: - Regarding non-charging of Railway Traction Circuit-1 of 220KV ATPS for APR/TSS.

Ref: - PCEE/WCR/JBP's letter no. WCR/L/03/7556/, dtd. 06.06.2022.

In reference to the above, the cause of non-charging of 220KV Railway Traction Circuit-1 of ATPS at APR/TSS are given below: -

Anuppur traction sub-station was commissioned on 01.9.1994 with two 54MVA, 220 kv/2X25kv power transformers of KONCAR make bearing srl. no. 318121 and 318122 and one of them having bearing srl. no.318122 was failed on 02.07.98 on account of failure of one limb of 25KV main windings which was fed from Railway Traction Circuit-1. In meanwhile, one GEC Alstom (India) make, srl. no. B-29365 transformer of similar capacity was commissioned at APR/TSS on 07.08.1999 which is also fed through Circuit-1. This transformer was failed on 08.09.99 due to bursting of one 25KV bushing and re-commissioned on 25.10.1999 after replacing the bushing. Again, on date 09.09.2000, 04 more 25 KV bushings was failed and the transformer was re-commissioned on 11.10.2000 through Circuit-1. Finally, this transformer has become non-functional on 02.10.2001 due to failure of HV and LV windings. The 54MVA,220KV/2x25KV Power transformer bearing srl. no.318122 was repaired and re-commissioned on 17.09.2005 through circuit-1. This transformer has again failed on 25.10.2005 giving rise to uprooting of all 220KV and 25KV bushings and LV limb found failed, which was also fed from Railway Traction Circuit-1. Further, same was repaired & re-commissioned on 12.12.2011 and 220KV incoming feeding arrangement permanently changed to Railway Traction Circuit-2 for both the power transformers. Presently both the power transformers charged through Circuit-2 and no failure occurred since 12.12.2011 to till date.

In view of the above, it is suspected that high voltage impulse is generated in transmission line of 220KV Circuit-1 for APR/TSS, which is the cause of frequent failure of power transformers. As such, 220KV Transmission line is required to be tested in all respect and analysis of testing report for identify the root of frequent failure of Transformer at APR/TSS to enable further energization of Transformer through Circuit-1. It is also requested to advise SEB authority to take necessary EIG sanction of aforesaid Transmission line before charging.

This is for your kind information please.

(Durgesh Maneshwar)

म.वि. अभि. (क.वि.)
 दक्षिण पूर्व मध्य रेलवे

Div Elect Engr (OP&TRD)
 SEC Rly Shahdol

पश्चिम मध्य रेल
West Central Railway



महाप्रबंधक कार्यालय, विद्युत विभाग,
जबलपुर-482 001
General Manager's Office
Electrical Branch,
Jabalpur- 482 001

No.WCR/L/03/7556/

Date: 06.06.2022

Sr.DEE/Tr.D/ BSP

Sub: Non-Charging of Railway Traction Circuit -1 of 220 KV ATPS.

Ref: Agenda Item of OCC meeting of MP.

Vide various Operation and Coordination Committee (OCC) Meetings, organised by SLDC, Jabalpur, issue of non charging of Railway Traction Circuit-1 of 220 kV Amarkantak Thermal Power Station (ATPS) has been raised by SLDC. It has been intimated by MPPGCL that line is ready for charging from ATPS end. However the line cannot be charged from Railway end due to some problem. SLDC has requested to provide the reason for not charging the line and its updated status.

In view of above, it is requested to furnish the detailed reasons for not charging the aforesaid line from Railway end along with current status. **Also it has been intimated by SLDC, Jabalpur that before charging the line, approval of Electrical Inspector may be taken.**

DA: Agenda item of 82nd OCC meeting

Sanjay Singh 6/6/22

(Sanjay Singh)
EEE/Tr.D/HQ
for PCEE/WCR/JBP

CI- CEDE/SECR -for kind information with request to issue instruction to division.

SE (Opn)

AB (Shikhar Sharma)

fi

Q

Unitwise / Stationwise Genration in MU						
A. Thermal			Ann 4.1			
Stn. Name	UNIT No.	Capacity MW	Sep-22	Oct-22	Nov-22	Dec-22
AMARKA	5	210	0.00	47.80	150.82	153.50
	PH III	210	0.00	47.80	150.82	153.50
	TOT	210	0.00	47.80	150.82	153.50
SATPURA	6	200	0.00	0.00	0.00	0.00
	7	210	0.00	0.00	0.00	0.00
	PH II	410	0.00	0.00	0.00	0.00
	8	210	0.00	0.00	0.00	0.00
	9	210	0.00	0.00	0.00	0.00
	PH III	420	0.00	0.00	0.00	0.00
	10	250	0.00	93.61	180.28	185.46
	11	250	166.44	171.84	180.51	185.47
	PH IV	500	166.44	265.45	360.79	370.93
	TOT	1330	166.44	265.45	360.79	370.93
SANJAY GANDHI	1	210	72.20	113.29	75.78	105.00
	2	210	15.85	91.50	100.43	109.87
	PH I	420	88.04	204.79	176.20	214.86
	3	210	123.36	122.09	127.58	118.62
	4	210	123.81	126.56	129.25	130.63
	PH II	420	247.17	248.66	256.83	249.25
	5	500	322.57	288.38	347.91	319.54
	PH III	500	322.57	288.38	347.91	319.54
	TOT	1340	657.78	741.82	780.95	783.65
SSTPS	1	600	245.40	221.70	331.80	358.80
	2	600	160.65	281.70	288.84	335.45
	PH1	1200	406.05	503.40	620.64	694.25
	3	660	0.00	0.00	211.62	401.49
	4	660	301.71	269.00	341.25	353.48
	PH II	1320	301.71	269.00	552.87	754.97
	TOT	2520	707.76	772.40	1173.51	1449.22
MPPGCL THERMAL		5400	1531.98	1827.46	2466.07	2757.30
B. Hydel						
Station Name	Capacity MW	Sep-22	Oct-22	Nov-22	Dec-22	
GANDHISAGAR	115.0	34.86	29.03	33.21	40.19	
R.P.SAGAR	172.0	26.71	34.17	57.89	61.06	
J.SAGAR	99.0	20.78	25.36	41.95	43.84	
CHAMBAL	386.0	82.35	88.57	133.04	145.10	
M.P.CHAMBAL	193.0	41.17	44.28	66.52	72.55	
PENCH	160.0	47.07	56.45	37.89	19.01	
M.P.PENCH	107.0	31.38	37.64	25.26	12.67	
BARGI	90.0	60.72	63.91	39.05	10.42	
TONS	315.0	65.75	72.89	68.34	69.75	
BIRSINGHPUR	20.0	15.10	8.15	1.32	0.42	
B.SGR(DEOLONDH)	60.0	8.63	26.21	0.00	0.00	
B.SGR(SILPARA)	30.0	4.04	10.59	8.38	8.58	
RAJGHAT	45.0	21.73	20.26	0.00	8.41	
M.P.RAJGHAT	22.5	12.97	12.09	0.00	5.02	
B.SGR(JINHA)	20.0	8.39	12.21	10.81	15.09	
MADIKHEDA	60.0	35.53	20.49	4.11	20.22	
TOTAL HYDEL	1186.0	349.32	379.73	302.95	296.99	
MPPGCL Hydel	915.0	301.83	320.19	203.12	192.09	
MPSEB HYDEL Share	917.5	283.69	308.46	223.80	214.72	
C. NHDC (Ex-Bus)						
Station Name	Capacity MW	Sep-22	Oct-22	Nov-22	Dec-22	
Indira Sagar Hydel Project	1000	765.19	507.80	162.92	169.52	
Omkareshwar Hydel Project	520	376.11	262.69	74.32	72.12	

[illegible]

ENERGY BALANCE SHEET
Year : 2022 -23

S.No.	Source	All Figures in Million Unit									
		Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
		30	31	30	31	31	30	31	30	31	275
A. M.P. Availability											
1	Thermal	2279.85	2366.07	2317.57	2026.72	1519.34	1438.42	1706.87	2315.44	2588.24	18558.83
2	Hydel	116.89	114.24	108.09	210.17	256.70	297.40	307.07	222.95	214.23	1860.75
3	Total	2396.74	2499.31	2425.66	2236.89	1776.04	1735.82	2013.94	2538.39	2802.47	20419.58
B. Exchange with other States / Systems											
1	Indira Sagar	173.87	66.58	62.96	375.89	671.08	759.01	502.58	160.77	167.03	2939.74
2	Omkareswar	93.40	31.92	30.99	205.11	297.58	376.11	262.69	74.32	72.12	1444.28
3	MPPMCL Schedule from Central Sector of WR	3415.36	2471.73	2252.13	2262.42	2284.25	2261.88	1774.66	2722.02	3771.40	21236.65
4	MPPMCL Schedule from Central Sector- ER	43.75	42.24	35.39	29.03	28.24	25.99	10.01	48.18	25.20	288.02
5	Total MPPMCL Schedule from Central Sector (WR+ER)	2459.10	2513.97	2288.13	2311.45	2312.69	2287.87	1784.68	2770.20	3796.60	21524.67
6	Deviation Energy of (WR+ER)	45.61	24.61	-77.92	-89.58	-89.12	-42.51	-105.41	-73.51	-82.28	-620.10
7	NET NR EGS POWER SCH to MP	86.63	204.15	185.20	184.14	177.28	182.67	126.69	235.21	235.36	1625.60
8	RUMS SOLAR REDWA (Scheduled Energy)	114.87	104.57	89.02	82.70	74.68	81.62	99.30	92.16	100.17	639.09
9	Schedule REMC (Wind) WISL (Kutch Gujarat)+ASPL Wind	7.82	10.51	8.65	2.11	0.00	0.00	0.00	3.61	4.35	38.04
10	Azure - Solar Power Rajasthan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Schedule From Sugan	12.90	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	13.15
12	LANCO Amk	120.99	122.03	110.10	111.49	111.60	106.93	93.15	114.45	126.41	1017.15
13	SASAN	956.14	1013.34	959.61	940.55	815.14	801.30	816.07	788.46	843.41	7934.02
14	ESSAR (STOA against LTA)	21.79	23.08	16.57	5.46	-4.13	13.49	6.50	8.04	4.42	103.50
15	J.P. Nagar	275.98	341.43	324.91	332.61	330.38	299.86	319.33	272.17	306.14	2004.75
16	MB Power	266.05	240.09	233.96	230.17	217.23	212.63	159.14	269.41	251.81	2095.87
17	UHAUBA Power	119.92	112.04	103.09	95.05	85.95	90.85	88.53	123.29	118.29	936.82
18	Other Open Access Schedule other than MPPMCL Incl. Sedi	-153.37	-183.76	-208.26	-191.68	-175.07	-161.04	-180.86	-117.20	-194.05	-1565.29
21	Schedule from Sardar Sarovar	55.21	58.97	87.14	210.95	566.02	585.99	487.09	123.68	105.89	2260.85
22	SCH to Railway from RGSPL, cold	236.10	253.84	248.97	258.25	260.81	254.71	264.11	236.37	272.21	2235.18
23	Schedule from SEZ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Schedule from Rihand+Matalia	4.51	4.20	5.58	2.56	0.00	9.00	9.51	2.44	13.22	60.03
25	MTCA / STOA FROM RAJASTHAN	41.76	43.15	41.76	43.15	43.15	41.76	43.15	41.76	43.15	382.80
26	Additional Power Purchase	78.57	79.85	48.56	33.39	21.71	18.63	9.50	59.39	51.70	398.33
29	Energy Exchange	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	Banking of Energy	-350.77	-458.78	-567.60	-945.48	-1203.41	-1246.58	-80.90	686.10	1085.28	-3082.14
31	Sale of Power	-81.44	-177.45	-154.59	-474.83	-632.03	-544.88	-265.89	-81.79	-116.89	-3625.36
32	Total MP Schedule (Including Railway)	4744.84	4306.15	3451.83	3018.06	3013.33	3044.86	3069.69	3617.48	4040.49	35520.89
33	Total MP Drawal (Including Railway)	4320.66	4329.86	3363.91	2928.48	2930.22	2982.35	2983.67	5544.67	8957.18	35300.69
34	Wheeled Energy of Tawa HEG	3.80	0.12	0.00	5.39	10.49	11.35	8.44	6.16	9.36	67.11
35	Wheeled Energy of Wind Farm	53.92	75.50	73.69	71.65	47.93	59.35	43.11	32.77	55.79	513.32
36	Wheeled Energy of Solar Plant	111.83	111.68	84.91	70.75	60.04	61.11	165.39	121.23	91.86	901.26
37	Wheeled Energy of Bio-Mass + Bagasse	16.95	5.29	0.21	0.00	0.00	0.00	0.00	3.39	21.72	47.26
38	Wheeled Energy of Ascent Hydro + SAS Hydel Hata	1.15	1.40	1.33	5.68	10.83	19.64	17.57	12.01	18.20	87.81
39	Export to MSEB (Nasa-Chennai) Wheeling	-18.53	-13.88	-7.27	-5.61	-5.69	-5.19	-5.70	-13.00	-15.92	-90.76
40	Deviation Energy of MPPGCL Thermal	-4.32	-6.34	-18.68	-18.92	-18.90	-27.99	-22.05	-20.38	-15.71	-173.39
41	Energy Purchased by MP from Wind Farm	416.12	632.93	518.97	352.37	384.14	304.41	193.87	105.95	205.63	3114.39
42	Energy Purchased by MP from Solar Plant	161.41	159.67	135.41	92.63	96.91	114.52	136.11	132.54	128.70	1167.80
43	Firm / Infirm Energy of HEG Mandla+Hindalco+HEG Tawa +Tomsila Ind. purchase by MP +Wheeled enrgy of CPV / JBP	81.09	81.24	105.99	90.19	99.47	109.79	126.15	59.20	102.50	850.63
44	Purchased from ASN Biomass Kalbi + RDM Care Ind. Biogas Parjati + Pragas Energy Pvt. Ltd. Biogas Richhai + Arya Energy Kotma + Orient Green Power Limited, Gadawara Bio-Mass+Shailwaha (CHH+Unnatya) + JBP MSW	3.50	7.76	3.50	3.03	4.71	2.10	3.42	2.90	5.49	36.42
45	Deviation Energy of ISP	6.89	1.81	1.90	1.91	6.76	6.18	5.24	2.16	2.50	35.34
46	Schedule Energy of SJA Power against LTOA	6.20	2.89	4.65	1.34	5.49	4.56	2.42	8.33	10.23	47.88
47	Schedule Energy of JP BINA Power against LTOA	196.56	165.84	165.50	121.33	121.46	108.97	46.35	107.16	155.24	1188.22
48	Import from bang Left Bank Canal Power House + ISP NVDA	1.12	2.21	-0.01	0.23	1.86	1.01	0.65	-0.01	-0.01	7.04
49	Chambal Complex Excess / Less Overshare by MP	-0.96	-22.32	2.97	-6.45	11.56	18.21	-15.79	7.70	9.88	1.75
50	Rajshil Hydel Power Station Excess / Less Overshare by MP	9.23	14.79	0.28	0.74	0.08	0.00	-0.59	0.05	0.20	4.97
51	State Supply (Ex-Power sin. Bus)	8025.84	8118.67	6926.59	6529.24	6521.09	6660.33	6452.87	8061.19	9784.49	67881.11
52	AVERAGE DAILY (ExBus)	267.53	261.89	230.89	210.62	210.38	222.91	208.16	295.37	315.63	246.84
53	MINIMUM DAILY (MP Periphery)	248.84	211.94	186.62	195.80	152.83	167.74	180.00	239.03	0.00	0.00
54	MAXIMUM DAILY (MP Periphery)	275.20	273.72	258.32	222.78	235.33	241.35	235.09	304.93	0.00	304.93
55	State Supply (Ex-Power sin. Bus)- YEAR : 2021-22	7099.70	6482.29	6908.59	6782.18	6484.43	6418.35	6746.04	7927.48	8714.97	62543.80
56	Year (22-23)(21-22)(100Year (21-22))	14.49	25.24	16.83	3.73	3.77	4.38	11.77	11.76	8.83	
57	Unshedule L&S - Year-2022-23	212.88	92.58	0.00	0.00	1.47	0.00	0.00	0.00	0.00	306.93
58	Frequency Correction	15.14	4.61	5.78	3.70	3.93	3.05	2.16	3.97	8.47	90.61
59	Restricted Requirement - Year-2022-23	8293.86	8216.86	6932.36	6532.94	6527.29	6663.38	6455.03	8865.16	9792.97	68238.85
60	Schedule L&S - Year-2022-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	Un-Restricted Requirement - Year-2022-23	8293.86	8216.86	6932.36	6532.94	6527.29	6663.38	6455.03	8865.16	9792.97	68238.85

ENERGY BALANCE SHEET : Demand & Supply Hours

Year : 2022 -23

S.NO	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Yr 20-21
G. MORNING PEAK (MAX)										
1	DEMAND MET	12207	11839	11046	8947	10478	10670	11531	15683	0
2	LOAD RELIEF	0	0	0	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	0	0	0	0	0
D. EVENING PEAK (MAX)										
1	DEMAND MET	11576	11607	11211	10055	10787	10606	10947	13801	0
2	LOAD RELIEF	0	0	0	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	0	0	0	0	0
F. REGISTERED MAXIMUM										
1	REGISTERED MAXIMUM	12596	12392	11343	10055	10787	10815	11531	15680	0
G. COMPUTED MAXIMUM DEMAND										
1	COMPUTED MAXIMUM DEMAND	12596	12392	11294	10061	10797	10815	11531	15680	0
H. UNRESTRICTED MAXIMUM DEMAND										
1	UNRESTRICTED MAXIMUM DEMAND	12596	12391	11386	10061	10787	10815	11531	15680	0
I. Average Power Supply per day to										
1	Div. Head Quarters	23.50	23.44	23.44	23.46	23.47	23.47	23.52	23.55	0.00
2	Distrit Head Quarters	23.51	23.45	23.48	23.48	23.47	23.46	23.49	23.52	0.00
3	Tahsil Head Quarters	23.44	23.36	23.36	23.36	23.38	23.34	23.43	23.45	0.00
4	Rural -Mixed	22.48	22.52	23.05	22.58	23.01	23.91	23.23	23.22	0.00
5	Rural -DLF	22.51	22.57	23.12	23.08	23.11	23.11	23.27	23.28	0.00
6	Rural -Irrigation	9.22	9.31	9.38	9.34	9.35	9.37	9.43	9.48	0.00
7	LOAD FACTOR %	88.57	88.06	84.81	87.25	81.28	85.53	75.22	77.50	#DIV/0!

FREQUENCY ANALYSIS YEAR 2022-23

S.N.	PARTICULARS	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Yr 20-21
A. INTEGRATED FREQUENCY											
1	MAXIMUM	50.10	50.27	50.21	50.18	50.25	0.00	50.20	50.20	0.00	50.27
2	MINIMUM	49.60	49.77	49.72	49.67	49.72	0.00	49.63	49.63	0.00	0.00
B. INSTANTANEOUS FREQUENCY											
1	MAXIMUM	50.27	50.35	50.38	50.30	50.31	50.31	50.40	50.27	0.00	50.40
2	MINIMUM	49.44	49.50	49.48	49.42	49.47	49.50	49.53	49.43	0.00	0.00
C. AVG. FREQUENCY											
1	MAXIMUM	49.94	50.00	49.98	50.00	50.00	50.00	50.00	50.00	0.00	44.44
D. % TIME WHEN FREQUENCY WAS											
1	ABOVE 51.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	50.95 TO 51.5 Hz	12.08	17.94	14.17	18.72	15.45	13.29	16.10	16.12	0.00	13.77
3	49.9 TO 50.95 Hz	73.42	72.23	73.38	73.46	75.78	80.76	78.00	77.20	0.00	69.00
4	49.7 TO 49.9 Hz	14.50	8.83	12.45	7.82	8.77	5.95	6.00	6.68	0.00	7.91
5	49.5 TO 49.7 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	49.2 TO 49.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	49.0 TO 49.2 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	48.5 TO 48.9 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0	BELOW 48.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month : September 2022

FIGURES IN MW																																								
Own Generation															Schedule from															Load Shedding										
Hrs.	FREQ	Ther Net Avail	Ther East Avail	HYD	ISP	Total IPPs repts in	Total CPPs repts in	Total	CSS	Net NE to MP	Suban	Lanco	Sasan	Essar	JP Ngr	RMS (SCAR) REGIA TO MTHU CL	MB Power (MW)	Jhabua (Power)	SSP	SCH to Rate BY	BEZ	Banking	Sale	Pur	STDA	Rham a-Ma gilla- Right at	MTDA/STOA FROM RAJAS THAN	Total	Tot Avl.	Act. Drl	Devia. to MS	DEMAND D MET	SCH	UN SCH	TOTAL	REST. DEMAND	UNREST. DEMAND	DEMAND MET		
1:00	50.00	2171	2036	392	1064	531	316	535	4874	3349	54	0	139	1084	19	408	0	314	140	784	323	0	-2240	-255	30	-142	0	56	4066	8940	4009	-57	-8	8875	0	0	0	8879	8879	8875
2:00	50.00	2148	2015	391	1068	532	315	550	4872	3230	47	0	142	1084	18	403	0	301	125	840	350	0	-2240	-276	29	-152	0	56	3957	8829	3805	-152	-8	8869	0	0	0	8873	8873	8869
3:00	50.00	2132	2000	391	1062	530	316	554	4852	3182	45	0	144	1088	18	405	0	276	120	967	350	0	-2240	-278	21	-166	0	56	3888	8741	3818	-70	-8	8863	0	0	0	8866	8866	8863
4:00	50.02	2121	1989	391	1068	530	310	539	4827	3135	41	0	144	1088	18	408	0	276	120	969	340	0	-2240	-305	28	-167	0	56	3810	8638	3788	-22	-8	8808	0	0	0	8810	8810	8808
5:00	50.00	2132	2000	391	1066	530	319	534	4840	3179	50	0	144	1097	18	408	0	276	125	728	341	0	-2140	-324	28	-167	0	56	3819	8660	3863	44	-8	8895	0	0	0	8898	8898	8895
6:00	50.00	2187	2091	389	1051	529	321	520	4861	3260	57	0	144	1101	18	408	4	288	141	784	338	0	-1484	-654	23	-161	0	56	4315	9176	4256	-59	-8	9109	0	0	0	9111	9111	9109
7:00	49.99	2244	2105	388	1059	528	336	576	4993	3505	45	0	145	1109	19	408	11	340	151	787	363	0	-1487	-573	33	-157	0	56	4754	9747	4668	-86	-8	9652	0	0	0	9658	9658	9652
8:00	50.03	2168	2033	395	1021	527	304	745	5024	3220	35	0	145	1101	18	401	119	315	151	844	357	0	-1487	-632	30	-214	0	56	4460	9484	4418	-42	-8	9434	0	0	0	9435	9435	9434
9:00	50.03	2083	1954	401	1050	521	287	974	5167	2814	27	0	145	1098	17	401	252	240	109	799	351	0	-1484	-731	21	-289	0	56	3817	9004	4157	340	-8	9336	0	0	0	9337	9337	9336
10:00	50.03	2034	1908	387	1040	525	272	1174	5306	2677	25	0	145	1083	17	399	357	230	84	871	352	0	-1507	-1020	20	-352	0	56	3435	8741	3951	516	-7	9250	0	0	0	9251	9251	9250
11:00	50.00	1993	1869	389	1039	519	268	1226	5309	2535	25	0	145	1071	16	399	397	217	79	890	325	0	-1507	-1295	17	-381	0	56	2989	8298	3658	670	-6	8961	0	0	0	8965	8965	8961
12:00	50.00	1977	1854	391	1044	520	270	1332	5311	2472	19	0	145	1043	13	399	398	214	75	919	312	0	-1507	-1553	15	-407	0	56	2613	7924	3316	703	-7	8620	0	0	0	8624	8624	8620
13:00	49.99	1927	1807	382	1029	525	265	1215	5233	2381	16	0	145	1006	13	396	382	197	66	924	325	0	-1507	-1468	11	-405	0	56	2539	7771	3324	785	-6	8550	0	0	0	8557	8557	8550
14:00	50.02	1935	1815	396	1043	516	270	1159	5200	2209	19	0	145	1003	13	392	351	194	61	856	353	0	-1501	-1388	11	-386	0	56	2389	7588	3217	829	-6	8411	0	0	0	8412	8412	8411
15:00	49.98	2000	1876	397	1056	502	281	1048	5160	2683	20	0	145	1044	14	393	261	223	93	885	327	0	-1501	-1489	15	-350	0	56	2619	7780	3211	591	-6	8365	0	0	0	8371	8371	8365
16:00	50.00	2059	1931	399	1033	500	297	872	5031	2780	21	0	145	1064	17	395	166	258	88	891	332	0	-1501	-1251	17	-286	0	56	2891	7923	3389	498	-6	8415	0	0	0	8420	8420	8415
17:00	49.98	2112	1981	403	1035	503	306	662	4889	3026	27	0	145	1092	19	396	36	264	129	547	318	0	-1501	-927	20	-225	0	56	3421	8311	3696	274	-5	8580	0	0	0	8586	8586	8580
18:00	49.95	2195	2009	410	1045	517	329	429	4789	3239	34	0	145	1096	19	403	3	306	144	524	338	0	-1484	-736	25	-155	0	56	3947	8736	4134	187	-6	8916	0	0	0	8930	8930	8916
19:00	49.94	2281	2141	416	1043	533	368	421	4922	3639	85	0	145	1084	25	407	0	366	150	773	282	0	-1572	-381	47	-117	0	56	4989	9911	4971	-18	-8	9885	0	0	0	9905	9905	9885
20:00	50.03	2295	2154	413	1034	532	368	451	4952	3685	40	3	144	1085	25	408	0	377	170	787	283	0	-1621	-379	47	-116	0	56	4795	9746	4543	-252	-8	9486	0	0	0	9488	9488	9486
21:00	50.02	2259	2120	412	1029	537	352	470	4919	3437	27	2	144	1086	25	408	0	370	168	802	331	0	-1621	-453	46	-115	0	56	4514	9433	4233	-281	-8	9144	0	0	0	9145	9145	9144
22:00	50.02	2224	2087	412	1052	536	338	498	4923	3400	26	2	144	1084	24	408	0	347	142	800	317	0	-1912	-501	35	-141	0	56	4231	9154	4163	-68	-8	9078	0	0	0	9079	9079	9078
23:00	50.01	2210	2073	409	1057	535	332	518	4925	3374	26	2	139	1084	23	412	0	338	142	785	318	0	-1918	-464	35	-141	0	56	4212	9136	4217	5	-8	9133	0	0	0	9137	9137	9133
24:00	50.02	2179	2044	399	1049	533	317	539	4880	3312	25	0	139	1076	23	415	0	326	145	810	329	0	-1918	-419	27	-139	0	56	4205	9086	4117	-88	-8	8990	0	0	0	8991	8991	8990
Avg.	50.00	2128	1996	398	1047	525	311	727	5003	3072	35	0	144	1077	19	403	114	286	122	786	331	0	-1731	-740	26	-222	0	56	3778	8781	3955	177	-7	8951	0	0	0	8955	8955	a
00 TO 06 HRS.	50.00	2149	2015	391	1063	530	316	539	4854	3223	49	0	143	1090	18	407	1	289	128	812	341	0	-2099	-349	26	-159	0	56	3976	8831	3923	-53	-8	8770	0	0	0	8773	8773	
06 TO 12 HRS.	50.01	2083	1954	392	1042	523	290	988	5188	2871	29	0	145	1064	17	401	255	259	108	852	343	0	-1499	-967	23	-300	0	56	3678	8866	4028	350	-7	9209	0	0	0	9212	9212	
12 TO 18 HRS.	49.99	2038	1912	399	1040	511	291	897	5050	2720	23	0	145	1051	16	396	200	240	97	688	332	0	-1501	-1210	16	-301	0	56	2968	8018	3495	527	-6	8540	0	0	0	8546	8546	
18 TO 18 HRS.	50.00	2061	1933	396	1041	517	290	943	5119	2795	26	0	145	1068	16	399	228	250	103	770	338	0	-1500	-1089	20	-301	0	56	3323	8442	3762	439	-7	8874	0	0	0	8879	8879	
18 TO 24 HRS.	50.00	2241	2103	410	1044	534	346	483	4920	3475	38	1	142	1083	24	410	0	354	153	793	310	0	-1827	-433	39	-128	0	56	4491	9411	4374	-117	-8	9286	0	0	0	9291	9291	

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- October 2022

FIGURES IN MW																																								
Own Generation															Schedule from															Load Shedding					DEMAND MET					
Hrs.	FREQ	Ther Inlet Ave	Ther Exit Ave	HYD	ISP	OSP	Total WPs Injections	Total CWP Injections	Total	CSS	Net NGR to ISP	Supra	Lanco	Sasari	Essa r	JP Nigri	RAJAS (SCL) RTO TO RTO CL	MB Power	Jharkhand Power	SSP	SCH to RTO	SEZ	Barking	Sale	Pur	STOA	Rihand Mahanagar	MTOA / STOA FROM RAJAS THAN	Total	Tot Avl.	Act. Dtl	Deviation	Export to MS	DEMAND D MET		SCH	UN SCH	TOTAL	REST. DEMAND	UNREST. DEMAND
1:00	50.00	2396	2238	389	676	330	213	360	4206	2287	19	0	122	1071	8	413	0	178	108	702	359	0	-121	-1318	0	-166	1	56	3719	7925	3644	-76	-8	7842	0	0	0	7845	7845	7842
2:00	50.00	2383	2226	389	680	324	216	346	4151	2284	21	0	122	1080	8	412	0	177	98	627	351	0	-121	-1336	0	-199	1	56	3581	7733	3423	-158	-7	7567	0	0	0	7569	7569	7567
3:00	50.01	2368	2212	389	644	324	208	342	4119	2153	24	0	122	1081	8	412	0	158	92	614	354	0	-121	-1173	0	-205	1	56	3574	7693	3506	-68	-7	7617	0	0	0	7618	7618	7617
4:00	50.02	2383	2226	387	665	331	207	340	4156	2127	23	0	122	1081	8	412	0	152	87	612	354	0	-121	-1168	0	-205	1	56	3540	7696	3497	-43	-7	7646	0	0	0	7648	7648	7646
5:00	50.01	2437	2276	387	681	382	209	352	4288	2221	29	0	122	1076	8	412	0	188	106	569	355	0	-121	-1155	0	-205	1	56	3662	7950	3590	-72	-7	7871	0	0	0	7873	7873	7871
6:00	50.02	2546	2380	403	677	406	235	348	4449	2519	35	0	122	1062	8	412	9	223	137	670	350	0	-100	-1201	12	-169	1	56	4144	8594	4051	-93	-8	8493	0	0	0	8495	8495	8493
7:00	50.01	2601	2431	415	831	412	275	407	4770	2752	54	0	122	1071	8	412	12	289	154	708	364	0	-100	-1100	12	-115	1	56	4700	9470	4610	-90	-9	9371	0	0	0	9375	9375	9371
8:00	50.04	2559	2392	423	787	404	246	658	4910	2574	27	0	122	1061	8	412	142	271	152	723	361	0	-100	-1281	15	-208	1	56	4336	9246	4402	67	-10	9303	0	0	0	9303	9303	9303
9:00	50.03	2436	2277	410	765	400	218	853	4922	2316	28	0	122	1054	8	412	290	183	134	603	357	0	-100	-1178	12	-333	1	56	3966	8888	4375	410	-9	9289	0	0	0	9290	9290	9289
10:00	50.02	2389	2232	403	736	386	215	1069	5042	2158	21	0	122	1060	8	412	403	168	90	570	346	0	-100	-1262	6	-394	1	56	3662	8704	4199	537	-8	9233	0	0	0	9234	9234	9233
11:00	50.03	2338	2185	394	614	372	212	1198	4975	2098	15	0	122	1053	8	412	465	166	87	546	327	0	-100	-1458	0	-435	1	56	3363	8338	4048	685	-7	9016	0	0	0	9018	9018	9016
12:00	50.01	2275	2126	386	566	382	207	1276	4915	1940	32	0	122	1035	7	412	486	167	71	612	312	0	-100	-1681	0	-463	1	56	3008	7923	3691	683	-7	8599	0	0	0	8604	8604	8599
13:00	50.01	2204	2060	388	488	338	204	1260	4738	1810	16	0	122	1026	6	412	474	166	43	603	324	0	-100	-1569	0	-458	1	56	2933	7671	3851	918	-7	8582	0	0	0	8586	8586	8582
14:00	50.04	2211	2066	383	521	329	204	1164	4668	1612	15	0	122	1012	6	412	422	155	48	483	334	0	-100	-1374	0	-431	1	56	2772	7440	3655	883	-7	8316	0	0	0	8317	8317	8316
15:00	50.00	2327	2174	387	556	322	210	1001	4649	2051	16	0	122	1049	8	412	314	174	78	400	323	0	-100	-1564	0	-383	1	56	2955	7604	3538	583	-6	8181	0	0	0	8186	8186	8181
16:00	49.98	2454	2293	388	591	324	219	739	4551	2282	36	0	122	1056	8	412	168	199	110	412	327	0	-100	-1507	6	-321	1	56	3286	7817	3719	452	-6	8263	0	0	0	8272	8272	8263
17:00	49.97	2566	2398	391	683	344	239	403	4458	2515	42	0	122	1055	8	413	24	239	138	509	342	0	-100	-1388	9	-228	1	56	3755	8213	4097	342	-7	8548	0	0	0	8556	8556	8548
18:00	49.96	2636	2464	437	852	380	287	277	4696	2682	23	0	117	1055	11	422	2	286	155	588	346	0	-100	-1016	43	-123	1	56	4547	9243	4551	4	-8	9238	0	0	0	9253	9253	9238
19:00	50.03	2683	2508	461	805	397	303	333	4806	2875	30	0	117	1060	13	430	0	304	157	723	346	0	-100	-694	60	-104	1	56	5273	10079	4974	-298	-9	9772	0	0	0	9773	9773	9772
20:00	50.04	2644	2472	460	678	382	287	376	4625	2799	26	0	118	1062	12	431	0	299	161	696	342	0	-121	-1232	54	-103	1	56	4600	9225	4234	-365	-9	8851	0	0	0	8851	8851	8851
21:00	50.03	2594	2424	449	672	330	238	370	4483	2536	23	0	122	1062	9	421	0	245	159	707	382	0	-121	-1686	44	-107	1	56	3853	8336	3717	-136	-8	8192	0	0	0	8193	8193	8192
22:00	50.03	2576	2407	438	681	328	221	369	4445	2373	21	0	122	1064	9	413	0	207	139	610	355	0	-121	-1626	26	-132	1	56	3616	8060	3534	-81	-8	7971	0	0	0	7971	7971	7971
23:00	50.01	2541	2374	418	706	324	223	382	4427	2366	18	0	122	1064	9	413	0	205	133	560	352	0	-121	-1362	17	-137	1	56	3695	8122	3640	-55	-8	8059	0	0	0	8059	8059	8059
24:00	50.03	2477	2315	398	704	309	206	373	4305	2264	17	0	122	1065	9	413	0	157	124	641	357	0	-121	-1192	5	-152	1	56	3765	8070	3626	-139	-8	7924	0	0	0	7924	7924	7924
Avg.	50.01	2459	2298	407	676	354	229	608	4573	2316	25	0	121	1059	9	415	134	206	115	604	347	0	-109	-1309	13	-241	1	56	3762	8335	3924	162	-8	8489	0	0	0	8492	8492	a
00 TO 06 HRS.	50.01	2419	2259	391	666	350	215	348	4228	2265	25	0	122	1075	8	412	1	179	105	632	354	0	-117	-1225	2	-192	1	56	3703	7932	3618	-85	-7	7839	0	0	0	7841	7841	
06 TO 12 HRS.	50.02	2433	2274	405	716	388	229	910	4922	2306	30	0	122	1056	8	412	300	207	115	627	345	0	-100	-1327	7	-325	1	56	3839	8761	4221	382	-8	9135	0	0	0	9137	9137	
12 TO 18 HRS.	49.99	2400	2242	395	615	339	227	807	4627	2159	25	0	121	1042	8	414	234	203	95	499	333	0	-100	-1403	10	-324	1	56	3371	7998	3902	530	-7	8521	0	0	0	8528	8528	
18 TO 24 HRS.	50.01	2416	2258	400	666	364	228	859	4774	2232	27	0	121	1049	8	413	267	205	105	563	339	0	-100	-1365	8	-324	1	56	3605	8380	4061	456	-8	8828	0	0	0	8833	8833	
50.03	2586	2417	437	707	340	246	367	4515	2535	22	0	120	1063	10	420	0	236	145	686	356	0	-117	-1282	34	-123	1	56	4134	8649	3954	-179	-8	8461	0	0	0	8462	8462		

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- November 2022

FIGURES IN MW

Hrs.	FREQ	Own Generation										Schedule from																		Total	Tot. Avt.	Act. Dtl	Devia- tion	Export to MS	DEMAND D MET	Load Shedding			UNREST DEMAND	DEMAND MET
		Ther. Incl Aux	Ther. Excl Aux	HYD	OSP	Total WPP Injec- tion	Total CSP Injec- tion	Total	CSS	Net NIR to MP	Sign n	Lanco	Sasas	Essa r	JP Nigri	RAJAS (SOLA R) TO REIN- FORC- ING CL	MB Power	Jhahu a Power	SSP	SCH to Raj- st	SEZ	Banking	Sale	Pur	STDA	Rhan d-Ma Rajst	MTDA / STDA FROM RAJAS THAN	SCH	UN SCH							TOTAL				
1:00	50.00	3388	3170	248	170	13	235	297	4133	3673	22	0	153	1052	9	351	0	361	167	124	367	0	307	-31	73	-84	3	56	6603	10736	6482	-121	-14	10601	0	0	0	10605	10605	10601
2:00	50.02	3332	3116	245	82	13	216	299	3972	3381	19	0	153	1055	9	351	0	270	159	123	359	0	307	-107	74	-87	3	56	6126	10098	5780	-346	-13	9740	0	0	0	9740	9740	9740
3:00	50.01	3293	3080	244	37	9	211	285	3865	3464	24	0	153	1059	9	353	0	280	161	123	352	0	307	-71	74	-87	3	56	6280	10124	6156	-104	-12	10009	0	0	0	10009	10009	10009
4:00	50.00	3282	3070	244	53	26	214	270	3876	3483	27	0	153	1063	9	355	0	280	161	123	363	0	307	-48	74	-87	3	56	6322	10198	6260	-61	-12	10124	0	0	0	10129	10129	10124
5:00	50.01	3344	3128	249	149	98	227	247	4098	3551	21	0	153	1065	9	358	0	305	161	123	359	0	307	-50	74	-85	3	56	6410	10508	6431	21	-12	10517	0	0	0	10518	10518	10517
6:00	50.02	3396	3178	261	240	168	242	231	4319	3592	28	0	153	1071	10	358	3	367	166	132	355	0	791	-70	80	-79	3	56	7015	11334	6799	-216	-14	11105	0	0	0	11107	11107	11105
7:00	49.96	3403	3185	270	548	206	250	251	4710	3931	171	0	153	1066	12	358	4	379	167	196	371	0	913	-10	83	-88	3	56	7765	12475	7893	128	-18	12585	0	0	0	12602	12602	12585
8:00	50.02	3428	3208	261	201	179	250	536	4635	3881	31	0	153	1070	13	360	125	379	167	207	358	0	1584	-139	83	-156	3	56	8174	12809	8025	-149	-21	12639	0	0	0	12641	12641	12639
9:00	50.03	3521	3296	263	269	163	250	823	5064	3917	25	0	153	1071	12	364	207	379	165	148	346	0	1584	-59	83	-236	3	56	8296	13362	8684	386	-21	13727	0	0	0	13729	13729	13727
10:00	50.00	3539	3313	263	383	172	251	987	5369	3909	22	0	153	1066	12	365	430	379	165	133	352	0	1584	-98	83	-299	3	56	8314	13683	8870	556	-21	14218	0	0	0	14224	14224	14218
11:00	50.00	3462	3241	258	331	159	250	1123	5362	3886	22	0	153	1067	10	365	508	379	165	136	323	0	1584	-120	77	-337	3	56	8275	13637	9040	764	-21	14381	0	0	0	14388	14388	14381
12:00	50.00	3420	3200	248	186	127	247	1176	5184	3630	17	0	153	1055	10	365	523	379	165	137	309	0	1584	-203	77	-364	3	56	7896	13079	8431	537	-20	13596	0	0	0	13600	13600	13596
13:00	50.00	3428	3209	240	119	112	243	1153	5075	3771	16	0	153	1048	9	365	481	379	165	137	326	0	1584	-183	77	-361	3	56	8025	13101	8903	878	-19	13959	0	0	0	13968	13968	13959
14:00	50.02	3425	3205	234	118	90	241	1043	4930	3558	18	0	153	1045	10	365	390	373	165	132	319	0	1584	-205	77	-331	3	56	7711	12641	8416	705	-20	13326	0	0	0	13330	13330	13326
15:00	49.97	3431	3211	247	212	92	247	836	4846	3825	44	0	153	1047	10	365	245	373	165	131	324	0	1584	-223	77	-272	3	56	7908	12753	8607	700	-21	13432	0	0	0	13447	13447	13432
16:00	49.98	3424	3204	270	349	136	252	515	4726	3931	145	0	153	1039	12	371	83	379	165	226	331	0	1584	-153	83	-201	3	56	8207	12933	8673	466	-20	13379	0	0	0	13389	13389	13379
17:00	49.95	3505	3281	311	581	220	254	182	4828	3938	257	0	153	1043	15	371	6	379	165	322	337	0	1584	-82	83	-117	3	56	8515	13343	8573	58	-21	13380	0	0	0	13401	13401	13380
18:00	49.98	3552	3326	348	716	236	261	131	5017	3943	383	0	153	1045	17	383	0	379	159	400	344	0	913	-23	83	-91	3	56	8148	13165	7868	-280	-23	12863	0	0	0	12874	12874	12863
19:00	50.04	3510	3286	319	421	128	261	195	4609	3910	296	0	153	1047	17	385	0	379	165	309	353	0	913	-15	83	-88	3	56	7966	12575	7763	-203	-21	12350	0	0	0	12350	12350	12350
20:00	50.02	3466	3244	290	79	57	258	241	4169	3610	37	0	153	1045	15	382	0	379	168	188	345	0	738	-150	83	-88	3	56	6965	11134	6529	-436	-20	10677	0	0	0	10679	10679	10677
21:00	50.02	3423	3203	260	7	33	247	266	4016	3342	20	0	153	1046	11	371	0	361	167	130	387	0	307	-537	77	-80	3	56	5814	9830	5512	-302	-19	9509	0	0	0	9511	9511	9509
22:00	50.04	3423	3203	251	36	13	245	289	4036	3318	17	0	153	1050	10	362	0	361	167	130	364	0	307	-396	74	-83	3	56	5893	9929	5755	-138	-18	9774	0	0	0	9774	9774	9774
23:00	50.00	3422	3202	253	95	9	248	317	4124	3721	23	0	153	1051	10	358	0	379	167	129	361	0	307	-115	74	-84	3	56	6594	10718	6494	-100	-16	10602	0	0	0	10607	10607	10602
24:00	50.02	3424	3204	251	150	11	246	320	4183	3763	24	0	153	1051	10	358	0	379	167	127	370	0	307	-9	74	-84	3	56	6748	10931	6594	-154	-15	10762	0	0	0	10763	10763	10762
Avg.	50.00	3427	3207	264	230	103	244	501	4548	3705	71	0	153	1055	11	364	128	360	165	170	349	0	953	-129	78	-161	3	56	7331	11879	7439	108	-18	11969	0	0	0	11974	11974	a
00 TO 06 HRS.	50.01	3339	3124	248	122	54	224	272	4044	3524	24	0	153	1061	9	354	1	310	162	125	359	0	388	-63	75	-85	3	56	6456	10500	6318	-138	-13	10349	0	0	0	10352	10352	
06 TO 12 HRS.	50.00	3462	3241	261	320	168	250	816	5054	3859	48	0	153	1066	12	363	312	379	166	160	343	0	1472	-105	81	-247	3	56	8120	13174	8491	370	-20	13524	0	0	0	13531	13531	
12 TO 18 HRS.	49.98	3461	3239	275	349	147	250	643	4904	3828	144	0	153	1045	12	370	201	377	164	225	330	0	1472	-145	80	-229	3	56	8086	12990	8507	421	-21	13390	0	0	0	13401	13401	
18 TO 24 HRS.	49.99	3462	3240	268	334	158	250	730	4979	3843	96	0	153	1055	12	366	257	378	165	192	337	0	1472	-125	80	-238	3	56	8103	13082	8499	396	-21	13457	0	0	0	13466	13466	
50.02	3445	3224	271	131	42	251	271	4189	3611	70	0	153	1048	12	369	0	373	167	169	363	0	480	-204	78	-85	3	56	6663	10853	6441	-222	-18	10612	0	0	0	10614	10614		

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month - December 2022

FIGURES IN MW																																								
Own Generation															Schedule from															Load Shedding					DEMAND MET					
Hrs.	FREQ	Ther Inlet Aux	Ther East Aux	HYD	ISP	OSP	Total (WPs) Injections	Total CSPs	Total	CSS	Net NGR to MP	Supn	Lanco	Sasan	Essa	JP Nigri	RAJAS (SCA) R-TO R-TO MW/CL	MB Power	Jhuhu a Power	SSP	SCB to Rajas	SEZ	Barking	Sale	Pur	STOA	Rihan d-Ma badi Rajat	MTDA / STOA FROM RAJAS THAN	Total	Tot Avl.	Act. Dtl	Devia- tion	Export to MS	DEMAND D MET		SCH	UN SCH	TOTAL	REST. DEMAN D	UNREST. DEMAND
1:00	49.98	3604	3374	191	4	0	329	558	4446	3320	29	0	163	1089	4	390	0	252	146	122	363	0	458	-38	47	-183	13	56	6230	10666	6138	-92	-17	10577	0	0	0	10586	10586	10577
2:00	49.99	3347	3131	194	4	0	289	541	4160	3155	43	0	162	1096	4	390	0	198	125	119	360	0	458	-120	0	-297	13	56	5761	9921	5608	-154	-16	9752	0	0	0	9758	9758	9752
3:00	49.99	3276	3065	192	4	0	289	509	4059	3086	86	0	162	1105	4	390	0	192	90	114	357	0	458	-67	0	-296	13	56	5746	9805	5682	-65	-16	9725	0	0	0	9732	9732	9725
4:00	50.01	3323	3108	191	13	0	288	485	4085	3086	119	0	163	1105	4	390	0	192	100	114	357	0	458	-32	0	-299	13	56	5825	9910	5784	-41	-16	9854	0	0	0	9860	9860	9854
5:00	50.00	3502	3278	191	30	0	278	475	4259	3203	68	0	163	1105	4	390	0	198	124	114	360	0	458	-60	3	-289	13	56	5910	10169	5984	74	-15	10228	0	0	0	10231	10231	10228
6:00	50.01	3702	3468	192	61	90	321	472	4603	3285	28	0	163	1090	5	402	0	276	157	115	359	0	1231	-352	53	-226	13	56	6656	11259	6524	-132	-17	11110	0	0	0	11118	11118	11110
7:00	50.01	3807	3567	218	256	124	423	475	5062	3811	46	0	163	1092	7	417	2	378	166	123	371	0	1353	-8	91	-147	13	56	7933	12995	7987	53	-21	13028	0	0	0	13045	13045	13028
8:00	50.00	3832	3591	254	233	130	452	650	5309	3818	34	0	163	1088	8	417	75	378	162	127	357	0	2205	-219	91	-218	13	56	8554	13863	8494	-60	-25	13779	0	0	0	13792	13792	13779
9:00	50.01	3848	3605	324	422	166	454	947	5918	3884	26	0	163	1089	8	417	273	378	162	127	357	0	2301	-29	91	-306	13	56	9011	14929	9400	389	-25	15293	0	0	0	15308	15308	15293
10:00	49.94	3856	3613	334	588	187	459	1055	6236	3901	21	0	163	1081	8	412	426	378	164	127	359	0	2301	-16	91	-376	13	56	9109	15345	9679	570	-25	15890	0	0	0	15925	15925	15890
11:00	50.02	3839	3598	316	576	210	438	1175	6313	3900	18	0	163	1080	7	405	514	378	167	128	324	0	2301	0	91	-399	13	56	9147	15460	9781	634	-25	16070	0	0	0	16079	16079	16070
12:00	50.01	3800	3561	282	320	152	437	1239	5960	3820	18	0	163	1079	7	398	549	378	162	126	321	0	2301	-63	91	-420	13	56	9000	14960	9592	592	-24	15528	0	0	0	15539	15539	15528
13:00	50.01	3793	3554	251	263	113	437	1194	5812	3871	18	0	163	1081	5	381	531	378	162	125	320	0	2301	0	91	-416	13	56	9081	14893	9987	906	-25	15774	0	0	0	15794	15794	15774
14:00	50.04	3781	3543	229	151	84	436	1087	5529	3619	17	0	163	1083	5	381	452	378	162	125	321	0	2301	-65	91	-388	13	56	8716	14245	9443	728	-25	14947	0	0	0	14956	14956	14947
15:00	49.97	3771	3534	249	294	78	441	887	5471	3849	26	0	163	1084	6	384	307	378	162	122	328	0	2301	0	91	-338	13	56	8932	14404	9750	818	-25	15196	0	0	0	15217	15217	15196
16:00	49.97	3788	3550	298	467	165	441	576	5487	3899	31	0	163	1088	8	393	110	378	162	116	333	0	2408	-8	91	-263	13	56	9076	14573	9555	480	-25	15028	0	0	0	15047	15047	15028
17:00	49.96	3825	3584	354	704	295	439	243	5619	3902	35	0	163	1091	8	400	4	378	162	265	347	0	2655	-48	91	-173	13	56	9350	14968	9265	-85	-25	14859	0	0	0	14883	14883	14859
18:00	50.01	3837	3595	368	671	308	454	221	5618	3912	46	0	163	1093	9	411	0	378	168	282	346	0	1986	-82	91	-189	13	56	8714	14331	8319	-394	-25	13912	0	0	0	13922	13922	13912
19:00	50.08	3812	3572	319	431	183	452	310	5267	3915	36	0	163	1094	9	411	0	378	169	202	354	0	1555	-56	91	-158	13	56	8232	13498	7953	-279	-25	13195	0	0	0	13198	13198	13195
20:00	50.02	3900	3560	248	48	27	446	392	4721	3785	21	0	163	1094	8	411	0	372	163	132	365	0	1380	-803	91	-157	13	56	7092	11814	6705	-387	-23	11404	0	0	0	11409	11409	11404
21:00	50.01	3777	3538	231	9	4	401	470	4653	3509	16	0	163	1089	6	403	0	342	162	128	382	0	458	-1016	82	-140	13	56	5654	10307	5434	-220	-22	10065	0	0	0	10071	10071	10065
22:00	50.07	3720	3485	218	22	0	366	517	4608	3391	14	0	163	1089	4	390	0	288	157	128	366	0	458	-675	73	-174	13	56	5744	10352	5633	-111	-21	10221	0	0	0	10221	10221	10221
23:00	49.97	3722	3486	206	43	0	368	549	4653	3380	14	0	163	1085	4	386	0	276	162	126	362	0	458	-248	70	-183	13	56	6125	10778	6057	-68	-19	10691	0	0	0	10704	10704	10691
24:00	50.03	3678	3445	193	13	0	370	555	4576	3322	14	0	163	1082	4	390	0	291	154	125	377	0	458	-43	73	-184	13	56	6295	10871	6166	-129	-18	10724	0	0	0	10725	10725	10724
Avg.	50.00	3710	3475	251	234	97	396	649	5102	3609	34	0	163	1090	6	398	135	325	153	143	352	0	1459	-169	70	-258	13	56	7579	12681	7705	126	-22	12785	0	0	0	12797	12797	a
00 TO 06 HRS.	50.00	3459	3237	192	19	16	299	507	4270	3189	62	0	163	1098	4	392	0	218	123	116	359	0	587	-112	17	-266	13	56	6021	10292	5953	-68	-16	10207	0	0	0	10214	10214	
06 TO 12 HRS.	50.00	3830	3589	283	399	161	444	924	5800	3856	27	0	163	1085	7	411	306	378	164	127	348	0	2127	-56	91	-311	13	56	8793	14592	9155	363	-24	14931	0	0	0	14948	14948	
12 TO 18 HRS.	49.99	3799	3560	291	423	174	441	701	5591	3842	29	0	163	1087	7	392	234	378	163	189	333	0	2326	-34	91	-289	13	56	8978	14569	9387	409	-25	14953	0	0	0	14970	14970	
18 TO 24 HRS.	50.00	3815	3575	287	411	168	442	812	5685	3849	28	0	163	1086	7	401	270	378	163	158	340	0	2226	-45	91	-300	13	56	8885	14581	9271	386	-24	14942	0	0	0	14959	14959	
18 TO 24 HRS.	50.03	3752	3514	236	94	36	401	465	4746	3550	19	0	163	1089	6	398	0	325	161	140	368	0	795	-473	80	-166	13	56	6524	11270	6325	-199	-21	11050	0	0	0	11055	11055	

Discomwise Hourly Average Schedule Drawal . Actual Drawal &Over(+)/Under(-) Drawal
Month :- September 2022

FIGURES IN MW

FIGURES IN MW																								
Hrs.	FREQ.	EZONE							CZONE							WZONE							Railway	
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrictd Demand	Unrestrictd Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrictd Demand	Unrestrictd Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrictd Demand	Unrestrictd Demand	Total Sch	Total Drawal
1:00	50.00	2854	2823	-31	0	0	2824	2824	3227	3192	-35	0	0	3193	3193	2537	2508	-29	0	0	2509	2509	323	353
2:00	50.00	2806	2753	-53	0	0	2754	2754	3151	3090	-61	0	0	3091	3091	2522	2473	-49	0	0	2474	2474	350	353
3:00	50.00	2768	2741	-27	0	0	2742	2742	3102	3073	-28	0	0	3075	3075	2525	2501	-24	0	0	2502	2502	350	347
4:00	50.02	2749	2738	-11	0	0	2738	2738	3059	3049	-11	0	0	3049	3049	2494	2484	-10	0	0	2484	2484	340	338
5:00	50.00	2694	2707	12	0	0	2707	2707	3049	3061	12	0	0	3062	3062	2578	2590	11	0	0	2591	2591	341	338
6:00	50.00	2718	2695	-23	0	0	2695	2695	3209	3181	-28	0	0	3182	3182	2917	2894	-23	0	0	2895	2895	338	340
7:00	49.99	2876	2822	-54	0	0	2824	2824	3327	3264	-63	0	0	3266	3266	3247	3187	-60	0	0	3189	3189	363	379
8:00	50.03	2868	2776	-92	0	0	2776	2776	3280	3176	-104	0	0	3177	3177	3229	3127	-102	0	0	3127	3127	357	355
9:00	50.03	2752	2707	-45	0	0	2707	2707	3281	3227	-54	0	0	3227	3227	3107	3055	-52	0	0	3055	3055	351	348
10:00	50.03	2684	2630	-53	0	0	2631	2631	3282	3215	-67	0	0	3215	3215	3116	3054	-62	0	0	3054	3054	352	350
11:00	50.00	2680	2629	-52	0	0	2630	2630	3136	3075	-61	0	0	3077	3077	2990	2934	-57	0	0	2935	2935	325	324
12:00	50.00	2589	2537	-52	0	0	2538	2538	2981	2919	-61	0	0	2921	2921	2912	2853	-59	0	0	2854	2854	312	311
13:00	49.99	2516	2485	-31	0	0	2487	2487	2939	2900	-39	0	0	2902	2902	2877	2842	-35	0	0	2845	2845	325	324
14:00	50.02	2413	2401	-12	0	0	2401	2401	2893	2875	-17	0	0	2876	2876	2797	2783	-14	0	0	2783	2783	353	352
15:00	49.98	2489	2432	-57	0	0	2434	2434	2996	2923	-74	0	0	2925	2925	2750	2684	-66	0	0	2686	2686	327	326
16:00	50.00	2402	2366	-36	0	0	2368	2368	3004	2960	-44	0	0	2962	2962	2793	2752	-42	0	0	2753	2753	332	337
17:00	49.98	2380	2347	-33	0	0	2348	2348	3096	3055	-42	0	0	3057	3057	2892	2852	-40	0	0	2854	2854	318	327
18:00	49.95	2454	2461	7	0	0	2465	2465	3088	3099	10	0	0	3104	3104	3002	3011	9	0	0	3016	3016	338	345
19:00	49.94	2984	2954	-30	0	0	2960	2960	3390	3356	-34	0	0	3363	3363	3262	3229	-33	0	0	3235	3235	282	347
20:00	50.03	3075	2972	-103	0	0	2972	2972	3334	3222	-112	0	0	3223	3223	3055	2952	-103	0	0	2953	2953	283	340
21:00	50.02	3018	2901	-117	0	0	2901	2901	3281	3154	-127	0	0	3155	3155	2803	2695	-108	0	0	2695	2695	331	394
22:00	50.02	2930	2893	-37	0	0	2894	2894	3252	3210	-42	0	0	3211	3211	2654	2622	-32	0	0	2622	2622	317	352
23:00	50.01	2933	2922	-11	0	0	2924	2924	3289	3277	-12	0	0	3278	3278	2592	2582	-10	0	0	2583	2583	318	352
24:00	50.02	2922	2885	-37	0	0	2886	2886	3256	3213	-43	0	0	3214	3214	2578	2543	-34	0	0	2544	2544	329	348
Avg.	50.00	2731	2691	-41	0	0	2692	2692	3163	3115	-47	0	0	3117	3117	2843	2800	-43	0	0	2802	2802	331	345
00 TO 06 HRS.	50.00	2765	2743	-22	0	0	2743	2743	3133	3108	-25	0	0	3109	3109	2596	2575	-21	0	0	2576	2576	341	345
06 TO 12 HRS.	50.01	2742	2684	-58	0	0	2684	2684	3215	3146	-68	0	0	3147	3147	3100	3035	-65	0	0	3036	3036	343	345
12 TO 18 HRS.	49.99	2442	2415	-27	0	0	2417	2417	3003	2968	-34	0	0	2971	2971	2852	2821	-31	0	0	2823	2823	332	335
06 TO 18 HRS.	50.00	2592	2549	-43	0	0	2551	2551	3109	3057	-51	0	0	3059	3059	2976	2928	-48	0	0	2929	2929	338	340
18 TO 24 HRS.	50.00	2977	2921	-56	0	0	2923	2923	3300	3239	-62	0	0	3240	3240	2824	2771	-53	0	0	2772	2772	310	355

Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal
Month :- October 2022

FIGURES IN MW

Hrs.	FREQ.	EZONE								CZONE								WZONE								Railway	
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		Total Sch	Total Drawal
1:00	50.00	2426	2414	-12	0	0	2415	2415		2528	2516	-13	0	0	2517	2517		2568	2556	-12	0	0	2557	2557		359	356
2:00	50.00	2373	2335	-38	0	0	2336	2336		2457	2416	-41	0	0	2416	2416		2508	2467	-40	0	0	2468	2468		351	349
3:00	50.01	2326	2315	-10	0	0	2316	2316		2408	2399	-9	0	0	2399	2399		2562	2552	-10	0	0	2552	2552		354	351
4:00	50.02	2321	2318	-3	0	0	2318	2318		2388	2388	-1	0	0	2388	2388		2590	2589	-2	0	0	2589	2589		354	352
5:00	50.01	2321	2310	-11	0	0	2311	2311		2465	2454	-10	0	0	2455	2455		2767	2753	-14	0	0	2754	2754		355	353
6:00	50.02	2400	2383	-16	0	0	2384	2384		2724	2705	-18	0	0	2706	2706		3076	3055	-21	0	0	3056	3056		350	350
7:00	50.01	2660	2637	-23	0	0	2638	2638		3022	2995	-27	0	0	2996	2996		3404	3376	-28	0	0	3378	3378		364	363
8:00	50.04	2680	2641	-38	0	0	2642	2642		3025	2980	-45	0	0	2980	2980		3373	3324	-50	0	0	3324	3324		361	358
9:00	50.03	2607	2585	-21	0	0	2586	2586		2975	2951	-24	0	0	2951	2951		3423	3398	-25	0	0	3399	3399		357	354
10:00	50.02	2541	2490	-51	0	0	2490	2490		2920	2861	-58	0	0	2862	2862		3605	3538	-67	0	0	3538	3538		346	343
11:00	50.03	2551	2502	-49	0	0	2502	2502		2814	2761	-54	0	0	2761	2761		3493	3429	-64	0	0	3430	3430		327	324
12:00	50.01	2455	2398	-57	0	0	2400	2400		2625	2563	-62	0	0	2564	2564		3406	3329	-77	0	0	3331	3331		312	309
13:00	50.01	2340	2350	10	0	0	2351	2351		2534	2543	9	0	0	2544	2544		3351	3368	17	0	0	3369	3369		324	321
14:00	50.04	2258	2267	9	0	0	2267	2267		2492	2500	7	0	0	2500	2500		3212	3219	7	0	0	3219	3219		334	331
15:00	50.00	2328	2283	-45	0	0	2284	2284		2579	2528	-51	0	0	2529	2529		3110	3050	-61	0	0	3051	3051		323	320
16:00	49.98	2252	2235	-17	0	0	2237	2237		2591	2570	-22	0	0	2572	2572		3156	3134	-22	0	0	3137	3137		327	324
17:00	49.97	2216	2243	27	0	0	2245	2245		2686	2719	34	0	0	2722	2722		3205	3246	42	0	0	3250	3250		342	339
18:00	49.96	2564	2563	-1	0	0	2567	2567		2951	2951	0	0	0	2956	2956		3382	3380	-1	0	0	3386	3386		346	344
19:00	50.03	2896	2816	-80	0	0	2816	2816		3240	3150	-90	0	0	3151	3151		3551	3454	-97	0	0	3454	3454		346	352
20:00	50.04	2815	2713	-102	0	0	2713	2713		2976	2865	-111	0	0	2865	2865		3046	2935	-111	0	0	2935	2935		342	338
21:00	50.03	2598	2566	-32	0	0	2566	2566		2705	2672	-33	0	0	2672	2672		2605	2575	-31	0	0	2575	2575		382	380
22:00	50.03	2511	2496	-15	0	0	2496	2496		2613	2599	-14	0	0	2599	2599		2536	2524	-12	0	0	2525	2525		355	351
23:00	50.01	2510	2504	-6	0	0	2504	2504		2627	2621	-6	0	0	2621	2621		2589	2585	-3	0	0	2585	2585		352	349
24:00	50.03	2482	2449	-33	0	0	2449	2449		2558	2522	-36	0	0	2523	2523		2627	2593	-34	0	0	2593	2593		357	359
Avg.	50.01	2476	2451	-26	0	0	2451	2451		2704	2676	-28	0	0	2677	2677		3048	3018	-30	0	0	3019	3019		347	345
00 TO 06 HRS.	50.01	2361	2346	-15	0	0	2347	2347		2495	2480	-15	0	0	2480	2480		2679	2662	-17	0	0	2663	2663		354	352
06 TO 12 HRS.	50.02	2582	2542	-40	0	0	2543	2543		2897	2852	-45	0	0	2852	2852		3451	3399	-52	0	0	3400	3400		345	342
12 TO 18 HRS.	49.99	2326	2324	-3	0	0	2325	2325		2639	2635	-4	0	0	2637	2637		3236	3233	-3	0	0	3235	3235		333	330
06 TO 18 HRS.	50.01	2454	2433	-21	0	0	2434	2434		2768	2743	-24	0	0	2745	2745		3343	3316	-27	0	0	3318	3318		339	336
18 TO 24 HRS.	50.03	2635	2591	-45	0	0	2591	2591		2786	2738	-48	0	0	2738	2738		2826	2778	-48	0	0	2778	2778		356	355

Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal
Month :- November 2022

FIGURES IN MW

Hrs.	FREQ.	EZONE								CZONE								WZONE								Railway	
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		Total Sch	Total Drawal
1:00	50.00	2739	2717	-21	0	0	2718	2718		3606	3578	-29	0	0	3579	3579		3973	3942	-31	0	0	3944	3944		367	364
2:00	50.02	2569	2489	-80	0	0	2489	2489		3441	3333	-108	0	0	3334	3334		3679	3563	-117	0	0	3563	3563		359	355
3:00	50.01	2448	2432	-16	0	0	2432	2432		3465	3441	-24	0	0	3441	3441		3812	3788	-24	0	0	3789	3789		352	348
4:00	50.00	2465	2459	-6	0	0	2461	2461		3405	3397	-8	0	0	3399	3399		3915	3908	-7	0	0	3910	3910		363	360
5:00	50.01	2483	2498	15	0	0	2498	2498		3452	3473	21	0	0	3473	3473		4163	4190	27	0	0	4191	4191		359	356
6:00	50.02	2752	2708	-44	0	0	2709	2709		3667	3609	-58	0	0	3610	3610		4507	4435	-72	0	0	4436	4436		355	352
7:00	49.96	3259	3302	43	0	0	3307	3307		3987	4040	53	0	0	4045	4045		4811	4876	64	0	0	4882	4882		371	367
8:00	50.02	3534	3461	-73	0	0	3461	3461		4035	3951	-84	0	0	3952	3952		4976	4872	-104	0	0	4873	4873		358	355
9:00	50.03	3584	3587	3	0	0	3588	3588		4181	4183	3	0	0	4184	4184		5611	5613	2	0	0	5614	5614		346	344
10:00	50.00	3488	3474	-14	0	0	3475	3475		4345	4328	-18	0	0	4329	4329		6094	6067	-26	0	0	6070	6070		352	349
11:00	50.00	3624	3623	-1	0	0	3625	3625		4336	4335	-1	0	0	4337	4337		6105	6102	-3	0	0	6105	6105		323	320
12:00	50.00	3508	3429	-79	0	0	3430	3430		4149	4056	-93	0	0	4057	4057		5935	5804	-131	0	0	5806	5806		309	307
13:00	50.00	3384	3393	9	0	0	3395	3395		4194	4204	11	0	0	4207	4207		6023	6038	15	0	0	6042	6042		326	323
14:00	50.02	3204	3184	-20	0	0	3185	3185		4173	4147	-26	0	0	4148	4148		5714	5679	-35	0	0	5681	5681		319	316
15:00	49.97	3275	3292	17	0	0	3295	3295		4147	4167	21	0	0	4172	4172		5625	5653	27	0	0	5659	5659		324	320
16:00	49.98	3119	3132	13	0	0	3134	3134		4216	4233	18	0	0	4237	4237		5661	5686	25	0	0	5690	5690		331	328
17:00	49.95	3127	3111	-17	0	0	3115	3115		4395	4371	-24	0	0	4378	4378		5593	5564	-30	0	0	5573	5573		337	334
18:00	49.98	3473	3404	-69	0	0	3407	3407		4201	4118	-83	0	0	4121	4121		5097	4998	-99	0	0	5002	5002		344	343
19:00	50.04	3551	3501	-51	0	0	3501	3501		3855	3800	-55	0	0	3800	3800		4764	4696	-68	0	0	4696	4696		353	354
20:00	50.02	3467	3336	-131	0	0	3337	3337		3559	3424	-134	0	0	3425	3425		3717	3575	-142	0	0	3575	3575		345	342
21:00	50.02	3212	3120	-92	0	0	3120	3120		3381	3283	-98	0	0	3283	3283		2804	2723	-82	0	0	2723	2723		387	384
22:00	50.04	3054	3019	-34	0	0	3020	3020		3395	3356	-38	0	0	3357	3357		3070	3038	-32	0	0	3038	3038		364	360
23:00	50.00	3095	3074	-21	0	0	3075	3075		3709	3684	-25	0	0	3686	3686		3506	3485	-21	0	0	3487	3487		361	359
24:00	50.02	2969	2933	-37	0	0	2933	2933		3626	3586	-40	0	0	3587	3587		3915	3876	-39	0	0	3877	3877		370	367
Avg.	50.00	3141	3112	-29	0	0	3113	3113		3872	3837	-34	0	0	3839	3839		4711	4674	-38	0	0	4676	4676		349	346
00 TO 06 HRS.	50.01	2576	2551	-25	0	0	2551	2551		3506	3472	-34	0	0	3473	3473		4008	3971	-37	0	0	3972	3972		359	356
06 TO 12 HRS.	50.00	3499	3479	-20	0	0	3481	3481		4172	4149	-23	0	0	4151	4151		5589	5556	-33	0	0	5558	5558		343	340
12 TO 18 HRS.	49.98	3264	3253	-11	0	0	3255	3255		4221	4207	-14	0	0	4211	4211		5619	5603	-16	0	0	5608	5608		330	328
06 TO 18 HRS.	49.99	3381	3366	-16	0	0	3368	3368		4197	4178	-19	0	0	4181	4181		5604	5579	-25	0	0	5583	5583		337	334
18 TO 24 HRS.	50.02	3225	3164	-61	0	0	3164	3164		3587	3522	-65	0	0	3523	3523		3629	3565	-64	0	0	3566	3566		363	361

Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal
Month :- December 2022

FIGURES IN MW

Hrs.	FREQ.	EZONE								CZONE								WZONE								Railway	
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand		Total Sch	Total Drawal
1:00	49.98	3030	3001	-30	0	0	3003	3003		3546	3510	-36	0	0	3513	3513		3744	3707	-37	0	0	3710	3710		363	360
2:00	49.99	2747	2699	-48	0	0	2701	2701		3327	3269	-57	0	0	3271	3271		3486	3425	-61	0	0	3427	3427		360	358
3:00	49.99	2660	2637	-23	0	0	2639	2639		3373	3345	-29	0	0	3347	3347		3420	3390	-30	0	0	3393	3393		357	353
4:00	50.01	2717	2701	-16	0	0	2703	2703		3316	3297	-19	0	0	3299	3299		3522	3501	-21	0	0	3503	3503		357	355
5:00	50.00	2701	2718	17	0	0	2719	2719		3385	3407	22	0	0	3408	3408		3722	3745	23	0	0	3746	3746		360	358
6:00	50.01	2944	2905	-39	0	0	2908	2908		3647	3599	-48	0	0	3602	3602		4305	4249	-57	0	0	4252	4252		359	356
7:00	50.01	3693	3704	11	0	0	3709	3709		4188	4202	13	0	0	4207	4207		4739	4754	15	0	0	4761	4761		371	368
8:00	50.00	4125	4083	-42	0	0	4087	4087		4335	4291	-44	0	0	4295	4295		5102	5050	-52	0	0	5055	5055		357	354
9:00	50.01	4277	4291	14	0	0	4295	4295		4680	4696	16	0	0	4700	4700		5932	5952	20	0	0	5958	5958		357	354
10:00	49.94	4256	4246	-9	0	0	4256	4256		5006	4995	-11	0	0	5006	5006		6308	6293	-14	0	0	6307	6307		359	355
11:00	50.02	4437	4397	-39	0	0	4400	4400		5041	4996	-45	0	0	4999	4999		6412	6355	-56	0	0	6359	6359		324	321
12:00	50.01	4226	4153	-73	0	0	4156	4156		4830	4746	-84	0	0	4750	4750		6423	6312	-111	0	0	6316	6316		321	317
13:00	50.01	4221	4226	5	0	0	4231	4231		4913	4919	6	0	0	4925	4925		6305	6312	7	0	0	6320	6320		320	317
14:00	50.04	4006	3969	-37	0	0	3972	3972		4832	4787	-45	0	0	4790	4790		5926	5872	-54	0	0	5875	5875		321	319
15:00	49.97	3989	4013	24	0	0	4018	4018		4720	4748	29	0	0	4754	4754		6074	6111	37	0	0	6119	6119		328	325
16:00	49.97	3864	3859	-5	0	0	3864	3864		4804	4798	-7	0	0	4804	4804		6051	6043	-9	0	0	6050	6050		333	329
17:00	49.96	3858	3790	-68	0	0	3796	3796		5060	4970	-90	0	0	4978	4978		5857	5753	-104	0	0	5762	5762		347	345
18:00	50.01	4011	3897	-114	0	0	3900	3900		4664	4531	-133	0	0	4534	4534		5289	5138	-150	0	0	5142	5142		346	346
19:00	50.08	4057	3969	-88	0	0	3970	3970		4208	4117	-91	0	0	4118	4118		4859	4754	-105	0	0	4755	4755		354	355
20:00	50.02	3897	3761	-136	0	0	3763	3763		3844	3709	-135	0	0	3711	3711		3700	3570	-130	0	0	3572	3572		365	363
21:00	50.01	3593	3505	-87	0	0	3508	3508		3542	3456	-86	0	0	3459	3459		2790	2723	-67	0	0	2724	2724		382	380
22:00	50.07	3313	3270	-43	0	0	3270	3270		3499	3453	-46	0	0	3453	3453		3175	3134	-41	0	0	3134	3134		366	364
23:00	49.97	3384	3356	-28	0	0	3360	3360		3689	3659	-31	0	0	3663	3663		3343	3316	-28	0	0	3320	3320		362	361
24:00	50.03	3247	3203	-44	0	0	3203	3203		3568	3520	-47	0	0	3521	3521		3673	3627	-47	0	0	3627	3627		377	374
Avg.	50.00	3636	3598	-37	0	0	3601	3601		4167	4126	-42	0	0	4130	4130		4757	4712	-45	0	0	4716	4716		352	350
00 TO 06 HRS.	50.00	2800	2777	-23	0	0	2779	2779		3432	3405	-28	0	0	3407	3407		3700	3670	-30	0	0	3672	3672		359	357
06 TO 12 HRS.	50.00	4169	4146	-23	0	0	4151	4151		4680	4654	-26	0	0	4660	4660		5819	5786	-33	0	0	5793	5793		348	345
12 TO 18 HRS.	49.99	3992	3959	-33	0	0	3963	3963		4832	4792	-40	0	0	4798	4798		5917	5871	-46	0	0	5878	5878		333	330
06 TO 18 HRS.	50.00	4080	4052	-28	0	0	4057	4057		4756	4723	-33	0	0	4729	4729		5868	5829	-39	0	0	5835	5835		340	338
18 TO 24 HRS.	50.03	3582	3511	-71	0	0	3512	3512		3725	3652	-73	0	0	3654	3654		3590	3520	-70	0	0	3522	3522		368	366

ANNEXURE-8.1

S. No.	Meter Serial No.	Circle	Division	Substation	Feeder
1	X1317043	SATNA	SINGHROULI	DONGRITAL 132	20MVA MAKE NGEF SN 2800050840
2	Y0221687	INDORE	T.DN.1 INDORE	INDORE CHAMBAL 132	40MVA MAKE BHEL-I 6004823
3	X1920887		KATNI	132KV S/S DHEEMARKHEDA	50MVA
4	X1595728	INDORE	INDORE	132KV S/S MAHALAXMI NAGAR	50MVA
5	X1177030	GUNA	T.DN. BEORA	132KV S/S KHUJNER	50MVA BBL
6	X1595726	BHOPAL 400	BHOPAL	132KV S/S BHOPAL(E8)	50MVA BBL
7	X1582324	BHOPAL 400	T.DN.1 BHOPAL	132KV S/S MAHAWADIA	50MVA BBL
8	X1371481	GUNA	T.DN.SHIVPURI	132KV S/S KARAHAL	50MVA
9	Y0221459	JABALPUR	T.DN.2 JABALPUR	220KV S/S PANAGAR	50MVA