



MADHYA PRADESH POWER TRANSMISSION COMPANY LIMITED

STATE LOAD DESPATCH CENTRE, NAYAGAON, RAMPUR, JABALPUR

Telephone: (0761) 2970089 Fax: (0761) 2664343/2970119 e-mail sldcmpjbp@gmail.com

Corporate office: Madhya Pradesh Power Transmission Co. Ltd., Block No.2, Shakti Bhawan,
Rampur, Jabalpur 482008, CIN-U40109MP2001SGC014880, Email-mdtransco.nic.co.in



No.07-05/SG-9B-II/164

Jabalpur, dated:27.01.2022

To

As per distribution list

Sub: Agenda of 80th meeting of Operation and Coordination Committee of MP.

...

The Agenda of 80th meeting of the Operation and Coordination Committee of MP has been uploaded on the website of SLDC 'www.sldcmpindia.com' and can be downloaded. It is also to intimate that due to outbreak of Covid-19 and as per precautionary measures the 80th OCC is being conducted through video conferencing. The date of the meeting shall be intimated separately.

(S. S. Patel)
Member Secretary, OCC
SLDC, MPPTCL, Jabalpur

Distribution List

1. The Chief Engineer (Works), MP Power Transmission Co. Limited, Shakti Bhawan, Jabalpur, email- ceehtmi@yahoo.com.
2. The Chief Engineer (T&C), MP Power Transmission Co. Limited, Jabalpur. Fax No- 0761-2665593, 2702710 Email- ce.tnc@mptransco.nic.in , se2.tc@mptransco.nic.in
3. The Chief Engineer (Transmission-East Zone), MP Power Transmission Co. Limited, Shakti Bhawan, Jabalpur. Email- sk.gaikwad@mptransco.nic.in.
4. The Chief Engineer (Transmission-West Zone), MP Power Transmission Co. Limited, Indore.
5. The Chief Engineer (Transmission-Central Zone), MP Power Transmission Co. Limited, Bijlee Nagar, Govindpura, Bhopal, email- setncbpl@gmail.com.
6. The Chief Engineer (Plg & Des), MP Power Transmission Co. Limited, Jabalpur, Fax No- 0761-2660908 Email- ceps321@yahoo.com
7. The Chief Engineer (Procurement.), MP Power Transmission Co. Limited, Jabalpur, .Fax No- 0761-2660908 Email – substation_vi@yahoo.com
8. The Chief Engineer(EHT:Const.), MP Power Transmission Co. Limited, Jabalpur. Fax-0761-2661618, E-mail- ce.ehtc@mptransco.nic.in.
9. The Chief Engineer(EHT:Maint&insp.), MP Power Transmission Co. Limited, Jabalpur. Fax-0761-2665593, E-mail- ce.mni@mptransco.nic.in.
10. The Executive Director (O & M:Gen), MP Power Generating Company Limited, Jabalpur. Fax No- 0761-2664749, Email- gcc.mppgcl@gmail.com, Email- edomg_mpeb@rediffmail.com
11. The Chief Engineer (O&M:Hydel), MP Power Generating Co. Ltd, Jabalpur, Fax No-0761-2664749.
12. The General Manager(PM), MPPMCL, Jabalpur Email – gm_pm@mpradeco.com controlroom.tradeco@gmail.com
13. The Superintending Engineer (GCC), MPPGCL, Jabalpur Email – segcc.mppgcl@gmail.com gcc.mppgcl@gmail.com.
14. The General Manger (DCC-EZ), DISCOM Control Centre, MP Poorva Kshetra Vidyut Vitaran Co.Limited, Jabalpur, Fax No- 0761-2668503, Email – cmdez_ld@yahoo.co.in.
15. The Dy. General Manager (DCC –CZ), DISCOM Control Centre, MP Madhya Kshetra Vidyut Vitaran Co. Limited, Bhopal, Fax No-0755-2580611,Email- plm.mpcz@gmail.com.
16. The Executive Engineer (DCC-WZ), DISCOM Control Centre, MP Paschim Kshetra Vidyut Vitaran Co. Limited, Near Polo Ground, Jail Road, Indore, Fax No- 0731-2421554, Email- dccindore@gmail.com.
17. The Executive Engineer, Sub Load Despatch Centre, MPPTCL, Indore, Fax No- 0731-2874515, Email – eesubldcind@yahoo.com.
18. The Executive Engineer, Sub Load Despatch Centre, MPPTCL, Bhopal, Fax No- 0755-2885220, Email – aldc_bpl@yahoo.co.in
19. The General Manger(RO), MPPMCL, In front of Bhojpur Club, E-4, Arera Colony,Bhopal, Fax No-0755-2423046, Email-Rajeev keskar@rediffmail.com
20. The Chief Engineer (PM&C), Narmada Hydroelectric Development Corpn. Ltd, NHDC Parisar, Shamlia Hills, Bhopal – 462013., Fax No- 0755-4030130,Email – om.co.nhdc@gmail.com 5vinodnhdc@rediffmail.com
21. The Chief Electrical Distribution Engineer, West Central Railway (WCR), General Manager's Office, Electrical Department, Jabalpur-482001 (MP), Fax: 0761-2627629, Email- cede@wcr.gov.in, dyceetrdwcr@gmail.com, M-9752415312, Mr.Satyendra Kumar (Dy.CE), Mob.9752415301 (CEDE, WCR).
22. The General Manager, Indira Sagar Power Station, NHDC Office complex, PO : Narmada Nagar, Distt : Khandwa (MP) – 450 119, Fax No- 07323-284080, Email – nhdc_isp@rediffmail.com
23. The General Manager, Omkareshwar Power Station, Prashnsnik Bhawan, Urja Vihar, Sidhwarkut, Distt : Khandwa (MP) – 450 554, FaxNo-07280-271703, Email- pk saxena@nhdc.com, saxena_pks123@rediffmail.com, omkareshwar.nhdc@gmail.com.
24. The Director (Projects), BLA Power Limited, At : Niwari, PO: Khorsipan, Tah : Gadarwara, Distt ; Narsinghpur 487 551, Fax No. 07791-243667 / 243669, Email – manish@bla.co.in
25. The Sr. Vice President, Jaiprakash Power Ventures Ltd., Village Sirchopi Subpost Office-Agasod, Post Office-Bina-470113 Distt- Sagar, Fax No. 07580-277200, Email – jbtppbina400kvswitchyard@gmail.com jtpp.switchyard@jalindia.co.in.
26. The General Manager Operation Satpura Transco Pvt. Ltd., Satpura Colony, Betul Road, Old Itarsi, Distt. Hoshangabad, Email – piyush.pandya@clpindia.in , sachin.ashish@clpindia.in .
27. M/s Ujaas Energy Ltd. 701, NRK Business park, Vijay Nagar Sqaure, Indore – 452010, Email id :-solar@ujaas.com
28. M/s Suzlon Global Services Ltd., 1090, Scheme no. 114, Park-2, Ring Road, Universal Hospital Row, Email- deepesh.sankwa@suzlon.com, Indore – 452010, Badree.hirve@suzlon.com

AGENDA FOR 80th MEETING OF OPERATION & COORDINATION COMMITTEE OF MP.

ITEM NO. 1 : CONFIRMATION OF MINUTES : Minutes of 79TH meeting of Operation & Coordination Committee of MP held telephonically, on 09th March 2021 were forwarded to the committee members vide No. 07-05/SG-9B-II/125 Jabalpur dated 19.01.2022. No comments have been received.

[OCC may confirm the minutes]

ITEM NO.2: REVIEW OF SYSTEM OPERATION DURING THE MONTHS SEPTEMBER 2021 TO DECEMBER 2021.

2.1. Frequency Particulars: During SEPTEMBER 2021 the system frequency was below 49.90 Hz for 4.17% of time against 11.1% of time during OCTOBER 2021. The system frequency was above 50.05 Hz for 18.81% of time during SEPTEMBER 2021 against 14.51% of time during OCTOBER 2021. The system frequency was within the IEGC range of 49.90-50.05 Hz for 77.02% of the time during SEPTEMBER 2021 against 74.39% of time during OCTOBER 2021. The average monthly frequency was 50.01 Hz during month of SEPTEMBER 2021 and 49.99 Hz during month of OCTOBER 2021.

The detailed frequency particulars for the month of SEPTEMBER 2021 TO DECEMBER 2021 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
SEPTEMBER 2021	50.01 Hz	49.72 Hz	50.12 Hz	49.50 Hz	50.23 Hz
OCTOBER 2021	49.99 Hz	49.77 Hz	50.13 Hz	49.50 Hz	50.29 Hz
NOVEMBER 2021	50.00 Hz	49.82 Hz	50.14 Hz	49.33 Hz	50.27 Hz
DECEMBER 2021	50.00 Hz	49.85 Hz	50.23 Hz	49.62 Hz	50.34 Hz

[Committee AUGUST like to note]

2.2 Operational Matters

2.2.1 Operational Discipline: System operated in terms of frequency profile for the months SEPTEMBER 2021 TO DECEMBER 2021 is as given below for discussion by the committee:

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
SEPTEMBER 2021	4.17%	18.81%	77.02%	50.01 Hz
OCTOBER 2021	11.1%	14.51%	74.39%	49.99 Hz
NOVEMBER 2021	8.02%	17.88%	74.1%	50.00 Hz
DECEMBER 2021	7.31%	19.55%	73.14%	50.00 Hz

[Committee may like to note]

2.2.2 Voltage Profile: the maximum and minimum voltage as recorded at important 400 KV s/s in MP Grid from SEPTEMBER 2021 TO DECEMBER 2021 is enclosed as **Annexure – 2.2.2.**

[Committee may please note & discuss]

2.2.3 STATUS OF CAPACITOR BANKS IN SUB-TRANSMISSION SYSTEM: The updated information of the status of capacitor banks in sub-transmission system as on 31th DECEMBER 2021 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	416	132	111	-	2	5	4	4	8	0	6	24	7	0	0	-	0
CZ	0	511	1052	197	-	-	-	0	0	0	0	0	0	0	0	0	0
WZ	534	525	748	-	0	0	5	51	46	64	531	11	22	0	0	-	91

The committee may like to discuss.

[Action: MPPTCL, DISCOMS]

2.2.4 Status of Shunt Capacitor Banks installed at various EHV Transmission Substation: The updated information of the status of installed capacitor banks (in MVAR) in EHV transmission system as on 31.12.2021 as submitted by MPPTCL is given below: -

Voltage Class	Capacitor bank installed as on 31.01.2021 (MVAR)	Capacity Added after Last OCC Meeting (MVAR)	TOTAL CAPACITY AS ON 31.12.2021 (MVAR)	Capacitor Bank Installed but defective & are not repairable (No & MVAR)
220 KV	0.00	0.00	0.00	All in Service
132 KV	1263.00	33.00	1296.00	
33/36 KV	5965.00	761.00	6726.00	
TOTAL	7228.00	794.00	8022.00	

The plan for installation of capacitor banks installed at EHV Transmission Substation is enclosed as **Annexure-2.2.4.**

[Action: MPPTCL]

2.2.5 U/F and df/dt Relay Operation

(i) **U/F and df/dt Relay Operation:** Frequency did not touch 49.20 Hz from SEPTEMBER 2021 TO DECEMBER 2021. 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.

[Action: MPPTCL]

(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. At 132KV S/S Chapda the df/dt protection is provided through df/dt feature of DPR. All U/F stages are in good/ healthy & working condition.

[Committee may like to note]

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

(i) Details of DISCOM wise Power supply given to various domestic categories during the period SEPTEMBER 2021 TO DECEMBER 2021 is enclosed at **Annexure 2.3(i)**.

[Committee may like to note]

(ii) **Group Allocation to Newly Commissioned existing EHV substations:-** The region wise list of 33 KV feeders emanating from various newly commissioned/existing EHV substations for which groups have not been allocated is given in **Annexure 2.3 (ii)**. The DISCOM wise details of pending group allocation to 33 KV feeders is given below:-

SN	DISCOM	Region	No of 33 KV feeders for which groups to be allocated
01	EAST	Jabalpur	03
02		Sagar	00
03		Rewa	00
04		Total	03
05	WEST	Indore	01
06		Ujjain	02
07		Total	03
08	CENTRAL	Bhopal	05
09		Gwalior	00
10		Total	05
TOTAL		Grand Total	11

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

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

Further, P&D,MPPTCL is also requested to provide the updated and consolidated 33 kV feeder group allocation information as on 31.12.2021 of all the substations of MPPTCL in prescribed format at the earliest:-

S.NO.	NAME OF DISTRICT	NAME OF SUB-STATION	NAME OF 33KV FEEDER	GROUP NO. AS ON 31.12.2021	U/F RELAY SETTING (48.8,49.0,49.2, 49.6)HZ	AVERAGE LOAD IN MW DURING THE MONTH OF DECEMBER - 2020
1						
2						
3						
4						

[ACTION: DISCOMs, P&D-MPPTCL]

ITEM NO. 3 : OPERATIONAL PLANNING:

3.1 Generating Units under planned outage and proposed maintenance program: The latest status for annual maintenance /outages of thermal generating units of MPPGCL for FY 2020-2021 as provided by ED(O&M:Gen) for FY-2021 – 2022 is enclosed as **Annexure-3.1**.

Details regarding hydel unit outage has not been provided by CE (O&M:Hydel), MPPGCL.

[Committee May like to note]

3.2 Proposed shutdown program of Transmission lines / Transformers: The proposed shutdown of transmission elements for the period 01.02.2022 to 31.03.2022 as submitted by T&C, MPPTCL is enclosed as **Annexure-3.2**.

[Committee May like to discuss]

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	315MVA BHEL X'mer – 3 Sl. No.6006021 at 400KV S/s Bhopal	04.03.2020	Differential protection optd, Bucholz relay optd, REF optd.	X'mer replaced by another 315MVA X'mer on 20-11-21.
2	160 MVA CGL X'mer Sl. No.5406-06 at 220 KV S/s MAHALGAON	03.08.2021	Differential protection optd, Bucholz relay optd, PRV Trip.	X'mer damaged by due to fire & replaced by another 160MVA X'mer on 20-11-21.
3	40 MVA X'MER CGL AT 132 KV S/S BICHHUA	29.08.2021	Differential protection optd, Bucholz relay optd	X'mer replaced by another 50MVA X'mer 18-10-21.
4	20MVA, 132/33KV BHEL at Mangawan 132KV S/s	20.10.2021	Tripped on Differential Trip indications found defective in testing.	X'mer replaced by 40MVA Transformer on 25-01-22.

5	20MVA, 132/33KV APEX at Tikamgarh 220KV S/s	07.12.2021	Tripped on Differential, Buchholz Trip& OSR Trip indications.	X'mer replaced by 20MVA Transformer by March-22. MPPTCL may submit the latest status.
6	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. However the line cannot be charged from railway end due to some problem. Railway is requested to provide the reason for not charging the line and its updated status.

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.

[Action:MPPGCL/MPPTCL]

ITEM NO. 4 : OPERATIONAL STATISTICS FROM SEPTEMBER 2021 TO DECEMBER

2021:

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.

[Committee may like to note]

ITEM NO. 5: SYSTEM DISTURBANCE IN MP

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

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 & SEL output to RLDC with in 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. It is observed that FLASH REPORT, DR & EL of station is not made available after tripping of transmission grid element by the State Grid Entities and the flash report is also not being sent after repeated pursuance.

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. The incidences / tripping's which occurred during the month of JUNE-2020 & AUGUST-2021 for which the details have not been submitted are as below: -

S.no.	Element	Date of tripping	Time of tripping in Hrs.	Remark
1.	220 Malanpur – Auraiya Ckt	03.09.2021	05:30	Tripped on R-E fault at Auraya end only. A/R successful at Malanpur end.. DR received. MPPTCL may kindly submit the DR within 24 hours. Non-Compliance of IEGC 5.2 (r) And CEA grid Standard Regulations 2010-15.3 CEA Technical standards for construction of electric plants and electric lines – Clause 43(4) (c). MPPTCL may kindly check and rectify the reason for non-A/R operation at Malanpur end.
2.	220 Malanpur – Auraiya Ckt	21.09.2021	20:10	MPPTCL may kindly submit the data at the earliest. Non-Compliance of IEGC 5.2 (r) and CEA grid Standard Regulations 2010- 15.3.
3	220 Malanpur – Auraiya Ckt	27.09.2021	18:00	Tripped on R-E fault at Auraya end only. A/R successful at Malanpur end. MPPTCL may kindly submit the data at the earliest. Non-Compliance of IEGC 5.2 (r) and CEA grid Standard Regulations 2010- 15.3

[T&C,MPPTCL]

5.1 UPLOADING OF TRIPPING ON WRLDC TRIPPING PORTAL:- As intimated by WRLDC in 529th WR-OCCM, that WRLDC has started a tripping portal from 01.06.2019 for uploading FIR, DR/EL and other details related to the tripping of all 400KV elements, important grid elements, inter-state/inter-regional links and lines connected to PGCIL. Further details major Grid Disturbance resulting in significant load loss/generation loss is also required to be uploaded on the WR-Portal and as per IEGC 54.2(r), utilities need to submit the data within 24 hours of the event. The link (<https://portal.wrlde.in/Trippingnew/Account/Login.aspx>), common user ID & password for the entities of MP has been shared with all the entities vide this office letter No.07-05/RPC-51/ 18.06.2019.

As advised in 537th WR-OCCM, all Utilities are requested to use and submit the data through the WRLDC tripping portal. Therefore, entities are requested to use and upload the FIR, DR/EL and other details related to the tripping of elements mentioned above, in the Tripping Monitoring System of WRLDC within stipulated time.

The Committee may please discuss the matter.

[Committee May like to discuss]

ITEM NO. 6.0 : IMPORTANT OPERATIONAL ISSUES:-

6.1 STATUS OF COMPLETION OF ONGOING SCHEMES FOR COMMISSIONING OF REACTORS / TRANSMISSION ELEMENTS:- 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 Satpura-ISP line at STPS	50 MVAR	MPPGCL	Grant for the scheme for installation of 50MVAR line reactor at Sarni-ISP feeder of 400KV switchyard of Satpura has been sanctioned by MoP, GoI on 22.05.17. After extending the dates only single offer has been received which is under evaluation.
2.	400 KV S/s Sagar	125MVar Bus Reactor	MPPTCL	Reactor is already commissioned and was last charged in 2019-2020. MPPTCL is requested to provide its status in the meeting. 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.

The latest status may be submitted in the meeting.

[Action: MPPGCL/NHDC]

6.2 CERTIFICATE FOR HEALTHINESS OF BATTERIES:- WRLDC in 149th PCM intimated that as per the MoP direction given in pursuant to recommendations of the Enquiry Committee (NEW grid disturbance on 30th & 31st July, 2012), RPCs are required to obtain from their respective Constituents the monthly certificate for healthiness of batteries, installed at 220 KV and above voltage level Substations (for power supply to Relays, RTUs and PLCC equipment) and furnish the same to CEA/MoP. With reference to above, the Constituents are requested to submit the certificate on healthiness of batteries on monthly basis (i.e. status for a month shall be sent by the 7th day of the following month) to WRPC Secretariat. Constituents are requested to submit the certificates on regular basis.

In view of the above T&C is requested to submit the compiled report to SLDC by 05th of every month for necessary action.

[Action: MPPTCL]

6.3 FTC OF TRANSMISSION ELEMENTS AND GENERATION CAPACITY IN WR:- WRLDC via letter Ref.no.: WRLDC/MO&RA/FTC DTD:- 17.01.2022 (letter enclosed as Annexure-6.3) intimated that as the year end approaches, the target completion of the projects becomes imperative everywhere and with this there will be the rush for charging the new elements.

To avoid that last hour rush and for smooth facilitation of charging, it is advised to please plan the first time charging activities well before March-22 and complete the first time charging activities in WRLDC FTC portal (for the elements which are connected with ISTS network, Inter state links and 400kv networks).

In view of the above SLDC via e-mail dtd-21.01.2022 requested all the concerned for necessary action please. CE(P&D), MPPTCL is requested to please share the tentative list of elements to be charged by March-22 for better coordination with WRLDC.

The matter may kindly be treated as urgent for timely charging and smooth operation of the grid. Therefore CE(T&C), MPPTCL and CE(EHT-C), MPPTCL is requested to circula the information at all the respective circles and divisions for information and may please issue directives for the compliance of the matter.

The committee may discuss the matter.

[Action: P&D, T&C, EHT-C, MPPTCL]

6.4 LOAD DROPPING SCHEME AT 400 KV SUBSTATIONS TO HANDLE EMERGENCY CONDITION:-

It is to mention that vide e-mail dtd-24.02.2021, T&C was requested to provide the details (setting for operation of load drop scheme, feeders included, quantum of load relief to be obtained etc) of load drop scheme installed and to test the load trimming schemes installed on quarterly basis and provide a report to SLDC in the format as below with an e.g.

S.NO	SUBSTATION	ELEMENT ON WHICH LOAD DROP INSTALLED	CRITERIA/SETTING AT WHICH LOAD DROP WILL OPERATE	ELEMENTS/FEEDERS TO PROVIDE LOAD RELIEF	QUANTUM OF LOAD RELIEF TO BE OBTAINED	TESTED (YES/NO)	LOAD RELIEF OBTAINED DURING TESTING	REMARK
1	SATNA PGCIL	315 MVA ICT - 1, 2 & 3	110% OF CURRENT LOADING ON ANY OF THE ICT WITH 2.5SEC. DELAY	132 KV SATNA - PAWAI CKT	120MW			
				133 KV SATNA - NAGOD CKT				
				134 KV SATNA - MAJHGAWAN CKT				
2								
3								

The matter was discussed in 77th & 78th OCCM of MP, wherein representative from MPPTCL ensured that the test report of the implemented load drop scheme shall be provided to SLDC soon. However the same has not been submitted to SLDC till date.

In view of the above it is to intimate that the Load Dropping Schemes implemented is utmost important from grid security point of view and further in the ensuing rabi season for reliable/secure operation of the grid it is expected that major elements / areas in MP Grid needs to be operated nearly to full load condition and in radial mode, hence load drop scheme plays an important role by avoiding overloading and tripping of elements in N-1 condition and overload condition. Therefore, its healthiness and availability shall be ensured on regular interval of time, hence T&C, MPPTCL is again requested to provide the details (setting for operation of load drop scheme, feeders included, quantum of load relief to be obtained etc) of load drop scheme installed and to test the load trimming schemes installed on quarterly basis and provide a report to SLDC within a week.

The matter is being discussed since last two OCCM and T&C,MPPTCL committed to submit the data at the earliest. However the same has not been submitted till date. T&C, MPPTCL is again requested to submit the test report for the load drop scheme installed at the earliest to SLDC

The committee may discuss the matter.

[Action: (T&C) MPPTCL]

6.5 STANDARD OPERATING PROCEDURE (SOP) FOR ISLANDING SCHEMES:-

WRLDC in 149th PCM intimated that CE (NPC), CEA has forwarded SOP for Islanding schemes on 12th Oct, 2021 to formulate new schemes and ensure the healthiness of existing schemes. It was requested to RPCs/SLDC to circulate the same to all utilities involved in Islanding Schemes at regional level for compliance. The important points under SOP for islanding schemes are highlighted below:

1. Design Protocol
2. Monitoring of Vital Parameters
3. Certification of Healthiness of Islanding Scheme
4. Role and Responsibility and Coordination Activities
5. Sensitization and Training of Officers involved
6. Periodic Inspection/ Audit of Essential Components.
7. Review Plan of Islanding Schemes.
8. Identification of Short-comings & Remedial action.
9. Post Islanding survival.
10. SOP Template for Islanding Schemes is at Annexure-IV.

SOP for Islanding Schemes is enclosed at Annexure-6.5.

In view of the above MPPTCL, MPPGCL & Discoms are requested to submit the compliance as per formats mentioned in SOP to SLDC within a week for onward submission to WRLDC.

[Action: T&C-MPPTCL, MPPGCL, Discoms]

6.6 UTILIZATION OF POWER SYSTEM DEVELOPMENT FUND (PSDF) FOR NEW

ISLANDING SCHEMES FORMULATED FOR WESTERN REGION:- WRLDC in 149th PCM intimated that in view of a partial black out in Mumbai on 12th Oct, 2020 at 10:05 Hrs, Shri R.K. Singh, Hon'ble Cabinet Minister (Power, New & Renewable Energy) has conducted several meetings with MoP/NPC/RPC for formulation of New Islanding Schemes in all India grid and subsequently the state utilities of WRPC have formulated following 5 nos. of new islanding schemes which are highly feasible.

Sr No.	Name of Islanding Scheme	Name of Generating Station	Generation in MW	Load in MW	State
1	Nagpur	Khaparkheda TPS	4 X 210=840	500-600	Maharashtra
2	Jamnagar	Sikka	2x250=500	300-370	Gujarat
3	Bhuj (Anjar-Kukma)	APL	2X330=660	510	Gujarat
4	Jabalpur	Amarkantak TPS	U-5: 210	170-190	Madhya Pradesh
5	Raipur	Marwa (W) TPS	2X500 =1000	350	Chhattisgarh

Further, MoP has decided that the above new islanding schemes may be funded through Power System Development Fund (PSDF) and therefore, WRPC has requested concerned utilities to prepare a detailed project report (DPR) for above schemes incorporating both technical and commercial requirement and submit the same to Nodal agency of PSDF i.e. NLDC for necessary approval. The progress of the same shall be monitored in the OCC/PCM of WRPC.

SLDC vide letter No.07-05/RPC-38A/2250 dtd – 08.12.2021 intimated WRPC (prior to 147th PCM of WRPC) that new Islanding Scheme formulated for Jabalpur with Amarkantak Thermal Power Station has been discussed with the concerned official of M.P. Power Transmission Co. Ltd., M.P. Power Generating Co. Ltd. and M.P. Proov Kshetra Vidyut Vitaran Co. Ltd. and the officials were requested to provide the cost estimate.

M.P. Power Generating Co. Ltd. has submitted cost estimate for hardware which is about Rs. 1.64 Lakhs. M.P. Power Transmission Co. Ltd. has not provided estimated cost of hardware which is expected to be same as that of MPPGCL. Thus, the total estimated cost on implementation of Islanding Scheme of Jabalpur Town with Amarkantak TPS shall not be more than Rs. 5 Lakhs.

To obtain grant from PSDF is a long process and requires lot of approval / recommendations from different agencies, therefore submitting proposal for this meager amount of Rs. 5 Lakhs is not desirable and could be easily managed from the internal resources by the respective Companies.

In view of the above WRPC suggested to review & discuss the matter again as the system developed for islanding scheme shall be separate & may require additional funding.

The committee may discuss the matter.

[Action:MPPTCL, MPPGCL, Discoms]

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

7.1 BLACK START MOCK DRILL OF HYDEL STATIONS OF MP:- During 2020-2021 and 2021-2022 Black Start Mock Drill 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	19.01.2022 by Maharashtra
2.	BARGI HPS	27.12.2021
3.	BIRSINGHPUR HPS	15.12.2021
4.	MADIKHEDA HPS	22.12.2021
5.	TONS HPS	After Normalization of two no. Units at Tons HPS
6.	ISP HPS	To be scheduled in March 2022. NHDC may propose a date.
7.	OSP HPS	To be scheduled in March 2022. NHDC may propose a date.
8.	RAJGHAT HPS	24.11.2021

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

8.1 TESTING & CALIBRATION OF METERS, TIME DRIFT IN ABT METERS AND LOAD SURVEY DATA OF ABT METERS INSTALLED AT THE INTERFACE POINTS:

1. SLDC has already requested CE(T&C) office in previous OCCMs to conduct testing / calibration of meters installed at the interface points under their jurisdiction as per Regulations 10 and 18 of Central Electricity Authority (Installation and operation of meter) Regulation 2010. CE(T&C) office is requested to apprise status of testing & callibration.

2. SLDC has sent the list of replacement of ABT meters which are older than 10 years as per letter No: SML/BPL/20-21/MPTrans/17 dated 06/01/2021 of M/s Secure Meters Ltd. send to CE(T&C) office vide email dated 05.07.2021. CE(T&C) office is requested to apprise status and provided list of which meters replacement.

As informed by M/s Secure Meters representative that time synchronization of 565 meters were done and time synchronization of balance meters is being done step-by-step.

3. SLDC has sent UO note 01 dated 04.01.2022 regarding providing AMR facility for communication data for interface meters installed in MPPTCL sub-stations for RTS feeders. In addition five HT consumers meters are also installed at MPPTCI sub stations. Thus these meters including in AMC, the list send to CE(T&C) office vide email dated 07.01.2022. CE(T&C) office is requested to apprise status.

[Action : CE(T&C) MPPTCL]

8.2 NON RECEIPT OF ABT METER DATA OF RAILWAY TSS THROUGH AMR SYSTEM

& JMR:- Railways has already requested in the previous OCCMs to ensure 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 is 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. 23 Nos. ABT meters installed at TSS end for the month of December 2021 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. Include ABT meters installed at TSS and GSS end in the AMC contract of MPPTCL for successful downloading of meter data.

Railway is requested to apprise the Committee on the status of above issues.

[ACTION :RAILWAY]

8.3 TESTING & CALIBRATION OF INTERFACE METERS.

1. SLDC has 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. MPPGCL is requested to apprise the Committee about the status of Testing / Calibration as per regulatory provisions. Further, MPPGCL is requested to ensure that meters installed at the interface points are time synchronized with GPS.

[Action : MPPGCL]

8.4 TIME DRIFT IN ABT METER INSTALLED AT THE POOLING STATIONS OF WIND AND SOLAR GENERATING STATIONS AND SLIDING WINDOW PROBLEM:-

The 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		Meter No.	TIME DRIFT IN MINUTES
1	Ujaas -I Susner	132KV S/s Susner	WZONE	XB571653	361.00
2	M/S SIDHANT WIND KUCHROD	33/11KV S/s KUCHDOD	WZONE	XB589231	262.00
3	M/S SIDHANT WIND AFJALPUR	33/11KV S/s AFJALPUR	WZONE	XC502289	250.00
4	SHANKESHWAR WIND POWER NAGRI	220KV S/s DALODA	WZONE	XC525573	251.00
5	SHANKESHWAR WIND	220KV S/s DALODA	WZONE	XC525575	248.00

	POWER_DHMNAR				
6	33KV MARUTSHAKTI CHANDWASA	33KV CHANDWASA	WZONE	XC502303	236.00
7	AMPL BHADRESH	132KV S/s Susner	WZONE	XB593639	93.00
8	WIND WORLD 2 CHAPDA	132 KV S/s CHAPDA	WZONE	Q0296376	43.00
9	33 KV UJAAS 1 BERCHHA	132KV S/S BERCHHA	WZONE	XB571652	48.00
10	UJAAS -2 ICHHAWAR 33 KV	132KV S/S ICHHAWAR	WZONE	MPC59975	40.00
11	33KV SUZLON_GUJRAT_WIND KHACHROD-II	132KV S/S KHACHROD	WZONE	MPC73886	42.00
12	M/S SUZLON INFRA MAHURIYA 2 SUSNER	132KV S/S SUSNER	WZONE	XE479865	19.00
13	132KV ENERCON (WEG)	132KV S/S CHAPDA	WZONE	MPE53467	17.20
14	VIVAAN SOLAR -3 MAKDON	132KV S/S MAKDON	WZONE	XC529586	15.00
15	WIND WORLD 4 SUSNER	132KV S/S SUSNER	WZONE	XA474846	14.08
16	33KV SUZLON_GUJRAT_WIND KHACHROD-I	132KV S/S KHACHROD	WZONE	MPC73884	53.00
17	33KV TODAY CLEAN ENERGY FDR-II	220KV S/S BAROD	WZONE	XD511507	12.12
18	KUKRU WIND 132 KV	132KV S/S GUDGAON	CZONE	XC579525	12.12
19	33 KV UJAAS II SITAMAU	132KV S/s SITAMOU	WZONE	XD501479	12.00
20	GAMESA JAMGODRANI 2	220 KV DEWAS	WZONE	XB575668	11.53
21	GLOBUS STEEL & POWER	132KV S/s SITAMOU	WZONE	XC562469	11.25
22	GAMESA JAMGODRANI 1	220 KV DEWAS	WZONE	XB575670	11.00
23	33KV VIVAAN SOLAR -1 TARANA	132KV S/S TARANA	WZONE	XD501478	9.00
24	33KV Ujaas feeder-II Rajgarh	132KV S/S RAJGARH	WZONE	XC595281	6.28
25	BETUL WIND FARM 132 KV	132KV S/S GUDGAON	CZONE	MPC62876	5.52
26	132KV MALWA SOLAR (IL&FS) FEEDER	220KV S/S BAROD	WZONE	XB587792	5.52
27	33KV PRISM_WIND FEEDER_I	132KV S/S SONKATCH	WZONE	XD500621	5.00
28	VIVAAN SOLAR -1 MAKDON	132KV S/S MAKDON	WZONE	MPC55922	5.00
29	220KV KSHEMA_AMBA_II	220KV S/S RATLAM	WZONE	XC579528	4.55
30	220KV GUJARKHEDI_NTPC_I	220KV S/S GUJAR KHEDI	WZONE	Y0280256	4.25
31	220KV KSHEMA_AMBA_I	220KV S/S RATLAM	WZONE	XC576468	4.17
32	NTPC-1	220KV S/S RAJGARH BIAORA	WZONE	XC510612	4.10
33	UJAAS 1 RAJGARH	220KV S/S RAJGARH BIAORA	WZONE	Y0356649	4.10
34	33KV PRISM_WIND FEEDER_II	132KV S/S SONKATCH	WZONE	XD500619	4.00
35	M/S SIDHANT WIND_MANDVI	33/11KV S/s MANDVI	WZONE	XC529818	4.00
36	FOCAL PHOTOVOLTAIC INDIA P LTD	132KV S/s SITAMOU	WZONE	MPC70760	4.00

37	132KV RENEW CLEAN ENERGY	132KV S/S KOTHIYA	WZONE	XE518730	3.72
38	NTPC-2	220KV S/S RAJGARH BIAORA	WZONE	XC510614	3.27
39	33KV KSHEMA_GHONSLA FEEDER-I	132KV S/S GHONSLA	WZONE	Y0056951	3.00
40	33KV KSHEMA_GHONSLA FEEDER-II	132KV S/S GHONSLA	WZONE	Y0056953	3.00
41	132KV SEIL VOLTA_SITARA	132KV S/s SITAMOU	WZONE	XB581188	3.00
42	UJAAS-1 AGAR	132KV S/S AGAR	WZONE	MPC59595	2.53
43	UJAAS-2 AGAR	132KV S/S AGAR	WZONE	MPC59596	2.48
44	M P WIND FARM NAGDA HILL	220 KV DEWAS	WZONE	XE525393	2.10
45	33KV UJAAS 2 BAROD	220KV S/S BAROD	WZONE	XE525399	2.05
46	33 KV RATLAM WIND FARMS -I	132KV S/S JAORA	WZONE	Y0056957	2.00
47	SUZLON ENERGY SANDALA I	132 KV KHACHROD	WZONE	XB579646	2.00
48	33KV VIVAAN SOLAR -2 TARANA	132KV S/S TARANA	WZONE	XE479821	1.60
49	UJAAS SAI SABURI	132KV S/S MAKDON	WZONE	X0888531	1.60
50	33 KV UJAAS 1 BAROD	220KV S/S BAROD	WZONE	XE525398	1.47
51	SUN PHARMACEUTICAL INDUSTRIES LTD.	132KV S/S TARANA	WZONE	Q0190158	1.38
52	132KV ORANGE BERCHA WIND FEEDER	220KV S/S BARNAGAR	WZONE	XC576471	1.32
53	33KV AVP_POWER_INFRA_feder-I	132KV S/S SONKATCH	WZONE	XD595991	1.30
54	220KV INOX_LAHORI FEEDER-I	220KV S/S SHAJAPUR	WZONE	MPC73532	1.17
55	33KV BADONI_POWER_MAXI_feder-I	132KV S/S MAXI	WZONE	XD522128	1.08
56	VIVAAN SOLAR -2 MAKDON	132KV S/S MAKDON	WZONE	XC529587	1.02
57	220KV MARUTSHAKTI FEEDER-I	220KV S/S NIPANIYA	WZONE	MPC70479	1.02
58	33KV BADONI_POWER_MAXI_feder-II	132KV S/S MAXI	WZONE	XD558031	1.00
59	33KV Suzlon Gujrat_barod_feder-I	220KV S/S BAROD	WZONE	XD595980	1.00
60	RENEW WIND ENERGY (MP TWO) PVT LTD DALODA	220KV S/s DALODA	WZONE	XB593636	1.00
61	SUZLON ENERGY SANDALA 2	132 KV KHACHROD	WZONE	XB579649	1.00
62	SUZLON V RATLAM	132KV S/S JAORA	WZONE	XE479860	1.00

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-I SAILANA	132 KV SAILANA	XE479853	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
2	33KV SUZLON-II SAILANA	132 KV SAILANA	XE479854	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
3	33KV SUZLON-III SAILANA	132 KV SAILANA	XE479855	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
4	33KV SUZLON-I RATLAM	132KV S/S JAORA	XE479856	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
5	33KV SUZLON- IV RATLAM	132KV S/S JAORA	XE479859	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
6	33KV SUZLON- V RATLAM	132KV S/S JAORA	XE479860	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
7	33KV SUZLON-IV AGAR	132KV S/S AGAR	XE479864	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
8	33KV SUZLON-V (SUSNER-III)	132KV S/S SUSNER	XE479867	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
9	33KV SUZLON-III (AGAR- I),	132KV S/S AGAR	XE479863	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
10	33KV SUZLON BEHAPUR	220 KV S/s DALODA	XE479862	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
11	33KV SUZLON BEHPUR DALODA-	220 KV S/s DALODA	XE479861	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
12	33KV SUZLON I (SUSNER-I),	132KV S/S SUSNER	XE479866	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
13	33KV SUZLON I (SUSNER-II),	132KV S/S SUSNER	XE479865	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
14	33 KV M P WIND FARM NAGDA HILL	220 KV DEWAS	XE525393	WZONE	MANIKARAN ANALYTICS LTD..
15	33 KV SUZLON GUJRAT WIND	220 KV BAROD	XD595984 XD595980	WZONE	MANIKARAN ANALYTICS LTD...
16	33KV FREEWING POWER PVT. LTD.	132KV S/s MAKDON	Y0505422	WZONE	FREEWING POWER LTD.
17	33KV AVP POWER PVT. LTD.	132 S/s SONKATCH	XD595991, XD595994	WZONE	MANIKARAN ANALYTICS LTD..
18.	33KV BADONI PVT LTD.	132KV S/s MAXI	XD522128	WZONE	MANIKARAN ANALYTICS LTD..
19.	33KV GI POWER PVT. LTD.	220KV S/s MAKDON	X1071843	WZONE	KREATE TECHNOLOGY PVT LTD
20.	33KV SAI SABURI MAKDON	132KV MAKDON	X0888531	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
21.	33KV FRIEND SALT SUSNER	132KV SUSNER	X0888530	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
22	SUZLON DEV 1 NAGDA HILL	220 KV DEWAS	XE479868	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
23	33KV EASTMAN INTERNATIONAL	132KV TARANA	X1305766 X1305767	WZONE	MANIKARAN ANALYTICS LTD..
25	SIMCON FEEDER - 2	220KV GANJBASODA	Y0327309	CZONE	KREATE TECHNOLOGIES LLP
26	BHADRESH TRADING CORP. Ltd II SUSNER	132KV SUSNER	XE479870	WZONE	MANIKARAN ANALYTICS LTD

Licensees are requested to take-up the issue with concerned officials for time synchronization and replacement of ABT meters.

[Action : West/Central Discoms/ MPPTCL]

8.5 TESTING & CALLIBRATION OF INTERFACE METERS:- Discoms are requested to conduct testing / calibration of meters installed at the interface points of Renewable Energy Generators and Inter Discom feeders under their jurisdiction as per Regulations 10 and 18 of Central Electricity Authority (Installation and operation of meter) Regulation 2010, under intimation to SLDC.

[Action : Discoms]

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

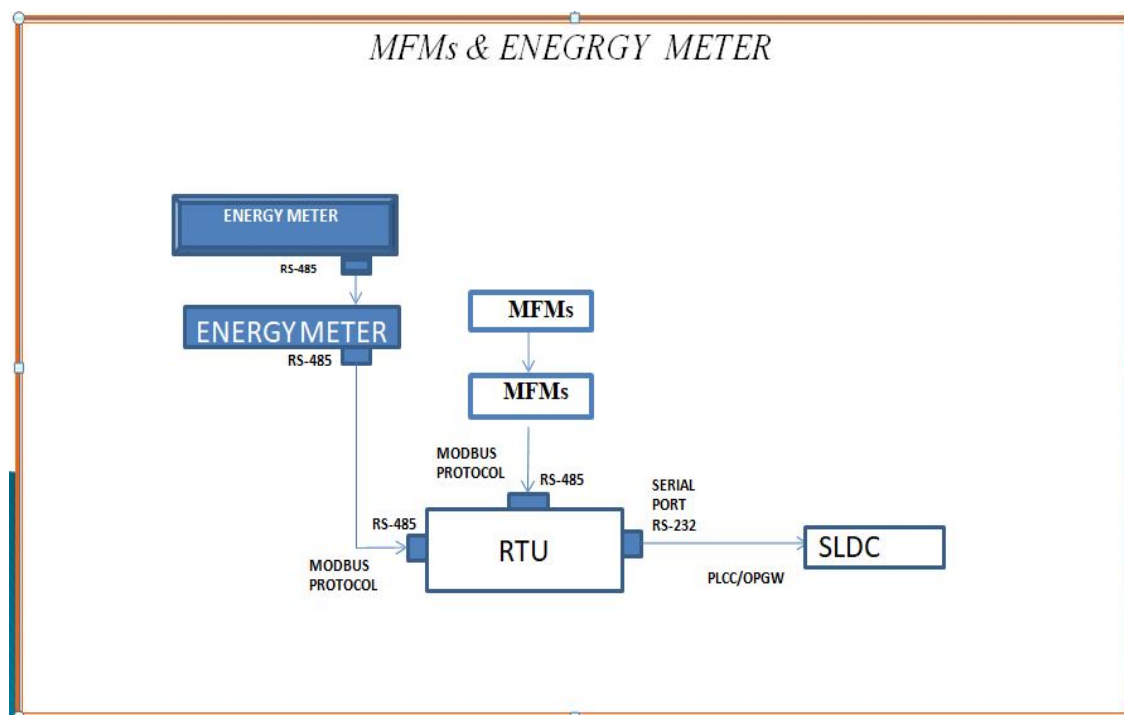
9.1 INTEGRATION OF INTERFACE ENERGY METERS INTO RTUS FOR PROVIDING REAL TIME DATA TO SLDC SCADA/EMS SYSTEM:-

The Deviation Settlement is being done with the data of Interface meters installed on each interface point between STU and ISTS. It has been observed that there is difference between the DSM charges computed from the real time SCADA values and DSM account prepared by WRPC from the data of interface meters. In order to eliminate the difference between two different systems, the same source of data is essential. Accordingly, SLDC MP has taken up the task of integration of Interface energy meters with RTUs for providing real time visibility of Interface meter data into SCADA.

The in-house scheme developed for integration of Interface meters with RTUs using RS 485 port through MODBUS Protocol has been successfully tested at 220 KV Jabalpur S/s, 132 KV Ayodhya Nagar S/s & 132 KV Indore Chambal S/s with Secure Make P-300 Model of Energy meters for real time display of energy meter reading at SLDC SCADA/EMS system.

On implementing this scheme at all the interface points of STU with ISTS, real time data of interface meters can also be available in SCADA and will ensure better management of drawl of State from the Regional Grid.

The scheme of integration of energy meter with RTU is provided below for reference:-



The matter regarding integration of energy meter with RTU at MPPGCL and MPPTCL S/s was also discussed in the meeting dtd. 23.12.21 at SLDC. In the meeting, it was informed by SLDC that integration work is to be carried out at following locations of MPPGCL:-

- (i) SGTPS :- By shifting of RTU from Birsinghpur HPS.
- (ii) STPS :- By integration into proposed centralized SCADA
- (iii) Pench HPS :- Through existing RTU
- (iv) Rajghat HPS : Through existing RTU

During the meeting, it was decided that the integration work at above locations shall be carried out within one month. MPPGCL are thus requested to kindly provide progress in the matter.

9.2 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 exploring the possibility of integrating the telemetry of thermal Power Stations through existing SCADA system at Power stations and in case of compatibility issue with SLDC SCADA System, they will plan for RTU Replacement.

(ii) ATPS & SGTPS: - They are planning for replacement of RTUs at power stations for integrating the telemetry of thermal Power Stations through SLDC SCADA system.

In view of the above, it is requested to kindly expedite the procurement of RTU of ATPS & SGTPS and arrange for testing of the telemetry of Satpura thermal Power Stations through existing SCADA system at Power station with SLDC SCADA system.

MPPGCL is thus requested to provide current progress in the matter.

9.3 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 substations having tapped railway traction feeders are required to be integrated in SLDC SCADA/EMS system for computation of railway traction drawl from the grid. The telemetry of **132 KV Jhirniya S/s** having tapped railway traction is required to be integrated in SLDC SCADA/EMS system. SLDC also pursued the matter with T&C vide letter dtd. **10.08.21**, however the telemetry integration of the above mentioned S/s is still pending. MPPTCL may please provide current progress in the matter.

The telemetry of Birsingpur HPS was commissioned, however the telemetry of Birsingpur HPS is currently not available due to some issue in 48 V DC Charger. MPPGCL informed that the 48 V DC Charger is being replaced with a new Charger. MPPGCL may please provide current progress in the matter.

MPPTCL & MPPGCL are requested to provide current progress in the matter.

[Action: - MPTPCL,ED (O&M :Gen), MPPGCL]

9.4 UPGRADATION OF EXISTING RTUS & DISCREPANCY IN TELEMETERED VALUES

RECEIVED FROM DIFFERENT EHV S/S & POWER STATIONS :- The present status of telemetry discrepancy including upgradation requirement is enclosed herewith as **Annexure-9.4**. 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	3 months

2. Gandhi Sagar HPS :-

Sr .No.	Description	Unit	Pending since
1	Gen 2,3,5	CB	8 months

(b) Transmission/ other Generating Substations :-

SI No.	Name of Substation	Name of feeders/transformers
01	400 KV ISP	MW of 400 KV Indore feeder 1 is showing wrong value. Isolator telemetry not available.
02	400 KV Julwaniya	CB status of both 220/132 KV Xmer(Sec side) & 132/33 KV Xmer (sec side) is showing open. This problem is persisting since last one year. No action in the matter has been taken.
03	400 KV Pithampur	Wrong CB status of 400 KV Pithampur-Singhaji Ckt 3 & 4 Line Reactor.
04	400 KV Mandsaur	(i) CB status of 220 KV Nipaniya -2 and TBC is faulty/wrong.
05	220 KV Pithampur Sec-III	Non-current MW values of 132 KV SRF industry CB status of 220/132 Xmer-3
06	220 KV Dhar	Faulty CB Status of 132 KV Teesgaon.

[Action: - MPPTCL, MPPGCL, NHDC]

9.5 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 five 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 5 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.

9.6 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	Birsingpur HPS	Out since more than 2 months	0 %
2	220 KV Sirmore	Out since more than 2 months	0%(PLCC issues at Satna Division)
2	220 KV Maiher	Out since more than 1 months	0%(PLCC issues at Satna Division)
3	132 KV Dongritaal	Out since more than 2 months	0%(PLCC issues at Satna Division)
4	132 Amarpatan	Out since more than 2 months	0%(PLCC issues at Satna Division)
5	400 KV Satna PGCIL and 132 KV Satna -II	Out since more than 2 months	0% Outdoor equipment at Satna 220 KV Yard.
6	220 KV Rewa	Intermittent	60%
7	132 KV Deolone HPS	Intermittent	34%
8	220 KV Anuppur	Intermittent	42%
9.	132 KV Beohari	Intermittent	39%

10.	132 KV Kotma	Intermittent	68%
11.	132KV Niwari	Intermittent	56%
12.	132 KV Prithivipur	Intermittent	78%
13.	220 KV Chattarpur	Intermittent	86%
14.	220 KV Nowgoan	Intermittent	86%
15.	132 KV Gansour	Intermittent	81%

MPPTCL is requested to arrange for restoring the telemetry & maintain telemetry availability 99.9 % as per CERC communication regulations.

9.7 NON AVAILABILITY/ UNRELIABLE VOICE COMMUNICATION BETWEEN SLDC TO THERMAL/ 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, presently most of the PLCC voice communication of various power stations to SLDC is out since long time and detailed of non-availability as here under: -

S.No	Name of HPS/TPS	2 wire PLCC channel	MPPGCL response in meeting dtd.30.10.18	Remark
1.	Bansagar- IV	PLCC voice communication is not established	AE, Tons HPS informed that he will visit Bansagar-IV for restoration of voice communication of Bansagar-IV at the earliest.	Restoration of PLCC channel is still pending.
2.	Madikheda	PLCC voice channel is not working since long time.		Restoration of PLCC channel is still pending.
3	Birsinghpur HPS /TPS	PLCC voice channel is not working since long time due to faulty PLCC exchange at Birsinghpur.	AE Birsinghpur informed that presently voice communication between SLDC to thermal power house is proper & the commissioning of EPAX at site is under progress. AE Birsinghpur assured that the voice channel of Birsinghpur HPS shall be restored <u>within one month.</u>	Restoration of voice channel of Birsinghpur HPS is still pending.

The matter regarding Non Availability/ Unreliable voice communication Between SLDC to Thermal/ Hydel Power Stations was discussed in various OCC meeting however 2 wire voice facility extensions of **Singhaji 2 TPS, Madikheda HPS** is still pending.

MPPGCL is thus requested to provide current progress in the matter.

9.8 NON AVAILABILITY & WRONG TIME STAMPING OF SOE AT SLDC SCADA :- The proper receipt of Sequence of events (SOE) in SLDC SCADA system from field RTUs is an important feature required for analysis of grid incidents. However, on some instances, it has been observed that the SOE was not received in SCADA system and accordingly, the matter was taken up with field for verification for proper configuration /connections of SOE data in RTUs.

SLDC informed that out of 180 RTUs, SOE verification of all RTUs has been Completed, however following discrepancies in SOE have been observed:-

S.No.	Name of S/s	Element
1	400 KV S/s Astha	315 Xmer I & II and 400 kv satpura I & II are not recorded
2	220 KV S/s Sheopurkalan	220 kv TBC & 63 MVA xmer II are not recorded.
3	132 KV S/s Harda	Xmer 1&2 are found interchanged
4	132 KV S/s Motizheel	132 Kv BC & 132 kv Banmore ckt-2, 40 Mva xmer 1 are pending.
5	132 KV S/s Gudgaon	132 kv betul-1 fdr is not recorded.
6	220 KV S/s Gudgaon	132 kv Betul 1&2 are pending.

MPPTCL is thus requested to provide current progress in the matter as testing for the same is pending for more than two month.

9.9 RECTIFICATION OF OPGW LINK BETWEEN 220 KV S/S SATNA –KATNI :- Presently it was intimated that work related to laying of optical fiber between 220 KV S/s Satna –Katni will be initiated soon. Please update current progress in this matter.

[Action: - MPPTCL]

9.10 TELEMETRY OF RAILWAY TSS SUB STATIONS:- The telemetry of existing 38 Nos Railway Traction Sub Stations & upcoming 25 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 39 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 provide the status of telemetry integration of remaining 24 Nos Railway Traction Sub Stations as well as ensure reliable telemetry of existing Railway TSS.

ITEM NO 10 : DATE AND VENUE OF NEXT OCC MEETING :It is proposed to hold 81st Operation and Coordination Committee meeting of MP in April 2022. The host and venue of the same shall be decided in the meeting.

[Action :- All the concerned entities]

FREQUENCY PARTICULARS

S. No.	Particulars	Sep-21		Oct-21		Nov-21	
1 INTEGRATED OVER AN-HOUR							
1.1	Maximum Frequency	50.12 Hz	Between 13.00 hrs & 14.00 Hrs on 10.09.21	50.13 Hz	Between 13.00 hrs & 14.00 Hrs on 30.10.21	50.14 Hz	Between 18.00 hrs & 19.00 Hrs on 04.11.21
1.2	Minimum Frequency	49.72 Hz	Between 18.00 hrs & 19.00 Hrs on 24.09.21	49.77 Hz	Between 18.00 hrs & 19.00 Hrs on 07.10.21	49.82 Hz	Between 06.00 hrs & 07.00 Hrs on 08.11.21
1.3	Average Frequency	50.01 Hz		49.99 Hz		50 Hz	
2 INSTANTANEOUS FREQUENCY							
2.1	Maximum Frequency	50.23 Hz	AT 18.01.30 HRS ON 25.09.21	50.29 Hz	AT 13.02:10 HRS ON 26.10.21	50.27 Hz	AT 06.01:40 HRS ON 28.11.21
2.2	Minimum Frequency	49.5 Hz	AT 18:42:40 HRS ON 24.09.21	49.5 Hz	AT 18:14:50. HRS ON 07.10.21	49.63 Hz	AT 05:54:00. HRS ON 17.11.21

3 Percentage of time when frequency was :-

	%age of time when frequency was	Sep-21	Oct-21	Nov-21	Dec-21
3.1	Below 49.9 Hz	4.17	11.1	8.02	7.31
3.2	Between 49.9 Hz and 50.05 Hz	77.02	74.39	74.1	73.14
3.3	Above 50.05 Hz	18.81	14.51	17.88	19.55
4.1	No. of times frequency touched 49.20 Hz	0	0	0	0
4.2	No. of times frequency touched 49.00 Hz	0	0	0	0
4.3	No. of times frequency touched 48.8 Hz	0	0	0	0

ANNEXURE-2.2.2

Sep-21

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	418	4.00	13 Sep 21	401	19.00	15 Sep 21
2 Bhopal	420	13.05	10 Sep 21	404	16.50	2 Sep 21
3 Nagda	418	4.00	13 Sep 21	399	19.00	15 Sep 21
4 Satpura	423	2.00	9 Sep 21	407	19.00	15 Sep 21
5 SGTIPS Birsinghpur	424	14.00	16 Sep 21	407	24.00	6 Sep 21
6 Bina	418	13.05	11 Sep 21	398	18.40	15 Sep 21
7 Pithampur	420	4.00	13 Sep 21	405	19.00	15 Sep 21
8 Ashta	423	13.00	10 Sep 21	403	19.00	15 Sep 21
9 Julwania	425	13.00	10 Sep 21	411	16.00	15 Sep 21
10 Kirnapur	430	13.00	16 Sep 21	425	4.00	2 Sep 21
11 Badnawar	424	4.00	13 Sep 21	406	19.00	24 Sep 21

Oct-21

ANNEXURE-2.2.2

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	419	5.00	18 Oct 21	399	16.00	25 Oct 21
2 Bhopal	422	4.05	18 Oct 21	399	9.45	11 Oct 21
3 Nagda	419	5.00	18 Oct 21	398	16.00	25 Oct 21
4 Satpura	424	3.00	18 Oct 21	400	17.00	30 Oct 21
5 SGTIPS Birsinghpur	424	5.00	18 Oct 21	406	13.00	7 Oct 21
6 Bina	420	4.05	18 Oct 21	398	9.45	11 Oct 21
7 Pithampur	421	5.00	18 Oct 21	403	10.00	30 Oct 21
8 Ashta	425	4.00	18 Oct 21	404	10.00	30 Oct 21
9 Julwania	425	3.00	18 Oct 21	408	16.00	25 Oct 21
10 Kirnapur	431	3.00	18 Oct 21	416	16.00	25 Oct 21
11 Badnawar	424	5.00	18 Oct 21	406	15.00	18 Oct 21

Nov-21

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	24.00	30 Nov 21	395	11.00	15 Nov 21
2	Bhopal	424	24.00	30 Nov 21	396	15.35	16 Nov 21
3	Nagda	424	24.00	30 Nov 21	397	7.00	5 Nov 21
4	Satpura	427	22.00	9 Nov 21	390	22.00	8 Nov 21
5	SGTPS Birsinghpur	428	2.00	5 Nov 21	401	16.00	23 Nov 21
6	Bina	417	23.59	30 Nov 21	395	10.25	30 Nov 21
7	Pithampur	421	22.00	28 Nov 21	400	11.00	15 Nov 21
8	Ashta	431	24.00	30 Nov 21	396	11.00	23 Nov 21
9	Julwania	424	20.00	3 Nov 21	399	16.00	7 Nov 21
10	Kirnapur	435	4.00	19 Nov 21	413	17.00	23 Nov 21
11	Badnawar	429	24.00	30 Nov 21	405	1.00	5 Nov 21

Dec-21

ANNEXURE-2.2.2

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	22.00	17 Dec 21	397	11.00	27 Dec 21
2	Bhopal	424	3.00	19 Dec 21	394	10.00	8 Dec 21
3	Nagda	427	22.00	17 Dec 21	399	10.00	20 Dec 21
4	Satpura	426	4.00	7 Dec 21	400	11.00	21 Dec 21
5	SGTPS Birsinghpur	424	3.00	29 Dec 21	400	11.00	8 Dec 21
6	Bina	419	3.00	19 Dec 21	391	10.20	8 Dec 21
7	Pithampur	423	22.00	17 Dec 21	402	11.00	27 Dec 21
8	Ashta	427	22.00	17 Dec 21	399	10.00	20 Dec 21
9	Julwania	424	3.00	3 Dec 21	403	11.00	31 Dec 21
10	Kirnapur	433	3.00	29 Dec 21	407	11.00	24 Dec 21
11	Badnawar	429	22.00	9 Dec 21	405	11.00	27 Dec 21

Plan for installation of Capacitor Banks in 2021-22

Sl.No.	Circle	Name of EHV S/S	Proposed work		Remark, DOC
1	Ujjain	Badnagar 220 (T Key)	36KV	3x12MVA	-
2	Ujjain	Dewas 220	36KV	2x12MVA	-
3	Ujjain	Khategaon 132	36KV	1x12MVA	-
4	Nagda	Nagda 220	36KV	2x12MVA	-
5	Nagda	Khachrod 132	36KV	2x12MVA	-
6	Nagda	Tal 132	36KV	1x12MVA	-
7	Nagda	Neemuch 132	36KV	1x12MVA	-
8	Nagda	Bhanpura 220	36KV	1x12MVA	-
9	Indore	Ghatabilloid 132	36KV	1x12MVA	-
10	Indore	Goutampura 132	36KV	1x12MVA	-
11	Indore	Alirajpur 132	36KV	1x12MVA	-
12	Indore	Rajgarh (D) 220	36KV	2x12MVA	-
13	Indore	Simrol 132	36KV	2x12MVA	-
14	Indore	Rau 132	36KV	2x12MVA	-
15	Indore	Manawar 132	36KV	Aug 5-12MVA	-
16	Indore	Petlawad 132	36KV	Addl 1x12MVA	-
17	Indore	Singhana 132	36KV	Addl 1x12MVA	-
18	Bhopal	Beora 132	36KV	Aug2x5 & 2x6-2x12MVA	-
19	Bhopal	Bankhedi 132	36KV	Addl 1x12MVA	-
20	Bhopal	Seoni Malwa 132	36KV	Addl 1x12MVA	-
21	Bhopal	Pipariya 132 (T Key)	36KV	Addl 1x12MVA	-
22	Bhopal	Pipariya 132	36KV	Aug5+6 by 1x12MVA	-
23	Bhopal	Sultanpur 132	36KV	Addl 1x12MVA	-
24	Bhopal	Pipariya 220	36KV	Addl 1x12MVA	-
25	Bhopal	Hoshangabad 220	36KV	Aug5+6 by 1x12MVA	-
26	Bhopal	Harda 132	36KV	Aug5+6 by 1x12MVA	-
27	Bhopal	Semriharan 132 (T Key)	36KV	Addl 2x12MVA	-
28	Bhopal	Ashta 132	36KV	Addl 1x12MVA	-
29	Bhopal	Shyampur 132	36KV	Addl 1x12MVA	-
30	Bhopal	Lalghati 132	36KV	Addl 1x12MVA	-
31	Bhopal	Itarsi 220	36KV	Addl 2x12MVA	-
32	Bhopal	Chicholi 132	36KV	Addl 1x12MVA	-
33	Bhopal	Betul 132	36KV	Addl 1x12MVA	-
34	Bhopal	Pachore 132	36KV	Addl 1x12MVA	-
35	Bhopal 400	Sironj 132	36KV	Addl 1x12MVA	-
36	Bhopal 400	Bagroda 132 (T Key)	36KV	1x12MVA	-
37	Bhopal 400	Bareilly 132 (T Key)	36KV	2x12MVA	-
38	Bhopal 400	Nasrullaganj 132	36KV	Addl 1x12MVA	-
39	Bina 400	Guna 220	36KV	2x12MVA	-
40	Satna	Anoopur 220	36KV	1x12MVA	-
41	Satna	Birsinghpur 220	36KV	1x12MVA	-
42	Satna	Dongrital 132	36KV	1x12MVA	-
43	Satna	Shahdol 220	36KV	Aug 5 by 2x12MVA	-
44	Satna	Sidhi 132	36KV	Aug 5 by 2x12MVA	-
45	Seoni	Chhindwara 132 (T Key)	36KV	2x12MVA	-
46	Seoni	Chhindwara 220	36KV	1x12MVA	-
47	Jabalpur	Sleemnabad 132	36KV	Aug 6 by 2x12MVA	-
48	Jabalpur	Patan 132	36KV	Aug 6 by 2x12MVA	-
49	Gwalior	Mahalgaon 220 (T Key)	36KV	Addl 1x12MVA	-
50	Gwalior	Datia 220	36KV	2X33MVA	-
51	Gwalior	Baroda 132 (T Key)	36KV	Addl 2x12MVA	-
52	Gwalior	Pichhor 132 (T Key)	36KV	Addl 1x12MVA	-

SI.No.	Circle	Name of EHV S/S	Proposed work		Remark, DOC
53	Gwalior	Sheopur 220 (T Key)	36KV	Addl 2x12MVA	-
54	Sagar	Sagar 400	36KV	Addl 1x12MVA	-
55	Sagar	Hatta 132	36KV	Addl 1x12MVA	-
56	Sagar	Tikamgarh 220	36KV	Addl 1x12MVA	-
57	Khandwa	Badgaon 132	36KV	Addl 1x12MVA	-
58	Khandwa	Bhikangaon 132	36KV	Addl 1x12MVA	-
59	Khandwa	Bahadarpur 132	36KV	Aug.2x5 by 2x12MVA	-
60	Khandwa	Pandhana 132	36KV	Addl 1x12MVA	-
61	Khandwa	Kasrawad 132	36KV	1x12MVA	-
62	Khandwa	Talakpura 132	36KV	1x12MVA	-
63	Khandwa	Chhoti Khargone	36KV	Aug 10 to 1x12MVA	-
64	Khandwa	Sanawad 132	36KV	1x12MVA	-
65	Khandwa	Barwaha 220	36KV	1x12MVA	-
66	Khandwa	Balwada 132	36KV	1x12MVA	-
67	Khandwa	Andad 132	36KV	1x12MVA	-
68	Khandwa	Nimrani 220	36KV	1x12MVA	-
69	Khandwa	Dhamnod 132	36KV	Aug 6 to 12MVA	-
70	Khandwa	Julwania 220	36KV	Addl 1x12MVA	-
71	Khandwa	Sendhwa 132	36KV	Addl 1x12MVA	-
72	Khandwa	Pansemal 132	36KV	Aug 5 to 12MVA	-

Discoms wise Average Supply Hours

PARTICULARS	East Zone				Central Zone			
	Sep-21	Oct-21	Nov-21	Dec-21	Sep-21	Oct-21	Nov-21	Dec-21
Commissary HQ	23:55	23:53	23:56	23:54	23:30	23:38	23:49	23:39
District HQ	23:51	23:52	23:55	23:54	23:46	23:45	23:53	23:49
Tehsil HQ	23:40	23:41	23:47	23:44	23:37	23:40	23:48	23:43
Rural -Mixed	23:12	23:21	23:28	23:25	23:09	23:20	23:34	23:24
Rural -DLF	23:13	23:23	23:30	23:28	23:13	23:22	23:32	23:26
Rural -Irrigation	9:44	9:46	9:49	9:50	9:47	9:50	9:53	9:53
PARTICULARS	West Zone				MP			
	Sep-21	Oct-21	Nov-21	Dec-21	Sep-21	Oct-21	Nov-21	Dec-21
Commissary HQ	23:54	23:56	23:57	23:57	23:45	23:48	23:53	23:49
District HQ	23:52	23:51	23:55	23:55	23:50	23:49	23:54	23:53
Tehsil HQ	23:47	23:48	23:53	23:53	23:41	23:43	23:49	23:46
Rural -3Phase	23:21	23:38	23:34	23:32	23:12	23:22	23:31	23:25
Rural -1Phase	23:34	23:39	23:46	23:45	23:19	23:27	23:35	23:32
Total Rural	9:39	9:46	9:52	9:52	9:44	9:48	9:52	9:52

Annexure-2.3.II

LIST OF 33KV FEEDERS UNDER MPPKVCL, JABALPUR (For which group to be allocated) **JABALPUR REGION**

Name of EHV Substation	Name of 33KV feeder	Date of commissioning of feeder bay	Date of commissioning of feeder
220KV			
220 KV Seoni	33 KV Karirat	21.08.2007	06.01.2016
132KV			
132 KV Nainpur	33 KV Keolari-II	22.01.2018	28.03.2018
132 KV Ponder	33 KV NSPL	19.01.2018	19.01.2018

LIST OF 33KV FEEDERS UNDER MPPKVCL, INDORE (For which group to be allocated)

INDORE REGION

Name of EHV Substation	Name of 33KV feeder	Date of commissioning of feeder bay	Date of commissioning of feeder
132KV			
132KV Chandrawatiganj	33KV Chandrawatiganj	27.04.2015	27.04.2015

UJJAIN REGION

Name of EHV Substation	Name of 33KV feeder	Date of commissioning of feeder bay	Date of Charging of feeder
132KV			
132KV Agar	33KV Agar Town-II	03.12.2012	24.05.2018
132KV Arniyakalan	33KV Designco Manufacture & Exporter (5MW Solar Power Plant)	01.05.2018	01.05.2018

LIST OF 33KV FEEDERS UNDER MPPKVCL, BHOPAL (For which group to be allocated)

BHOPAL REGION

Name of EHV Substation	Name of 33KV feeder	Date of charging of feeder bay	Date of charging of feeder
132 KV			
132 KV Tamot	33 KV Obedullaganj	05.05.2016	02.02.2017

132 KV Salamatpur	33 KV Dewanganj 33 KV Aamkheda	04.12.2017 04.12.2014	04.12.2017 04.12.2017
132 KV Udaipura	33 KV Thaladigawan	26.04.2018	04.06.2018
132 KV Bilquisganj	33 KV Uljhawan	07.01.2018	20.07.2018

Annexure-3.2

5. PROPOSED SHUTDOWN OF TRANSMISSION ELEMENTS FOR THE PERIOD 01.02.2022 To 31.03.2022

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/	Reason
			Date	Time	Date	Time		
A- 400 KV TRANSFORMERS								
1	400	315MVA TRANSFORMER-I AT 400KV S/S UJJAIN	15/Mar/22	9:00	15/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
2	400	315MVA TRANSFORMER-II AT 400KV S/S UJJAIN	16/Mar/22	9:00	16/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
3	400	315MVA TRANSFORMER-I AT 400KV S/S SAGAR	24/Mar/22	9:00	24/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
4	400	315MVA TRANSFORMER-I AT 400KV S/S SAGAR	25/Mar/22	9:00	25/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
5	400	315MVA TRANSFORMER-II AT 400KV S/S SAGAR	29/Mar/22	9:00	29/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
6	400	315MVA TRANSFORMER-II AT 400KV S/S SAGAR	30/Mar/22	9:00	30/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
7	400	315MVA TRANSFORMER-I AT 400KV S/S CHHEGAON	21/Feb/22	10:00	22/Feb/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
8	400	315MVA TRANSFORMER-II AT 400KV S/S CHHEGAON	24/Feb/22	10:00	25/Feb/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
9	400	315MVA TRANSFORMER-I AT 400KV S/S JULWANIA	07/Mar/22	9:00	07/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
10	400	315MVA TRANSFORMER-I AT 400KV S/S JULWANIA	08/Mar/22	9:00	08/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
11	400	315MVA TRANSFORMER-II AT 400KV S/S JULWANIA	14/Mar/22	9:00	14/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
12	400	315MVA TRANSFORMER-II AT 400KV S/S JULWANIA	15/Mar/22	9:00	15/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
13	400	315MVA TRANSFORMER-I AT 400KV S/S INDORE	17/Feb/22	9:00	18/Feb/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
14	400	315MVA TRANSFORMER-I AT 400KV S/S INDORE	02/Mar/22	9:00	03/Mar/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
15	400	3*105MVA TRANSFORMER AT 400KV S/S INDORE	07/Mar/22	9:00	08/Mar/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
16	400	315MVA TRANSFORMER-III AT 400KV S/S INDORE	21/Feb/22	9:00	22/Feb/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
17	400	315MVA TRANSFORMER-III AT 400KV S/S INDORE	09/Mar/22	9:00	10/Mar/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
18	400	315MVA TRANSFORMER-IV AT 400KV S/S INDORE	23/Feb/22	9:00	24/Feb/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
19	400	315MVA TRANSFORMER-IV AT 400KV S/S INDORE	14/Mar/22	9:00	15/Mar/22	18:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
20	400	315MVA TRANSFORMER-I AT 400KV S/S PITHAMPUR	02/Mar/22	8:00	03/Mar/22	17:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
21	400	315MVA TRANSFORMER-II AT 400KV S/S PITHAMPUR	04/Mar/22	8:00	05/Mar/22	17:00	CONTINUE	FOR PRE MONSOON MAINTENANCE & TESTING WORK
B- 400 KV REACTORS								
1	400	125MVAR BHEL AT 400KV S/S SAGAR	28/Mar/22	9:00	28/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
2	400	50MVAR BUS-REACTOR AT 400KV S/S JULWANIYA (AT JULWANIYA 400KV SUBSTATION)	11/Mar/22	8:00	11/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
3	400	2X50 MVAR BUS REACTOR AT 400KV S/S PITHAMPUR	07/Mar/22	8:00	07/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
4	400	125MVAR LINE REACTOR (SSTPH-IV) AT 400KV S/S PITHAMPUR	08/Mar/22	8:00	08/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
5	400	125MVAR LINE REACTOR (SSTPH-III) AT 400KV S/S PITHAMPUR	09/Mar/22	8:00	09/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/	Reason
			Date	Time	Date	Time		
C- 400 KV FEEDER & BAYS								
1	400	400KV SATNA FEEDER AT 400KV S/S SAGAR	09/Feb/22	9:00	09/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	400	400KV BINA FEEDER AT 400KV S/S SAGAR	07/Feb/22	9:00	07/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
3	400	400KV SATNA FEEDER AT 400KV S/S SAGAR	07/Mar/22	9:00	07/Mar/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
4	400	400KV BINA FEEDER AT 400KV S/S SAGAR	03/Mar/22	9:00	03/Mar/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	400	400KV JULWANIYA AT 400KV S/S CHHEGAON	14/Feb/22	10:00	14/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	400	400KV MALWA (SSTPH) AT 400KV S/S CHHEGAON	15/Feb/22	10:00	15/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	400	400KV ISP -I AT 400KV S/S INDORE	16/Mar/22	9:00	16/Mar/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	400	400KV ISP -II AT 400KV S/S INDORE	21/Mar/22	9:00	21/Mar/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
9	400	400KV NAGDA AT 400KV S/S INDORE	24/Mar/22	9:00	24/Mar/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
D- 220 KV TRANSFORMERS								
1	220	160MVA BHEL TRANSFORMER-I AT 220KV S/S UJJAIN	07/Mar/22	9:00	07/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
2	220	160MVA BHEL TRANSFORMER-II AT 220KV S/S UJJAIN	09/Mar/22	9:00	09/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
3	220	160MVA CGL TRANSFORMER AT 220KV S/S UJJAIN	11/Mar/22	9:00	11/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
4	220	160MVA TRANSFORMER-I AT 220KV S/S GWALIOR-II (SITHOLI)	24/Feb/22	9:00	24/Feb/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
5	220	160MVA TRANSFORMER-II AT 220KV S/S GWALIOR-II (SITHOLI)	25/Feb/22	9:00	25/Feb/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
6	220	160MVA TRANSFORMER-I AT 220KV S/S GWALIOR-II (SITHOLI)	24/Mar/22	9:00	24/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
7	220	160MVA TRANSFORMER-II AT 220KV S/S GWALIOR-II (SITHOLI)	25/Mar/22	9:00	25/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
8	220	160MVA TRANSFORMER-I AT 220KV S/S DATIA	07/Feb/22	9:00	07/Feb/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
9	220	160MVA TRANSFORMER-II AT 220KV S/S DATIA	08/Feb/22	9:00	08/Feb/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
10	220	160MVA TRANSFORMER-I AT 220KV S/S DATIA	07/Mar/22	9:00	07/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
11	220	160MVA TRANSFORMER-II AT 220KV S/S DATIA	08/Mar/22	9:00	08/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
12	220	160MVA EMCO TRANSFORMER AT 220KV S/S SHIVPURI	04/Mar/22	10:00	04/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
13	220	160MVA BHEL TRANSFORMER AT 220KV S/S SHIVPURI	07/Mar/22	10:00	07/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
14	220	160MVA BBL TRANSFORMER AT 220KV S/S SHIVPURI	09/Mar/22	10:00	09/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/	Reason
			Date	Time	Date	Time		
15	220	160MVA BBL TRANSFORMER-I AT 220KV S/S SHEOPUR	14/Mar/22	10:00	14/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
16	220	160MVA BBL TRANSFORMER-II AT 220KV S/S SHEOPUR	16/Mar/22	10:00	16/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
17	220	160MVA BHEL TRANSFORMER AT 400KV S/S SAGAR	08/Mar/22	9:00	08/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
18	220	160MVA AREVA TRANSFORMER AT 400KV S/S SAGAR	09/Mar/22	9:00	09/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
19	220	100MVA AREVA TRANSFORMER AT 400KV S/S SAGAR	10/Mar/22	9:00	10/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
20	220	50MVA AREVA TRANSFORMER AT 400KV S/S SAGAR	11/Mar/22	9:00	11/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
21	220	160MVA BBL TRANSFORMER AT 400KV S/S SAGAR	12/Mar/22	9:00	12/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
22	220	160MVA BHEL TRANSFORMER AT 400KV S/S SAGAR	14/Mar/22	9:00	14/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
23	220	160MVA AREVA TRANSFORMER AT 400KV S/S SAGAR	15/Mar/22	9:00	15/Mar/22	18:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
24	220	160MVA TRANSFORMER-I AT 400KV S/S JULWANIA	22/Mar/22	9:00	22/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
25	220	160MVA TRANSFORMER-II AT 400KV S/S JULWANIA	25/Mar/22	9:00	25/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
26	220	160MVA AREVA TRANSFORMER AT 220KV S/s CHHINDWARA	04/Mar/22	9:00	04/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
27	220	160MVA BHEL TRANSFORMER AT 220KV S/s CHHINDWARA	07/Mar/22	9:00	07/Mar/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
28	220	160MVA BBL TRANSFORMER AT 220KV S/s PANDHURNA	08/Feb/22	10:00	08/Feb/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
29	220	160MVA TRANSFORMER-I AT 220KV S/s HOSHANGABAD	22/Feb/22	9:00	22/Feb/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
30	220	160MVA TRANSFORMER-II AT 220KV S/s HOSHANGABAD	23/Feb/22	9:00	23/Feb/22	17:00	DAILY	FOR PRE MONSOON MAINTENANCE & TESTING WORK
E- 220 KV FEEDER & BAYS								
1	220	220KV MAIN BUS-II AT 400KV S/S BADNAWAR	09/Feb/22	9:00	10/Feb/22	17:00	CONTINUE	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	220	220KV BUS TIE AT 400KV S/S BADNAWAR	09/Feb/22	9:00	10/Feb/22	17:00	CONTINUE	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
3	220	220KV UJJAIN-HATUNIYA-(I) PGCIL AT 220KV S/S UJJAIN	07/Feb/22	9:00	07/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
4	220	220KV UJJAIN-HATUNIYA-(II) PGCIL AT 220KV S/S UJJAIN	08/Feb/22	9:00	08/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	220	220KV UJJAIN-HATUNIYA-(I) PGCIL AT 220KV S/S UJJAIN	08/Mar/22	9:00	08/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	220	220KV UJJAIN-HATUNIYA-(II) PGCIL AT 220KV S/S UJJAIN	09/Mar/22	9:00	09/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	220	220KV MAHALGAON PGCIL-I	02/Feb/22	10:00	02/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	220	220KV MAHALGAON PGCIL-II	04/Feb/22	10:00	04/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
9	220	220KV MAHALGAON-BINA	16/Feb/22	10:00	16/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
10	220	220KV MAHALGAON-DATIA	23/Feb/22	10:00	23/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/	Reason
			Date	Time	Date	Time		
11	220	220KV MALANPUR-PGCIL-I	08/Feb/22	9:00	08/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
12	220	220KV MALANPUR-PGCIL-II	09/Feb/22	9:00	09/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
13	220	220KV MALANPUR-ADANI	10/Feb/22	9:00	10/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
14	220	220KV MALANPUR-AURAIYA	14/Feb/22	9:00	14/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
15	220	220KV MALANPUR-MORENA-I	17/Feb/22	9:00	17/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
16	220	220KV MALANPUR-MORENA-II	18/Feb/22	9:00	18/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
17	220	220KV GWALIOR-II- PGCIL-I	21/Feb/22	9:00	21/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
18	220	220KV GWALIOR-II- PGCIL-II	22/Feb/22	9:00	22/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
19	220	220KV DATIA- BINA	03/Feb/22	9:00	03/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
20	220	220KV DATIA- GWALIOR	04/Feb/22	9:00	04/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
21	220	220KV MAHALGAON-PGCIL-I	07/Mar/22	10:00	07/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
22	220	220KV MAHALGAON PGCIL-II	09/Mar/22	10:00	09/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
23	220	220KV MAHALGAON-BINA	14/Mar/22	10:00	14/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
24	220	220KV MAHALGAON-DATIA	16/Mar/22	10:00	16/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
25	220	220KV MALANPUR-PGCIL-I	15/Mar/22	9:00	15/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
26	220	220KV MALANPUR-PGCIL-II	18/Mar/22	9:00	18/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
27	220	220KV MALANPUR-ADANI	05/Mar/22	9:00	05/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
28	220	220KV MALANPUR-AURAIYA	04/Mar/22	9:00	04/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
29	220	220KV MALANPUR-MORENA-I	10/Mar/22	9:00	10/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
30	220	220KV MALANPUR-MORENA-II	11/Mar/22	9:00	11/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
31	220	220KV MEHGAON-AURAIYA	08/Mar/22	9:00	08/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
32	220	220KV MEHGAON-ADANI	12/Mar/22	9:00	12/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
33	220	220KV GWALIOR-II- PGCIL-I	21/Mar/22	9:00	21/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
34	220	220KV GWALIOR-II- PGCIL-II	22/Mar/22	9:00	22/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
35	220	220KV DATIA- BINA	03/Mar/22	9:00	03/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
36	220	220KV DATIA- GWALIOR	04/Mar/22	9:00	04/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
37	220	220KV SUKHA - ICT -I AT 220KV S/S SUKHA	02/Feb/22	8:00	03/Feb/22	18:00	CONTINUE	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
38	220	220KV SUKHA - ICT -II AT 220KV S/S SUKHA	07/Feb/22	8:00	08/Feb/22	18:00	CONTINUE	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/	Reason
			Date	Time	Date	Time		
39	220	220KV SUKHA - ICT -I AT 220KV S/S SUKHA	02/Mar/22	8:00	03/Mar/22	18:00	CONTINUE	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
40	220	220KV SUKHA - ICT -II AT 220KV S/S SUKHA	07/Mar/22	8:00	08/Mar/22	18:00	CONTINUE	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
41	220	400 KV PGCIL DAMOH- MPPTCL I/C-1	25/Feb/22	9:00	25/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
42	220	400 KV PGCIL DAMOH- MPPTCL I/C-2	26/Feb/22	9:00	26/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
43	220	400 KV PGCIL DAMOH- MPPTCL I/C-3	28/Feb/22	9:00	28/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
44	220	220KV DAMOH-PG-SAGAR-MP-1	21/Feb/22	9:00	21/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
45	220	220KV DAMOH-PG-SAGAR-MP-2	23/Feb/22	9:00	23/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
46	220	220KV DAMOH-PG-SAGAR-MP-1	21/Mar/22	9:00	21/Mar/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
47	220	220KV DAMOH-PG-SAGAR-MP-2	23/Mar/22	9:00	23/Mar/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
48	220	220KV KHANDWA (PGCIL)-I AT 220KV S/S CHHANERA	09/Feb/22	10:00	09/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
49	220	220KV KHANDWA (PGCIL)-II AT 220KV S/S CHHANERA	10/Feb/22	10:00	10/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
50	220	220KV OMKARESHWAR AT 400KV S/S CHHEGAON	11/Feb/22	10:00	11/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
51	220	220KV KHANDWA (PGCIL)-I AT 400KV S/S CHHEGAON	17/Feb/22	10:00	17/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
52	220	220KV KHANDWA (PGCIL)-II AT 400KV S/S CHHEGAON	18/Feb/22	10:00	18/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
53	220	220KV KHANDWA (PGCIL) AT 220KV S/S NEPANAGAR	28/Feb/22	10:00	28/Feb/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
54	220	220KV HANDIA AT 220KV S/S BARWAHA	04/Feb/22	9:00	04/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
55	220	220KV CHHINDWARA- SEONI-PG-I	10/Mar/22	9:00	10/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
56	220	220KV CHHINDWARA- SEONI-PG-II	11/Mar/22	9:00	11/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
57	220	220KV SEONI- SEONI-PG-I	07/Mar/22	9:00	07/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
58	220	220KV SEONI- SEONI-PG-II	09/Mar/22	9:00	09/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
59	220	220KV HANDIA- ITARSI-I	07/Feb/22	10:00	07/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
60	220	220KV HANDIA-ITARSI-II	08/Feb/22	10:00	08/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
61	220	220KV HANDIA-BARWAHA	14/Feb/22	10:00	14/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
62	220	220KV HANDIA-SARNI	15/Feb/22	10:00	15/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
63	220	220KV NARSINGHPUR	16/Feb/22	10:00	16/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
64	220	220KV ITARSI NO.-I	18/Feb/22	10:00	18/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
65	220	220KV ITARSI NO.-II	21/Feb/22	10:00	21/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
66	220	220KV HOSHANGABAD-PGCIL-I	24/Feb/22	9:00	24/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK

Sr- No	KV	Line / Transformer / Reactor / Bay	From		To		Basis (Daily/	Reason
			Date	Time	Date	Time		
67	220	220KV HOSHANGABAD-PGCIL-II	25/Feb/22	9:00	25/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
68	220	220KV HOSHANGABAD-ADAMPUR	10/Feb/22	9:00	10/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
69	220	220KV HOSHANGABAD-MANDIDEEP	11/Feb/22	9:00	11/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
70	220	220KV ITARSI PGCIL-II	16/Feb/22	9:00	16/Feb/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT ITARSI 220KV S/S
71	220	220KV ITARSI PGCIL-I	23/Mar/22	9:00	23/Mar/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT ITARSI 220KV S/S

Unitwise / Stationwise Genration in MU							
A. Thermal			Ann 4.1				
Strn. Name	UNIT No.	Capacity MW	Sep-21	Oct-21	Nov-21	Dec-21	
AMARKA	5	210	139.55	121.64	102.24	143.47	
	PH III	210	139.55	121.64	102.24	143.47	
	TOT	210	139.55	121.64	102.24	143.47	
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	170.48	145.67	112.55	170.13	
	PH IV	500	269.02	292.63	251.01	340.71	
TOT	1330	269.02	292.63	251.01	340.71		
SANJAY GANDHI	1	210	62.32	0.00	54.56	118.14	
	2	210	0.00	73.22	43.21	115.39	
	PH I	420	62.32	73.22	97.77	233.53	
	3	210	95.76	84.32	81.38	108.27	
	4	210	102.51	89.82	87.44	118.86	
	PH II	420	198.27	174.14	168.83	227.14	
	5	500	108.18	126.43	159.31	319.36	
	PH III	500	108.18	126.43	159.31	319.36	
TOT	1340	368.77	373.79	425.90	780.03		
SSTPS	1	600	134.33	173.67	115.17	307.98	
	2	600	81.54	258.45	268.86	308.40	
	PH1	1200	215.87	432.12	384.03	616.38	
	3	660	320.79	275.04	321.53	372.28	
	4	660	166.25	0.00	0.00	0.00	
	PH II	1320	487.04	275.04	321.53	372.28	
TOT	2520	702.91	707.16	705.56	988.66		
MPPGCL THERMAL		5400	1480.24	1495.22	1484.71	2252.86	
B. Hydel							
Station Name	Capacity MW	Sep-21	Oct-21	Nov-21	Dec-21		
GANDHISAGAR	115.0	0.00	12.07	34.85	39.09		
R.P.SAGAR	172.0	0.00	0.00	0.00	0.67		
J.SAGAR	99.0	9.70	11.58	33.38	36.40		
CHAMBAL	386.0	9.70	23.65	68.23	76.15		
M.P.CHAMBAL	193.0	4.85	11.82	34.12	38.08		
PENCH	160.0	23.70	49.31	22.95	26.81		
M.P.PENCH	107.0	15.80	32.88	15.30	17.87		
BARGI	90.0	33.82	37.87	16.17	27.19		
TONS	315.0	122.96	120.23	80.09	82.58		
BIRSINGHPUR	20.0	13.39	2.95	0.42	0.01		
B.SGR(DEOLONDH)	60.0	0.02	13.19	0.00	0.00		
B.SGR(SILPARA)	30.0	5.55	8.29	7.62	8.38		
RAJGHAT	45.0	22.27	10.88	0.47	0.00		
M.P.RAJGHAT	22.5	13.29	6.50	0.28	0.00		
B.SGR(JINHA)	20.0	6.96	9.43	9.42	12.70		
MADIKHEDA	60.0	42.09	22.00	2.31	7.51		
TOTAL HYDEL	1186.0	280.46	297.79	207.68	241.33		
MPPGCL Hydel	915.0	270.76	286.21	174.30	204.26		
MPSEB HYDEL Share	917.5	258.73	265.14	165.72	194.31		
C. NHDC (Ex-Bus)							
Station Name	Capacity MW	Sep-21	Oct-21	Nov-21	Dec-21		
Indira Sagar Hydel Project	1000	46.70	139.29	126.19	178.69		
Omkareshwar Hydel Project	520	51.89	78.85	62.55	73.03		

ENERGY BALANCE SHEET

Year : 2021 -22

All figures in Million Unit

S No.	Source	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Total
		30	31	30	31	31	30	31	30	31	275
A.	M.P. Availability										
1	Thermal	1883.92	1391.54	1154.33	1474.73	1270.07	1387.05	1366.94	1376.42	2104.87	13409.88
2	Hydel	170.28	166.93	156.10	188.77	245.79	254.89	261.93	163.14	190.20	1798.02
3	Total	2054.20	1558.47	1310.43	1663.50	1515.86	1641.93	1628.87	1539.56	2295.07	15207.90
B.	Exchange with other States / Systems										
1	Indira Sagar	166.56	216.64	202.72	67.36	124.00	45.06	137.24	128.61	176.30	1264.48
2	Omkareshwar	88.69	117.49	110.34	53.61	75.64	51.89	78.85	62.55	73.03	712.10
3	MPPMCL Schedule from Central Sector of WR	2591.04	2036.54	1795.54	2515.35	2379.35	2499.66	2517.74	2544.43	2426.05	21305.70
4	MPPMCL Schedule from Central Sector ER	49.50	38.09	37.67	56.23	35.39	32.15	32.33	48.15	38.08	367.59
5	Total MPPMCL Schedule from Central Sector (WR+ER)	2640.55	2074.63	1833.21	2571.58	2414.74	2531.80	2550.07	2592.58	2464.13	21673.29
6	Deviation Energy of (WR+ER)	-45.49	-81.01	-43.72	-13.80	26.60	14.63	-29.54	-31.89	-24.50	-228.72
7	NET NR ISGS POWER SCH to MP	15.64	13.64	16.66	115.49	55.87	86.82	65.60	75.18	29.91	474.81
8	RUMS SOLAR REWA (Scheduled Energy)	116.16	125.37	84.26	77.13	70.71	84.58	100.94	89.44	77.45	826.05
9	Schedule REMC (Wind) IWISL (Kuchh Gujrat)	0.00	10.46	11.69	15.49	11.75	4.60	0.00	0.00	5.56	59.55
10	Schedule From Sugan	0.00	0.00	0.03	7.08	13.35	5.54	15.94	1.41	0.00	43.34
11	LANCO Amk	173.21	195.02	187.95	104.53	0.00	158.42	149.94	179.21	189.21	1337.49
12	SASAN	949.30	1021.25	936.96	909.38	826.06	830.14	1000.03	985.86	1004.19	8463.18
13	ESSAR (STOA against LTA)	12.90	10.79	10.99	11.11	13.60	11.15	11.15	7.01	12.66	101.36
14	J P Nigri	326.52	278.67	303.37	283.00	234.33	298.64	307.27	317.44	329.87	2679.11
15	MB Power	159.11	108.27	184.50	228.65	242.15	230.66	125.55	155.05	216.46	1650.41
16	JHABUA Power	91.89	75.35	76.09	109.61	130.57	97.18	18.77	109.70	72.51	781.69
17	Other Open Access Schedule other than MPPMCL Incl. Seci	-119.33	-182.01	-185.28	-110.05	-89.02	-57.38	-109.55	-134.53	-104.71	-1091.87
18	Himachal Pradesh HYDAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	BARH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	Schedule from Sardar Sarovar	97.65	138.86	287.44	24.90	34.00	7.67	49.03	87.40	79.71	806.66
21	SCH to Railway from RGPPLEBID	197.09	191.39	197.93	220.42	222.72	222.26	230.77	222.50	236.79	1941.87
22	Schedule from SEZ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Schedule from Rihand+Matatila	4.27	6.60	9.30	6.60	12.29	12.47	14.86	7.14	12.83	86.35
24	MTOA / STOA FROM RAJASTHAN	41.76	43.15	41.76	43.15	43.15	41.01	43.15	41.76	43.15	382.05
25	Medium Term Power Purchase from CSPDCL through PTC against PPA CSPDCL dtd. 18.09.2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	Medium Term Power Purchase from Balco through PTC against PPA Balco dtd. 18.09.2012 Including Short term purchase against MTOA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Additional Power Purchase	158.67	122.59	95.27	202.91	182.23	237.09	122.78	63.06	53.35	1237.96
28	Energy Exchange	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	Banking of Energy	-308.00	-348.65	-535.18	-780.99	-455.20	-572.63	-18.40	756.83	1049.82	-1212.39
30	Sale of Power	-617.74	-156.05	-181.54	-18.15	-74.32	-134.42	-312.08	-76.76	-199.69	-1770.74
31	Total MP Schedule (Including Railway)	3939.63	3729.33	3375.42	4021.83	3889.00	4095.61	4365.84	5480.28	5573.22	38470.16
32	Total MP Drawal (Including Railway)	3894.14	3648.32	3331.70	4008.03	3915.60	4110.23	4336.29	5448.40	5548.73	38241.44
33	Wheeled Energy of Tawa HEG	2.41	0.00	0.00	0.04	0.00	5.72	4.58	9.20	10.14	32.09
34	Wheeled Energy of Wind Farm	12.97	17.72	17.04	20.14	18.04	9.45	2.93	12.35	10.76	121.39
35	Wheeled Energy of Solar Plant	103.88	97.55	90.20	108.40	95.83	106.20	94.99	85.95	79.05	862.04
36	Wheeled Energy of Bio-Mass + Baggase	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.09	19.96
37	Wheeled Energy of Ascent Hydro +SAS Hydel Hatta	1.37	0.73	2.08	2.96	4.63	3.74	1.12	0.92	1.16	18.73
38	Export to MSEB (Nepa-Dharmi) Wheeling	-15.12	-11.07	-5.67	-6.63	-5.77	-5.31	-5.28	-10.13	-13.45	-78.42
39	Deviation Energy of MPPGCL Thermal	-33.62	-4.77	-25.62	-35.93	-35.52	-32.16	-2.22	-12.14	-7.41	-189.37
40	Energy Purchased by MP from Wind Farm	324.83	487.91	542.92	602.43	532.39	245.95	141.61	261.34	270.41	3409.78
41	Energy Purchased by MP from Solar Plant	156.25	165.80	136.42	106.35	91.98	95.13	139.57	122.76	109.86	1124.13
42	Firm / Infirm Energy of HEG Mandideep+Hindalco+HEG Tawa +Trimula Ind. purchase by MP +Wheeled enrgy of CPP / IPP	152.99	168.22	174.93	110.37	79.03	38.27	71.49	93.29	105.73	994.33
43	Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadawara Bio-Mass+Shaliwahna (CHH+Umaria) + JBP MSW	3.17	2.94	2.80	2.77	2.44	2.22	4.42	5.20	3.16	29.12
44	Deviation Energy of ISP	2.17	2.72	3.24	1.82	2.58	1.64	2.05	-2.42	2.39	16.19
45	Schedule Energy of BLA Power against LTOA	0.00	0.00	0.36	0.31	3.91	2.07	1.06	0.26	0.73	8.70
46	Schedule Energy of JP BINA Power against LTOA	86.31	14.18	35.12	76.85	76.36	97.05	104.62	178.84	106.40	775.73
47	Import from bargi Left Bank Canal Power House + ISP NVDA	-0.01	-0.01	-0.01	0.14	3.63	4.23	4.05	2.93	1.42	16.37
48	Chambal Complex Excess / less Overshare by MP	5.76	-0.53	-0.43	-0.38	-6.75	-4.88	0.09	0.28	0.48	-6.34
49	Rajghat Hydel Power Station Excess / Less Overshare by MP	-0.02	-0.02	-0.02	-0.02	0.54	-0.10	-0.31	-0.32	-0.02	-0.29
50	State Supply (Ex-Power stn. Bus)	7009.78	6482.29	5928.55	6782.14	6494.43	6418.35	6746.04	7927.45	8791.05	62580.06
51	AVERAGE DAILY (Ex-Bus)	233.66	209.11	197.62	218.78	209.50	213.94	217.61	264.25	283.58	227.56
52	MINIMUM DAILY (MP Periphery)	216.64	156.16	176.84	178.59	156.08	178.01	186.23	215.38	235.08	156.08
53	MAXIMUM DAILY (MP Periphery)	235.61	223.40	206.11	249.10	235.75	227.71	234.83	282.98	298.62	298.62
54	State Supply (Ex-Power st. Bus):- YEAR : 2020-21	5365.73	6229.95	5278.13	6513.92	5867.38	6436.00	7400.83	8292.24	8614.86	59999.04
55	Year ((21-22)-(20-21))*100/Year (20-21)	30.64	4.05	12.32	4.12	10.69	-0.27	-8.85	-4.40	2.05	4.30
56	Unshedule L/S : Year-2021-22	0.00	0.00	0.00	0.00	48.62	0.00	0.00	0.00	0.00	48.62
57	Frequency Correction	4.29	3.14	2.54	2.71	3.35	2.12	4.85	4.27	4.16	31.43
58	Restricted Requirement : Year-2021-22	7014.07	6485.43	5931.09	6784.84	6546.41	6420.47	6750.89	7931.72	8795.20	62660.12
59	Shedule L/S : Year-2021-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ENERGY BALANCE SHEET : Demand & Syppy Hours

Year : 2021 -22

S.NO	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Yr 20-21	
C. MORNING PEAK (MAX)											
1	DEMAND MET	11153	10113	9235	10889	10521	10345	10694	14139	15172	15172
2	LOAD RELIEF	0	0	0	0	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	0	0	0	0	0	0
D. EVENING PEAK (MAX)											
1	DEMAND MET	10238	9260	9053	10503	10182	10208	10905	13106	14143	14143
2	LOAD RELIEF	0	0	0	0	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	0	0	0	0	0	0
F. REGISTERED MAXIMUM											
		11153	10113	9279	11036	10521	10345	10905	14314	15692	15692
G. COMPUTED MAXIMUM DEMAND											
		11153	10113	9279	11036	10779	10364	10921	14314	15692	15692
H. UNRESTRICTED MAXIMUM DEMAND											
		11153	10113	9279	11036	10779	10364	10921	14314	15692	15692
I. Average Power Supply per day to											
1.	Div. Head Quarters	23:52	23:46	23:46	23:49	23:49	23:45	23:48	23:53	23:49	23:48
2.	District Head Quarters	23:53	23:50	23:47	23:51	23:47	23:50	23:49	23:54	23:53	23:50
3.	Tahsil Head Quarters	23:47	23:38	23:38	23:41	23:40	23:41	23:43	23:49	23:46	23:42
4.	Rural -Mixed	23:29	23:10	23:08	23:12	22:43	23:12	23:22	23:31	23:25	23:15
5.	Rural -DLF	23:32	23:20	23:16	23:21	22:56	23:19	23:27	23:35	23:32	23:22
6.	Rural -Irrigation	9:50	9:46	9:44	9:46	9:34	9:44	9:48	9:52	9:52	9:46
J											
	LOAD FACTOR %	87.26	86.01	88.56	82.41	82.82	86.11	83.14	76.92	75.10	83.15

FREQUENCY ANALYSIS YEAR 2020-21

S.N	PARTICULARS	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Yr 20-21
A. INTGRATED FREQUENCY											
1	MAXIMUM	50.10	50.12	50.11	50.14	50.10	50.12	50.13	50.14	50.23	50.23
2	MINIMUM	49.83	49.82	49.77	48.71	49.81	49.72	49.77	49.82	49.85	48.71
B. INSTANTANEOUS FREQUENCY											
1	MAXIMUM	50.30	50.28	50.27	50.26	50.22	50.23	50.29	50.27	50.34	50.34
2	MINIMUM	49.69	49.63	49.64	49.51	49.53	49.50	49.50	49.63	49.62	49.50
C. AVG FREQUENCY											
		50.00	50.00	50.01	50.01	50.00	50.01	49.99	50.00	50.00	50.00
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	50.05 TO 51.5 Hz	17.11	18.85	19.37	19.59	15.40	18.81	14.51	17.88	19.55	17.89
3	49.9 TO 50.05 Hz	74.93	74.50	74.53	75.06	76.93	77.02	74.39	74.10	73.14	74.95
4	49.7 TO 49.9 Hz	7.96	6.65	6.10	5.35	7.67	4.17	11.10	8.02	7.31	7.16
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	48.8 TO 49.2 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	48.5 TO 48.8 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	BELOW 48.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- September 2021

FIGURES IN MW

Hrs.	FREQ.	Own Generation										Schedule from																	Tot Avl.	Act. Drl	Deviation	Export to MS	DEMAND MET	Load Shedding			REST. DEMAND	UNREST DEMAND	
		THER. Ind Aux	THER. Ext Aux	HYD.	ISP	OSP	Total IPPs Injection	Total CPPs Injection	Total	CSS	Net NR to MP	Suge n	Lanco	Sasan	Essa r	JP Nigri	RUMS (RSJA R) RDSH TO MPPM/CL	MB Power	Jhabu a Power	SSP	SCH to Railw ay	SEZ	Banking	Sale	Pur	STOA	Rihan z-Ma ntra- FROM RAJAS THAN	MTOA / STOA						Total	SCH	UN SCH			TOTAL
1:00	50.03	2110	1969	372	67	141	209	452	3211	3656	142	11	207	1105	15	395	0	335	143	8	310	0	-1455	-73	530	-17	5	54	5372	8582	5500	129	-8	8703	0	0	0	8704	8704
2:00	50.02	2103	1963	367	35	125	206	446	3143	3563	155	6	207	1108	14	395	0	328	143	7	310	0	-1455	-59	496	-17	5	54	5260	8403	5265	5	-8	8400	0	0	0	8401	8401
3:00	50.01	2090	1951	358	19	95	207	444	3075	3558	173	8	207	1112	14	398	0	328	143	7	306	0	-1455	-24	538	-18	5	54	5352	8427	5368	15	-8	8435	0	0	0	8436	8436
4:00	50.02	2093	1954	366	12	86	207	440	3065	3514	156	5	207	1121	13	400	0	326	137	6	309	0	-1455	-12	519	-18	5	54	5287	8352	5307	20	-8	8364	0	0	0	8366	8366
5:00	50.00	2100	1961	369	20	84	204	420	3057	3410	162	0	209	1125	14	401	0	323	137	6	310	0	-1273	-40	484	-17	5	54	5309	8366	5356	46	-8	8405	0	0	0	8408	8408
6:00	50.00	2126	1985	369	32	67	199	400	3053	3332	132	3	212	1120	14	402	11	316	129	6	310	0	-655	-101	303	-18	5	54	5574	8627	5659	85	-8	8704	0	0	0	8707	8707
7:00	50.01	2154	2011	395	100	67	211	427	3211	3587	284	10	214	1145	15	402	20	323	143	7	307	0	-658	-51	314	-34	5	54	6085	9296	6177	93	-8	9380	0	0	0	9383	9383
8:00	50.06	2153	2010	406	75	3	207	555	3256	3636	246	9	216	1131	14	402	129	318	143	7	304	0	-644	-137	303	-76	5	54	6059	9315	6056	-3	-8	9305	0	0	0	9305	9305
9:00	50.04	2081	1943	398	28	0	198	750	3317	3529	139	3	210	1123	13	402	258	321	143	9	310	0	-598	-137	281	-120	5	54	5944	9261	5892	-52	-7	9202	0	0	0	9202	9202
10:00	50.04	2044	1908	366	15	0	187	900	3375	3228	81	2	214	1117	13	402	358	307	132	10	302	0	-612	-173	271	-163	5	54	5547	8922	5464	-83	-7	8832	0	0	0	8834	8834
11:00	50.04	1998	1865	344	8	0	173	992	3381	3126	54	0	216	1121	13	401	410	314	116	10	282	0	-612	-170	260	-202	5	54	5398	8779	5396	-2	-7	8770	0	0	0	8771	8771
12:00	50.02	1963	1832	349	20	0	157	1044	3403	3012	48	0	216	1108	13	401	429	266	101	15	280	0	-611	-309	254	-209	5	54	5072	8475	4958	-114	-6	8355	0	0	0	8356	8356
13:00	50.02	1921	1793	337	0	0	160	1078	3368	2978	54	0	216	1136	13	401	405	269	94	15	302	0	-615	-239	253	-214	5	56	5128	8496	5049	-79	-6	8411	0	0	0	8415	8415
14:00	50.04	1881	1755	315	0	0	163	1062	3295	2953	73	0	216	1112	13	401	348	238	75	15	292	0	-614	-155	267	-195	5	56	5100	8395	5027	-73	-6	8316	0	0	0	8316	8316
15:00	50.01	1892	1766	331	4	0	165	972	3238	3032	81	1	216	1116	13	401	255	270	107	16	287	0	-627	-299	274	-163	5	56	5042	8280	5080	38	-6	8312	0	0	0	8315	8315
16:00	49.99	1834	1805	347	10	0	173	792	3127	3101	79	1	216	1128	14	403	149	274	107	16	300	0	-627	-219	283	-120	5	56	5165	8292	5086	-78	-6	8208	0	0	0	8213	8213
17:00	49.97	1965	1834	355	28	0	178	545	2939	3257	104	1	216	1118	15	403	37	304	123	16	306	0	-637	-211	270	-80	5	56	5305	8244	5322	17	-6	8255	0	0	0	8266	8266
18:00	49.96	2059	1922	384	165	3	190	358	3022	3361	135	4	213	1125	19	404	16	305	129	18	309	0	-635	-230	234	-36	5	56	5431	8453	5472	41	-7	8487	0	0	0	8500	8500
19:00	49.97	2121	1980	400	333	136	209	353	3412	3699	127	25	213	1115	21	405	0	333	149	17	287	0	-542	-209	276	-28	5	56	5948	9360	6054	107	-8	9458	0	0	0	9471	9471
20:00	50.04	2137	1996	397	299	247	206	365	3509	3741	109	30	213	1100	21	405	0	331	150	15	299	0	-642	-344	263	-27	5	56	5724	9233	5640	-83	-8	9141	0	0	0	9141	9141
21:00	50.01	2119	1978	387	96	191	203	365	3221	3659	75	20	216	1105	21	405	0	331	149	13	309	0	-642	-427	250	-27	5	56	5518	8739	5520	2	-8	8732	0	0	0	8735	8735
22:00	50.04	2118	1978	383	79	175	204	404	3223	3590	58	16	216	1097	20	405	0	329	149	13	313	0	-642	-439	258	-28	5	56	5416	8639	5345	-71	-8	8560	0	0	0	8560	8560
23:00	50.03	2115	1975	379	64	167	202	426	3212	3598	62	14	216	1098	19	405	0	328	144	10	313	0	-642	-305	331	-29	5	56	5624	8836	5672	48	-8	8876	0	0	0	8877	8877
24:00	50.02	2118	1978	371	40	156	201	445	3190	3521	54	11	216	1100	17	401	0	328	144	9	304	0	-642	-304	303	-25	5	56	5498	8688	5545	47	-8	8727	0	0	0	8728	8728
Avg.	50.02	2058	1921	369	65	73	193	601	3221	3402	116	7	213	1116	15	402	118	310	130	11	303	0	-791	-194	326	-78	5	55	5465	8686	5467	2	-7	8681	0	0	0	8684	8684
00 TO 06 HRS.	50.01	2104	1964	367	31	100	205	434	3101	3505	153	5	208	1115	14	398	2	326	139	7	309	0	-1291	-52	478	-17	5	54	5359	8460	5409	50	-8	8502	0	0	0	8504	8504
06 TO 12 HRS.	50.04	2065	1928	376	41	12	189	778	3324	3353	142	4	214	1124	13	402	267	308	130	10	297	0	-622	-163	280	-134	5	54	5684	9008	5657	-27	-7	8974	0	0	0	8975	8975
12 TO 18 HRS.	50.00	1942	1812	345	34	0	172	801	3165	3114	88	1	215	1122	15	402	202	276	106	16	299	0	-625	-225	263	-135	5	56	5195	8360	5173	-22	-6	8332	0	0	0	8337	8337
06 TO 18 HRS.	50.02	2004	1870	361	38	6	180	790	3244	3233	115	3	215	1123	14	402	235	292	118	13	298	0	-624	-194	272	-134	5	55	5440	8684	5415	-25	-7	8653	0	0	0	8656	8656
18 TO 24 HRS.	50.02	2122	1981	386	152	179	204	393	3294	3635	81	19	215	1102	20	405	0	330	148	13	304	0	-625	-338	280	-27	5	56	5621	8916	5630	8	-8	8916	0	0	0	8919	8919

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- October 2021

FIGURES IN MW

Hrs.	FREQ.	Own Generation										Schedule from																	Load Shedding				UNREST DEMAND						
		THER Ind Aux	THER Ext Aux	HYD.	ISP	OSP	Total IPPs Injection	Total CPPs Injection	Total	CSS	Net NR to MP	Suge n	Lanco	Sasan	Essa r	JP Nigri	RUMS (RSJA R) RDSHA TO MPPM/CL	MB Power	Jhabu a Power	SSP	SCH to Railway	SEZ	Banking	Sale	Pur	STOA	Rihan z-Ma hatta- RAJAS at	MTOA / STOA FROM RAJAS THAN	Total	Tot Avt.	Act. Drl	Devia tion		Expor t to MS	DEMAN D MET	SCH	UN SCH	TOTAL	REST. DEMAN D
1:00	49.99	1985	1854	350	85	135	239	262	2924	3327	29	23	199	1287	14	400	0	160	27	58	271	0	-26	-219	161	-61	12	56	5719	8643	5677	-42	-7	8593	0	0	0	8598	8598
2:00	50.00	1990	1858	343	20	110	225	259	2815	3285	29	23	195	1286	14	396	0	160	7	58	281	0	-26	-264	154	-72	13	56	5597	8412	5410	-187	-7	8218	0	0	0	8222	8222
3:00	50.00	1990	1858	337	4	69	217	256	2741	3217	52	22	195	1302	13	396	0	152	9	56	283	0	-26	-274	145	-78	13	56	5534	8275	5511	-23	-7	8246	0	0	0	8249	8249
4:00	50.02	2002	1870	334	8	55	223	262	2751	3207	47	19	195	1286	13	396	0	151	12	54	284	0	-26	-226	152	-78	13	56	5556	8307	5459	-97	-7	8203	0	0	0	8205	8205
5:00	49.97	2000	1867	331	23	59	223	257	2759	3181	75	16	195	1284	13	396	0	143	12	58	298	0	-26	-210	158	-78	13	56	5584	8344	5550	-35	-7	8302	0	0	0	8312	8312
6:00	50.00	2026	1892	373	180	74	247	246	3011	3324	126	22	195	1279	14	396	7	156	29	58	281	0	-26	-234	185	-40	13	56	5839	8850	5804	-35	-7	8808	0	0	0	8813	8813
7:00	49.98	2055	1919	410	433	107	265	303	3437	3610	140	25	195	1290	14	396	13	204	36	61	266	0	-26	-97	185	-62	13	56	6319	9756	6325	6	-8	9754	0	0	0	9763	9763
8:00	50.05	2050	1915	428	409	150	260	584	3747	3579	84	25	195	1294	13	393	153	193	36	61	285	0	-26	-242	185	-132	13	56	6165	9911	6010	-154	-8	9749	0	0	0	9749	9749
9:00	50.04	2052	1917	416	295	139	238	808	3814	3401	46	14	195	1299	12	388	311	145	31	62	296	0	-39	-413	185	-205	13	56	5798	9612	5682	-106	-7	9498	0	0	0	9500	9500
10:00	50.03	2049	1914	379	161	96	226	1038	3814	3328	73	14	195	1299	12	387	426	146	24	71	294	0	-39	-672	157	-288	13	56	5497	9312	5272	-225	-7	9079	0	0	0	9081	9081
11:00	50.01	2008	1875	335	32	44	223	1162	3670	3227	58	14	195	1299	12	387	495	147	24	74	279	0	-39	-679	132	-335	13	56	5359	9029	5278	-81	-6	8941	0	0	0	8945	8945
12:00	49.97	1993	1861	336	50	31	222	1147	3647	3105	49	14	195	1292	12	387	508	147	21	72	277	0	-39	-757	125	-368	13	56	5109	8756	4983	-126	-6	8624	0	0	0	8635	8635
13:00	50.01	1994	1862	330	8	27	217	1111	3556	3045	62	14	195	1318	12	387	480	145	18	72	298	0	-39	-615	133	-364	13	56	5230	8786	5232	2	-6	8782	0	0	0	8786	8786
14:00	50.00	1997	1865	326	8	27	224	1020	3470	3049	83	16	195	1311	12	387	410	145	21	72	281	0	-39	-557	133	-334	13	56	5253	8724	5345	91	-6	8809	0	0	0	8814	8814
15:00	49.95	2013	1879	319	32	27	240	858	3355	3279	99	17	195	1337	13	395	293	138	30	72	263	0	-39	-534	162	-263	13	56	5526	8882	5559	32	-6	8908	0	0	0	8924	8924
16:00	49.97	2010	1877	336	90	31	254	617	3205	3346	152	20	194	1345	14	407	147	174	36	72	268	0	-39	-511	178	-171	13	56	5701	8906	5658	-42	-6	8858	0	0	0	8867	8867
17:00	49.95	2032	1897	354	221	58	263	326	3119	3407	171	19	195	1318	15	409	17	163	42	70	277	0	-39	-423	186	-97	13	56	5800	8919	5753	-47	-6	8866	0	0	0	8882	8882
18:00	49.94	2055	1918	411	533	116	269	206	3453	3503	85	28	195	1294	17	410	6	196	38	70	258	0	-39	-326	186	-57	13	56	5935	9388	5854	-80	-7	9301	0	0	0	9321	9321
19:00	49.98	2071	1934	440	640	238	277	286	3816	3600	66	34	195	1297	19	412	0	243	38	69	257	0	0	-337	187	-62	13	56	6087	9903	6018	-69	-8	9825	0	0	0	9838	9838
20:00	50.04	2058	1922	414	400	257	262	324	3578	3437	76	28	195	1295	18	414	0	201	32	63	260	0	0	-454	187	-59	13	56	5762	9340	5623	-139	-8	9193	0	0	0	9194	9194
21:00	50.02	2012	1879	390	298	192	232	319	3310	3248	101	25	195	1298	16	415	0	169	17	66	286	0	0	-597	185	-64	13	56	5428	8738	5347	-82	-8	8648	0	0	0	8651	8651
22:00	50.03	1995	1863	376	191	173	231	303	3135	3189	66	19	195	1298	16	415	0	121	3	64	299	0	0	-491	162	-78	13	56	5347	8483	5293	-55	-8	8420	0	0	0	8421	8421
23:00	49.99	1963	1833	371	223	181	242	296	3145	3298	76	23	195	1293	15	415	0	153	25	65	282	0	0	-238	162	-75	13	56	5759	8904	5743	-16	-7	8881	0	0	0	8886	8886
24:00	50.00	1966	1836	362	151	158	245	294	3045	3286	73	22	198	1293	14	415	0	154	15	66	287	0	0	-238	164	-73	13	56	5744	8789	5657	-87	-7	8694	0	0	0	8699	8699
Avg.	50.00	2015	1882	367	187	106	240	523	3305	3312	80	21	195	1300	14	400	136	163	24	65	280	0	-25	-400	165	-146	13	56	5652	8957	5585	-67	-7	8883	0	0	0	8890	8890
00 TO 06 HRS.	50.00	1999	1866	345	53	84	229	257	2834	3257	60	21	196	1287	13	397	1	154	16	57	283	0	-26	-238	159	-68	13	56	5638	8472	5568	-70	-7	8395	0	0	0	8400	8400
06 TO 12 HRS.	50.01	2035	1900	384	230	95	239	840	3688	3375	75	18	195	1296	12	389	318	164	29	67	283	0	-34	-477	161	-232	13	56	5708	9396	5993	-115	-7	9274	0	0	0	9279	9279
12 TO 18 HRS.	49.97	2017	1883	346	149	48	245	690	3360	3272	109	19	195	1320	14	399	225	160	31	71	274	0	-39	-494	163	-214	13	56	5574	8934	5567	-7	-6	8921	0	0	0	8932	8932
06 TO 18 HRS.	49.99	2026	1892	365	189	71	242	765	3524	3323	92	18	195	1308	13	394	272	162	30	69	278	0	-37	-486	162	-223	13	56	5641	9165	5580	-61	-7	9097	0	0	0	9106	9106
18 TO 24 HRS.	50.01	2011	1878	392	317	200	248	304	3338	3343	76	25	196	1296	16	414	0	174	22	65	279	0	0	-392	174	-69	13	56	5688	9026	5613	-75	-8	8944	0	0	0	8948	8948

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- November 2021

FIGURES IN MW

Hrs.	Own Generation														Schedule from														Load Shedding				REST. DEMAND	UNREST. DEMAND					
	FREQ.	THER. Incl Aux	THER. Excl Aux	HYD.	ISP	OSP	Total IPPs Injection	Total CPPs Injection	Total	CSS	Net NR to MP	Sugge n	Lanco	Sasan	Essa r	JP Nigri	RUMS (SOLA R) REVA TO IPPM CL	MB Power	Jhabu a power	SSP	SCH to Rainw ay	SEZ	Banking	Sale	Pur	STOA	Rihan d+Ma tala- Raigh at	MTQA/ STOA FROM RAJAS THAN	Total	Tot Avl.	Act. Drl	Devia- tion			Expor t to MS	DEMAND MET	SCH	UN SCH	TOTAL
1:00	49.98	1958	1829	198	8	7	354	522	2918	3224	51	2	246	1318	4	421	0	155	158	76	306	0	488	-16	83	-125	9	56	6455	9374	6451	-4	-11	9358	0	0	0	9366	9366
2:00	49.99	1949	1821	191	12	4	313	508	2849	3074	50	0	246	1319	4	421	0	76	99	78	311	0	488	-13	65	-131	9	56	6152	9002	5854	-299	-11	8692	0	0	0	8698	8698
3:00	49.99	1917	1791	178	13	0	295	504	2780	2991	53	0	225	1320	4	421	0	61	63	76	303	0	488	0	63	-165	9	56	5967	8747	5878	-89	-10	8648	0	0	0	8654	8654
4:00	50.01	1893	1768	183	4	20	293	509	2776	2970	49	0	234	1336	4	421	0	61	68	76	302	0	488	-18	67	-165	9	56	5958	8735	5822	-137	-10	8588	0	0	0	8590	8590
5:00	50.02	1899	1774	182	38	35	292	530	2850	3040	62	0	234	1326	5	421	0	54	74	76	305	0	488	-72	62	-165	9	56	5974	8825	6031	57	-10	8871	0	0	0	8873	8873
6:00	50.01	1964	1835	208	111	56	334	542	3088	3064	47	0	238	1326	5	422	0	124	108	82	310	0	1464	-360	84	-138	9	56	6842	9929	6716	-126	-12	9792	0	0	0	9794	9794
7:00	49.97	2135	1996	246	235	130	407	567	3561	3723	77	6	246	1327	6	427	8	295	184	125	302	0	1492	-117	93	-95	9	56	8165	11746	8050	-115	-15	11616	0	0	0	11629	11629
8:00	50.01	2174	2032	269	264	164	415	790	3934	3819	69	5	246	1327	7	427	115	294	179	149	302	0	1492	-258	93	-158	9	56	8174	12108	7906	-268	-17	11823	0	0	0	11827	11827
9:00	50.00	2155	2015	264	158	123	419	932	3911	3764	38	2	246	1326	7	427	281	270	184	115	312	0	1492	-344	93	-230	9	56	8049	11960	8002	-47	-17	11896	0	0	0	11904	11904
10:00	50.00	2126	1987	242	224	142	418	1043	4056	3563	46	0	246	1326	6	427	406	248	180	84	305	0	1492	-302	93	-288	9	56	7897	11953	7896	-2	-16	11936	0	0	0	11944	11944
11:00	50.03	2135	1996	247	269	138	412	1171	4233	3609	73	2	246	1332	5	422	482	275	179	84	271	0	1492	-7	93	-338	9	56	8266	12519	8359	73	-16	12577	0	0	0	12581	12581
12:00	50.02	2119	1981	254	268	127	409	1228	4268	3514	66	2	246	1326	4	421	497	234	168	83	271	0	1492	-17	98	-366	9	56	8102	12370	7810	-292	-15	12062	0	0	0	12066	12066
13:00	50.01	2122	1984	238	232	110	406	1187	4158	3652	146	2	246	1318	4	421	464	256	157	78	290	0	1492	0	106	-361	9	56	8338	12496	8383	45	-15	12526	0	0	0	12530	12530
14:00	50.02	2106	1968	227	226	124	412	1070	4027	3660	190	2	237	1321	4	421	391	262	167	78	284	0	1492	-7	117	-323	9	56	8362	12389	8228	-134	-16	12239	0	0	0	12244	12244
15:00	49.99	2121	1982	230	223	114	418	858	3825	3699	224	3	237	1321	4	421	258	271	173	80	286	0	1492	0	111	-264	9	56	8383	12207	8340	-43	-16	12149	0	0	0	12159	12159
16:00	49.97	2138	1999	247	342	147	420	573	3728	3780	275	2	237	1318	5	429	86	265	179	80	290	0	1492	-21	93	-200	9	56	8375	12104	8334	-41	-16	12047	0	0	0	12059	12059
17:00	49.95	2152	2013	251	359	166	419	278	3487	3869	261	3	237	1318	7	435	9	275	179	199	302	0	1492	-47	93	-123	9	56	8575	12062	8638	63	-17	12108	0	0	0	12127	12127
18:00	49.97	2174	2033	295	511	227	420	296	3781	3910	95	3	237	1321	8	437	1	272	180	291	300	0	1492	-208	93	-94	9	56	8403	12184	8136	-267	-17	11901	0	0	0	11916	11916
19:00	50.05	2179	2037	292	437	134	420	422	3743	3877	143	6	237	1318	8	438	0	317	176	282	323	0	798	-160	93	-91	9	56	7832	11575	7626	-205	-16	11353	0	0	0	11353	11353
20:00	50.03	2144	2004	268	263	69	417	517	3537	3690	110	3	237	1318	7	437	0	279	179	263	330	0	670	-158	84	-126	9	56	7388	10926	7102	-287	-15	10623	0	0	0	10625	10625
21:00	49.99	2079	1943	236	106	46	380	559	3270	3410	40	2	237	1318	6	434	0	250	157	110	328	0	488	-274	81	-124	9	56	6527	9796	6316	-210	-15	9571	0	0	0	9576	9576
22:00	50.04	1996	1865	226	44	17	343	557	3052	3090	27	0	237	1318	6	425	0	126	113	108	334	0	488	-358	81	-132	9	56	5927	8979	5690	-237	-14	8728	0	0	0	8728	8728
23:00	50.01	1985	1855	218	12	11	350	570	3015	3198	40	0	236	1318	5	423	0	108	135	107	315	0	488	-66	81	-127	9	56	6325	9340	6343	18	-13	9346	0	0	0	9348	9348
24:00	50.03	1973	1844	198	12	17	351	564	2986	3227	47	0	246	1314	5	422	0	126	125	99	339	0	488	-13	81	-127	9	56	6444	9431	6328	-117	-12	9302	0	0	0	9303	9303
Avg.	50.00	2066	1931	233	182	89	380	679	3494	3476	95	2	240	1322	6	426	125	206	149	120	305	0	1051	-118	88	-186	9	56	7371	10865	7260	-111	-14	10740	0	0	0	10746	10746
00 TO 06 HRS.	50.00	1930	1803	190	31	20	313	519	2877	3060	52	0	237	1324	5	421	0	88	95	77	306	0	651	-80	71	-148	9	56	6225	9102	6125	-100	-11	8992	0	0	0	8996	8996
06 TO 12 HRS.	50.01	2141	2001	254	236	137	413	955	3997	3665	62	3	246	1328	6	425	298	269	179	106	294	0	1492	-174	94	-246	9	56	8112	12109	8004	-108	-16	11985	0	0	0	11992	11992
12 TO 18 HRS.	49.99	2136	1997	248	316	148	416	710	3834	3762	198	2	239	1320	5	427	201	267	173	134	292	0	1492	-47	102	-227	9	56	8406	12240	8343	-63	-16	12161	0	0	0	12172	12172
06 TO 18 HRS.	50.00	2138	1999	251	276	143	415	833	3916	3714	130	3	242	1324	6	426	250	268	176	120	293	0	1492	-110	98	-236	9	56	8259	12175	8173	-86	-16	12073	0	0	0	12082	12082
18 TO 24 HRS.	50.02	2059	1924	240	146	49	377	532	3267	3415	68	2	239	1317	6	430	0	201	148	162	328	0	570	-172	84	-121	9	56	6740	10008	6567	-173	-14	9820	0	0	0	9822	9822

Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand
Month :- December 2021

FIGURES IN MW

Hrs.	Own Generation										Schedule from																	Load Shedding			REST. DEMAND	UNREST. DEMAND							
	FREQ.	THER. Incl Aux	THER. Excl Aux	HYD.	ISP	OSP	Total IPPs Injection	Total CPPs Injection	Total	CSS	Net NR to MP	Suge n	Lanco	Sasan	Essa r	JP Nigri	RUMS (SOLA R) REVA TO IPPM CL	MB Power	Jhabu a Power	SSP	SCH to Rainw ay	SEZ	Banking	Sale	Pur	STOA	Rihan d+Ma tatala- Raigh at	MTQA/ STOA FROM RAJAS THAN	Total	Tot Avl.			Act. Drl	Devia- tion	Expor t to MS	DEMAND MET	SCH	UN SCH	TOTAL
1:00	50.00	2678	2500	126	12	23	223	613	3497	2747	32	0	236	1310	11	414	0	187	36	81	320	0	662	-92	7	-198	16	56	5826	9324	5787	-40	-13	9270	0	0	0	9274	9274
2:00	50.01	2515	2349	123	2	23	223	603	3323	2638	41	0	206	1288	10	414	0	109	6	82	328	0	662	-69	0	-198	16	56	5588	8911	5298	-290	-13	8608	0	0	0	8613	8613
3:00	50.02	2444	2283	123	0	23	223	611	3263	2587	17	0	189	1233	9	414	0	96	0	81	321	0	662	-86	8	-210	16	56	5394	8658	5270	-125	-12	8521	0	0	0	8525	8525
4:00	50.03	2407	2249	123	0	23	222	606	3222	2587	17	0	175	1214	9	414	0	96	0	81	318	0	662	-119	6	-210	16	56	5323	8546	5240	-83	-12	8451	0	0	0	8452	8452
5:00	50.02	2434	2273	130	25	27	223	566	3243	2653	26	0	186	1234	10	414	0	96	5	81	320	0	662	-104	3	-211	16	56	5447	8690	5576	130	-12	8807	0	0	0	8809	8809
6:00	50.01	2615	2440	190	106	31	231	548	3546	2648	14	0	230	1226	16	418	0	119	11	96	332	0	1713	-431	3	-195	16	56	6273	9819	6281	8	-14	9813	0	0	0	9818	9818
7:00	49.96	3087	2883	245	151	49	297	536	4160	3323	23	0	259	1290	21	437	3	338	131	91	309	0	2018	-518	88	-94	16	56	7790	11950	7713	-78	-18	11855	0	0	0	11872	11872
8:00	49.97	3286	3071	304	193	82	329	652	4631	3560	43	0	262	1314	25	442	57	378	143	103	308	0	2018	-698	91	-122	17	56	7999	12629	7884	-114	-22	12494	0	0	0	12507	12507
9:00	50.01	3314	3098	309	189	118	325	845	4884	3542	25	0	262	1318	25	442	215	354	143	93	310	0	2018	-670	91	-186	17	56	8053	12937	8018	-35	-23	12879	0	0	0	12883	12883
10:00	50.00	3302	3086	310	269	156	324	974	5119	3456	23	0	262	1317	23	442	333	369	143	87	306	0	2018	-614	91	-247	17	56	8082	13201	8045	-36	-23	13142	0	0	0	13149	13149
11:00	50.02	3305	3089	336	379	191	330	1107	5434	3509	46	0	262	1317	20	428	406	369	143	94	285	0	2018	-215	88	-290	17	56	8553	13987	8608	56	-22	14021	0	0	0	14024	14024
12:00	50.00	3304	3088	333	369	190	322	1156	5457	3425	22	0	262	1318	16	416	433	369	143	113	277	0	2018	-277	91	-309	17	56	8389	13847	8144	-245	-21	13580	0	0	0	13589	13589
13:00	50.00	3282	3068	342	445	192	323	1101	5471	3441	41	0	262	1314	13	414	414	351	143	148	283	0	2018	-130	190	-311	17	56	8663	14134	8775	111	-22	14224	0	0	0	14232	14232
14:00	50.03	3281	3067	329	441	203	323	973	5336	3458	32	0	262	1312	12	414	346	308	125	142	289	0	2018	-87	120	-287	17	56	8536	13872	8432	-104	-22	13745	0	0	0	13748	13748
15:00	50.01	3280	3066	330	397	193	326	781	5092	3483	26	0	262	1312	14	414	226	347	120	147	290	0	2018	-84	133	-241	17	56	8539	13632	8464	-75	-20	13536	0	0	0	13540	13540
16:00	49.96	3324	3107	344	477	196	329	519	4972	3535	47	0	262	1310	18	431	60	369	139	148	295	0	2018	-197	151	-174	17	56	8485	13457	8481	-4	-22	13431	0	0	0	13449	13449
17:00	49.99	3343	3126	367	544	192	341	262	4832	3615	116	0	262	1310	23	441	5	378	143	157	310	0	2018	-258	116	-107	17	56	8601	13433	8776	175	-21	13587	0	0	0	13598	13598
18:00	49.99	3360	3141	415	697	144	342	255	4995	3614	82	0	262	1310	25	442	0	378	143	137	312	0	2018	-337	91	-81	17	56	8468	13464	8209	-259	-22	13183	0	0	0	13191	13191
19:00	50.03	3357	3139	393	635	80	344	376	4967	3635	133	0	262	1313	25	442	0	378	143	134	328	0	1062	-301	91	-81	17	56	7636	12603	7550	-86	-21	12496	0	0	0	12497	12497
20:00	50.03	3359	3141	350	385	55	337	465	4731	3524	22	0	262	1317	25	442	0	378	143	103	341	0	923	-335	91	-82	17	56	7226	11958	7011	-215	-19	11723	0	0	0	11726	11726
21:00	50.02	3167	2960	273	70	52	282	528	4166	3158	15	0	262	1323	20	440	0	298	132	86	347	0	662	-360	73	-122	17	56	6407	10573	6165	-242	-18	10313	0	0	0	10315	10315
22:00	50.05	2809	2622	211	4	44	228	581	3689	2809	12	0	248	1322	14	423	0	188	47	86	346	0	662	-483	6	-197	17	56	5556	9244	5346	-210	-16	9019	0	0	0	9019	9019
23:00	50.00	2748	2564	173	4	46	224	614	3625	2803	13	0	244	1323	11	415	0	202	41	85	323	0	662	-201	6	-198	17	56	5801	9426	5728	-73	-15	9339	0	0	0	9342	9342
24:00	50.03	2715	2534	139	11	27	221	616	3549	2735	13	0	236	1324	11	414	0	194	30	83	340	0	662	-148	6	-197	16	56	5774	9323	5607	-167	-14	9142	0	0	0	9144	9144
Avg.	50.01	3030	2831	263	242	98	287	662	4384	3187	37	0	245	1299	17	426	104	277	94	106	314	0	1411	-284	68	-190	16	56	7184	11567	7100	-83	-18	11466	0	0	0	11471	11471
00 TO 06 HRS.	50.02	2515	2349	136	24	25	224	591	3349	2643	24	0	204	1251	11	415	0	117	10	84	323	0	837	-150	5	-204	16	56	5642	8991	5575	-67	-13	8912	0	0	0	8915	8915
06 TO 12 HRS.	49.99	3266	3053	306	258	131	321	878	4948	3469	30	0	262	1312	22	435	241	363	141	97	299	0	2018	-498	90	-208	17	56	8144	13092	8069	-75	-21	12995	0	0	0	13004	13004
12 TO 18 HRS.	50.00	3312	3096	355	500	187	331	649	5117	3524	57	0	262	1311	18	426	175	355	136	147	296	0	2018	-182	134	-200	17	56	8549	13665	8523	-26	-21	13618	0	0	0	13626	13626
06 TO 18 HRS.	50.00	3289	3074	330	379	159	326	764	5032	3497	44	0	262	1312	20	430	208	359	138	122	298	0	2018	-340	112	-204	17	56	8347	13379	8296	-51	-21	13306	0	0	0	13315	13315
18 TO 24 HRS.	50.03	3026	2827	257	185	51	273	530	4121	3111	35	0	253	1320	18	429	0	273	89	96	337	0	772	-305	45	-146	17	56	6400	10521	6235	-166	-17	10339	0	0	0	10340	10340

Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal
Month :- September 2021

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	50.03	2939	2982	44	0	0	2983	2983	3092	3137	45	0	0	3137	3137	2247	2278	31	0	0	2279	2279	310	305			
2:00	50.02	2786	2785	-1	0	0	2785	2785	3039	3037	-1	0	0	3038	3038	2274	2272	-2	0	0	2273	2273	310	306			
3:00	50.01	2844	2846	2	0	0	2847	2847	3044	3046	3	0	0	3047	3047	2239	2240	1	0	0	2241	2241	306	302			
4:00	50.02	2803	2807	4	0	0	2808	2808	3013	3017	4	0	0	3017	3017	2234	2236	2	0	0	2236	2236	309	305			
5:00	50.00	2768	2781	13	0	0	2782	2782	3012	3027	15	0	0	3028	3028	2283	2291	8	0	0	2292	2292	310	306			
6:00	50.00	2642	2666	24	0	0	2667	2667	3117	3146	29	0	0	3147	3147	2563	2586	23	0	0	2587	2587	310	306			
7:00	50.01	2797	2824	27	0	0	2825	2825	3344	3375	31	0	0	3376	3376	2853	2878	25	0	0	2879	2879	307	303			
8:00	50.06	2761	2758	-4	0	0	2758	2758	3287	3283	-4	0	0	3284	3284	2967	2963	-4	0	0	2964	2964	304	300			
9:00	50.04	2744	2726	-18	0	0	2727	2727	3305	3282	-23	0	0	3282	3282	2908	2888	-20	0	0	2888	2888	310	306			
10:00	50.04	2696	2667	-29	0	0	2668	2668	3143	3110	-33	0	0	3110	3110	2786	2757	-29	0	0	2758	2758	302	298			
11:00	50.04	2782	2779	-3	0	0	2779	2779	3129	3127	-3	0	0	3127	3127	2591	2587	-4	0	0	2587	2587	282	277			
12:00	50.02	2656	2616	-40	0	0	2616	2616	2987	2943	-44	0	0	2943	2943	2558	2521	-37	0	0	2522	2522	280	275			
13:00	50.02	2720	2692	-28	0	0	2693	2693	2979	2948	-31	0	0	2949	2949	2502	2474	-28	0	0	2475	2475	302	297			
14:00	50.04	2675	2648	-26	0	0	2648	2648	2941	2912	-30	0	0	2912	2912	2494	2469	-25	0	0	2469	2469	292	287			
15:00	50.01	2648	2658	10	0	0	2659	2659	2876	2887	10	0	0	2888	2888	2476	2486	10	0	0	2487	2487	287	282			
16:00	49.99	2542	2514	-28	0	0	2515	2515	2928	2896	-32	0	0	2898	2898	2530	2503	-27	0	0	2505	2505	300	295			
17:00	49.97	2436	2437	2	0	0	2440	2440	2976	2979	3	0	0	2982	2982	2535	2538	2	0	0	2541	2541	306	302			
18:00	49.96	2435	2443	8	0	0	2446	2446	3049	3060	11	0	0	3065	3065	2668	2679	11	0	0	2683	2683	309	305			
19:00	49.97	2916	2939	23	0	0	2943	2943	3302	3327	25	0	0	3331	3331	2864	2886	22	0	0	2889	2889	287	307			
20:00	50.04	3018	2983	-35	0	0	2983	2983	3184	3145	-39	0	0	3145	3145	2740	2707	-33	0	0	2707	2707	299	306			
21:00	50.01	2941	2937	-3	0	0	2938	2938	2973	2969	-4	0	0	2970	2970	2524	2520	-4	0	0	2520	2520	309	306			
22:00	50.04	2916	2889	-28	0	0	2889	2889	2935	2907	-28	0	0	2907	2907	2481	2458	-24	0	0	2458	2458	313	307			
23:00	50.03	3036	3051	15	0	0	3051	3051	3101	3116	15	0	0	3116	3116	2392	2403	10	0	0	2403	2403	313	306			
24:00	50.02	3001	3015	14	0	0	3015	3015	3052	3067	14	0	0	3067	3067	2337	2348	10	0	0	2348	2348	304	298			
Avg.	50.02	2771	2768	-2	0	0	2769	2769	3075	3073	-3	0	0	3074	3074	2544	2540	-3	0	0	2541	2541	303	299			
00 TO 06 HRS.	50.01	2797	2811	14	0	0	2812	2812	3053	3068	16	0	0	3069	3069	2307	2317	11	0	0	2318	2318	309	305			
06 TO 12 HRS.	50.04	2740	2728	-11	0	0	2729	2729	3199	3187	-13	0	0	3187	3187	2777	2766	-11	0	0	2766	2766	297	293			
12 TO 18 HRS.	50.00	2576	2565	-11	0	0	2567	2567	2958	2947	-11	0	0	2949	2949	2534	2525	-9	0	0	2527	2527	299	295			
06 TO 18 HRS.	50.02	2658	2647	-11	0	0	2648	2648	3079	3067	-12	0	0	3068	3068	2656	2645	-10	0	0	2646	2646	298	294			
18 TO 24 HRS.	50.02	2971	2969	-2	0	0	2970	2970	3091	3088	-3	0	0	3089	3089	2556	2553	-3	0	0	2554	2554	304	305			

Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal
Month :- October 2021

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	49.99	3040	3024	-16	0	0	3026	3026	2861	2847	-14	0	0	2849	2849	2429	2417	-12	0	0	2419	2419	271	305			
2:00	50.00	2830	2766	-64	0	0	2768	2768	2811	2750	-61	0	0	2751	2751	2451	2396	-54	0	0	2397	2397	281	306			
3:00	50.00	2845	2843	-2	0	0	2844	2844	2746	2745	-2	0	0	2746	2746	2361	2360	-1	0	0	2361	2361	283	298			
4:00	50.02	2837	2811	-26	0	0	2811	2811	2749	2723	-26	0	0	2723	2723	2397	2374	-23	0	0	2375	2375	284	295			
5:00	49.97	2792	2789	-3	0	0	2792	2792	2770	2765	-5	0	0	2769	2769	2444	2444	0	0	0	2447	2447	298	304			
6:00	50.00	2730	2723	-6	0	0	2725	2725	2985	2977	-7	0	0	2979	2979	2813	2806	-7	0	0	2808	2808	281	301			
7:00	49.98	3026	3028	2	0	0	3031	3031	3256	3256	0	0	0	3259	3259	3168	3172	4	0	0	3175	3175	266	297			
8:00	50.05	3025	2982	-43	0	0	2982	2982	3175	3129	-46	0	0	3129	3129	3384	3336	-48	0	0	3336	3336	285	302			
9:00	50.04	2929	2904	-25	0	0	2905	2905	3103	3076	-27	0	0	3077	3077	3242	3217	-25	0	0	3218	3218	296	300			
10:00	50.03	2881	2819	-62	0	0	2819	2819	2969	2908	-61	0	0	2908	2908	3126	3057	-69	0	0	3058	3058	294	295			
11:00	50.01	2999	2983	-16	0	0	2984	2984	2804	2789	-15	0	0	2790	2790	2906	2891	-15	0	0	2892	2892	279	279			
12:00	49.97	2767	2738	-30	0	0	2741	2741	2736	2710	-27	0	0	2713	2713	2935	2901	-34	0	0	2904	2904	277	276			
13:00	50.01	2823	2836	13	0	0	2838	2838	2746	2760	14	0	0	2761	2761	2878	2895	17	0	0	2896	2896	298	291			
14:00	50.00	2754	2797	42	0	0	2798	2798	2704	2745	41	0	0	2747	2747	2942	2991	49	0	0	2992	2992	281	277			
15:00	49.95	2830	2848	18	0	0	2853	2853	2743	2758	16	0	0	2763	2763	3007	3031	25	0	0	3037	3037	263	270			
16:00	49.97	2714	2707	-7	0	0	2710	2710	2822	2814	-8	0	0	2817	2817	3060	3052	-7	0	0	3055	3055	268	284			
17:00	49.95	2678	2668	-11	0	0	2672	2672	2945	2933	-12	0	0	2938	2938	2975	2963	-13	0	0	2968	2968	277	303			
18:00	49.94	2865	2838	-27	0	0	2844	2844	3169	3137	-32	0	0	3145	3145	3052	3023	-29	0	0	3030	3030	258	302			
19:00	49.98	3191	3160	-30	0	0	3165	3165	3383	3353	-30	0	0	3358	3358	3028	2999	-29	0	0	3003	3003	257	313			
20:00	50.04	3133	3077	-56	0	0	3078	3078	3153	3096	-56	0	0	3097	3097	2751	2703	-47	0	0	2704	2704	260	316			
21:00	50.02	3006	2980	-26	0	0	2981	2981	2857	2829	-27	0	0	2830	2830	2545	2524	-21	0	0	2524	2524	286	315			
22:00	50.03	2853	2841	-12	0	0	2841	2841	2756	2743	-12	0	0	2744	2744	2531	2520	-11	0	0	2520	2520	299	316			
23:00	49.99	3109	3107	-2	0	0	3109	3109	2905	2907	2	0	0	2909	2909	2565	2562	-3	0	0	2563	2563	282	306			
24:00	50.00	3076	3049	-27	0	0	3051	3051	2864	2838	-25	0	0	2840	2840	2516	2494	-22	0	0	2496	2496	287	312			
Avg.	50.00	2906	2888	-17	0	0	2890	2890	2917	2900	-18	0	0	2902	2902	2813	2797	-16	0	0	2799	2799	280	298			
00 TO 06 HRS.	50.00	2846	2826	-20	0	0	2828	2828	2820	2801	-19	0	0	2803	2803	2482	2466	-16	0	0	2468	2468	283	301			
06 TO 12 HRS.	50.01	2938	2909	-29	0	0	2911	2911	3007	2978	-29	0	0	2979	2979	3127	3096	-31	0	0	3097	3097	283	291			
12 TO 18 HRS.	49.97	2777	2782	5	0	0	2786	2786	2855	2858	3	0	0	2862	2862	2986	2992	7	0	0	2996	2996	274	288			
06 TO 18 HRS.	49.99	2858	2846	-12	0	0	2848	2848	2931	2918	-13	0	0	2921	2921	3056	3044	-12	0	0	3047	3047	278	290			
18 TO 24 HRS.	50.01	3061	3036	-26	0	0	3037	3037	2986	2961	-25	0	0	2963	2963	2656	2634	-22	0	0	2635	2635	279	313			

Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal
Month :- November 2021

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	49.98	2794	2805	11	0	0	2808	2808	2971	2985	14	0	0	2987	2987	3249	3265	16	0	0	3268	3268	306	303
2:00	49.99	2621	2543	-78	0	0	2545	2545	2849	2764	-85	0	0	2766	2766	3168	3077	-92	0	0	3079	3079	311	308
3:00	49.99	2448	2435	-13	0	0	2437	2437	2894	2878	-16	0	0	2880	2880	3053	3035	-18	0	0	3038	3038	303	300
4:00	50.01	2478	2451	-27	0	0	2452	2452	2883	2850	-32	0	0	2851	2851	3020	2987	-33	0	0	2988	2988	302	299
5:00	50.02	2455	2484	28	0	0	2484	2484	2863	2897	34	0	0	2898	2898	3150	3188	39	0	0	3189	3189	305	302
6:00	50.01	2622	2599	-22	0	0	2600	2600	3214	3187	-27	0	0	3188	3188	3730	3699	-31	0	0	3700	3700	310	306
7:00	49.97	3140	3119	-21	0	0	3122	3122	3915	3889	-26	0	0	3893	3893	4338	4309	-29	0	0	4314	4314	302	300
8:00	50.01	3293	3228	-64	0	0	3230	3230	3977	3898	-78	0	0	3900	3900	4485	4398	-88	0	0	4399	4399	302	298
9:00	50.00	3374	3373	-1	0	0	3375	3375	3917	3916	-1	0	0	3918	3918	4300	4298	-3	0	0	4301	4301	312	309
10:00	50.00	3294	3305	11	0	0	3308	3308	3786	3799	13	0	0	3801	3801	4513	4530	17	0	0	4533	4533	305	302
11:00	50.03	3580	3614	34	0	0	3616	3616	3755	3790	35	0	0	3792	3792	4857	4905	47	0	0	4907	4907	271	267
12:00	50.02	3446	3374	-72	0	0	3375	3375	3625	3550	-75	0	0	3551	3551	4973	4870	-103	0	0	4871	4871	271	268
13:00	50.01	3369	3392	23	0	0	3393	3393	3780	3808	27	0	0	3809	3809	5003	5039	36	0	0	5040	5040	290	287
14:00	50.02	3201	3175	-26	0	0	3176	3176	3767	3736	-31	0	0	3737	3737	5089	5048	-41	0	0	5050	5050	284	281
15:00	49.99	3271	3269	-1	0	0	3272	3272	3694	3691	-3	0	0	3694	3694	4905	4905	0	0	0	4909	4909	286	283
16:00	49.97	3057	3058	0	0	0	3061	3061	3753	3753	0	0	0	3757	3757	4947	4949	2	0	0	4954	4954	290	287
17:00	49.95	3045	3070	25	0	0	3074	3074	3851	3884	32	0	0	3890	3890	4813	4856	43	0	0	4863	4863	302	299
18:00	49.97	3371	3304	-66	0	0	3309	3309	4002	3924	-78	0	0	3929	3929	4461	4375	-85	0	0	4381	4381	300	297
19:00	50.05	3461	3405	-56	0	0	3405	3405	3769	3709	-60	0	0	3709	3709	3974	3918	-56	0	0	3918	3918	323	321
20:00	50.03	3323	3240	-83	0	0	3240	3240	3497	3411	-86	0	0	3412	3412	3732	3647	-85	0	0	3647	3647	330	325
21:00	49.99	3126	3067	-59	0	0	3068	3068	3092	3034	-59	0	0	3035	3035	3208	3147	-61	0	0	3148	3148	328	324
22:00	50.04	2883	2816	-67	0	0	2816	2816	2832	2764	-68	0	0	2765	2765	2885	2816	-69	0	0	2816	2816	334	331
23:00	50.01	2979	2996	18	0	0	2997	2997	3088	3105	17	0	0	3106	3106	2912	2932	20	0	0	2933	2933	315	312
24:00	50.03	2959	2931	-28	0	0	2932	2932	2996	2970	-26	0	0	2971	2971	3086	3065	-22	0	0	3065	3065	339	336
Avg.	50.00	3066	3044	-22	0	0	3046	3046	3449	3425	-24	0	0	3427	3427	3994	3969	-25	0	0	3971	3971	305	302
00 TO 06 HRS.	50.00	2570	2553	-17	0	0	2554	2554	2946	2927	-19	0	0	2928	2928	3228	3209	-20	0	0	3210	3210	306	303
06 TO 12 HRS.	50.01	3355	3336	-19	0	0	3338	3338	3829	3807	-22	0	0	3809	3809	4578	4552	-26	0	0	4554	4554	294	291
12 TO 18 HRS.	49.99	3219	3211	-8	0	0	3214	3214	3808	3799	-9	0	0	3803	3803	4870	4862	-8	0	0	4866	4866	292	289
06 TO 18 HRS.	50.00	3287	3274	-13	0	0	3276	3276	3818	3803	-15	0	0	3806	3806	4724	4707	-17	0	0	4710	4710	293	290
18 TO 24 HRS.	50.02	3122	3076	-46	0	0	3076	3076	3213	3166	-47	0	0	3166	3166	3300	3254	-46	0	0	3255	3255	328	325

Discomwise Hourly Average Schedule Drawal , Actual Drawal &Over(+)/Under(-) Drawal
Month :- December 2021

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	2841	2838	-2	0	0	2839	2839	3135	3133	-2	0	0	3135	3135	2984	2981	-3	0	0	2982	2982	320	317			
2:00	50.01	2640	2562	-78	0	0	2564	2564	3010	2921	-89	0	0	2923	2923	2889	2800	-89	0	0	2802	2802	328	325			
3:00	50.02	2450	2423	-27	0	0	2424	2424	3101	3067	-35	0	0	3068	3068	2742	2713	-29	0	0	2714	2714	321	318			
4:00	50.03	2476	2461	-15	0	0	2461	2461	3049	3030	-19	0	0	3031	3031	2659	2645	-14	0	0	2645	2645	318	315			
5:00	50.02	2445	2494	49	0	0	2494	2494	3015	3076	61	0	0	3076	3076	2864	2921	57	0	0	2922	2922	320	317			
6:00	50.01	2604	2616	12	0	0	2617	2617	3371	3387	16	0	0	3389	3389	3464	3481	17	0	0	3482	3482	332	330			
7:00	49.96	3266	3252	-14	0	0	3257	3257	4147	4132	-15	0	0	4137	4137	4182	4165	-17	0	0	4171	4171	309	306			
8:00	49.97	3584	3559	-25	0	0	3563	3563	4283	4253	-30	0	0	4258	4258	4405	4377	-28	0	0	4381	4381	308	306			
9:00	50.01	3808	3806	-2	0	0	3807	3807	4371	4372	1	0	0	4374	4374	4395	4393	-2	0	0	4395	4395	310	308			
10:00	50.00	3751	3750	-1	0	0	3752	3752	4332	4330	-2	0	0	4332	4332	4759	4759	0	0	0	4762	4762	306	303			
11:00	50.02	4033	4060	26	0	0	4061	4061	4353	4382	29	0	0	4383	4383	5262	5298	37	0	0	5299	5299	285	281			
12:00	50.00	3880	3822	-58	0	0	3825	3825	4334	4268	-66	0	0	4271	4271	5303	5217	-86	0	0	5220	5220	277	273			
13:00	50.00	3816	3857	41	0	0	3859	3859	4636	4685	49	0	0	4688	4688	5346	5401	55	0	0	5404	5404	283	281			
14:00	50.03	3627	3608	-19	0	0	3608	3608	4571	4547	-25	0	0	4547	4547	5336	5305	-31	0	0	5306	5306	289	286			
15:00	50.01	3676	3664	-13	0	0	3665	3665	4523	4508	-15	0	0	4509	4509	5093	5078	-15	0	0	5079	5079	290	287			
16:00	49.96	3484	3491	6	0	0	3496	3496	4533	4542	9	0	0	4548	4548	5094	5106	12	0	0	5113	5113	295	292			
17:00	49.99	3426	3479	53	0	0	3482	3482	4584	4656	72	0	0	4660	4660	5065	5146	81	0	0	5150	5150	310	307			
18:00	49.99	3677	3612	-65	0	0	3615	3615	4643	4561	-82	0	0	4564	4564	4786	4700	-85	0	0	4703	4703	312	309			
19:00	50.03	3666	3648	-18	0	0	3648	3648	4277	4255	-21	0	0	4255	4255	4289	4267	-22	0	0	4268	4268	328	325			
20:00	50.03	3561	3502	-59	0	0	3503	3503	4021	3954	-67	0	0	3955	3955	3995	3928	-66	0	0	3929	3929	341	338			
21:00	50.02	3342	3272	-71	0	0	3272	3272	3514	3439	-75	0	0	3439	3439	3331	3258	-73	0	0	3259	3259	347	344			
22:00	50.05	2994	2933	-61	0	0	2933	2933	3100	3035	-65	0	0	3035	3035	2767	2707	-60	0	0	2708	2708	346	343			
23:00	50.00	3034	3018	-16	0	0	3019	3019	3302	3285	-17	0	0	3287	3287	2729	2716	-13	0	0	2717	2717	323	320			
24:00	50.03	2984	2937	-47	0	0	2938	2938	3116	3068	-48	0	0	3069	3069	2844	2800	-44	0	0	2800	2800	340	337			
Avg.	50.01	3294	3278	-17	0	0	3279	3279	3888	3870	-18	0	0	3872	3872	4024	4007	-17	0	0	4009	4009	314	311			
00 TO 06 HRS.	50.02	2576	2566	-10	0	0	2567	2567	3114	3102	-11	0	0	3103	3103	2934	2923	-10	0	0	2924	2924	323	320			
06 TO 12 HRS.	49.99	3720	3708	-12	0	0	3711	3711	4303	4289	-14	0	0	4292	4292	4718	4702	-16	0	0	4705	4705	299	296			
12 TO 18 HRS.	50.00	3618	3618	1	0	0	3621	3621	4582	4583	1	0	0	4586	4586	5120	5123	3	0	0	5126	5126	296	294			
06 TO 18 HRS.	50.00	3669	3663	-6	0	0	3666	3666	4442	4436	-6	0	0	4439	4439	4919	4912	-7	0	0	4915	4915	298	295			
18 TO 24 HRS.	50.03	3264	3218	-45	0	0	3219	3219	3555	3506	-49	0	0	3507	3507	3326	3279	-46	0	0	3280	3280	337	335			

पश्चिम क्षेत्र भार प्रेषण केन्द्र

एफ-3, सेन्ट्रल रोड, एम्.आई.डी.सी. एरिया, मरोल, अन्धेरी (पूर्व), मुंबई - 400 093.
दूरभाष : 022-28202691 • फैक्स : 022-28235434, 28202630 • ई-मेल : wrldc@posoco.in

WESTERN REGIONAL LOAD DESPATCH CENTRE

F-3, Central Road, MIDC Area, Marol, Andheri (East), Mumbai - 400 093.
Phone : 022-28202691 • Telefax : 28235434, 28202630 • E-mail : wrldc@posoco.in
CIN : U40105DL2009GOI188682

Ref.no.: WRLDC/MO&RA/FTC

Dtd. 17-01-2022

To

As per Distribution list / email recipient.

Sub: Advance action on First Time Charging of transmission elements in Western Region

Ref.

1. POSOCO First Time Charging procedure dated 03 June 2020

Sir,

Every year, as the year end fast approaches, there will be targets to commission many new elements. As you may be aware, the application for integration of the transmission elements shall be submitted at least 10 days before the proposed charging date of the element as per clause 2 of Section 5 (page-291) of the procedure for First Time Charging of grid elements in June 2020 which is available in the following link:

https://posoco.in/wpcontent/uploads/2021/04/Procedure_for_Integration_of_Power_System_Element_s.pdf.

It has been seen in the past that as the financial year ending approaches, there is a rush in submission of FTC request in the last week of March and subsequent follow-up and pressure to expedite bypassing the stipulated timelines. Such last minute pressure affects the smooth integration of elements with due compliance of all regulatory and statutory norms and technical standards which might adversely impact reliability of the grid.

WRLDC has provided an online FTC portal for facilitating smooth submission of FTC request and subsequent tracking thereof until first time charging and certification. Accordingly, you are hereby advised to plan the first time charging activities at your end and submit the application well in time to avoid last minute rush. It is further requested share a tentative list of EHV elements planned to be charged by you in this FY by the first week of March 2022 for smooth coordination at our end.

Yours Faithfully



(S Usha)

Sr, General Manager (MO)

Distribution List -

1. FTC Cordinator, SLDC Gujarat, Vadodara
2. FTC Cordinator, SLDC Madhya Pradesh, Jabalpur
3. FTC Cordinator, SLDC Maharashtra, Kalwa
4. FTC Cordinator, Chhattisgarh, Raipur
5. FTC Cordinator, WRTS-I, Nagpur
6. FTC Cordinator WRTS-II, Vadodara
7. In-charge, RTAMC, Nagpur
8. In-charge, RTAMC, Vadodara
9. Recipients of this letter through email.