



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

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No.07-05/SG-9B-II/53

Jabalpur, dated: 13.01.2023

To

**As per distribution list**

Sub: Minutes of 83<sup>rd</sup> meeting of Operation and Coordination Committee of MP.

The Minutes of 83rd meeting of the Operation and Coordination Committee of MP held on 20th Oct 2022 at 11:00Hrs, at Conference Hall, SLDC, MPPTCL, Jabalpur has been uploaded on the website of SLDC '[www.sldcmpindia.com](http://www.sldcmpindia.com)' and can be downloaded.

**Member Secretary, OCC  
SLDC, MPPTCL, Jabalpur**

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**MINUTES OF 83<sup>rd</sup> MEETING OF OPERATION & COORDINATION COMMITTEE OF MP  
HELD ON 20<sup>th</sup> OCT 2022 AT 11:00 AM AT CONFERENCE HALL, SLDC, MPPTCL,  
NAYAGAON, JABALPUR.**

The 83rd meeting of Operation & Coordination Committee of MP was held on 20th Oct 2022 at 11:00 AM AT CONFERENCE HALL, SLDC, MPPTCL, NAYAGAON, JABALPUR. The list of participants is enclosed as **Annexure -1.0**.

Shri S.S Patel, Chief Engineer SLDC & Chairman OCCM welcomed all the participants.

Chairman OCCM stated that this OCC platform is for discussion on every point related to system operational issues. He focused on the preparedness of upcoming Rabi season, meeting the peak demand and transmission network contingencies that may arise during that period. He informed that challenges and restrictions during the upcoming period need to be kept in mind. Chairman OCCM informed that rains were good during the monsoons and all the reservoirs levels are achieved and maintained till now. He informed that some contingency in running the OSP machines may arise due to construction of Aadi Shankaracharya Idol at OSP downstream, due to which running of OSP machines needs to be restricted at days time and this will also restrict the running of ISP and SSP machines. He stated that the focus on this meeting will be mainly on review of preparedness for upcoming Rabi season.

Shri Pradeep Sachan, Superintending Engineer, SLDC welcomed all the participants. He requested all the participants for introduction. Thereafter the agenda was discussed.

**ITEM NO. 1 : CONFIRMATION OF MINUTES :** Minutes of 82<sup>nd</sup> meeting of Operation & Coordination Committee of MP on 03<sup>rd</sup> June 2022 will be forwarded to the committee members soon.

**ITEM NO.2: REVIEW OF SYSTEM OPERATION DURING THE MONTHS MAY 2022 TO AUGUST 2022.**

**2.1. Frequency Particulars:** The committee was apprised that system frequency was below 49.90 Hz for 9.83% of time in MAY 2022, 12.45 % of time during JUNE 2022 and 7.82 % of time during JULY 2022, and 12.45 % of time during AUG 2022. The system frequency was above 50.05 Hz for 17.94 % of time during MAY 2022, 14.17 % of time during JUNE 2022, 18.72 % of time during JULY 2022 and 14.17% of time during AUG 2022. The system frequency was within the IEGC range of 49.90-50.05 Hz for 72.23 % of time during MAY 2022, 73.38 % of time during of time during JUNE 2022, 73.46 % of time during JULY 2022 and 73.37% of time during AUG 2022 The average monthly frequency was 50 Hz during month of MAY 2022, 49.98 Hz during month of JUNE 2022, 50 Hz during month of JULY 2022 and 50 Hz during month of AUG 2022.

The detailed frequency particulars for the month of MAY, JUNE, JULY & AUG 2022 are enclosed at Annexure-2.1. The brief detail of frequency profile is given here under:-

Month	Average frequency	Minimum Integrated frequency over an hour	Maximum integrated frequency over an hour	Instantaneous Minimum Frequency	Instantaneous Maximum Frequency
MAY 2022	50 Hz	49.77 Hz	50.27 Hz	49.50 Hz	50.35 Hz
JUNE 2022	49.98 Hz	49.72 Hz	50.21 Hz	49.48 Hz	50.36 Hz
JULY 2022	50 Hz	49.67 Hz	50.18 Hz	49.42 Hz	50.30 Hz
AUG 2022	50 Hz	49.72 Hz	50.25 Hz	49.47 Hz	50.31 Hz

## 2.2 Operational Matters

**2.2.1 Operational Discipline:** Frequency profile for the months MAY, JUNE, JULY & AUG 2022 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
MAY 2022	9.83	17.94	72.23	50 Hz
JUNE 2022	12.45	14.17	73.38	49.98 Hz
JULY 2022	7.82	18.72	73.46	50 Hz
AUG 2022	12.45	14.17	73.37	50 Hz

**2.2.2 Voltage Profile:** The committee was apprised that the maximum and minimum voltage as recorded at important 400 KV s/s in MP Grid from MAY, JUNE, JULY & AUG 2022 is enclosed as **Annexure – 2.2.2**.

T&C representative informed that planned reactor of 400kv ss Kirnapur is going to commissioned by March-23

**2.2.3 STATUS OF CAPACITOR BANKS IN SUB-TRANSMISSION SYSTEM:** The committee was apprised about the updated information of the status of capacitor banks in sub-transmission system as on 30<sup>th</sup> SEPTEMBER 2022 as submitted by DISCOMs is detailed below:

DISCOM	Capacitor bank installed in good condition (No)				Capacitor Banks healthy but not in service due to control ckt problem			Capacitor bank installed but defective & are repairable (No)				Requirement of repair against each unit (No)	Requirement against non-repairable capacitor banks		Capacitor banks already covered under ADB T-V		Balance capacitor banks to be covered in other schemes	
	600 KVAR	1200 KVAR	1500 KVAR	1800 KVAR	600 KVA R	1200 KVA R	1500 KVA R	600 KVAR	1200 KVAR	1500 KVAR	1800 KVAR		600 KVAR	1200 KVAR	1500 KVAR	600 KVAR	1200 KVAR	
EZ	416	132	111	-	2	5	4	416	132	111	-	2	5	4	416	132	111	
CZ	0	498	1103	211	-	-	-	0	498	1103	211	-	-	-	0	498	1103	
WZ	523	523	768	-	0	0	0	523	523	768	-	0	0	0	523	523	768	

T&C representative informed that the proper voltage relief/reflection from capacitor banks installed at Discom ends are not getting achieved at MPPTCL end. Chairman OCC suggested to do proper monitoring of the healthiness of capacitor banks because MVAR compensation plays the vital role in grid operation.

**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 30.09.2022 as submitted by MPPTCL is given below: -

Voltage Class	Capacitor bank installed as on 30.04.2022 (MVAR)	Capacity Added after Last OCC Meeting (MVAR)	TOTAL CAPACITY AS ON 30.09.2022 (MVAR)	Capacitor Bank Installed but defective & are not repairable (No & MVAR)
<b>220 KV</b>	0.00	0.00	0.00	<b>All in Service</b>
<b>132 KV</b>	1139.00	0.00	1139.00	
<b>33/36 KV</b>	7368.50	120.00	7488.50	
<b>TOTAL</b>	<b>8507.50</b>	<b>120.00</b>	<b>8627.50</b>	

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

## 2.2.5 U/F and df/dt Relay Operation

- (i) **U/F and df/dt Relay Operation:** During MAY 2022 TO SEPT 2022, frequency did not touch 49.20 Hz. There was no df/dt operation during the same period. MPPTCL informed that under Frequency Plan for all the stages have been implemented and in operation.
- (ii) **Defective u/f, df/dt Relays:** MPPTCL has informed that all the df/dt and U/F relays are in operation, where the U/F relays are not available, the numerical relays programmed for under frequency operation. All U/F stages are in good/ healthy & working condition.

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

- (i) The committee was apprised about the details of DISCOM wise Power supply given to various domestic categories during the period MAY 2022 TO AUG 2022 is enclosed at **Annexure 2.3(i).**
- (ii) **Group Allocation to Newly Commissioned existing EHV substations:-** The committee was apprised about the region wise list of 33 KV feeders emanating from various newly commissioned/existing EHV substations for which groups have not been allocated 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	11
02		Sagar	11
03		Rewa	28
04		<b>Total</b>	<b>50</b>
05	WEST	Indore	20
06		Ujjain	07
07		<b>Total</b>	<b>27</b>
08	CENTRAL	Bhopal	27
09		Gwalior	08
10		<b>Total</b>	<b>35</b>
<b>TOTAL</b>		<b>Grand Total</b>	<b>112</b>

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

S.NO.	NAME OF DISTRICT (to be provided by Discoms)	NAME OF SUB-STATION (to be provided by Discoms)	NAME OF 33KV FEEDER (to be provided by Discoms)	GROUP NO. AS ON 31.12.2021 (to be provided by Discoms)	U/F RELAY SETTING (48.8,49.0,49.2, 49.4)HZ (to be provided by T&C, MPPTCL)	AVERAGE LOAD IN MW DURING THE MONTH OF DECEMBER – 2021. (to be provided by Discoms)
1						
2						
3						
4						

The details of U/F relay setting as on **(30.09.2022)** provided by T&C, MPPTCL in the above format is enclosed as **Annexure-2.3.iii.**

SLDC advised to do group allocation at the time of charging of the 33kv feeders.

### **ITEM NO. 3 : OPERATIONAL PLANNING:**

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

Details regarding hydel unit outage has not been provided by CE (O&M: Hydel), MPPGCL. It was requested to provide the hydel unit outage details from onwards .

**3.2 Proposed shutdown program of Transmission lines / Transformers:** The committee was apprised about the proposed shutdown of transmission elements for the period 01.10.2022 to 30.11.2022 as submitted by T&C, MPPTCL is enclosed as **Annexure-3.2.**

**3.3 Long Outages of transmission elements and protections:** The committee was apprised about the status submitted by MPPGCL /MPPTCL are given below:-

Sr. No	Line/Transformer/ etc under long Outage	Outage date	Reason	Response from Utility
1	63MVA BHEL X'MER AT 132 KV S/S DABRA	16.04.2022	Buchholz trip indication	X-mer charged on 03.06.2022
2	220 KV ATPS – Railway Traction Ckt - 1	15.05.2019	B-Phase LA Burst	MPPGCL in 79th OCCM intimated that the line is ready for charging from ATPS end. Railway replied that the line cannot be charged from railway end as it was suspected that high voltage impulse is generated in charging the line which is the cause of frequent failure of power transformers. Railway reply letter is attached as <b>annexure 3.3</b>
3	160 MVA AREVA X'MER AT 220KV S/S Narmadapuram	27.06.22	Differential and Buchholz trip indication	Replaced X-mer charged on 17.10.2022
4	40 MVA BBL X'MER AT 132 KV S/S MOMAN BADODIYA	01.07.22	Differential trip indication at the time of tripping 33kv Mona discom feeder	Replaced X-mer charged on 30.09.2022
5	315 MVA BHEL X-MER-2 AT 400 KV S/S NAGDA	27.08.22	Differential and Buchholz trip indication at the time of failure of B-PH HV and IV bushing	MPPTCL replied that this x-mer is being replaced by Dec-2022

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.

#### **ITEM NO. 4 : OPERATIONAL STATISTICS FROM MAY 2022 TO AUG 2022:**

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

- Annex. 4.1** Unit wise actual Generation of MPPGCL thermal Units and station wise Generation of MPPGCL & NHDC Hydel Units.
- Annex. 4.2** Power Supply Position(Energy Balance Sheet).
- Annex. 4.3** Hourly Average of Availability and Demand.
- Annex. 4.4** Hourly average schedule Vs Drawal of DISCOMs.

## **ITEM NO. 5: SYSTEM DISTURBANCE IN MP**

**5.1 REPORTING OF FLASH REPORT, DR AND EL FOR 400KV, INTERSTATE TRANSMISSION ELEMENTS & DETAILED TRIPPING REPORT:-** The committee was apprised that as per the provisions of Regulation 5.2 (r) of CERC (Indian Electricity Grid Code) Regulations 2010 and Regulation of 5(9) of CERC (Indian Electricity Grid Code) (First Amendment) Regulations, 2012 all the Regional Entities of the Region shall furnish the tripping details including DR & EL output to RLDC 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 MAY-2022 to SEPT-2022 for which the details have not been submitted are:-

S NO	Event at s/s	Date	Flash report	Detailed report	DR/EL
1	220 KV ss Bina	15.05.22	yes	No	No
2	400KV STPS, SARNI	14-09-22	yes	yes	No

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

## **ITEM NO. 6.0 : IMPORTANT OPERATIONAL ISSUES:-**

**6.1 STATUS OF COMPLETION OF ONGOING SCHEMES FOR COMMISSIONING OF REACTORS / TRANSMISSION ELEMENTS:-** The committee was apprised about the present status regarding schedule and commissioning of reactors / transmission elements is as below:-

S.No.	400 KV S/s	Size MVAR	Implementing Agency	Expected Date of Commissioning as intimated in last OCC
1.	Line reactor on 400 KV S/s Satna (PG) – Sagar Ckt at 400 KV S/s Sagar end.	50 MVAr Line Reactor	MPPTCL	P&D informed that the reactor is in the tendering stage, it will be completed by Dec-22, after that it will require 12 months for commissioning work.
2.	400KV S/s Sagar	125 MVAr Bus Reactor	MPPTCL	Some shifting work is required after that Reactor will be ready for commissioning . 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.

**6.2 PROTECTION AUDIT COMPLIANCE:-** The committee was apprised that in 132nd PCM held on 18/04/2018, it was decided that the protection audit of all critical S/S of 220 kV and all 400 kV level S/S newly commissioned S/S's immediately shall be carried out on specified interval of time (i.e. within one year of commissioning) and S/S's where protection audit has been carried out 5 years back.

It was discussed in 148th PCM that the internal protection audit shall be conducted by the entity itself at least once a year and submits the information to SLDC/RLDC on timely basis. CERC vide its order dated 21.02.2014 in respect to petition No. 220/MP/2012 filed by POWERGRID have directed that CTU/STU and SLDCs shall submit quarterly Protection Audit Report to the respective RPC latest by 15<sup>th</sup> day of the first month of every quarter and RPCs shall submit the report to the Commission latest by 15<sup>th</sup> day of the second month of every quarter. The Member Secretary of Regional Power Committees shall monitor the protection related issues and bring to the notice of the Commission any instance of non-compliance of the Regulation 1.5 of the Grid Code in respect of the protection related issues considered in the instant petition.

In view of the above MPPGCL, NHDC, MPPTCL, JP Bina, NHDC & BLA shall submit the Protection Audit Quarterly & Fortnightly reports on regular interval of time. MPPTCL, MPPGCL, NHDC, JP BINA & BLA are also requested to submit the internal protection audit information to SLDC at the earliest.

Next schedule of substations for protection audit will be released soon in consultation with the entities.

### **6.3 CHARGING APPROVAL FROM ELECTRICAL INSPECTORATE FOR ISTS AND ASSOCIATED POWER SYSTEM ELEMENTS IN EMERGENCY CONDITIONS:-**

The committee was apprised that a meeting to discuss minimizing of processing time of charging approval from CEA/State CEIG for ISTS/ISGS and associated power system elements *in emergency conditions* in Western Region was called by CEA on 04.08.2022. As informed during the meeting, the procedure followed by RIO(W) CEA for emergency replacement is mentioned below.

1. Apply online for clearance on CEA web portal which is readily and universally Accessible and details of nodal officers are also available therein. The entity shall inform the same to Electrical Inspector (RIO-West) before the works starts and conveys the schedule of works.
2. Upload the latest and relevant Test Reports of equipment or any test report asked by the electrical inspector. At the same time, the entities shall also inform the same through e-mail along with all relevant test reports, photos.
3. After the inspector examines the documents and if found in order, consent for charging will be issued under CEA Safety regulation 43(7) and conveyed through email within a minimum time (mostly within an hour).
4. For any assistance, nodal officers are available on telephone and may be contacted for better coordination.

Representative from SLDC Madhya Pradesh informed that emergency works in substations are unplanned activity carried out by substations. He also informed that works are carried out at odd hours and the availability of electrical inspectors for inspection of replacement of elements at remote substations may not be possible.

Shri A K Dubey, Dy. Chief Electrical Inspector informed that MP state electrical inspectorate hasn't received any request from SLDC MP for charging on emergency basis. He informed that if any such proposal is received, it will be processed as per the procedure adopted by CEA.

The scope of this meeting was limited to only ISTS/ISGS Power system elements only. For intra state elements, a separate procedure will be adopted in consultation with Electrical Inspectorate of M.P.

It was deliberated in the meeting that for ISTS/ISGS Power system elements, CEIG approval will be required for replacement/alteration *in emergency conditions*.

#### **6.4 ISLANDING SCHEME OF JABALPUR AREA WITH AMARKANTAK TPS:-**

The committee was apprised that in a special meeting conducted by WRPC on 2<sup>nd</sup> Aug-22, to review the progress of New Islanding Schemes of Western Region, wherein it was directed to revise the Islanding Schemes by incorporating more analytic controls for frequency, generation, load and reliable response and also decided that DPR on New Islanding Schemes would be submitted by concerned Utility/SLDC latest by 31st August 2022.

Accordingly the matter was discussed with agencies known to have expertise in power system controls and offers were invited to provide the feasible solution to implement the scheme. Subsequently, after several rounds of discussions, PMU based Islanding Scheme that provides faster communication of data and flexibility for incorporating any kind of analytics in controller unit has been finalized by MPPTCL.

In view of the above SLDC MP has submitted the DPR of Jabalpur Islanding Scheme amounting to Rs. 6.00 Crores to WRPC for Approval and 90% grant through PSDF. The Scheme is attached herewith as **Annexure- 6.4** for reference.

Islanding scheme was discussed in the meeting.

#### **6.5 AUFLS AND DF/DT SCHEME DETAILS:-**

The committee was apprised that in 148<sup>th</sup> PCM of WRPC, SE(Protection), WRPC intimated that Chief Engineer & Member Secretary, NPC vide letter No 4/MTGS/NPC/CEA/2020/01-06 dated 01/01/2021 and letter No. 4/MTGS/NPC/CEA/2020/07-14, dated 01/01/2021 constituted a Sub-Groups to study AUFLS Scheme and to work out on a uniform approach for df/dt settings" and "Sub-Group to Finalize a Common Procedures for Power System Stabilizers (PSS) Tuning" respectively. All the concerned WR SLDCs were requested to submit the details of AUFLS (for 4 stages of frequency 49.4, 49.2, 49, 48.8 Hz) feeder wise expected load relief in the following format.

DETAILS OF FEEDERWISE EXPECTED LOAD RELIEF THROUGH AUTOMATIC UNDER-FREQUENCY RELAYS BASED LOAD-SHEDDING SCHEME IN DIFFERENT STATES						
		REGION : .....				
<b>Under-frequency Relays setting : 49.2 Hz.</b>						
S.No.	Particulars of feeder	Load Relief (MW)		UFR (Functional or Non-functional)	Target date for making	Remarks / constraints, if any, in implementation
		Peak	Average		UFR functional if not yet functional	
	<b>State 1: .....</b>					
1						
2						
3						
..						
..						
n						
	<b>Total load relief (State 1)</b>					
	<b>Required load relief from state 1</b>					
	<b>State 2: .....</b>					
1						
2						
3						
..						
..						
n						
	<b>Total (State 2)</b>					
	<b>Required load relief from state 2</b>					

SE(Protection), WRPC vide letter dtd-24.05.2022 also intimated that considering lower frequency operation of national grid during most of the time in present scenario, it is of utmost important to ensure complete load relief of AULFS relays in case of exigency so that fast decay of frequency could be arrested and grid could be saved.

1. It is therefore requested to kindly ensure and confirm that the AULFS relays are wired and healthy.
2. Ensure that load relief as per existing plan of AULFS and df/dt for Western Region (Existing plan as detailed below) could be achieved in exigency.

AUFLS implementation status in Western Region as on 31.05.2019									
(all figures are in MWs)		49.4 Hz		49.2 Hz		49.0 Hz		48.8 Hz	
		Actual	Target	Actual	Target	Actual	Target	Actual	Target
Gujarat	Average	773	580	726	580	1117	580	1025	590
Madhya Pradesh	Average	468	460	450	460	460	460	465	465
Chhattisgarh	Average	110	150	114	150	117	155	91	155
Maharashtra	Average	1122	805	1215	810	1044	815	1071	820
Goa	Average		25	25	25	25	25	25	25
DD	Average	10	10	15	15	16	15	15	15
DNH	Average	30	30	30	30	35	35	35	35
<b>Total</b>		<b>2513</b>	<b>2060</b>	<b>2575</b>	<b>2070</b>	<b>2814</b>	<b>2085</b>	<b>2727</b>	<b>2105</b>

Total target for all stages  
Actual target for all stages

8320 MW  
10629 MW

**AUFLS implementation status in WR**

(all figures are in MWs)		49.9 Hz & 0.1 Hz / Sec		49.9 Hz & 0.2 Hz / Sec		49.9 Hz & 0.4 Hz / Sec	
		Actual	Target	Actual	Target	Actual	Target
Gujarat	Average	0	1006	1454	905	1610	1001
MP	Average	475	361	415	355	445	392
Chattisgarh	Average	120	27	40	37	40	120
Maharastra	Average	370	546	1131	621	522	686
TPC (Tata Power)	Average	60	60	82	82	273	273
Total relief		1025	2000	3122	2000	2890	2472

Gujarat additional df/dt setting at 49.9Hz & 0.3Hz/sec= 399MW

TPC additional df/dt setting at 49.9Hz & 0.5Hz/sec = 931MW

Total target for all stages	6472 MW
Actual for all stages	8367 MW

- 3. Apart from above, it is requested to kindly furnish the details of those RE generation/injection which are directly connected with AULFS feeders. Details such as name of RE generating station, voltage level, name of connected AULFS feeders may please be furnished.**

In view of the above T&C has submitted the quantum of load relief to be obtained from AULFS and df/dt which is annexed as **Annexure- 6.5**

**6.6 TIMELINE AND DETAILED PROCEDURE FOR PLANNED OUTAGES OF GENERATING UNIT AND PLANNED / EMERGENCY OUTAGE OF TRANSMISSION ELEMENT AND NEW ELEMENT CHARGING:-** The committee was apprised that it is important that the planned outages of generation and transmission system in the important flow-gates are properly coordinated as detailed in IEGC clause 5.7 and Sec.-11 of MPEGC.

This document sets out the procedure for planning of planned/emergency outage on generating units and transmission elements of the state in coordinated and optimal manner keeping in view the State Transmission System in operating conditions and maintaining load generation balance in the grid.

In view of the above and as directed by Managing Director, M.P Power Transmission Co. Ltd., Detailed Procedure for Planned Outage of Generating Units and Planned/Emergency Outage of Transmission Elements of State Transmission network is prepared by SLDC which is enclosed as **Annexure – 6.6**. This procedure is implemented w.e.f 1st July 2021.

In view of the above the time line for the various types of S/d is as below:-

S.N O.	TYPE OF SHUTDOWN	DAY TO APPLY OF S/D <b>*D:- Means the day on which the S/D is to be availed</b>	REMARK
1.	EMERGENCY S/D	REAL TIME	To be submitted in prescribed format along with photo / supporting document.
2.	Planned S/D on Important grid elements	To be submitted to SLDC one month prior i.e., by 03 <sup>rd</sup> of the month prior to the month in which s/d is to be availed.	List of important grid element is available on MP SLDC website.  Readiness to be provided on D-3 basis.  e.g., if the s/d is to be availed on 220 KV Malanpur – Auraiya Ckt on 12.05.2021 then the s/d shall be submitted to SLDC by 03.04.2021 for approval from WRPC/WRLDC in OCCM. Further its availing readiness to be provided to SLDC/WRLDC by 09.05.2021.
3.	S/D on Non – Important grid element for not more than 2 days.	To be submitted to SLDC on D-4 basis.	List of exempted elements/non-important elements provided on SLDC web site.  S/d for 2 or more than 2 days on non-important grid elements is treated as important and require WRPC OCCM approval. Hence shall be provided by 03 <sup>rd</sup> of the month prior to the month in which s/d is to be availed.
4.	Important / urgent S/D on important grid elements not approved in WRPC OCCM	To be submitted to SLDC on D-6 basis.	Requires WRPC approval.  Request of such outages shall be forwarded by concerned Chief Engineer indicating nature of urgency along with contingency plan to SLDC.
5.	S/D on Intra – State Elements	To be submitted to SLDC on D-3 basis.	Outage on intra – state elements to be submitted on Eltrix Portal on D-3 basis.
6.	Long Outages	-	Shall be proposed after discussion with SLDC.  e.g., Line outages involving modification in tower/line etc.
7.	Rescheduling of	To be submitted to	A fresh new request shall be submitted by

	S/d	SLDC on D-3 basis.	entity/agency through eltric portal.
8.	New element charging	D-10	<p><b>For 400KV elements and 220kv elements connected with CTU and other states/region to be applied on WRLDC FTC portal on D-10 basis under intimation to SLDC.</b></p> <p><b>For intra – state elements 220KV and below the request shall be submitted to SLDC on D-10 basis.</b></p>

The list of important grid element can be downloaded from the link:-  
[https://www.wrldc.in/content/364\\_1\\_ImportantDocuments.aspx](https://www.wrldc.in/content/364_1_ImportantDocuments.aspx)

The committee was apprised that, it was very much required that proper time line needs to be maintained.

Also it was requested to go through the list of important grid of elements which WRLDC updates yearly, for their outage proposals.

## 6.7 REGARDING PREPAREDNESS OF RABI SEASON:-

The committee was apprised that a meeting regarding finalization of Available Transfer Capability (ATC) & Total Transfer Capability(TTC) for Madhya Pradesh for Rabi Season 2022 & mitigating the constraints observed in the study was held at SLDC on 17.08.22 in which participants from MPPTCL (T&C, P&D) & SLDC attended the meeting. Meeting held on the following points:-

1. The ATC/TTC calculated by MP SLDC is about 11331 MW / 11671 MW respectively for meeting the demand of approx 17000MW during ensuing Rabi Season and the most credible contingency noticed is at 400/220KV ICT at 400 KV Julwania & 400 KV Satna PGCIL.

2. SLDC informed that the simulation study has been conducted after considering the new elements planned to be commissioned upto December 2022, the plan as received from STU/ P&D. WRLDC has provided the approval for ATC subjected to availability of all the future elements considered in the study. In the matter, T&C was requested to provide the current status to which T&C informed that all the future elements discussed shall be commissioned by Dec-22.

3. SLDC informed that load-trimming scheme (LTS) is required to be implemented at following locations:-

(i) **400/220 KV ICTs of Julwania**:- It was agreed by the participants that 132 KV Pati& 132 KV Anjad feeders at 400 KV Julwania shall be considered for the load trimming scheme. Further the 33 KV feeders of 220 KV Julwania identified for LTS at 220 KV Julwania shall also be extended for LTS of 400/220 KV ICTs at 400 KV Julwania.

(ii) **500 MVA ICT-3 at Satna PGCIL**:- SLDC informed that LTS has been implemented for 400/220 KV ICT-1 & 2 only and remains pending for ICT-3 due to want of control cable to be supplied from MPPTCL to PGCIL.

T&C informed that the control cables shall be provided to Satna PGCIL at the earliest. Functioning of LTS for ICT-1 & ICT-2 at Satna PG is also required to be ensured.

In addition to the above s/s, LTS also to be confirmed at 220 KV Rajgarh MP, 220 KV Kukshi, 220 KV Bhopal

5. SLDC informed that the existing & proposed load trimming scheme are required to be tested in the month of Sep-22 to ensure the healthiness/ operation of the Load trimming schemes during Rabi Season & the LTS status report may be provided to SLDC. T&C agreed to ensure testing of LTS by Sep-22.

6. The higher loading is observed on some 132 KV Circuits in the studies & MPPTCL was requested to increase the plug setting to 1.25 for following circuits:-

- a. 132 KV Seoni-Chourai
- b. 132 KV Pithampur(Sec-I)- Pithampur(SecIII) Ckt
- c. 132 KV Damoh-Hatta Ckt
- d. 132 KV Sagar-Bina Ckt
- e. 132 KV Bina-Khurai Ckt
- g. 132 KV Pithampur-Jamli Ckt
- h. 132 KV Bhonra-Raghogarh Ckt
- g. 132 KV Ujjain-Ratadiya Ckt

Minutes of meeting is attached as **Annexure- 6.7**

The preparedness of Rabi season discussed in meeting.

## **6.8 PROVIDING PROPOSED SHUTDOWN WITH CORRECT NOMENCLATURE FOR**

**WRPC OCCM APPROVAL:-** The committee was apprised that as per the approved procedure of Western region for availing planned shutdowns, every SLDC has to submit the list of inter-regional shutdowns to WRPC by the 4th of every month and list of intra-regional shutdowns by the 5th of every month for the next upcoming month. For sending the above compiled shutdowns by SLDC to WRPC, each utility needs to send their compiled shutdowns by the last working day of every month to SLDC.

Apart from this timeline, nomenclature of element names adopted by WRPC and WRLDC are being strictly followed for approval of shutdowns. Many utilities are sending the shutdowns with their wrong/locally prevalent names and different nomenclature. WRPC is very strict in this regard to only approve the shutdowns from next month which are clearly in line with the WRPC/WRLDC defined nomenclature of element names. List of element nomenclature has been previously circulated vide various e-mails to all the concerned offices.

It is therefore once again requested to go through the list and issue instructions to send the shutdowns only as per the nomenclature, otherwise as WRPC intimated that they will not be in a position to approve such shutdowns those are not matching with nomenclature.

The same has been intimated to CE(T&C)-MPPTCL, ED(O&M)-MPPGCL, CE(EHT-M)-MPPTCL, CE(EHT-C)-MPPTCL, NHDC, JP Bina & Kalpatru vide SLDC e-mail dtd-25.05.2022.

Entities confirmed to send the outage proposal as per the nomenclature.

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

**7.1 BLACK START MOCK DRILL OF HYDEL STATIONS OF MP:-** During 2022-2023 Black Start Mock Drill proposed to be conducted at various Hydel power station of MP is detailed as mentioned below:-

S.NO.	NAME OF HPS	PROPOSED/TENTATIVE DATE OF MOCK DRILL
1.	PENCH HPS	Date shall be intimated later due to upcoming rabi season
2.	BARGI HPS	Date shall be intimated later due to upcoming rabi season
3.	BIRSINGHPUR HPS	Planned in Nov 2022
4.	MADIKHEDA HPS	Planned in Nov 2022
5.	TONS HPS	Date shall be intimated after availability of units and considering upcoming rabi season.
6.	ISP HPS	Cannot be conducted due to failure / non-availability of Line Reactor of 400 KV ISP – Indore Ckt – 2 at Indore end.
7.	OSP HPS	Presently all units are running due to reservoir level. Date shall be intimated after considering reservoir level and upcoming rabi season
8.	RAJGHAT HPS	Planned for Dec 2022

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

##### **8.1 Testing & Calibration of meters and ABT meters installed at the interface points:**

- SLDC representative stated that as already requested to CE(T&C) office in previous OCCMs for conducting 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 and requested to apprise status of testing & calibration to Committee. CE (T&C) office representative informed that all the existing interface points meters are being replaced with (5/15 minutes) compatible meters and tendering is in progress, he also informed that existing interface points meters shall be shifted to HV side as a standby meter.
- SLDC representative informed that complete Load survey data of ABT meters installed at the interface points of Transco-Discoms, Open Access Customers, HT Consumers and Railways

TSS is not received through AMR System and site officials are also not furnishing the load survey data timely. SLDC sends the list of missing meters every month on 5<sup>th</sup> to 6<sup>th</sup>. He requested to CE(T&C) office to issue instructions to field offices for downloading and furnishing the missing data to SLDC on time and coordinate with M/s Secure Meters Ltd. for data downloading remotely. CE(T&C) office representative informed that they have already issued instructions to field offices for downloading and furnishing the missing data to SLDC on time and coordinate with M/s Secure Meters Ltd. for data downloading remotely.

## **8.2 Issuance of State Deviation Account, Reactive Energy Account on weekly basis and Computation of weekly Transmission Losses-**

SLDC representative informed that MPPTCL, MPPGCL and Discoms were requested vide letter nos 1576, 1577 & 1578 dated 12.08.2022 to provide following assistance for compliance of directives of Secretary Energy / MD MPPMCL:

1. MPPTCL, MPPGCL and Discoms shall ensure that at all inter-face points under their jurisdiction meters are installed and AMR facility is provided for data downloading at SLDC and should be functional at all the time. Any new Inter-face meter installed in future, shall be capable of transmitting data to SLDC through AMR system installed at SLDC.
2. If weekly data of some of the meters is not received through AMR, Nodal officer from each entities shall send weekly data through email within two days on request of SLDC.
3. Nodal officer from each entities shall furnish weekly JMR data in SLDC format.

SLDC representative further informed about the status of above points as :

1. CE(T&C) office has appointed the Nodal Officer and Circle Offices through CE(T&C) office are furnishing the JMR data and weekly missing data to SLDC.
2. MPPGCL has appointed the nodal officers from each power stations and are furnishing the weekly JMR data, however, weekly meter data is not been received from power stations. MPPGCL is requested to appoint a Nodal Officer from Central Office for ease of coordination and issue instructions to all concerned for furnishing station wise weekly meter data to SLDC.
3. East, West and Central Discoms have appointed a Nodal Officer but weekly JMR data is not received from September 2020. DCCs, Jabalpur Indore and Bhopal are requested to coordinate with Nodal Officers for submission of weekly meter data and JMR data to SLDC.

In the absence of weekly meter data and JMR data, SLDC could not be able to issue the accounts for the period of 1<sup>st</sup> Sept 2022 and subsequent weeks. Committee may like to issue directives to all concerned.

SLDC representative requested to CE(T&C) office, MPPGCL and Discoms to take-up the matter with concerned offices for timely issuance of DSM Accounts on weekly basis. CE(T&C) office and MPPGCL have assured to provide the above assistance and DCCs, Discoms have also assured to take up the matter with their commercial deptt.

## **8.3 Time drift in Energy meters installed at the interface points PG:**

SLDC representative stated that CE(T&C) office was already informed in previous OCCMs for time drift correction in energy meters installed at the regional interface points.

WRLDC vide letter dated 09.09.2022 that following SEMs installed in MPPTCL substations have time drift of more than 10 min and needs immediate replacements.

S. No.	Location	Meter number	Interconnection	time drift in minutes	Meter type	Remarks
1	Anuppur*	NP4218A	220kV Kotmikala line- at Amarkantak	10	Main	Prolonged issue since 16.10.19. Issue intimated via letter dated 16.10.19, 07.05.21 and 11.07.22. Matter discussed in 82nd, 83rd, 84th, 85th & 86th CCM.
2	Malanpur*	NP4219A	220kV Auraiy line-1 Malanpur	a29	Main	Prolonged issue since 16.10.19. Issue intimated via letter dated 07.05.21 and 11.07.22. Matter discussed in 82nd, 83rd, 84th, 85th & 86th CCM.
3	Bhanpura*	NP2138A	220kV Sakatpura line Bhanpura	a26	Main	Prolonged issue since 01.05.20. Issue intimated via letter dated 07.05.21 and 11.07.22. Matter discussed in 83rd, 84th, 85th & 86th CCM.

WRLDC informed that this is a very prolonged issue and time drift of these meters has not been corrected despite several reminders over letters, mails & telephonic conversations since 2019. 3 years have been passed since the first intimation of this issue. This issue has been highlighted in 82<sup>nd</sup>, 83<sup>rd</sup>, 84<sup>th</sup>, 85<sup>th</sup> & 86<sup>th</sup> CCMs also, still no action has been taken to correct the time drift of these meters. MP is requested to immediately replace these meters in Coordination with POWERGRID / CTUIL. This matter may be treated as most urgent.

SLDC representative requested CE(T&C) office to apprise the status to Committee. SLDC also requested to CE(T&C) MPPTCL to take-up the issue with concerned officials of Power grid for time synchronization and replacement of ABT meters. SE(T&C) stated that will inform the site officials for taking up the matter with PGCIL.

#### **8.4 Non receipt of ABT meter data of Railway TSS through AMR System & JMR:**

Railway has informed that in the previous OCCMs that the proposal of AMC contract to M/s Secure Meters Ltd. is under process and with in one month tendering process will be completed. Railways has also ensured for timely receipt of meter data / JMR data at SLDC on weekly / monthly basis for issuance of accounts. However, inspite 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. 14 Nos. ABT meters installed at TSS end for the month of September 2022 are not communicating with SLDC AMR system. Also, manually downloaded meter data of these TSS is not received by SLDC despite repeated requests from SLDC.
4. Provide AMC for AMR system of meters installed at TSS and GSS end for successful downloading of meter data.

Railway representative informed that the proposal of AMC contract to M/s Secure Meters Ltd. is under process and with in one or two month tendering process will be completed.

#### **8.5 Testing & Calibration of interface meters of MPPGCL.**

SLDC representative informed that as already requested in the previous OCCMs to MPPGCL for conducting 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. SLDC representative requested MPPGCL to apprise the Committee about the status of Testing / Calibration as per regulatory provisions. He further requested MPPGCL to ensure that meters installed at the interface points are time synchronized with GPS. MPPGCL representative informed that testing / calibration of main & standby meters installed at Thermal Power Stations have already been done and assured to conduct the testing / calibration of meters installed at Hydel Power Station and of check meters of Thermal Power Stations. Further, MPPGCL assured to conduct time synchronization all meters with GPS.

#### **8.6 Non-receipt of ABT meter data of Solar Generating station:**

SLDC representative informed that meter data of some pooling stations qualified for RE DSM is not being received in SLDC from November 2021. The list of missing data of meters has already been emailed on monthly basis but, till date we have not received the meter data. The list of missing data of pooling stations is .

Sr. no.	Feeder Name	Location	Meter No
1	33 KV UJAAS II SITAMAU	132KV S/s SITAMOU	XD501479
2	33 KV UJAAS 1 SITAMAU	132KV S/s SITAMOU	XC562299
3	WINDFARM FEEDER AT JAORA (WINCON)	132KV S/S JAORA	MPE22421

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

### **8.7 Non-receipt of ABT meter/JMR data of M/s Orient Green :**

SLDC representative informed that meter data (Main & Check) and JMR data of M/s Orient Green Ltd connected at 132KV Gadarwara is not received at SLDC. He informed that AE, MPPTCL substation, Narsinghpur has sent reading of M/s Orient Green instead of energy and requested CE(T&C) office to instruct AE substation Narsinghpur to provide energy JMR data in SLDC format. CE(T&C) office representative informed that they have issued instructions to AE, MPPTCL Narsinghpur to sent meter data (Main & Check) and JMR data of M/s Orient Green Ltd connected at 132KV Gadarwara.

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

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

Sr. no.	FEEDER	SUBSTATION		Meter No.	TIME DRIFT IN MINUTES
1	UJAAS I SUSNER	132KV S/s Susner	WZONE	XB571653	368.40
2	M/S SIDHANT WIND_KUCHROD	33/11KV S/s KUCHDOD	WZONE	XB589231	311.00
3	M/S SIDHANT WIND_AFJALPUR	33/11KV S/s AFJALPUR	WZONE	XC502289	317.00
4	SHANKESHWAR WIND POWER_NAGRI	220KV S/s DALODA	WZONE	XC525573	321.00
5	SHANKESHWAR WIND POWER_DHMNAR	220KV S/s DALODA	WZONE	XC525575	320.00
6	33KV MARUTSHAKTI CHANDWASA	33KV CHANDWASA	WZONE	XC502303	289.00
7	VIVAAN SOLAR -3 MAKDON	132KV S/S MAKDON	WZONE	XC529586	20.00
8	WIND WORLD 4 SUSNER	132KV S/S SUSNER	WZONE	XA474846	92.00
9	33KV TODAY CLEAN ENERGY FDR-II	220KV S/S BAROD	WZONE	XD511507	49.00
10	GLOBUS STEEL & POWER	132KV S/s SITAMOU	WZONE	XC562469	83.00
11	SIMCON FEEDER -2	132KV GANJBASODA	CZONE	Y0327309	20.00

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 RATLAM	132KV S/S JAORA	XE479856	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
2	33KV SUZLON- IV RATLAM	132KV S/S JAORA	XE479859	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
3	33KV SUZLON- V RATLAM	132KV S/S JAORA	XE479860	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
4	33KV SUZLON-IV AGAR	132KV S/S AGAR	XE479864	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
5	33KV SUZLON-V (SUSNER-III)	132KV S/S SUSNER	XE479867	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
6	33KV SUZLON-III (AGAR- I),	132KV S/S AGAR	XE479863	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
7	33KV SUZLON BEHAPUR DALODA-I	220 KV S/s DALODA	XE479862	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
8	33KV SUZLON BEHPUR DALODA-II	220 KV S/s DALODA	XE479861	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
9	33KV SUZLON I (SUSNER-I),	132KV S/S SUSNER	XE479866	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
10	33 KV SUZLON GUJRAT WIND	220 KV BAROD	XD595984 XD595980	WZONE	MANIKARAN ANALYTICS LTD...
11	33KV FREEWING POWER PVT. LTD.	132KV S/s MAKDON	Y0505422	WZONE	FREEWING POWER LTD.
12	33KV BADONI PVT LTD.	132KV S/s MAXI	XD522128	WZONE	MANIKARAN ANALYTICS LTD..
13	33KV GI POWER PVT. LTD.	220KV S/s MAKDON	X1071843	WZONE	KREATE TECHNOLOGY PVT LTD
14	SUZLON DEV 1 NAGDA HILL	220 KV DEWAS	XE479868	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
15	SIMCON FEEDER -2	220KV GANJBASODA	Y0327309	CZONE	KCREATE TECHNOLOGIES LLP

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

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

## 8.9 Testing & Calibration of interface meters:

SLDC representative requested to DCCs, Indore and Bhopal to take-up the matter with concerned officials for 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.

In response, DCC Bhopal representative informed that concerned officers have already been informed for necessary action in the matter. DCC Indore representative has not attended the meeting.

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

### **9.1 Replacement of RTUs in Thermal Power Stations:-**

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

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

(a) STPS PH-IV: - Due to unavailability of RS 485 port in existing energy meter, order regarding procurement of new energy meter was placed and new energy meter has been received at site and it will be integrated in existing SCADA System and real time data shall be provided in SLDC SCADA System at the earliest.

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

(ii) SGTPS: - RTU of Birsinghpur Hydel has been shifted to SGTPS and cabling work has been done and procurement of energy meter has been initiated and integration of energy meter in RTU has been completed. However value received through energy meter is not correct.

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

In view of the above, MPPGCL has informed that they will expedite the procurement of RTU of ATPS and STPS at the earliest.

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

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

MPPGCL has informed that connection to new charger shall be done at the earliest .

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

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

#### **(a) MPPGCL Generating Substations :-**

#### **1. SGTPS :-**

1.Sr. No.	Description	Unit	Pending since
1	XFMR 220 /33, STN XFMR	CB	11 month

#### **(b) Transmission/ other Generating Substations :-**

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

MPPTCL informed that they will arrange for rectification of above telemetry issue within one week. and RTU belonging to Satna division shall be restored by sending T&C official from Jabalpur region. Official of SGTPS informed that they will rectify the issue within one month.

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

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

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

MPPGCL informed that they will arrange for RGMO/FGMO extension within two months

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

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

S.No.	Name of RTU	Remarks	Telemetry Availability %
1	Birsingpur HPS	Out since more than 2 months	0 %
2	220 KV Rewa	Intermittent	95%
3	132 KV Deolone HPS	Intermittent	70%
4	132 KV Bijawar	Intermittent	64%
5	132 KV Beohari	Intermittent	91%
6	132 KV Satna -2 <sup>nd</sup>	Intermittent	78%
7	132 KV Zinna	Intermittent	0%
8	132 KV Bara malhera	Intermittent	0%

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

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

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

MPPGCL informed that they will arrange for the same within a month.

## **9.7 Rectification/Confirmation of readiness of OPGW Links**

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

3.	400 KV Pithampur-Indore	Repairing of 22 faulty fibers out of 24 Fibers	No confirmation from field has been received and Repairing is pending
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MPPTCL informed that they will arrange for verification for the same within two weeks.

#### **9.8 Telemetry of railway TSS Sub Stations: -**

The telemetry of existing 41 Nos Railway Traction Sub Stations & upcoming 22 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 41 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 22 Nos Railway Traction Sub Stations as well as ensure reliable telemetry of existing Railway TSS.

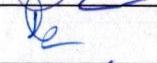
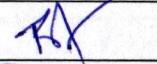
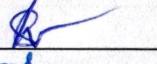
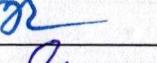
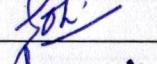
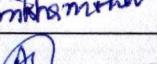
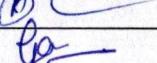
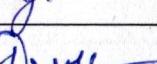
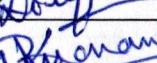
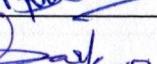
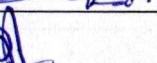
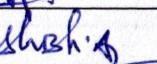
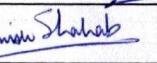
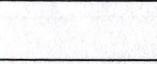
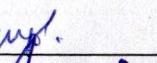
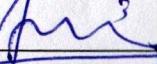
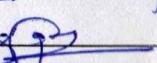
Railway officials informed that balance work shall be initiated at the earliest.

**ITEM NO 10 : DATE AND VENUE OF NEXT OCC MEETING :-** It is proposed to hold 84th Operation and Coordination Committee meeting of MP in Dec-2022. The host and venue of the same shall be intimated separately.

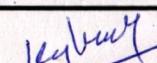
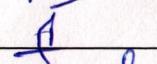
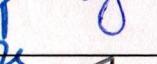
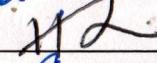
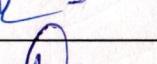
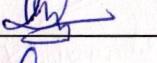
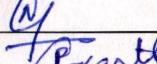
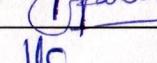
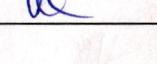
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Annexure -1

**Details of participants of "83rd OCC Meeting of MP", held at MP SLDC Jabalpur on date -20.10.2022.**

S. No.	Name	Designation	Office name	Contact no	E-Mail ID	Signature
1	Sh. S. S. Patel	CE	SLDC	9425805270		
2	-/- Pradeep Sachan	SE	SLDC	9425805277		
3	-/- R.K. Gupta	SE	SLDC	9425805182		
4	-/- V K Rathore	SE	SLDC	9425805271		
5	G. S. Thakur	EE	SLDC	9425805099		
6	Shikhar Neema	AE	SLDC	9425805299		
7	Hitech Tiwari	FE	% CECPLD, MPPTCL	9425806882	ce.pnd@mptransco.nic.in	
8	Saurabh Soni	AE	--	9425804684	stu.mpc@mptransco.nic.in	
9	Ankit Mehsoliya	AE	% CE(BHT-M)MPPTCL	9425804806	ankit.mehsoliya@mptransco.nic.in	
10	Krishna Mohan Keshri	AE	ISP, NHDC	9424840528	Kmk.Krish87@gmail.com	
11	A.K Choubey	EE	SLDC Bhopal	9425804989		
12	Praveen Kr Jain	GM	MPPML	9425805920	praveen.jain@mppml.com	
13	Divya Soni	EE	SublDC, Indore	9425805065	divyamn@gmail.com	
14	Brijesh Maravi	EE	% ED(OSM:Gen)MPPCL	9425806537	gcc.mpprgd@gmail.com	
15	Amrit Sarkar	DGM	JP Bina	8349997016	amrit.sarkar@jalindia.co.in	
16	Vivekanand Tiwari	Manager(EE)	BLA Power Pvt Ltd	8770454861	electricity@bla.co.in	
17	Sachin Kr Ashish	Project Co-ordinator	STPL	7747006268	sachin.ashish@apraava.com	
18	Danish Shahab	JE	Indian Railways	9457050656	danish0802@gmail.com	
19	Shailendra Chawhan	A.E	(D.C.C. FZ Jabalpur)	9165355221	cmder2_id@yahoo.in	
20	Harsh Gupta	SE	CE(OM) Hydel JNP	9425807236	cehydeljabalpur@gmail.com	
21	G. Dixit	EE	GCE, JDP	9425806618	ghdixitmppeb2@gmail.com	
22	S. K. kushwaha	EE	DCC, Bhopal	9893810444	plm.mpcz@gmail.com	

**DETAILS OF PARTICIPANTS OF 83RD OCC MEETING OF MP , HELD AT MP SLDC JABALPUR ON DATE -20.10.2022.**

S. No.	Name	Designation	Office name	Contact no	E-Mail ID	Signature
23	BABITA GAJBHIE	EE	O/CE(EE)-Y, MPPTEL	9425806904	babita.gajbhiye@mptransco.nic.in	
24	RAJESH SHANDILYA	SE	O/CE(TEC) MPPTEL	9425804987	rksmsi.bpl@gmail.com	
25	Vivek K. Agarwal	BR	O/CE(CSLDC),MPPTEL	9425805235	vista-vka@gmail.com	
26	P.K. Gangava	SE	O/CE(TEC) MPPTEL	9425804959	ce.tnc@mptransco.nic.in	
27	Dr. HIMANSHU SRIVASTAVA	EE	SCADA CC MPPTEL	9425806858	h.srivastava@mptransco.nic.in	
28	Anurag Phusa	SE	SLDC, MPPTEL	9425805231	anuragphusa22@gmail.com	
29	S.K. Ray	AE	SLDC, Jabalpur	9425843226	samirray1969@gmail.com	
30	H.S. Shrivastava	DGM	DCE E2 NB	94258-05438	categ-1d@ptos.com	
31	Q.S. Mujalde	AE	SLDC, Jabalpur	9425806851	doubtsslde@gmail.com	
32	Nikita Alare	AE	SLDC, Jabalpur	9425820053	nikita.alare02@gmail.com	
33	Pratik Panth	A.E.	CGIM (PM), Jabalpur	9755206950	pratik.panth@nppmcl.com	
34	Rajeev Kumar	AE	SLDC	9425804659	om_rajeev91@rediffmail.com	
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**ANNEXURE-2.2.2**

**May-22**

Sr No	Name of Sub Station	M A X I M U M			M I N I M U M		
		KV	TIME	DATE	KV	TIME	DATE
1	Indore	421	8.00	22 May 22	401	11.00	25 May 22
2	Bhopal	422	8.05	22 May 22	398	14.55	5 May 22
3	Nagda	423	8.00	22 May 22	402	11.00	25 May 22
4	Satpura	424	8.00	22 May 22	404	15.00	5 May 22
5	SGTPS Birsinghpur	424	18.00	29 May 22	403	11.00	9 May 22
6	Bina	418	8.05	22 May 22	400	23.10	29 May 22
7	Pithampur	423	8.00	22 May 22	406	11.00	25 May 22
8	Ashta	425	8.00	22 May 22	405	15.00	5 May 22
9	Julwania	424	8.00	22 May 22	409	11.00	25 May 22
10	Kirnapur	430	8.00	22 May 22	413	15.00	5 May 22
11	Badnawar	429	8.00	22 May 22	411	15.00	5 May 22

**Jun-22**

Sr No	Name of Sub Station	M A X I M U M			M I N I M U M		
		KV	TIME	DATE	KV	TIME	DATE
1	Indore	418	18.00	19 Jun 22	399	11.00	6 Jun 22
2	Bhopal	422	16.05	19 Jun 22	402	10.20	2 Jun 22
3	Nagda	420	4.00	21 Jun 22	400	11.00	6 Jun 22
4	Satpura	423	3.00	20 Jun 22	410	18.00	5 Jun 22
5	SGTPS Birsinghpur	422	19.00	20 Jun 22	405	24.00	8 Jun 22
6	Bina	419	13.10	30 Jun 22	400	22.15	9 Jun 22
7	Pithampur	420	18.00	19 Jun 22	404	11.00	6 Jun 22
8	Ashta	425	22.00	11 Jun 22	406	11.00	6 Jun 22
9	Julwania	423	21.00	11 Jun 22	407	11.00	6 Jun 22
10	Kirnapur	432	12.00	19 Jun 22	416	15.00	2 Jun 22
11	Badnawar	426	22.00	20 Jun 22	407	11.00	5 Jun 22

**Jul-22**

Sr No	Name of Sub Station	M A X I M U M			M I N I M U M		
		KV	TIME	DATE	KV	TIME	DATE
1	Indore	420	4.00	11 Jul 22	403	10.00	29 Jul 22
2	Bhopal	424	13.05	24 Jul 22	405	9.45	29 Jul 22
3	Nagda	424	13.05	24 Jul 22	405	23.00	20 Jul 22
4	Satpura	423	3.00	21 Jul 22	408	7.00	4 Jul 22
5	SGTPS Birsinghpur	420	17.00	20 Jul 22	405	20.00	17 Jul 22
6	Bina	417	13.15	10 Jul 22	399	22.35	13 Jul 22
7	Pithampur	422	4.00	21 Jul 22	406	10.00	29 Jul 22
8	Ashta	424	4.00	21 Jul 22	406	10.00	29 Jul 22
9	Julwania	425	4.00	11 Jul 22	412	10.00	29 Jul 22
10	Kirnapur	431	17.00	24 Jul 22	416	7.00	19 Jul 22
11	Badnawar	429	4.00	21 Jul 22	411	10.00	29 Jul 22

**Aug-22**

Sr No	Name of Sub Station	M A X I M U M			M I N I M U M		
		KV	TIME	DATE	KV	TIME	DATE
1	Indore	423	13.00	11 Aug 22	403	19.00	25 Aug 22
2	Bhopal	427	13.35	11 Aug 22	406	19.30	6 Aug 22
3	Nagda	423	13.00	11 Aug 22	403	19.00	25 Aug 22
4	Satpura	428	14.00	15 Aug 22	406	13.00	30 Aug 22
5	SGTPS Birsinghpur	425	11.00	15 Aug 22	406	23.00	6 Aug 22
6	Bina	420	13.45	15 Aug 22	398	22.20	8 Aug 22
7	Pithampur	423	14.00	15 Aug 22	406	19.00	25 Aug 22
8	Ashta	425	14.00	15 Aug 22	405	7.00	29 Aug 22
9	Julwania	426	14.00	15 Aug 22	409	11.00	26 Aug 22
10	Kirnapur	437	13.00	11 Aug 22	416	7.00	29 Aug 22
11	Badnawar	430	13.00	11 Aug 22	410	19.00	25 Aug 22

**FREQUENCY PARTICULARS****Annexure- 2.1**

S. No.	Particulars	May-22	Jun-22	Jul-22	Aug-22
<b>1 INTEGRATED OVER AN-HOUR</b>					
1.1	Maximum Frequency	50.27 Hz	Between 08.00 hrs & 09.00 Hrs on 23.05.22	50.21 Hz	Between 13.00 hrs & 14.00 Hrs on 19.06.22
1.2	Minimum Frequency	49.77 Hz	Between 05.00 hrs & 06.00 Hrs on 03.05.22	49.72 Hz	Between 16.00 hrs & 17.00 Hrs on 13.06.22
1.3	Average Frequency	50 Hz		49.98 Hz	
<b>2 INSTANTANEOUS FREQUENCY</b>					
2.1	Maximum Frequency	50.35 Hz	AT 09.07.20 HRS ON 23.05.22	50.36 Hz	AT 13.07.00 HRS ON 19.06.22
2.2	Minimum Frequency	49.5 Hz	AT 14:55:020 HRS ON 03.05.22	49.48 Hz	AT 16:45:50. HRS ON 13.06.22
<b>3 Percentage of time when frequency was :-</b>					
	%age of time when frequency was	May-22	Jun-22	Jul-22	Aug-22
3.1	Below 49.9 Hz	9.83	12.45	7.82	12.45
3.2	Between 49.9 Hz and 50.05 Hz	72.23	73.38	73.46	73.37
3.3	Above 50.05 Hz	17.94	14.17	18.72	14.17
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

**Plan for installation of Capacitor Banks in 2022-23**

SI.No.	Circle	Name of EHV S/S	Capacitor Banks planned for 2022-23		Remark
			KV Class	MVAR Rating	
1	BHOPAL 400	KANNOD 132	36KV	AUG 6 BY 12MVAR	NON TURNKEY WORK
2	GUNA	SHEOPUR 132	36KV	REPL 6 BY 12MVAR	NON TURNKEY WORK
3	GUNA	KAPASI 132 KV	36KV	ADDL 12MVAR	NON TURNKEY WORK
4	GWALIOR	MORENA132	36KV	REPL 12 BY 12MVAR	NON TURNKEY WORK
5	NAGDA	ZARDA 132	36KV	ADDL 12MVAR	NON TURNKEY WORK
6	SAGAR	TIKAMGARH 132	36KV	AUG 6+5 BY 12MVAR	NON TURNKEY WORK
7	SAGAR	PRITHVIPUR 132	36KV	AUG 6+6 BY 12MVAR	NON TURNKEY WORK
8	SATNA	REWA 132	36KV	AUG 5 BY 12MVAR	NON TURNKEY WORK
9	SATNA	PAWAI 132 KV	36KV	ADDL 12MVAR	NON TURNKEY WORK
10	UJJAIN	GHONSLA 132	36KV	ADDL 12MVAR	NON TURNKEY WORK
11	UJJAIN	BHERUGARH132	36KV	ADDL 12MVAR	NON TURNKEY WORK
12	UJJAIN	SUSNER 132	36KV	ADDL 12MVAR	NON TURNKEY WORK
13	UJJAIN	CHAPDA 220	36KV	ADDL 12MVAR	NON TURNKEY WORK
14	UJJAIN	MAKSI 132	36KV	ADDL 12MVAR	NON TURNKEY WORK
15	UJJAIN	PANWADI 132	36KV	ADDL 12MVAR	NON TURNKEY WORK
16	UJJAIN	KALAPIPAL 132	36KV	ADDL 12MVAR	NON TURNKEY WORK
17	BHOPAL	SEMRI HARCHAND 132	36KV	1X12MVAR	TURNKEY WORK
18	BHOPAL 400	BAGRODA 132	36KV	1X12MVAR	TURNKEY WORK
19	BHOPAL 400	BARELI 32	36KV	2X12MVAR	TURNKEY WORK
20	BHOPAL 400	ASHTA 132	36KV	1X12MVAR	TURNKEY WORK
21	BHOPAL 400	LALGHATI 132	36KV	1X12MVAR	TURNKEY WORK
22	BHOPAL 400	KHATEGAON 132	36KV	1X12MVAR	TURNKEY WORK
23	BINA 400	SIRONJ 132	36KV	1X12MVAR	TURNKEY WORK
24	GUNA	PICHHORE 132	36KV	1X12MVAR	TURNKEY WORK
25	GWALIOR	MAHALGAON 220	36KV	1X12MVAR	TURNKEY WORK
26	INDORE	GHATABILLOD 132	36KV	1X12MVAR	TURNKEY WORK
27	INDORE	RAU 132	36KV	2X12MVAR	TURNKEY WORK
28	INDORE	SIMROL 132	36KV	2X12MVAR	TURNKEY WORK
29	INDORE	GOUTAMPURA 132	36KV	1X12MVAR	TURNKEY WORK
30	JABALPUR	ANUPPUR 220	36KV	1X12MVAR	TURNKEY WORK
31	JABALPUR	BIRSINGHPUR 220	36KV	1X12MVAR	TURNKEY WORK
32	KHANDWA	BARWAHA 220	36KV	1X12MVAR	TURNKEY WORK
33	KHANDWA	SANAWAD 132	36KV	1X12MVAR	TURNKEY WORK
34	KHANDWA	NIMRANI 220	36KV	1X12MVAR	TURNKEY WORK
35	MANDSAUR	TAL 132	36KV	1X12MVAR	TURNKEY WORK
36	MANDSAUR	BHANPURA 220	36KV	1X12MVAR	TURNKEY WORK
37	MANDSAUR	NEEMUCH 132	36KV	1X12MVAR	TURNKEY WORK
38	NAGDA	KHACHROD 132	36KV	2X12MVAR	TURNKEY WORK
39	NAGDA	RAJGARH (DHAR) 220	36KV	2X12MVAR	TURNKEY WORK
40	NAGDA	BADNAGAR 220	36KV	2X12MVAR	TURNKEY WORK
41	NAGDA	BADNAGAR 220	36KV	1X12MVAR	TURNKEY WORK
42	SAGAR	HATTA 132	36KV	1X12MVAR	TURNKEY WORK
43	SAGAR	TIKAMGARH 220	36KV	1X12MVAR	TURNKEY WORK
44	SATNA	DONGRITAL 132	36KV	1X12MVAR	TURNKEY WORK
45	SEONI	CHHINDWARA 132	36KV	2X12MVAR	TURNKEY WORK
46	UJJAIN	DEWAS 220	36KV	2X12MVAR	TURNKEY WORK

Annexure- 2.3.(i)

**Discoms wise Average Supply Hours**

PARTICULARS	East Zone				Central Zone			
	May-22	Jun-22	Jul-22	Aug-22	May-22	Jun-22	Jul-22	Aug-22
Commissary HQ	23:49	23:52	23:56	23:54	23:33	23:31	23:32	23:34
District HQ	23:41	23:47	23:48	23:47	23:44	23:44	23:43	23:45
Tehsil HQ	23:28	23:26	23:31	23:31	23:36	23:37	23:32	23:37
Rural -Mixed	22:59	23:02	23:02	23:02	22:35	23:08	22:50	22:53
Rural -DLF	23:01	23:03	23:03	23:02	22:36	23:08	22:52	23:02
Rural -Irrigation	9:42	9:37	9:34	9:34	9:23	9:41	9:36	9:39
PARTICULARS	West Zone				MP			
	May-22	Jun-22	Jul-22	Aug-22	May-22	Jun-22	Jul-22	Aug-22
Commissary HQ	23:57	23:53	23:56	23:56	23:44	23:44	23:46	23:47
District HQ	23:51	23:51	23:53	23:52	23:45	23:48	23:48	23:47
Tehsil HQ	23:48	23:45	23:48	23:48	23:36	23:35	23:36	23:38
Rural -3Phase	23:19	23:08	23:06	23:30	22:52	23:05	22:58	23:01
Rural -1Phase	23:22	23:29	23:33	23:32	22:57	23:12	23:08	23:11
Total Rural	9:26	9:36	9:33	9:34	9:31	9:38	9:34	9:35

## Details of 33KV feeder which are not allocated with any Group No. as on 30.09.22

Sl.No.	T&C Circle	EHV Sub-Station	Name of 33KV Feeder not allocated with any Group number for U/F & Load Shadding	Feeder DOC
1	SEONI	LAKHNADON 132	33KV GHANSOUR II	09/05/2018
2	SEONI	LALBURRA 132	33KV PHE	10/02/2017
3	SEONI	SEONI 220	33KV MUNGWANI	15/03/2022
4	SEONI	NAINPUR 132	33KV KEOLARI I	22/12/2014
5	SEONI	NAINPUR 132	33KV KEOLARI II	18/03/2018
6	SEONI	CHHINDWARA 132	33KV DIST HOSPITAL	06/04/2018
7	SEONI	CHAURAI 132	33KV JAMUNIYA	26/09/2021
8	SEONI	SAORI 132	33KV SAORI	12/11/2018
9	SEONI	SAORI 132	33KV LAWAGHOGRI	13/11/2018
10	SEONI	SAORI 132	33KV MUJAWAR	12/11/2018
11	SEONI	SAORI 132	33KV BHUTAI	30/01/2019
12	SATNA	SATNA 220	33KV BHILAI J P	29/09/2009
13	SATNA	KOTAR-220	33KV SUKWAH	15/11/2010
14	SATNA	KOTAR-220	33KV KOTAR-II	16/02/2018
15	SATNA	MAHAIR - 220	33KV BHARAULI	02/04/2011
16	SATNA	MAHAIR - 220	33KV UDAYPUR	20/08/2013
17	SATNA	AMARPATAN - 132	33KV NADAN -2	20/08/2009
18	SATNA	AMARPATAN - 132	33KV JAL NIGAM	10/03/2022
19	SATNA	MAJHGAWAN - 132	33KV BARONDHA	07/07/2010
20	SATNA	MAJHGAWAN - 132	33KV KOTHI	07/07/2010
21	SATNA	MAJHGAWAN - 132	33KV EAST DICOM	13/03/2018
22	SATNA	NAGOD 132	33KV RAHIKWARA	13/02/2012
23	SATNA	NAGOD 132	33KV BASUDHA	23/07/2015
24	SATNA	NAGOD 132	33KV JASO-II	13/07/2021
25	SATNA	SATNA II - 132	33KV TRANSPORT NAGAR	03/01/2019
26	SATNA	SATNA II - 132	33KV ANIKET MATEHNA	17/09/2019
27	SATNA	SATNA II - 132	33KV NAVEEN UDHYOGIK BABUPUR	03/02/2022
28	SATNA	UNCHEHRA 132	33KV UNCHEHRA	18/07/2020
29	SATNA	UNCHEHRA 132	33KV JEETNAGAR	18/07/2020
30	SATNA	RAMPUR BAGHELAN 132	33KV MATEHNA	31/01/2019
31	SATNA	PANNA 132	33KV NEW EAST DISCOM	21/11/2013
32	SATNA	REWA 220	33KV SUPIYA	07/07/2018
33	SATNA	REWA II 132	33KV SANDARIYA	03/06/2021
34	SATNA	REWA II 132	33KV MSW (RMSWPL)	23/03/2022
35	SATNA	REWA II 132	33KV JAL NIGAM	13/09/2022
36	SATNA	MAUGANJ 132	33KV KHATKAHRI	07/12/2018
37	SATNA	MAUGANJ 132	33KV DHERA	31/03/2018
38	SATNA	ATRAILL 132	33KV ATRAILA	26/09/2021
39	SATNA	ATRAILL 132	33KV RAMBAG	26/09/2021
40	SATNA	RAMPUR NAIKIN 132	33KV RAMNAGAR (EEWRD SATNA )	09/04/2022
41	SATNA	DONGARITAL. 132	33KV APMDCL	24/01/2022
42	GWALIOR	AMBAH 132	33KV PARIKSHTPURA	31/07/2019
43	GWALIOR	KAILARAS 132	33KV GAIL	28/12/2018
44	GWALIOR	MORENA 220	33KV BHONDERI FEEDER	23/06/2022
45	KHANDWA	KHANDWA 132	33KV WEST DISCOM	30/11/2014
46	KHANDWA	BADGAON 132	33KV AKVN	17-03-2021
47	KHANDWA	MOONDI 132	33KV SHIWARIYA TOWN-I	15-10-2020

Sl.No.	T&C Circle	EHV Sub-Station	Name of 33KV Feeder not allocated with any Group number for U/F & Load Shadding	Feeder DOC
48	KHANDWA	CHHEAGOAN 132	33KV MALWA-I	24/02/2022
49	KHANDWA	JHIRNIYA 132	33KV CHIRIYA	10/09/2022
50	KHANDWA	CHHEGAON 400	33KV NVDA -I	12-03-2021
51	KHANDWA	CHHEGAON 400	33KV NVDA -II	03-02-2021
52	KHANDWA	SANAWAD 132	33KV KHARGONE TRANS. LTD.	15/05/2019
53	KHANDWA	ANDAD 132	33KV MOHAMDPUR	12/09/2019
54	KHANDWA	ANDAD 132	33KV GYARASPURA	12/09/2019
55	KHANDWA	SHAHPUR 132	33KV WARLA	22/12/2021
56	KHANDWA	SHAHPUR 132	33KV BALWADI	10/04/2019
57	KHANDWA	SHAHPUR 132	33KV JAMTI	15/10/2019
58	KHANDWA	SENDHWA 220	33KV GAWADI	29/05/2020
59	KHANDWA	SENDHWA 220	33KV CHACHRIYA	16/08/2021
60	KHANDWA	PATI 132	33KV SILAWAD	14/01/2021
61	KHANDWA	PATI 132	33KV BOKRATA	04/08/2021
62	SAGAR	RAHLI 132	33KV CHHIRARI	19/01/2019
63	SAGAR	RAHLI 132	33KV RAHLI	19/01/2019
64	SAGAR	RAHLI 132	33KV GUDA	19/01/2019
65	SAGAR	RAHLI 132	33KV PATNA BUJURG	19/01/2019
66	SAGAR	DEORI 132	33KV DEORI	23/07/2020
67	SAGAR	DEORI 132	33KV KOPRA	23/07/2020
68	SAGAR	BADAMALAHERA 132	33KV DARGUWAN	02/10/2019
69	SAGAR	BADAMALAHERA 132	33KV BADAMALAHERA	22/09/2019
70	SAGAR	BADAMALAHERA 132	33KV BHAGWAN	22/12/2019
71	SAGAR	BADAMALAHERA 132	33KV GULGANJ	27/09/2019
72	INDORE	RAU 132	33KV HARIFATAK	29/09/2013
73	INDORE	RAU 132	33KV PANTHER-II	29/09/2013
74	INDORE	JETAPURA (PALASIYA) 132	33KV PITHAMPUR WATERWORKS	17/07/2022
75	BHOPAL 400	ADAMPUR 220	33KV KOKTA-I	24/06/2021
76	BHOPAL 400	ADAMPUR 220	33KV KOKTA -II	23/06/2021
77	BHOPAL 400	SOHAGPUR 132	33KV SOHAGPUR TOWN	04-06-2021
78	BHOPAL 400	SOHAGPUR 132	33KV RANIGOHAN	30-09-2021
79	BHOPAL 400	SOHAGPUR 132	33KV MAHUAKHEDA	10-04-2021
80	BHOPAL 400	SOHAGPUR 132	33KV CHARGAON	15-01-2021
81	BHOPAL 400	MANDIDEEP 132	33KV INTER CONNECTOR-IV	-
82	BHOPAL 400	MANDIDEEP 132	33KV DAHOD	23/12/2019
83	BHOPAL 400	MANDIDEEP 220	33KV INTERCONECTOR 1	30/12/2010
84	BHOPAL 400	MANDIDEEP 220	33KV INTERCONECTOR 2	16/02/2020
85	BHOPAL 400	MANDIDEEP 220	33KV MAHAPET -1	17/03/2019
86	BHOPAL 400	MANDIDEEP 220	33KV MAHAPET -2	26/09/2019
87	BHOPAL 400	MANDIDEEP 220	33KV INTERCONECTOR 3	03/03/2012
88	BHOPAL 400	MANDIDEEP 220	33KV JAHANVI (SAGAR)	25/09/2021
89	BHOPAL 400	MANDIDEEP 220	33KV PARLE	26/02/2020
90	BHOPAL 400	TAMOT 132	33KV AKVN NO. I.	05/10/2016
91	BHOPAL 400	TAMOT 132	33KV AKVN NO. II.	05/10/2016
92	BHOPAL 400	TAMOT 132	33KV OBEDULLAH GANJ	02/02/2017
93	BHOPAL 400	BAGRODA 132	33KV AKVN NO. I.	02/07/2016
94	BHOPAL 400	BAGRODA 132	33KV AKVN NO. II.	02/07/2016
95	BHOPAL 400	BAGRODA 132	33KV DURGA STEEL	22/02/2019
96	BHOPAL 400	ASHTA 132	33KV NEW BAY KILERAMA-II	25/11/2021
97	BHOPAL 400	ARNIYAKALAN 132	33KV DESIGNCO (GENERATION SOLAR)	01/05/2018
98	BHOPAL 400	KHATEGAON 132	33KV NVDA FEEDER	10/01/2022

Sl.No.	T&C Circle	EHV Sub-Station	Name of 33KV Feeder not allocated with any Group number for U/F & Load Shadding	Feeder DOC
99	BHOPAL 400	TENDUKHEDA 132	33KV SPARE BAY	30/07/2020
100	BHOPAL 400	BANKHEDI 132	33KV MALKAJRA	18/12/2019
101	BHOPAL 400	SILWANI 132	33KV SPARE BAY	28-03-2019
102	MANDSAUR	SAILANA 220	33KV DHAMEDI FEEDER	29-04-2020
103	MANDSAUR	SAILANA 220	33KV KHEDAWADA FEEDER	29-04-2020
104	MANDSAUR	SHIVGARH 132	33KV BHADANKALA	19-08-2020
105	MANDSAUR	SHIVGARH 132	33KV NEW RAOTI	07-09-2020
106	MANDSAUR	SHIVGARH 132	33KV PALSODI	18-10-2020
107	MANDSAUR	DALODA 220	33KV JAWASIA	17-10-2020
108	MANDSAUR	DALODA 220	33KV KHILCHIPURA2	13-01-2021
109	JABALPUR	MARHOTAL 132	33KV KATHONDA	19-10-2016
110	JABALPUR	MARHOTAL 132	33KV ORIYA	15-07-2020
111	JABALPUR	MARHOTAL 132	33KV SIHORA-PANAGAR	22-01-2011
112	JABALPUR	PATAN 132	33KV PATHRORI	21-05-2021
113	JABALPUR	BICHHIYA 132	33KV BICHHIYA	29-06-2022
114	JABALPUR	DHEEMARKHEDA 132	33KV DASRAMAN	06-09-2022
115	JABALPUR	BARHI 132	33KV KUWA	20-01-2018
116	JABALPUR	BARHI 132	33KV BARHI	20-01-2018
117	JABALPUR	BARHI 132	33KV GERTALAI	20-03-2018
118	JABALPUR	BARHI 132	33KV PIPARIYA	20-03-2018
119	JABALPUR	GORAKHPUR 132	33KV GORAKHPUR	21-12-2020
120	JABALPUR	GORAKHPUR 132	33KV KARANJIYA	21-12-2020
121	GUNA	MYANA 132	33KV SENDHUA	19/06/2021
122	GUNA	CHACHODA 132	33KV CHACHODA	10/11/2020
123	GUNA	CHACHODA 132	33KV RAMDI	10/11/2020
124	GUNA	CHACHODA 132	33KV SANAI	19/06/2021
125	GUNA	CHACHODA 132	33KV PANCHI	03/02/2022

## 4. Updated status of Under frequency relay at 48.80 Hz &amp; 48.60 Hz : as on 30.09.22

SL.NO.	T&C CIRCLE	NAME OF EHV SUB-STATION	NAME OF FEEDER		FEEDER GROUP NO.	UNDER FREQUENCY AND df/dt RELAY DETAILS				UNDER FREQUENCY SETTING	TIME DELAY SETTING	REMARK
			KV	NAME		MAKE	TYPE	SL.NO.	D.O.C.	Hz.	Sec.	
1	SEONI	SEONI 220	33	33KVMUNGWANI	NA	DOUBLE STAGE MAKE JVS	JRF 04	623979	21.05.08	49.2		
2	SEONI		33	33KV PGCL	VII-A							
3	SEONI		33	33KV CHHAPARA	V- A					49.2		
4	SEONI		33	33KV KARIRAT	V					49.2		
5	SEONI		33	AKVN	IX					49.2		
6	SEONI		33	KALARBAKI	IV					49.2		
7	SEONI		33	33KV GOPALGANJ	VI					49.2		
8	SEONI	SEONI 132	132	132KV NAINPUR	DF/DT RELAY	MAKE ABB	FCX10B/01	M07-0241				
9	SEONI		33	33KV KARIRAT	V-A	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. 16-0489/46	30.06.20	49.2 Hz		
10	SEONI		33	33KV CHOURAI	III					49.2 Hz		
11	SEONI		33	33KV KEOLARI	VI					49.2 Hz		
12	SEONI		33	33KV BARGHAT	V					49.2 Hz		
13	SEONI		33	33KV PHE	VII-A					-		
14	SEONI		33	33KV ARI	VI					49.2 Hz		
15	SEONI		33	33KV PGCL	VII-A					-		
16	SEONI		33	33KV KURAI	V-A					49.2 Hz		
17	SEONI		33	33KV MALARA	IV					-		
18	SEONI		33	33KV ASHOK GAGAR	VII					-		
19	SEONI		33	11KV TOWN - I	VII					48.8HZ		
20	SEONI		33	11KV TOWN - II	VII					48.8HZ		
21	SEONI		33	11KV TOWN - III	VII					48.8HZ		
22	SEONI		33	11KV MUNGAWANI	I					49.2 Hz		
23	SEONI	BALAGHAT 132	33	33KV RAJEGAON	III	MAKE : E.E.	MFVUM-22D,	S.NO.92125264004	21.03.07	49.2 Hz		
24	SEONI		33	33KV LALBARA	V					49.2 Hz		
25	SEONI		33	33KV LANJI	V-A					49.2 Hz		
26	SEONI		33	33KV WARASEONI	VI					49.2 Hz		
27	SEONI		33	33KV MOIL	VII-A					-		
28	SEONI		33	33KV BAIHAR	XI	MAKE ASHIDA	99 LFR 010	-	19.06.02	-		
29	SEONI		33	33KV KHAIRLANJI	VI					49.2 Hz		
30	SEONI		33	11KV TOWN - I	VII					48.8HZ		
31	SEONI		33	11KV TOWN - II	VII					48.8HZ		
32	SEONI		33	11KV TOWN - III	VII					48.8HZ		
33	SEONI		33	11KV M / PAILY(HOPITAL FEEDER)	III					-		
34	SEONI		33	11KV LINGA	VII-A					-		
35	SEONI		33	11KV BHARVELLY	VII-A					-		
36	SEONI	KATANGI 132	33	33KV TIRODI	IV	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. F33882	14-04-06	49.2 Hz		
37	SEONI		33	33KV WARASEONI	V-A					49.2 Hz		
38	SEONI		33	33 KV KATANGI	V-A					49.2 Hz		
39	SEONI		33	33KV ARI	IV					49.2 Hz		
40	SEONI		33	33KV KATEDHARA	IV					49.2 Hz		
41	SEONI		33	33KV MOIL	VII-A					-		
42	SEONI	BENEGAON 132	33	33KV LANJI	VI-A	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. F 623978	08-01-10	49.2 Hz		
43	SEONI		33	33KV KIRNAPUR	VI-A					49.2 Hz		
44	SEONI		33	33KV BHANEGAON	IV					49.2 Hz		
45	SEONI		33	33KV KARANJA	IV					49.2 Hz		
46	SEONI		33	33KV BAIHAR	V-A	DOUBLE STAGE MAKE JVS	TYPE JRF 0013	S.NO. 12-4480/12	09.10.13	49.2 Hz		
47	SEONI		33	33KV UKWA	XI					-		
48	SEONI		33	33KV PARASWADA	V-A					49.2 Hz		
49	SEONI	BAIHAR 132	33	33KV MOHGAON	IV					49.2 Hz		
50	SEONI		33	33KV NAINPUR	V A	MAKE ASHIDA ELECTRICAL PVT.LIMITED	TYPE AUOFMR2	S.NO. 99LFR015	16.09.09	49.2 Hz		
51	SEONI		33	33KV PINDRAI	II					49.2 Hz		
52	SEONI		33	33KV KANHARGAON	I					49.2 Hz		
53	SEONI		33	33KV CHIRADONGRI	VI-A					49.2 Hz		
54	SEONI		33	33KV KEOLARI	NA					-		
55	SEONI		33	33KV KEOLARI-II	NA					-		
56	SEONI	NAINPUR 132	33	33KV BHEEMGARH	IX	ASHIDA 33 FACT PVT LTD	TYPE AUOFMR2	SR NO. 021 FR 025	02.01.04	-		
57	SEONI		33	33KV GHANSOUR	V A					49.2 Hz		
58	Minutes of 83rd MP OCCM		33	33KV GHANSOUR-II	NA					49.2 Hz		
59	SEONI		33	33KV DHOOMA	IV					49.2 Hz		

60	SEONI	DANHADON 132	33	33KV LAKHANADON	V A	ELECTRICAL LTD. I HANE	TYPE ACOWIRE	SKINS. USE TRUCKS	03.01.04
61	SEONI		33	33KV ADEGAON	IV				49.2 Hz
62	SEONI		33	33KV DHANORA	V				49.2 Hz
63	SEONI		33	33KV JHABUA	VII-A				49.2 Hz
64	SEONI	LALBURRA 132	33	33KV LALBRRRA	V A	MAKE AVANA	TYPE NPH222	S.NO. AP150702	29.12.15
65	SEONI		33	33KV PHE	NA				49.2 Hz
66	SEONI		33	33KV LAMTA	II				49.2 Hz
67	SEONI		33	33KV NEVERGAON	II				49.2 Hz
68	SEONI	WARASEONI 132	33	33KV KHAIRLANJI	V A	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. 16-0489/48	29.07.18
69	SEONI		33	33KV KOCHEWAAHI	VII-A				49.2 Hz
70	SEONI		33	33KV WARASEONI	VI				49.2 Hz
71	SEONI		33	33KV DONGARMALI	V				49.2 Hz
72	SEONI	KIRNAPUR 400	33	33KV HATTA	IV	MAKE SEL	TYPE 751A	S.NO. 1110040457	
73	SEONI		33	33KV KIRNAPUR	V A				-
74	SEONI		33	33KV MATTE	IV				-
75	SEONI		33	33KV RAJEGAON	IV				-
76	SEONI	CHHINDWARA 220	33	33KV PINDRAI	IV	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. F 0815266	04-02-10
77	SEONI		33	33KV SONAKHAR	VII				49.4Hz
78	SEONI		33	33KV CHAND-I	VI				48.8Hz
79	SEONI		33	33KV ROHANA KALAN	IV				49.4Hz
80	SEONI	CHHINDWADA 132	33	33KV SIDDHVINYAYAK	VII-A	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. 14-0969/62	27-05-19
81	SEONI		33	33KV CHAND-II	VI				49.4Hz
82	SEONI		33	33KV BHAISSADAND	IV				49.4Hz
83	SEONI		33	33KV KUNDALI	IV				49.4Hz
84	SEONI		33	33KV BANGAON	IV				49.4Hz
85	SEONI	PANDHURNA 220	33	33KV SAORI-I	I	DOUBLE STAGE MAKE JVS	TYPE JRF 014,	S.NO.16- 0283/23	22-10-16
86	SEONI		33	33KV SAORI-II	I				49.4Hz
87	SEONI		33	33KV UMRANALA-I	II				49.4Hz
88	SEONI		33	33KV BARKUHI	XI				-
89	SEONI		33	33KV THISGORA	XI	DOUBLE STAGE MAKE JVS	TYPE JRF 014,	S.NO.16-0283/59	04-06-17
90	SEONI		33	33KV UMRANALA-II	V				49.4Hz
91	SEONI		33	33KV CHHINDWARA I	VII				48.8Hz
92	SEONI		33	33KV SAUSAR	V A		TYPE JRF 014,	S.NO.14-0969/47	49.4Hz
93	SEONI		33	33KV CHHINDWARA II	VII	DOUBLE STAGE MAKE JVS	TYPE JRF 014,	S.NO.10-10-4205/28	26-03-11
94	SEONI		33	33KV BANGAON	II				49.4Hz
95	SEONI		33	33KV AMARWARA	VI				49.4Hz
96	SEONI		33	33KV SONAKHAR HT	VII				48.8Hz
97	SEONI		33	33KV DIST HOSPITAL	NA				
98	SEONI	PANDHURNA 220	33	33KV TEEGAON	II	DOUBLE STAGE MAKE JVS	TYPE JRF 014,	S.NO. 16-0283/35	15-02-06
99	SEONI		33	33KV RAJNA	I				49.4Hz
100	SEONI		33	33KV LINGA	I				49.4Hz
101	SEONI		33	33KV PANDHURNA	VI-A				49.4Hz
102	SEONI		33	33KV SWEN PLASTIC	VII-A	DOUBLE STAGE MAKE JVS	TYPE JRF 014,	S.NO. 10 10 4205/27	-
103	SEONI		33	33KV NANDANWADI	II				49.4Hz
104	SEONI		33	33KV JUNEWANI	VI				49.4Hz
105	SEONI		33	33KV BADCHICHOLI	I				49.4Hz
106	SEONI	KHPASWAMI 132	33	33KV BARKUHI -I	XI	DOUBLE STAGE MAKE JVS	TYPE JRF 014	S.NO. 10 10 4205/27	25-07-19
107	SEONI		33	33KV BARKUHI -II	XI				-
108	SEONI		33	33KV PANARA	XI				-
109	SEONI		33	33KV NANDAN	XI				-
110	SEONI		33	33KV PRISM CEMENT	XI	DOUBLE STAGE MAKE JVS	TYPE JRF 014	S.NO. 10 10 4205/27	49.4Hz
111	SEONI		33	33KV CHANDAMETA	V				49.4Hz
112	SEONI		33	33KV UMRETH	V				49.4Hz
113	SEONI		33	33KV NAVEGAON	IV				49.4Hz
114	SEONI		33	33KV PAGARA	VI				49.4Hz
115	SEONI	BENEGAON 132	33	33KV SAUSAR	VI-A	DOUBLE STAGE MAKE AVANA	TYPE NPH222	S.NO. AP145239	16-07-08
116	SEONI		33	33KV RAMAKONA	XIII				49.4Hz
117	SEONI		33	33KV INDUSTRIAL	XIII				49.4Hz
118	SEONI		33	33KV BORGAO	XIII				49.4Hz
119	SEONI		33	33KV PIPLA	VI-A	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. F 0815263	16-07-08
120	SEONI		33	33KV SATNOOR	XIII				49.4Hz
121	SEONI		33	33KV CHOURAI	V				49.4Hz
122	SEONI		33	33KV PANJRA	IV				49.4Hz
123	SEONI	CHURAI 132	33	33KV SAMASWARA	IV	DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO. F 0815263	03-02-10
124	SEONI		33	33KV KUNDA	V				49.4Hz
			33	33KV JAMUNIYA	NA				49.4Hz
125	Minutes of 83rd MP OCCM		33	33KV PANJRA-II	IV				49.4Hz

126	SEONI		33	33KV SANKH	IV				49.4Hz			
127	SEONI		33	33KV AMARWARA	VI A		TYPE JRF O14	S.NO. F33895		49.4Hz		
128	SEONI	AMARWADA 132	33	33KV SINGODI	III				49.4Hz			
129	SEONI		33	33KV GHOGHRI	I				49.4Hz			
130	SEONI		33	33KV HARRAI	VI-A				49.4Hz			
131	SEONI		33	33KV CHHUEE	III				49.4Hz			
132	SEONI		33	33KV SURLAKHAPA	IV				49.4Hz			
133	SEONI	BICCHUA 132	33	33KV KHAMRA	IV		TYPE NPH222	S.NO. AP135507		49.4Hz		
134	SEONI		33	33KV BICHHUA	VI				49.4Hz			
135	SEONI		33	33KV KHAMPAN	IV				49.4Hz			
136	SEONI		33	33KV SAGAR	IV				49.4Hz			
137	SEONI	UMRETH 132	33	33KV KANHARGAON	IV		TYPE JRF O14	S.NO.15-0247/1		49.4Hz		
138	SEONI		33	33KV GAJANDOH	VI-A				49.4Hz			
139	SEONI		33	33KV UMRETH	VI-A				49.4Hz			
140	SEONI		33	33KV KHIRSADOH	VI-A				49.4Hz			
141	SEONI	SAORI 132	33	33KV SAORI	NA		DOUBLE STAGE MAKE JVS	TYPE JRF O14	S.NO.17-0284/8		49.4Hz	
142	SEONI		33	33KV LAWAGHOGRI	NA					49.4Hz		
143	SEONI		33	33KV MUJAWAR	NA					49.4Hz		
144	SEONI		33	33KV BHUTAI	NA					49.4Hz		
145	SEONI	NARSINGHPUR 220	33	33KV SINGHPUR	IV		ASHIDA	ADOFM-R2	99LFR009		49.4Hz	
146	SEONI		33	33KV INDUSTRIAL	VII					48.6HZ		
147	SEONI		33	33KV NIWARI	IV					49.4Hz		
148	SEONI		33	33KV DEONAGAR	IV					49.4Hz		
149	SEONI		33	33KV GOTEGAON	IV					49.4Hz		
150	SEONI		33	33KV RAMKHIRIYA	IV					49.4Hz		
151	SEONI		33	33KV BACHAI	IV					49.4Hz		
152	SEONI		33	33KV JOBA	IV					49.4Hz		
153	SEONI		33	33KV BASANPANI	IV					49.4Hz		
154	SEONI		33	33KV MAHKOUSAL	VII A					48.6Hz		
155	SEONI	CHICHLI 220	33	33KV KANHARGAON	IV		JVS	ARF014	12-1890/2		49.4Hz	
156	SEONI		33	33KV RAIPUR	IV					49.4Hz		
157	SEONI		33	33KV TENDUKHEDA	IV					49.4Hz		
158	SEONI		33	33KV CHICHLI	III					49.4Hz		
159	SEONI		33	33KV BARHABADA	IV					49.4Hz		
160	SEONI		33	33KV IMLIYA NO -1	IV					49.4Hz		
161	SEONI		33	33KV IMLIYA NO -2(SPARE)	IV					49.4Hz		
162	SEONI	NARSINGHPUR 132	33	33KV KARELI	VII		AVANA	NPH222	AP144683		49.4Hz	
163	SEONI		33	33KV KARAPGAON	III					49.4Hz		
164	SEONI		33	33KV UMARIYA	IV					49.4Hz		
165	SEONI		33	33KV THEM	IV					49.4Hz		
166	SEONI		33	33KV GOTEGAON	IV					49.4Hz		
167	SEONI		33	33KV JAIL ROAD	VII					49.4Hz		
168	SEONI		33	33KV 5MVA X-MER 1	VII					49.4Hz		
169	SEONI		33	33KV 5MVA X-MER 2	VII					49.4Hz		
170	SEONI		33	33KV NAGARPALIKA	VIII A					49.4Hz		
171	SEONI	GADAWARA 132	33	33KV ATHAISHA	III		HBB	P8A2Y	IB-8-40-15983		49.4Hz	
172	SEONI		33	33KV SAIKHEDA	III					49.4Hz		
173	SEONI		33	33KV NANDNER	III					49.4Hz		
174	SEONI		33	33KV GADARWARA	VI A					49.4Hz		
175	SEONI		33	33KV SHANI MANDIR	VI A					49.4Hz		
176	SEONI		33	33KV BLA	IV					49.4Hz		
177	SEONI		33	33KV SIHORA	III					49.4Hz		
178	SEONI		33	33KV KODIA	III					49.4Hz		
179	SEONI		33	33KV KALYANPUR	IV					49.4Hz		
180	SEONI		33	33KV BAMHORI	IV					49.4Hz		
181	SEONI		33	33KV KAMTI	IV					49.4Hz		
182	SEONI	PALOHA BADA 132	33	33KV PALOHA	IV		DOUBLE STAGE MAKE JVS	JRF 014-2	18-0194/1		49.4Hz	
183	SEONI		33	33KV MADGULA	IV					49.4Hz		
184	SEONI		33	33KV BILTHARI	IV					49.4Hz		
185	SEONI		33	33KV SADUMER	IV					49.4Hz		
186	SEONI		33	33KV NSPL	VII A		DOUBLE STAGE MAKE JVS	JRF 014-2	16-0489/71		49.4Hz	
187	SEONI	PONDAR 132	33	33KV SALICHOUKA	III					49.4Hz		
188	SEONI		33	33KV BELKHEDI	IV					49.4Hz		
189	SEONI		33	33KV SANDOOK	IV					49.4Hz		
190	SEONI		33	33KV BEETLI-I	III					49.4Hz		
191	SEONI		33	33KV BEETLI-II	II					49.4Hz		
192	Minutes of 83rd MP OCCM		33	33KV BEETLI-III	IV		35				49.4Hz	

193	SEONI	BARMAN 132	33	33KV DHOBI-I	IV				49.4Hz		
194	SEONI		33	33KV DHOBI-II	III				49.4Hz		
195	SEONI		33	33KV BARMAN	I				49.4Hz		
196	SEONI		33	33KV KASHI KHERI	I				49.4Hz		
197	SEONI		33	33KV PALOHA	III				49.4Hz		
198	SEONI	TENDUKHEDA 132	33	33KV TENDUKHEDA	VI A				49.4Hz		
199	SEONI		33	33KV SUNEHTI	IV				49.4Hz		
200	SEONI		33	33KV MADANPUR	IV				49.4Hz		
201	SEONI	KARAPGAON 132	33	33KV KARAPGAON	III				49.4Hz		
202	SEONI		33	33KV KARELI	IV				49.4Hz		
203	SEONI		33	33KV AAMGAON	III				49.4Hz		
204	SEONI		33	33KV BANSADEHI	III				49.4Hz		
205	SEONI	DEONAGAR 132	33	33KV BAREHTA	IV				49.4Hz		
206	SEONI		33	33KV DUDWARA	IV				49.4Hz		
207	SEONI		33	33KV DEONAGAR	IV				49.4Hz		
208	SEONI	KARAKBEL 132	33	33KV JHAMAR	IV				49.4Hz		
209	SEONI		33	33KV GUNDRAI	IV				49.4Hz		
210	SEONI		33	33KV TINDNI	IV				49.4Hz		
211	SEONI		33	33KV THEMI	IV				49.4Hz		
1	SATNA	SATNA 220	33	33KV JAITWARA	5	EE	MFVUM	92114757049	04.03.99	48.6 HZ	0.00 TO 24.00
	SATNA	SATNA 220	33	33KV BHILAI J.P	7A	--do--	--do--	--do--	--do--	48.6 HZ	--do--
	SATNA	SATNA 220	33	33KV NAGOD	6A	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	SATNA 220	33	33KV UNCHEHARA	5	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	SATNA 220	33	33KV RAIGAON	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	SATNA 220	33	33KV PGCL	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	SATNA 220	33	33KV SITPUR	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	SATNA 220	33	33KV PANNA (SINGHPUR)	2	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	SATNA 220	132	132KV PANNA	-	ABB	FCX103B/01	MO3-0073	20.09.06	49.9 HZ	--do--
	SATNA	SATNA 220	132	132KV MAJHGAWAN	-	--do--	--do--	--do--	--do--	49.9 HZ	--do--
	SATNA	SATNA 220	132	132KV PAWAI	-	--do--	--do--	--do--	--do--	49.9 HZ	--do--
2	SATNA	KOTAR 220	33	33KV BIRISINGHPUR	6	JVS	MFM-02	1207/3287	12.01.11	49.2 HZ	0.00 TO 24.00
	SATNA	KOTAR 220	33	33KV KOTAR	5	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	KOTAR 220	33	33KV DAGDEEHA	5	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	KOTAR 220	33	33KV TIKURI	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	KOTAR 220	33	33KV SUKWAH	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	KOTAR 220	33	33KV SEMARIYA	6	--do--	--do--	--do--	--do--	49.2 HZ	--do--
3	SATNA	MAIHAR 220	33	33KV RELIANCE	7A	JVS	JRF014	F623972	16.10.07	48.6 HZ	0.00 TO 24.00
	SATNA	MAIHAR 220	33	33KV AMARPATAN	6A	JVS	JRF014	F623982	16.10.07	49.2 HZ	--do--
	SATNA	MAIHAR 220	33	33KV MAIHAR TOWN	6A	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	MAIHAR 220	33	33KV UNCHEHARA	6	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	MAIHAR 220	33	33KV AMADARA	2	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	MAIHAR 220	33	33KV BADERA	2	--do--	--do--	--do--	--do--	49.2 HZ	--do--
4	SATNA	MAIHAR 220	132	132KV AMARPATAN	-	ABB	-	MO7-0240	24.08.07	49.9 HZ	--do--
	SATNA	SATNA 132	33	33KV KAMAL SPONGE No.I	7A	JVS	JRF014	F33891	17.01.07	48.6 HZ	0.00 TO 24.00
	SATNA	SATNA 132	33	33KV KAMAL SPONGE No.II	7A	--do--	--do--	--do--	--do--	48.6 HZ	--do--
	SATNA	SATNA 132	33	33KV RAILWAY	7A	--do--	--do--	--do--	--do--	48.6 HZ	--do--
	SATNA	SATNA 132	33	33KV UCL	7A	--do--	--do--	--do--	--do--	48.6 HZ	--do--
	SATNA	SATNA 132	33	33KV KARIGOHI	7	--do--	--do--	--do--	--do--	48.6 HZ	--do--
5	SATNA	SATNA 132	33	33KV REWA	7	--do--	--do--	--do--	--do--	48.6 HZ	--do--
	SATNA	SATNA 132	33	33KV KOLGAWAN	7	--do--	--do--	--do--	--do--	48.6 HZ	--do--
	SATNA	SATNA 132	33	33KV PREMNAGAR	7	--do--	--do--	--do--	--do--	48.6 HZ	--do--
	SATNA	PANNA 132	33	33KV CHHATARPUR	7	JVS	JRF014	F0815278	06.11.13	49.2 HZ	0.00 TO 24.00
	SATNA	PANNA 132	33	33KV PAWAI	6	--do--	--do--	--do--	--do--	49.2 HZ	--do--
6	SATNA	PANNA 132	33	33KV DEVENDR NAGAR	6	--do--	--do--	--do--	--do--	--do--	--do--
	SATNA	PANNA 132	33	33KV AJAYGARH	5	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	AMARPATAN 132	33	33KV AMARPATAN	6A	JVS	JFR014	F33881	27.05.05	49.2 HZ	0.00 TO 24.00
	SATNA	AMARPATAN 132	33	33KV RAMNAGAR	6A	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	AMARPATAN 132	33	33KV NADAN	3	--do--	--do--	--do--	--do--	49.2 HZ	--do--
7	SATNA	AMARPATAN 132	33	33KV SATNA	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	AMARPATAN 132	33	33KV KATHAHA	3	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	AMARPATAN 132	33	33KV TALA	3	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	MAJHGAWAN 132	33	33KV CHITRAKOOT	7A	JVS	JRF014	10-10-4205/30	19.02.11	48.6 HZ	0.00 TO 24.00
	SATNA	MAJHGAWAN 132	33	33KV KOTHI	5	--do--	--do--	--do--	--do--	49.2 HZ	--do--
7	SATNA	MAJHGAWAN 132	33	33KV MAJHGAWAN	5	--do--	--do--	--do--	--do--	49.2 HZ	--do--
	SATNA	MAJHGAWAN 132	33	33KV BAROUNDHA	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--
Minutes of 83rd MRP OCCM			33	33KV PAWAI	6	JVS	JRF014	10-10-4205/29	18.02.11	49.2 HZ	0.00 TO 24.00

8	SATNA	PAWAI 132	33	33KV MOHANDRA	6	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	PAWAI 132	33	33KV AMANGANJ	6	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	PAWAI 132	33	33KV GOUNORE	6	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
9	SATNA	NAGOD 132	33	33KV RAHIKWARA	6A	JVS	JRF014	09-3761/9	28.09.12	49.2 HZ	0.00 TO 24.00		
	SATNA	NAGOD 132	33	33KV NAGOD	6	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	NAGOD 132	33	33KV SINGHPUR	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	NAGOD 132	33	33KV JASO	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
10	SATNA	SATNA-II 132	33	33KV TRANSPORT NAGER	4	JVS	JRF014	17-1513/1	--do--	49.2 HZ	--do--		
	SATNA	SATNA-II 132	33	33KV TIKURIYA TOLA	4	JVS	JRF014	17-1513/1	--do--	49.2 HZ	--do--		
11	SATNA	UNCHEHARA 132	33	33KV UNCHEHARA FEEDER	4	JVS	JRF014-2	14-2078/10	20.07.2020	49.2 HZ	--do--		
	SATNA	UNCHEHARA 132	33	33KV JEETNAGAR FEEDER	4	JVS	JRF014-2	14-2078/10	20.07.2020	49.2 HZ	--do--		
12	SATNA	RAMPUR 132	33	33KV RAMPUR BAGHELAN	6	JVS	JRF014	F33889	26.05.05	49.2 HZ	0.00 TO 24.00		
	SATNA	RAMPUR 132	33	33KV KRISHNAGARH	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	RAMPUR 132	33	33KV MADHAVGARH	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	RAMPUR 132	33	33KV CHORMARI	4	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	RAMPUR 132	33	33KV BELA	2	--do--	--do--	--do--	--do--	49.2 HZ	--do--		
	SATNA	RAMPUR 132	33	33KV JP AGRI	7A	--do--	--do--	--do--	01/12/2011	48.6 HZ	--do--		
	SATNA	RAMPUR 132	33	33KV GORAIYA	2	--do--	--do--	--do--	19/10/2013	49.2 HZ	--do--		
	SATNA	RAMPUR 132	33	33KV SAJJANPUR	4	--do--	--do--	--do--	17/12/2010	49.2 HZ	--do--		
	SATNA	RAMPUR 132	33	33KV CHHIBORA	4	--do--	--do--	--do--	02/03/2004	49.2 HZ	--do--		
	SATNA	RAMPUR 132	132	132KV X-MER -(ABB)	-	ABB	FCX103B/01	M09-0306	03.05.13	49.9 HZ	--do--		
	SATNA	RAMPUR 132	132	132KV X-MER -(BBL)	-	--do--	--do--	--do--	49.9 HZ	--do--			
13	SATNA	SILPARA 220	33	33KV MANIKWAR, GURH	4, 5	Ashida	AVO-FMR	031FR-021	10-Oct-04	49.0	0.00 TO 24.00		
	SATNA	SILPARA 220	33	33KV SGMH, BANSAGER, AND RATAHRA	8	JVS Electronics	JRF-014	F70941	24-Oct-07	48.6	0.00 TO 24.00		
	SATNA	SILPARA 220	132	132KV SIDHI&MANGAWAN	-	ABB	FOX-103b/01	M03-0081	14-Feb-05	49.9 HZ	0.4 HZ/S	0.00 TO 24.00	
14	SATNA	SIRMOUR 220	33	33KV UMARI,DEWAS,PATEHRA AND SIRMOUR	4,5	JVS Electronics	JRF-014	14-040531	19-Oct-15	49.0	0.00 TO 24.00		
15	SATNA	REWA 132	33	33KV SEMARIYA,33KV BANKUIYA & 33KV MOHRA	3,5A,5	EE	MF-VUM	921126168001	08-Nov-99	49.0	0.00 TO 24.00		
	SATNA	REWA 132	33	33KV SIRMOUR	5					49.0	0.00 TO 24.00		
	SATNA	REWA 132	33	33KV RWW, ENGI.COLLEGE& MARTAND SCHOOL,AMIRTI,AIR	8					48.6	0.00 TO 24.00		
16	SATNA	MANGAWAN 132	33	33KV MANGAWAN, MAUGANJ & GANGAO	5A,6A,6	JVS Electronics	JRF-014	F33890	17-Feb-05	49.0	0.00 TO 24.00		
	SATNA	MANGAWAN 132	132	132KV MANGAWAN- KATRA	-	ABB	FOX-103b/01	M09-0302	14-Nov-09	49.9 HZ	0.4 HZ/S	0.00 TO 24.00	
17	SATNA	KATRA 132	33	33KV TEOTHAR, CHAKGHAT, NAIGADHI,KATRA,JAWA	6,4A,4,4	JVS Electronics	JRF-014	F0815261	19-May-10	49.0	0.00 TO 24.00		
18	SATNA	MAUGANJ 132	33	33KV HANUMAN, MAUGANJ,BAHERADABAR	6,5,3	JVS Electronics	JRF-014	F0815265	11-May-10	49.0	0.00 TO 24.00		
19	SATNA	REWA -II 132	33	33KV SIRMOUR, MOHRA	5,5	JVS Electronics	JRF-014	11-5261/10	18-Oct-13	49	0.00 TO 24.00		
	SATNA	REWA -II 132	33	33KV RAIPUR, RATAHTA,	8,8		JRF-014	11-5261/10	18-Oct-13	48.6	0.00 TO 24.00		
20	SATNA	RAMPUR NAIKIN 132	33	33KV RAMPUR NAIKIN	6	JVS Electronics	JRF-014	-	26-Sep-14	49.0	0.00 TO 24.00		
21	SATNA	ATRAILA 132	33	33KV ATRAILA, RAMBAG	-	JVS Electronics	JRF-014	19-1582/3	26-Sep-21	49.2	0.00 TO 24.00		
22	SATNA	SIDHI 132	33	33KV PATPARA	5	EE	MF-VUM	92114737038	06-Feb-93	49.2	0.00 TO 24.00		
	SATNA	SIDHI 132	33	33KV CITY-I&33KV CITY-II	7	EE	MF-VUM	92114737039	06-Feb-93	48.6	0.00 TO 24.00		
	SATNA	SIDHI 132	33	33KV REWA	6A	EE	MF-VUM	92114737039	06-Feb-93	49.2	0.00 TO 24.00		
23	SATNA	SIDHI 220	33	33KV SEMSRIYA,MADWAS	4,5A	JVS Electronics	JRF-014	F70932	15-Dec-08	49.2	0.00 TO 24.00		
	SATNA	SIDHI 220	33	33KV JP -I,JP -II	7A		JRF-014	F70932	15-Dec-08	48.6	0.00 TO 24.00		
	SATNA	SIDHI 220	33	33KV SEHAWAL	5A		JRF-014	F70932	15-Dec-08	49.2	0.00 TO 24.00		
	SATNA	SIDHI 220	132	132KV SIDHI&MAUGANJ	-	ABB	FOX-103b/01	M09-0313	29-May-09	49.9 HZ	0.4 HZ/S	0.00 TO 24.00	

	SATNA	MORWA 132	33	33KV SIDHI,BAGAIYA,	5A,4	Ashida	AVO-FMR	99LFR004	09-Oct-01	49.2	0.00 TO 24.00							
24	SATNA	MORWA 132	33	33KV REC	2	Ashida	AVO-FMR	99LFR004	09-Oct-01	49.2	0.00 TO 24.00							
	SATNA	MORWA 132	11	11KV GORBI BAZER	2	Ashida	AVO-FMR	99LFR001	09-Oct-01	49.2	0.00 TO 24.00							
25	SATNA	WAIDHAN 132	33	33KV WAIDHAN	7	JVS Electronics	JRF-014	10-10-4205/24	03-Nov-13	48.6	0.00 TO 24.00							
	SATNA	WAIDHAN 132	33	33KV PASONA	4		JRF-014	10-10-4205/24	03-Nov-13	49.2	0.00 TO 24.00							
	SATNA	WAIDHAN 132	33	33KV NIGHI & DUDHICHUA	7A	-	-	-	-	-	-							
26	SATNA	RAJMILAN 132	33	33KV MADA, KHUTAR, RAJMILAN	4,4	JVS Electronics	JRF-014	10-10-4205/23	12-Oct-13	49.0	0.00 TO 24.00							
27	SATNA	DEOSAR 132	33	33KV DEOSAR, BEHRI, CHITRANGI	4	JVS Electronics	JRF-014	11-5261/14	12-Oct-13	49.0	-							
28	SATNA	DONGRITAL 132	33	33KV KHANUA KHAS	4	AVANA	NPH222	AP145467	01-Dec-15	49.0	0.00 TO 24.00							
29	SATNA	MADWAS 132	33	33KV MADWAS	-	JVS Electronics	JRF-014	18-1397/11	07-Jul-21	49.2	0.00 TO 24.00							
30	SATNA	SHIHAWAL 132	33	33KV AMILIYA & BICHHI	4	JVS Electronics	JRF-014	19-1582/09	28.03.2022	49.2	0.00 TO 24.00							
1	BINA 400	BINA 220	33KV	33KV AGASOD	III	JVS	JRF 014	F0815267	22.12.2013	48.8 Hz	In circuit							
2	BINA 400	BINA 220	33KV	33KV SATORIYA	IV													
3	BINA 400	BINA 220	33KV	33KV MANDI BAMORA	III													
4	BINA 400	BINA 220	33KV	33KV BINA,	VII													
5	BINA 400	BINA 220	33KV	33KV KHIMLASA	IV													
6	BINA 400	BINA 220	33KV	33KV PGCLIL	VII-A													
7	BINA 400	BINA 220	33KV	33KV BORL	IV													
8	BINA 400	BINA 220	33KV	33KV WCR	VII-A													
9	BINA 400	BINA 220	33KV	33KV KOHA	IV													
10	BINA 400	BINA 220	33KV	33KV WATER WORKS	VII-A													
11	BINA 400	KHURAI 132	33KV	33KV KOHA	IV	JVS	JRF 014	12-4480/1	31.03.2014	48.8 Hz	In circuit							
12	BINA 400	KHURAI 132	33KV	33KV BARODIA	III													
13	BINA 400	KHURAI 132	33KV	33KV KHURAI TOWN	VI-A													
14	BINA 400	KHURAI 132	33KV	33KV BERIDHANORA	IV													
15	BINA 400	MUNGAWALI 132	33KV	33KV BAHADURPUR	VI	JVS	JRF 014	14-2078/6	05.01.2018	48.8 Hz	In circuit							
16	BINA 400	MUNGAWALI 132	33KV	33KV PIPRAI	V													
17	BINA 400	MUNGAWALI 132	33KV	33KV MUNGAWALI	II													
18	BINA 400	MUNGAWALI 132	33KV	33KV SEHRAI	I													
19	BINA 400	KHIMLASA 132	33KV	33KV KHIMLASA	I to IV	AVANA	NPH 222	18.12.2021	48.8 Hz	In circuit								
20	BINA 400	KHIMLASA 132	33KV	33KV RAJVANS														
21	BINA 400	KHIMLASA 132	33KV	33KV BHANGARH														
22	BINA 400	KHIMLASA 132	33KV	33KV MALTHONE														
23	BINA 400	RAHATGARH 132	33KV	33KV RAHATGARH	VI	JVS	JRF 014	13-1855/12	29.09.2017	48.8 Hz	In circuit							
24	BINA 400	RAHATGARH 132	33KV	33KV MASURYAI														
25	BINA 400	RAHATGARH 132	33KV	33KV SIHORA	I to IV													
26	BINA 400	RAHATGARH 132	33KV	33KV JHILA														
27	BINA 400	CHANDERI 132	33KV	33KV RAJGHAT	VII	JVS	JRF 014	13-1855/25	02.12.2009	48.8 Hz	In circuit							
28	BINA 400	CHANDERI 132	33KV	33KV CHANDERI	VII													
29	BINA 400	CHANDERI 132	33KV	33KV SEHRAI	I to IV													
30	BINA 400	CHANDERI 132	33KV	33KV BANMORE														
31	BINA 400	VIDISHA 220	33KV	33KV AHEMADPUR ROAD	VII	JVS	JRF014	16-0370/52	30.07.2017	48.80Hz.								
32	BINA 400	VIDISHA 220	33KV	33KV VIDISHA	VII					48.80Hz.								
33	BINA 400	VIDISHA 220	33KV	33KV BAN	VI					49.00 Hz.								
34	Minutes of 83rd MPOCCM	VIDISHA 220	33KV	33KV MANORA	VI					49.00 Hz.								

35	BINA 400	VIDISHA 220	33KV	33KV DHOLKHEDI	IV				49.00 Hz.		In circuit
36	BINA 400	VIDISHA 220	33KV	33KV SANCHI	VII				48.80Hz.		
37	BINA 400	VIDISHA 220	33KV	33KV MENDKI	VI				49.00 Hz.		
38	BINA 400	VIDISHA 220	33KV	33KV HANSUA	I				49.00 Hz.		
39	BINA 400	VIDISHA 220	33KV	33KV KARARIYA	VI				49.00 Hz.		
40	BINA 400	VIDISHA 220	33KV	33KV HANSUA II	II				49.00 Hz.		
41	BINA 400	GANJBASODA 220	33KV	33KV JAIL	I				49.0 Hz.		In circuit
42	BINA 400	GANJBASODA 220	33KV	33KV GANJBASODA	VI				49.0 Hz.		
43	BINA 400	GANJBASODA 220	33KV	33KV SOMWARA	VI				49.0 Hz.		
44	BINA 400	GANJBASODA 220	33KV	33KV MASOODPUR	VI				49.0 Hz.		
45	BINA 400	GANJBASODA 220	33KV	33KV UDAIPUR	III				49.0 Hz.		
46	BINA 400	GANJBASODA 220	33KV	33KV BANWA JAGIR	V				49.0 Hz.		
47	BINA 400	GANJBASODA 220	33KV	33KV KANJANA PATHAR	IX				48.80 Hz.		
48	BINA 400	BERASIA 132	33KV	33KV SAPAUA	IV				49.0 Hz.		In circuit
49	BINA 400	BERASIA 132	33KV	33KV BERASIA	VIA				49.0 Hz.		
50	BINA 400	BERASIA 132	33KV	33KV RATUA	I				49.0 Hz.		
51	BINA 400	BERASIA 132	33KV	33KV KULHORE	IV				49.0 Hz.		
52	BINA 400	BERASIA 132	33KV	33KV SONKATCHH	II				49.0 Hz.		
53	BINA 400	SIRONJ 132	33KV	33KV SIRONJ	VI				49.0 Hz.		In circuit
54	BINA 400	SIRONJ 132	33KV	33KV DEVPUR					49.0 Hz.		
55	BINA 400	SIRONJ 132	33KV	33KV CHIHANPU	I				49.0 Hz.		
56	BINA 400	SIRONJ 132	33KV	33KV SHAHPUR	II				49.0 Hz.		
57	BINA 400	SIRONJ 132	33KV	33KV BHORIYA	III				49.0 Hz.		
58	BINA 400	SIRONJ 132	33KV	33KV UHAR	II				49.0 Hz.		
59	BINA 400	SIRONJ 132	33KV	33KV BHAIRAO BABA	VIA				49.0 Hz.		
60	BINA 400	SHAMSHABAD 132	33KV	33KV TINSHIYAI	I				49.0 Hz.		In circuit
61	BINA 400	SHAMSHABAD 132	33KV	33KV GOLNA	II				49.0 Hz.		
62	BINA 400	SHAMSHABAD 132	33KV	33KV SHAMSHABAD	V				49.0 Hz.		
63	BINA 400	SHAMSHABAD 132	33KV	33KV SUHAYA	I				49.0 Hz.		
64	BINA 400	SHAMSHABAD 132	33KV	33KV JAL NIGAM					49.0 Hz.		
65	BINA 400	RUNHA 132	33KV	33KV RUNAHA	IV				49.00 Hz.		In circuit
66	BINA 400	RUNHA 132	33KV	33KV RAMGADHA	IV				49.00 Hz.		
67	BINA 400	RUNHA 132	33KV	33KV NAJRABAD	IV				49.00 Hz.		
68	BINA 400	RUNHA 132	33KV	33KV SAWANSI	IV				49.00 Hz.		
69	BINA 400	RUNHA 132	33KV	33KV NAYASAMANAD	IV				49.00 Hz.		
70	BINA 400	SAHARWASA 132	33KV	33KV KULHORE (UDAIPUR)	III				49.0 Hz.		In circuit
71	BINA 400	SAHARWASA 132	33KV	33KV SAHARWASA	IV				49.0 Hz.		
72	BINA 400	SAHARWASA 132	33KV	33KV KURWAI	VI				49.0 Hz.		
73	BINA 400	SAHARWASA 132	33KV	33KV PATHARI	V				49.0 Hz.		
74	BINA 400	SAHARWASA 132	33KV	33KV TYONDA	VIA	JVS	JRF014	19-2473/1	09.12.2019	49.0 Hz.	
75	BINA 400	LATERI 132	33KV	33KV LATERI	VI-A	AVANA	NPH222	AP151563	14.08.2015	49.00 Hz.	In circuit
76	BINA 400	LATERI 132	33KV	33KV ALIGHAR KOTRA	II					49.00 Hz.	
77	BINA 400	LATERI 132	33KV	33KV MADANKHEDI	I					49.00 Hz.	
78	BINA 400	LATERI 132	33KV	33KV ANANTPUR	IV					49.00 Hz.	
79	BINA 400	SALAMATPUR 132	33KV	33KV DEWANGANJ	IV	JVS ,	JRF014	16-0489/32	01.12.2017	49.00 Hz.	In circuit
80	BINA 400	SALAMATPUR 132	33KV	33KV AAMKHEDA	VI-A					49.00 Hz.	
81	BINA 400	SALAMATPUR 132	33KV	33KV SALAMATPUR INDUSTRIAL	IX					49.00 Hz.	
82	BINA 400	SALAMATPUR 132	33KV	33KV BERKHEDI	IV					49.00 Hz.	
83	BINA 400	SALAMATPUR 132	33KV	33KV GOVT.M.C.	IX					48.80 Hz.	

84	BINA 400	GYARASPUR 132	33KV	33KV GYARASPUR	VI-A	MICOM ALSTOM T	P141812A2M0520 T	34962388/12/19	31.12.2020	49.00 Hz.		In circuit
85	BINA 400	GYARASPUR 132	33KV	33KV GHOSUA	I					49.00 Hz.		
86	BINA 400	GYARASPUR 132	33KV	33KV NEW MANORA	I-IV					49.00 Hz.		
87	BINA 400	GYARASPUR 132	33KV	33KV SEHOD	I-IV					49.00 Hz.		
1	GWALIOR	MALANPUR 220	132KV	132KV Morar-Ist	-	ABB	FCX103B/10	M07-0227	10.09.15	-	Inst.	DF/DT Relay
2	GWALIOR	MALANPUR 220	33KV	33KV Feeder No. 1	IV	JVS	JRF014	16-0283/27	18.01.17	49.0	Inst.	
3	GWALIOR	MALANPUR 220	33KV	33KV Feeder No. 4	IV	JVS	JRF014	16-0283/21	21.10.16	49.0	Inst.	
4	GWALIOR	MALANPUR 220	33KV	33KV Feeder No. 2	-	-	-	-	-	-	-	Feeder No.2 to 3 & feeder No. 5 to 13 are Industrial feeder exempted
5	GWALIOR	MALANPUR 220	33KV	33KV Feeder No. 3	-	-	-	-	-	-	-	
6	GWALIOR	MALANPUR 220	33KV	33KV Feeder No.5	-	-	-	-	-	-	-	
7	GWALIOR	MALANPUR 220	33KV	33KV Feeder No.6	-	-	-	-	-	-	-	
8	GWALIOR	MALANPUR 220	33KV	33KV Feeder No.7	-	-	-	-	-	-	-	
9	GWALIOR	MALANPUR 220	33KV	33KV Feeder No.8	-	-	-	-	-	-	-	
10	GWALIOR	MALANPUR 220	33KV	33KV Feeder No.9	-	-	-	-	-	-	-	
11	GWALIOR	MALANPUR 220	33KV	33KV Feeder No.10	-	-	-	-	-	-	-	
12	GWALIOR	MALANPUR 220	33KV	33KV Feeder No.11 (Pipersewa)	-	-	-	-	-	-	-	
13	GWALIOR	MALANPUR 220	33KV	33KV Feeder No. 12 (SRF)	-	-	-	-	-	-	-	
14	GWALIOR	MALANPUR 220	33KV	33KV Feeder No. 13 (MONTEZ)	-	-	-	-	-	-	-	
15	GWALIOR	GWALIOR-II 220	33KV	33KV Bilaua	IV	JVS	JRF 014	16-0370/12	06.05.19	49.0	Inst.	
16	GWALIOR	GWALIOR-II 220	33KV	33KV Indl. crusher market	XIII	JVS				48.8	Inst.	
17	GWALIOR	GWALIOR-II 220	33KV	33KV City -I	VIII	JVS				48.8	Inst.	
18	GWALIOR	GWALIOR-II 220	33KV	33KV City -II	VIII	JVS				48.8	Inst.	
19	GWALIOR	GWALIOR-II 220	33KV	33KV DIG Nayagaon	VII A	JVS				48.8	Inst.	
20	GWALIOR	GWALIOR-II 220	33KV	33KV Plastic Park	VII A	JVS				48.8	Inst.	
21	GWALIOR	MOTIZHEEL 132	33KV	33KV Stone Park	VII A	JVS	JRF 014	16-0283/9	06.02.17	48.8	Inst.	
22	GWALIOR	MOTIZHEEL 132	33KV	33KV J.C.Mill	VIII					48.8	Inst.	
23	GWALIOR	MOTIZHEEL 132	33KV	33KV Carmel Convent	VIII					48.8	Inst.	
24	GWALIOR	MOTIZHEEL 132	33KV	33KV Laxmiganj	VIII					48.8	Inst.	
25	GWALIOR	MOTIZHEEL 132	33KV	33KV Gol Pahadiya	VIII					48.8	Inst.	
26	GWALIOR	MOTIZHEEL 132	33KV	33KV Morar	VIII					48.8	Inst.	
27	GWALIOR	MOTIZHEEL 132	33KV	33KV Ladchedi	VIII					48.8	Inst.	
28	GWALIOR	MOTIZHEEL 132	33KV	33KV Water Works.	VIII					48.8	Inst.	
29	GWALIOR	MOTIZHEEL 132	33KV	33KV Vinay Nagar	VIII					48.8	Inst.	
30	GWALIOR	MOTIZHEEL 132	33KV	33KV Transport Naqar	VIII					48.8	Inst.	
31	GWALIOR	MOHNA 132	33KV	33KV Mohna	I	AVANA	NPH222	AP135527	05.02.14	49.0	Inst.	
32	GWALIOR	MOHNA 132	33KV	33KV Ghatigoan	II					49.0	Inst.	
33	GWALIOR	MOHNA 132	33KV	33KV Sehshram	II					49.4	Inst.	
34	GWALIOR	MOHNA 132	33KV	33KV Shubhaspura	II					49.4	Inst.	
35	GWALIOR	HASTINAPUR 132	33KV	33KV Hastinapur	IV	JVS	JRF 014	14-0969/4	13.01.16	49.0	Inst.	
36	GWALIOR	HASTINAPUR 132	33KV	33KV Badera	IV					49.0	Inst.	
37	GWALIOR	HASTINAPUR 132	33KV	33KV Dabka	IV					49.0	Inst.	
38	GWALIOR	HASTINAPUR 132	33KV	33KV Sukleyari	IV					49.0	Inst.	
39	GWALIOR	MEHGAON 220	132KV	132KV BHIND		ABB	FCX-103B/01	MO3-0082	15.07.2018	48.4	Inst.	DF/DT RELAY
40	GWALIOR	MEHGAON 220	33KV	33KV BHIND	VII					48.8	Inst.	
41	GWALIOR	MEHGAON 220	33KV	33KV GORMI	V					49	Inst.	
42	GWALIOR	MEHGAON 220	33KV	33KV GOHAD	VI-A					49	Inst.	
43	GWALIOR	MEHGAON 220	33KV	33KV MOW	III					49	Inst.	
44	GWALIOR	MEHGAON 220	33KV	33KV PIDORA	IV					49	Inst.	
45	GWALIOR	MEHGAON 220	33KV	33KV MEHGAON	V					49	Inst.	
46	GWALIOR	MEHGAON 220	33KV	33KV GATA	II					49	Inst.	
47	GWALIOR	MEHGAON 220	33KV	33KV GATA-1	II					49	Inst.	
48	GWALIOR	MEHGAON 220	33KV	33KV GINGARKHII	III					49	Inst.	
49	GWALIOR	BHIND 132	33KV	33KV UMARI	II	JVS	JRF014	16-0283/70	11.09.17	49	Inst.	
50	GWALIOR	BHIND 132	33KV	33KV B. T. I.(BHIND -I)	VII					48.8	Inst.	
51	GWALIOR	BHIND 132	33KV	33KV I. T. I. (BHIND -II)	VII					48.8	Inst.	
52	GWALIOR	BHIND 132	33KV	33KV MANSOORI	V					49	Inst.	
53	GWALIOR	BHIND 132	33KV	33KV ROOR	II					49	Inst.	
54	GWALIOR	BHIND 132	33KV	33KV ETAWA ROAD	VII					48.8	Inst.	
55	GWALIOR	BHIND 132	33KV	33KV I T I RURAL	IV					49	Inst.	
56	GWALIOR	BHIND 132	33KV	33KV PRATAP PURA	IV					49	Inst.	
57	GWALIOR	BHIND 132	33KV	33KV PHOOF	II					49	Inst.	
58	GWALIOR	BHIND 132	33KV	33KV AKODA	III					49	Inst.	
59	GWALIOR	BHIND 132	33KV	33KV BHAROLI ROAD(I P S COLLEGE)	VI	40				49	Inst.	
60	GWALIOR	BHIND 132	33KV	33KV Industrial	IX					48.8	Inst.	EXEMPTED

61	GWALIOR	RON 132	33KV	33KV MIHONA	I	JVS	JRF014	10-10-4205/15		49	Inst.	
62	GWALIOR	RON 132	33KV	33KV RON	VI					49	Inst.	
63	GWALIOR	RON 132	33KV	33KV NAYAGAON	III					49	Inst.	
64	GWALIOR	RON 132	33KV	33KV MACHHAND	II					49	Inst.	
65	GWALIOR	RON 132	33KV	33KV GORAI	II					49	Inst.	
66	GWALIOR	LAHAR 132	33KV	33KV LAHAR	VI-A					49	Inst.	
67	GWALIOR	LAHAR 132	33KV	33KV DABOH	II	AVANA	NPH22	AP135513	DOC 25.11.17	49	Inst.	
68	GWALIOR	LAHAR 132	33KV	33KV MADORI	III					49	Inst.	
69	GWALIOR	LAHAR 132	33KV	33KV SHYAMPURA	VI					49	Inst.	
70	GWALIOR	LAHAR 132	33KV	33KV PROGRESSIVE SCHOOL								LINE NOT CONN. BY DISCOM
71	GWALIOR	GOHAD 132	33KV	33KV FEEDER SERVA	III	JVS	JRF014	14-2078/2	DOC 08.09.17	49	Inst.	
72	GWALIOR	GOHAD 132	33KV	33KV GOHAD CITY	VI					49	Inst.	
73	GWALIOR	GOHAD 132	33KV	33KV ANDORI	I					49	Inst.	
74	GWALIOR	GOHAD 132	33KV	33KV CHITORA	IV					49	Inst.	
75	GWALIOR	PRATAPPURA 132	33KV	33KV ATER	VI	JVS	JRF014	14-2078/7	DOC 22.10.16	49	Inst.	
76	GWALIOR	PRATAPPURA 132	33KV	33KV PRATAPPURA	VI					49	Inst.	
77	GWALIOR	PRATAPPURA 132	33KV	33KV SURUPURA	II					49	Inst.	
78	GWALIOR	PRATAPPURA 132	33KV	33KV CHAOMO	II					49	Inst.	
79	GWALIOR	PRATAPPURA 132	33KV	33KV GORMI	III					49	Inst.	
80	GWALIOR	MAHALGAON 220	33KV	33KV Monopole-II	VIII	JVS	JRF 014	16-0283/25	14.02.17	48.8	Inst.	AUF Relay setting has been revised from 48.6 to 48.8, 48.8 to 49.0, 49.2 to 49.4 as per CE (T&C) Jabalpur No. 07 Dt. 01.04.19 of All EHV Substations
81	GWALIOR	MAHALGAON 220	33KV	33KV Bandholi	IV	JVS	JRF 014	16-0283/22	22.02.17	49.0	Inst.	
82	GWALIOR	MAHALGAON 220	33KV	33KV Lakhnoti	III	JVS	JRF 014	16-0283/25	14.02.17	49.0	Inst.	
83	GWALIOR	MAHALGAON 220	33KV	33KV Monopole-I	VIIA	JVS	JRF 014	16-0283/22	22.02.17	48.8	Inst.	
84	GWALIOR	MAHALGAON 220	33KV	33KV Scindhia Nagar	VIII	JVS	JRF 014	16-0370/84	20.05.17	48.8	Inst.	
85	GWALIOR	MAHALGAON 220	33KV	33KV Polytechnic	VIII	JVS	JRF 014	16-0370/84	20.05.17	48.8	Inst.	
86	GWALIOR	MAHALGAON 220	33KV	33KV C.S.S.	VIII	JVS	JRF 014	16-0370/84	20.05.17	48.8	Inst.	
87	GWALIOR	MAHALGAON 220	33KV	33KV Stadium	VIII	JVS	JRF 014	16-0370/84	20.05.17	48.8	Inst.	
88	GWALIOR	MAHALGAON 220	33KV	33KV Darpan Colony I	VIII	JVS	JRF 014	16-0370/84	20.05.17	48.8	Inst.	
89	GWALIOR	MAHALGAON 220	33KV	33KV Darpan Colony II	VIII	JVS	JRF 014	16-0283/22	22.02.17	48.8	Inst.	
90	GWALIOR	MAHALGAON 220	33KV	33KV Mela	VIII	JVS	JRF 014	16-0283/25	14.02.17	48.8	Inst.	
91	GWALIOR	MAHALGAON 220	33KV	33KV High Court	VIII	JVS	JRF 014	16-0283/25	14.02.17	48.8	Inst.	
92	GWALIOR	MAHALGAON 220	33KV	33KV Air Force	VIII	JVS	JRF 014	16-0283/25	14.02.17	48.8	Inst.	
93	GWALIOR	MAHALGAON 220	33KV	33KV M.E.S.	VIII	JVS	JRF 014	16-0283/22	22.02.17	48.8	Inst.	
94	GWALIOR	MAHALGAON 220	33KV	33KV Hurawli	VIII	JVS	JRF 014	16-0370/84	20.05.17	48.8	Inst.	
95	GWALIOR	DATIA 220	33KV	33KV DABRA	IV	JVS	JRF014	F-33902	29.08.17	49.4	Instantaneous	
96	GWALIOR	DATIA 220	33KV	33KV SITAPUR FEEDER	II					49.4	Instantaneous	
97	GWALIOR	DATIA 220	33KV	33KV BADONI	VI					49.4	Instantaneous	
98	GWALIOR	DATIA 220	33KV	33KV GAUTAM NAGAR	VII					48.8	Instantaneous	
99	GWALIOR	DATIA 220	33KV	33KV RICHHARI	IV					49.4	Instantaneous	
100	GWALIOR	DABRA 132	33KV	33KV CHEEMAK	V-A	JVS	JRF014	16-0283/66	DOC 05.10.17	49	Instantaneous	
101	GWALIOR	DABRA 132	33KV	33KV BHITARWAR	VI					49	Instantaneous	
102	GWALIOR	DABRA 132	33KV	33KV DABRA TOWN	VI-A					49	Instantaneous	
103	GWALIOR	DABRA 132	33KV	33KV LOHGARH	IV					49	Instantaneous	
104	GWALIOR	DABRA 132	33KV	33KV TEKANPUR	VIII					exempted	Instantaneous	
105	GWALIOR	DABRA 132	33KV	33KV CHINOR	V					49	Instantaneous	
106	GWALIOR	DABRA 132	33KV	33KV NEW PICOHRE	VI					49	Instantaneous	
107	GWALIOR	DABRA 132	33KV	33KV MAGRORA	IV					49	Instantaneous	
108	GWALIOR	DABRA 132	33KV	33KV MASOODPUR	IV					49	Instantaneous	
109	GWALIOR	DABRA 132	33KV	33KV JAIL ROAD	VI-A					49	Instantaneous	
110	GWALIOR	DATIA 132	33KV	33KV DATIA	VII	JVS	JRF014	16-0283/78	DOC 26.09.16	48.8	Instantaneous	

111	GWALIOR	DATIA 132	33KV	33KV BHANDER	VII					49.4	Instantaneous	
112	GWALIOR	DATIA 132	33KV	33KV RAJGHAT	VII					48.8	Instantaneous	
113	GWALIOR	DATIA 132	33KV	33KV SITA PUR	IV					49.4	Instantaneous	
114	GWALIOR	DATIA 132	33KV	33KV INDUSTRIAL	IX					exempted		
115	GWALIOR	DATIA 132	33KV	33KV DABRA 33KV	III					49.4	Instantaneous	
116	GWALIOR	DATIA 132	33KV	33KV DAGRAI	III					49.4	Instantaneous	
117	GWALIOR	SEONDHA 132	33KV	33KV INDERGARH	IV	JVS	JRF014	16-0283/32	DOC 12.09.17	49.4	Instantaneous	
118	GWALIOR	SEONDHA 132	33KV	33KV SEONDHA	V-A					49.4	Instantaneous	
119	GWALIOR	SEONDHA 132	33KV	33KV ALAMPUR	I					49	Instantaneous	
120	GWALIOR	SEONDHA 132	33KV	33KV THARET	IV					49.4	Instantaneous	
121	GWALIOR	SEONDHA 132	33KV	33KV BHAGUAPURA	I					49.4	Instantaneous	
122	GWALIOR	BHANDER 132	33KV	33KV MELA GROUND	VI	JVS	JRF014-2	14-2078/5	D O C 28.06.16	49.4	Instantaneous	
123	GWALIOR	BHANDER 132	33KV	33KV TV TOWER	VI					49.4	Instantaneous	
124	GWALIOR	BHANDER 132	33KV	33KV SARSAI	III					49.4	Instantaneous	
125	GWALIOR	BHANDER 132	33KV	33KV SALON	II					49.4	Instantaneous	
126	GWALIOR	BHANDER 132	33KV	33KV PANDOKHAR	I					49.4	Instantaneous	
127	GWALIOR	CHINNOR 132	33KV	33KV BANBAR	IV	JVS	JRF014-2	14-2078/4	D O C 24.08.17	49.0	Instantaneous	
128	GWALIOR	CHINNOR 132	33KV	33KV CHINNOR	VI					49.0	Instantaneous	
129	GWALIOR	CHINNOR 132	33KV	33KV KARAHIYA	I					49.0	Instantaneous	
130	GWALIOR	CHINNOR 132	33KV	33KV GHARSONDHI	III					49.0	Instantaneous	
131	GWALIOR	INDERGARH 132	33KV	33KV LANCH	II	JVS	JRF014	16-0370/23	24.01.18	49.4	Instantaneous	
132	GWALIOR	INDERGARH 132	33KV	33KV THARET	I					49.4	Instantaneous	
133	GWALIOR	INDERGARH 132	33KV	33KV INDERGARH	V	JVS	JRF014	16-0489/41		49.4	Instantaneous	
134	GWALIOR	INDERGARH 132	33KV	33KV RARUA RAI	III					49.4	Instantaneous	
135	GWALIOR	BHITARWAR 132	33KV	33KV BHITARWAR	VI	JVS	JRF014	18-1397/4		49	Instantaneous	
136	GWALIOR	BHITARWAR 132	33KV	33KV BAGBAI	IV					49	Instantaneous	
137	GWALIOR	BHITARWAR 132	33KV	33KV GHATTAMPURA	VI					49	Instantaneous	
138	GWALIOR	BHITARWAR 132	33KV	33KV DEVARIKALA	IV					49	Instantaneous	
139	GWALIOR	TIGHRA 132	33KV	33KV Gol Pahadiya	VIII	JVS	JRF 014	F 623570	08.10.07	48.8	Inst.	AUF Relay setting has been revised from 48.6 to 48.8, 48.8 to 49.0, 49.2 to 49.4 as per CE (T&C) Jabalpur No. 07 Dt. 01.04.19 of All EHV Substations
140	GWALIOR	TIGHRA 132	33KV	33KV P.T.S. Tighra	VIII	JVS	JRF 014	F 623570	08.10.07	48.8	Inst.	
141	GWALIOR	TIGHRA 132	33KV	33KV Barai	IV	JVS	JRF 014	F 623570	08.10.07	49.0	Inst.	
142	GWALIOR	TIGHRA 132	33KV	33KV Dwarika Puri	IV	JVS	JRF 014	F 623570	08.10.07	49.0	Inst.	
143	GWALIOR	TIGHRA 132	33KV	33KV Sikandar Kamboo	VIII	JVS	JRF 014	F 623570	07.04.2020	48.8	Inst.	
144	GWALIOR	MORAR 132	33KV	33KV D.D. Nagar	VIII	ASHIDA	AUOFMR-2	031 FR 010	07.12.07	48.8	Inst.	
145	GWALIOR	MORAR 132	33KV	33KV Maharajpura	VIII	ASHIDA	AUOFMR-2	031 FR 010	07.12.07	48.8	Inst.	
146	GWALIOR	MORAR 132	33KV	33KV Kalpi Bridge	VIII	ASHIDA	AUOFMR-2	031 FR 010	07.12.07	48.8	Inst.	
147	GWALIOR	MORAR 132	33KV	33KV Sharma Farm	VIII	ASHIDA	AUOFMR-2	031 FR 010	07.12.07	48.8	Inst.	
148	GWALIOR	MORAR 132	33KV	33KV IIITM	VIIA	ASHIDA	AUOFMR-2	031 FR 010	07.12.07	48.8	Inst.	
149	GWALIOR	MORAR 132	33KV	33KV IT Park Rairu	I	ASHIDA	AUOFMR-2	031 FR 010	07.12.07	49.0	Inst.	
150	Minutes of 83rd MRPO CM		33KV	33KV Sagartal	VIII	JVS	JRF 014	14-0969/5	20.10.15	48.8	Inst.	

151	GWALIOR	MORAR 132	33KV	33KV Readymade Garment	VIII	JVS	JRF 014	14-0969/5	03.07.15	48.8	Inst.
152	GWALIOR	MORAR 132	33KV	33KV Bhadroli	IV	JVS	JRF 014	14-0969/5	16.02.14	49.0	Inst.
153	GWALIOR	MORENA 132	33KV	33KV MS City	VII A	JVS	JRF014	16-0283/73	07.01.17	48.8	Inst.
154	GWALIOR	MORENA 132	33KV	33KV DEORI	I A					49.4	Inst.
155	GWALIOR	MORENA 132	33KV	33KV MANDI	VIII					48.8	Inst.
156	GWALIOR	MORENA 132	33KV	33KV Maharajpur	VIII					48.8	Inst.
157	GWALIOR	MORENA 132	33KV	33KV Morena	VIII					48.8	Inst.
158	GWALIOR	MORENA 132	33KV	33KV Shikarpur	VIII					48.8	Inst.
159	GWALIOR	MORENA 132	33KV	33KV Beerampura (Baqchini)	IV					48.8	Inst.
160	GWALIOR	MORENA 132	33KV	33KV JADERUA	IX					48.8	Inst.
161	GWALIOR	MORENA 132	33KV	33KV JIGNI	VIII	JVS	JRF014	14-0969/30	30.11.15	48.8	Inst.
162	GWALIOR	MORENA 132	33KV	33KV Mayurvan	VIII					48.8	Inst.
163	GWALIOR	MORENA 132	33KV	33KV INDUSTRIAL	IX					48.8	Inst.
164	GWALIOR	MORENA 132	33KV	33KV K.S.OIL MILL	IX					48.8	Inst.
165	GWALIOR	SABALGARH 220	33KV	33KV RAMPUR	IV					49.4	Inst.
166	GWALIOR	SABALGARH 220	33KV	33KV Semai	IV					49.4	Inst.
167	GWALIOR	SABALGARH 220	33KV	33KV JHUNDPURA	IV					49.4	Inst.
168	GWALIOR	SABALGARH 220	33KV	33KV Manchon	IV					49.4	Inst.
169	GWALIOR	SABALGARH 220	33KV	33KV Baddhpura	IV	JVS	JRF014-2	16-0283/69	27.12.2016	49.4	Inst.
170	GWALIOR	SABALGARH 220	33KV	33KV Kailaras	V					49.4	Inst.
171	GWALIOR	SABALGARH 220	33KV	33KV SABALGARH	V					49.4	Inst.
172	GWALIOR	SABALGARH 220	33KV	33KV Mangrol	XIV					-	Inst.
173	GWALIOR	JOURA 132	33KV	33KV JOURA -II	II					49.4	Inst.
174	GWALIOR	JOURA 132	33KV	33KV SUMAWLI	II					49.4	Inst.
175	GWALIOR	JOURA 132	33KV	33KV SANKARA	I					49.4	Inst.
176	GWALIOR	JOURA 132	33KV	33KV KUMERI	IV					49.4	Inst.
177	GWALIOR	JOURA 132	33KV	33KV Baqchini	IV	JVS	JRFO14	F33901	30.06.04	49.4	Inst.
178	GWALIOR	JOURA 132	33KV	33KV JOURA CITY	VA					49.4	Inst.
179	GWALIOR	JOURA 132	33KV	33KV CHINNONI	I					49.4	Inst.
180	GWALIOR	JOURA 132	33KV	33KV Navodya	IV					49.4	Inst.
181	GWALIOR	AMBAH 132	33KV	33KV Thara 33KV	IV					49.4	Inst.
182	GWALIOR	AMBAH 132	33KV	33KV AMBAH 33KV	V					49.4	Inst.
183	GWALIOR	AMBAH 132	33KV	33KV ESHAH 33KV	III					49.4	Inst.
184	GWALIOR	AMBAH 132	33KV	33KV GOTH 33KV	IV	JVS	JRF014	13-1855/23	09.02.15	49.4	Inst.
185	GWALIOR	AMBAH 132	33KV	33KV RACHAD 33KV	III					49.4	Inst.
186	GWALIOR	AMBAH 132	33KV	33KV 5 MVA X-mer	IV					49.4	Inst.
187	GWALIOR	AMBAH 132	33KV	33KV Parikshitpura	NA					49.4	Inst.
188	GWALIOR	AMBAH 132	33KV	33KV Gunjbanda	I					49.4	Inst.
189	GWALIOR	PORSA 132	33KV	33KV DONDORI 33KV	I-IV					49.4	Inst.
190	GWALIOR	PORSA 132	33KV	33KV PORSA 33KV	V					49.4	Inst.
191	GWALIOR	PORSA 132	33KV	33KV MANPUR 33KV	I-IV	JVS	JRFO14	13-1055/67	28.09.2019	49.4	Inst.
192	GWALIOR	PORSA 132	33KV	33KV Tarasma	III					49.4	Inst.
193	GWALIOR	PORSA 132	33KV	33KV KHERLI 33KV	I-IV					49.4	Inst.
194	GWALIOR	VIJAYPUR 132	33KV	33KV Vijaypur	V					49.4	Inst.
195	GWALIOR	VIJAYPUR 132	33KV	33KV Agara	IV					49.4	Inst.
196	GWALIOR	VIJAYPUR 132	33KV	33KV BEERPUR	VA	AVANA	NPH222	AP135524	22.06.17	49.4	Inst.
197	GWALIOR	VIJAYPUR 132	33KV	33KV Dord	III					49.4	Inst.
198	GWALIOR	VIJAYPUR 132	33KV	33KV Veerpur (Garhi)	VI					49.4	Inst.
199	GWALIOR	BADAGAON 132	33KV	33KV Badagaon	I					49.4	Inst.
200	GWALIOR	BADAGAON 132	33KV	33KV Ajnodha	IV	AVANA	NPH222	AP150715	16.10.15	49.4	Inst.
201	GWALIOR	BADAGAON 132	33KV	33KV Dimni	II					49.4	Inst.
202	GWALIOR	BADAGAON 132	33KV	33KV Kahadiyar	III					49.4	Inst.
203	GWALIOR	MORENA 220	33KV	33KV Bichola	IV					49.4	Inst.
204	GWALIOR	MORENA 220	33KV	33KV Jaderua	IX	JVS	JRF014-2	15-1330/12	21.12.16	49.4	Inst.
205	GWALIOR	MORENA 220	33KV	33KV City Hospital	VII					49.4	Inst.
206	GWALIOR	MORENA 220	33KV	33KV Sitapur Phase-II	IX					49.4	Inst.
207	GWALIOR	MORENA 220	33KV	33KV Chhonda Industrial	IX					49.4	Inst.
208	GWALIOR	MORENA 220	33KV	33KV Bhonderi						49.4	Inst. Group not allotted
209	GWALIOR	KAILARAS 132	33KV	33KV DEPPERIA	IV					49.4	Inst.
210	GWALIOR	KAILARAS 132	33KV	33KV Kailaras	VI-A	JVS	JRF014-2	14-2078/3	14.08.17	49.4	Inst.
211	GWALIOR	KAILARAS 132	33KV	33KV Pahadgarh	I					49.4	Inst.
212	GWALIOR	KAILARAS 132	33KV	33KV Chamarganva	IV					49.4	Inst.
213	GWALIOR	KAILARAS 132	33KV	33KV Gail	NA					49.4	Inst.
214	GWALIOR	BANMORE 132	132KV	132KV J.K. TYRE	VIIA	ASHIDA	AUOFMR-2	031/FR/043	14.05.2014	48.8	Inst.
215	GWALIOR	BANMORE 132	33KV	33KV Megnum	XIII	JVS	JRF 014	17-0284/1	30.12.2016	48.8	Inst.
216	GWALIOR	BANMORE 132	33KV	33KV Delux	X					48.8	Inst.
217	Minutes of 83rd MPCM					33KV	33KV Vibha	XIII	43	48.8	Inst.

218	GWALIOR	BANMORE 132	33KV	33KV Badpura (Joura)	VIA	JVS	JRF 014	17-0284/2	25.05.2017	49.4	Inst.	
219	GWALIOR	BANMORE 132	33KV	33KV Industrial	XIII					48.8	Inst.	
220	GWALIOR	BANMORE 132	33KV	33KV Tripti	XIII					48.8	Inst.	
221	GWALIOR	BANMORE 132	33KV	33KV B.R.A	X					48.8	Inst.	
222	GWALIOR	BANMORE 132	33KV	33KV Sikarpura	II					49.4	Inst.	
223	GWALIOR	BANMORE 132	33KV	33KV (IIDC) Sitapur Pahadi	IX					48.8	Inst.	
1	KHANDWA	KHANDWA 132	33KV	33KV CIVIL LINE	7	JVS	JRF 014	F623924	11.07.2002	48.8	0.0 Sec.	Working
2	KHANDWA	KHANDWA 132	33KV	33KV ANANDNAGAR	7					48.8	0.0 Sec.	Working
3	KHANDWA	KHANDWA 132	33KV	33KV INDORE ROAD	7					48.8	0.0 Sec.	Working
4	KHANDWA	BAHADARPUR 132	33KV	33KV SANWARA-I	7					48.8	0.0 Sec.	Working
5	KHANDWA	BAHADARPUR 132	33KV	33KV SANWARA-II	7					48.8	0.0 Sec.	Working
6	KHANDWA	BAHADARPUR 132	33KV	33KV CO-OP SPINNING MILL	7					48.8	0.0 Sec.	Working
7	KHANDWA	BAHADARPUR 132	33KV	33KV SHIKARPURA	7					48.8	0.0 Sec.	Working
8	KHANDWA	BHIKANGAON 132	33KV	33KV INDUSTRIAL	9	AVANA	NPH 222	AP135514	04.01.2018	48.6	0.0 Sec.	Working
9	KHANDWA	KHARGONE 132	33KV	33KV KHARGONE-I	7					48.8	0.0 Sec.	Working
10	KHANDWA	KHARGONE 132	33KV	33KV OON	7					48.8	0.0 Sec.	Working
11	KHANDWA	KHARGONE 132	33KV	33KV PFC	7					48.8	0.0 Sec.	Working
12	KHANDWA	KHARGONE 132	33KV	33KV GOGAWAN	7	ASHIDA	AUOFMR2	03ISR008	12.03.2007	48.8	0.0 Sec.	Working
13	KHANDWA	SANAWAD 132	33KV	33KV OMKAreshwar	7					48.8	0.0 Sec.	Working
14	KHANDWA	BARWANI 132	33KV	33KV WATER WORK	6					48.6	0.0 Sec.	Working
1	NAGDA	NAGDA 220	33KV	33KV KHACHROD	IV	JVS	JRF014	10-10-6438/1	12.08.2017	49.4	Instantaneous	
2	NAGDA	NAGDA 220	33KV	33KV NAGDA (T)	VI					49.4		
3	NAGDA	NAGDA 220	33KV	33KV MAHIDPUR ROAD	IV					49.4		
4	NAGDA	NAGDA 220	33KV	33KV MOHANA	IV					49.4		
5	NAGDA	NAGDA 220	33KV	33KV KALSI	IV					49.4		
6	NAGDA	NAGDA 220	33KV	33KV UNHEL	V					49.4		
7	NAGDA	NAGDA 220	33KV	33KV TAL	IV					49.4		
8	NAGDA	NAGDA 220	33KV	33KV BADAGAON	IV					49.4		
9	NAGDA	NAGDA 220	33KV	33KV HATAI-PALKI	IV					49.4		
10	NAGDA	NAGDA 220	33KV	33KV MAHUMATRA	IV					49.4		
11	NAGDA	KHACHROD 132	33KV	33KV BURANABAD-I	V	JVS	JRS014	16-0283/31	15.07.2017	49.4	Instantaneous	
12	NAGDA	KHACHROD 132	33KV	33KV KAMTHANA	IV					49.4		
13	NAGDA	KHACHROD 132	33KV	33KV MADAWADA	IV					49.4		
14	NAGDA	KHACHROD 132	33KV	33KV BURANABAD-II	XII					49.4		
15	NAGDA	KHACHROD 132	33KV	33KV GHINODA	IV					49.4		
16	NAGDA	KHACHROD 132	33KV	33KV CHIROLA	IV					49.4		
17	NAGDA	KHACHROD 132	33KV	33KV KHACHROD	IV					49.4		
18	NAGDA	KHACHROD 132	33KV	33KV KANWASH	IV					49.4		
19	NAGDA	KHACHROD 132	33KV	33KV MOKADI	IV					49.4		
20	NAGDA	MAHIDPUR 132	33KV	33KV NARAYANA	IV	44				49.4		
21	NAGDA	MAHIDPUR 132	33KV	33KV CHORWASA	IV					49.4		
22	NAGDA	MAHIDPUR 132	33KV	33KV KUNDIKHEDA	III					49.4		

23	NAGDA	MAHIDPUR 132	33KV	33KV MAHIDPUR CITY	Va	JVS	JRV1S1	16-5001-83	17.11.2017	49.4	Instantaneous		
24	NAGDA	MAHIDPUR 132	33KV	33KV BANJARI	IV					49.4			
25	NAGDA	MAHIDPUR 132	33KV	33KV MAHIDPUR-ROAD	Va					49.4			
26	NAGDA	MAHIDPUR 132	33KV	33KV RUDRKHEDA	III					49.4			
27	NAGDA	MAHIDPUR 132	33KV	33KV KHEDAMADA	IV					49.4			
28	NAGDA	JHARDA 132	33KV	33KV JHARDA	V	JVS	JRF014	16-S0815283		49.4	Instantaneous		
29	NAGDA	JHARDA 132	33KV	33KV INDOK	IV					49.4			
30	NAGDA	JHARDA 132	33KV	33KV ASADI	IV					49.4			
31	NAGDA	JHARDA 132	33KV	33KV GOGAKHEDA	IV					49.4			
32	NAGDA	JHARDA 132	33KV	33KV SEMLIYA	IV					49.4			
33	NAGDA	UNHEL 132	33KV	33KV BEDAWAN	I to IV	JVS	JRF014	17-0284/5	01.12.2018	49.4	Instantaneous		
34	NAGDA	UNHEL 132	33KV	33KV SUWASA	I to IV					49.4			
35	NAGDA	UNHEL 132	33KV	33KV CHIROLA	I to IV					49.4			
36	NAGDA	Bhesola 132	33KV	33KV BANJARI	I	JVS	JRS014	18-1397/12	21.12.2019	49.4	Instantaneous		
37	NAGDA	Bhesola 132	33KV	33KV BATLAWADI	IV					49.4			
38	NAGDA	Bhesola 132	33KV	33KV GHINODA	IV					49.4			
39	NAGDA	Rajgarh(Dhar) 132	33KV	33KV AMJHERA(DHAR)	2		MAKE -JVS,	JRF014-2,	16-0370/42	12.03.2018	49.4	1.0	
40	NAGDA	Rajgarh(Dhar) 132	33KV	33KV DASAI	1					49.4			
41	NAGDA	Rajgarh(Dhar) 132	33KV	33KV RAJOD	1					49.4			
42	NAGDA	Rajgarh(Dhar) 132	33KV	33KV ZAKNAWAD (PETLAWAD)	2					49.4			
43	NAGDA	Rajgarh(Dhar) 132	33KV	33KV INDUSTRIAL	11					48.6			
44	NAGDA	Rajgarh(Dhar) 132	33KV	33KV BHARATOMAN	7-A					48.8			
45	NAGDA	Rajgarh(Dhar) 132	33KV	33KV DATTIGAON	1					49.4			
46	NAGDA	Rajgarh(Dhar) 132	33KV	33KV PHE BAYS	7					48.8			
47	NAGDA	KUKSHI 132	33KV	33KV BAGH	2	MAKE -JVS,	RF014-2,	16-0489/38	02.09.2018	49.4	1.0		
48	NAGDA	KUKSHI 132	33KV	33KV DHOLIYA	4					49.4			
49	NAGDA	KUKSHI 132	33KV	33KV DEHRI	3					49.4			
50	NAGDA	KUKSHI 132	33KV	33KV BHAVARIYA	2					49.4			
51	NAGDA	KUKSHI 132	33KV	33KV DAHI	5					49.4			
52	NAGDA	KUKSHI 132	33KV	33KV NISARPUR	1					49.4			
53	NAGDA	KUKSHI 132	33KV	33KV WATER WORKS	7A					48.8			
54	NAGDA	KUKSHI 132	33KV	33KV PHE BAYS	7					48.8			
55	MCGO	Minutes of 83rd MTPC Meeting	33KV	33KV SUSARI	7					48.8			

56	NAGDA	Rajgarh(Dhar) 220	33KV	33KV RINGNOD	3	MAKE - JVS,	JRF014,	12-4480/6	29.10.2013	49.4	1.0	
57	NAGDA	Rajgarh(Dhar) 220	33KV	33KV BHARAT OMAN	7-A					48.8		
58	NAGDA	Rajgarh(Dhar) 220	33KV	33KV PGCIL	7-A					48.8		
59	NAGDA	Rajgarh(Dhar) 220	33KV	33KV TANDA	1 to 4					49.4		
60	NAGDA	Rajgarh(Dhar) 220	33KV	33KV HATOD	1 to 4					49.4		
61	NAGDA	meghnagar 132	33KV	33 KALAYANPURA	3	MAKE - JVS	JRF014,	F623906	16.04.2018	49.4	1.0	
62	NAGDA	meghnagar 132	33KV	33KV MEGHNAGAR	5					49.4		
63	NAGDA	meghnagar 132	33KV	33KV THANDLA	6					49.4		
64	NAGDA	meghnagar 132	33KV	33KV JHABUA	7					48.8		
65	NAGDA	meghnagar 132	33KV	33KV INDUSTRIAL	8					48.6		
66	NAGDA	meghnagar 132	33KV	33KV S.R.FERRO ALLOYS	8					49.4		
67	NAGDA	meghnagar 132	33KV	33KV KAKANWANI	1 to 4					49.4		
68	NAGDA	jhabua 132	33KV	33KV RANAPUR	5	MAKE - JVS	JRF014,	F623923	01.03.07	49.4	1.0	
69	NAGDA	jhabua 132	33KV	33KV PARA	3					49.4		
70	NAGDA	jhabua 132	33KV	33KV KALIDEVI	4					49.4		
71	NAGDA	jhabua 132	33KV	33KV JHABUA	7					48.8		
72	NAGDA	Alirajpur 132	33KV	33KV JOBAT	5	Make- ASHIDA	AUOFMR2,	03IFR043	27.06.06	49.4	1.0	
73	NAGDA	Alirajpur 132	33KV	33KV SONDWA	5					49.4		
74	NAGDA	Alirajpur 132	33KV	33KV ALIRAJPUR	7					48.8		
75	NAGDA	Alirajpur 132	33KV	33KV FLOROSIS	5					49.4		
76	NAGDA	Alirajpur 132	33KV	33KV E.EJOBAT FATA	13					48.6		
77	NAGDA	Alirajpur 132	33KV	33KV AMBUA	5					49.4		
78	NAGDA	Alirajpur 132	33KV	33KV NANPUR (DABDI)	5					49.4		
79	NAGDA	Alirajpur 132	33KV	33KV FULMAL	4					49.4		
80	NAGDA	Alirajpur 132	33KV	33KV NVDA	NA					49.4		
81	NAGDA	Petlawad 132	33KV	33KV RAIPURIYA	4	MAKE - JVS	JRF014,	09-3761/10	16.11.2010	49.4	1.0	
82	NAGDA	Petlawad 132	33KV	33KV PETLAWAD	6A					49.4		
83	NAGDA	Petlawad 132	33KV	33KV SARNGI	4					49.4		
84	NAGDA	Petlawad 132	33KV	33KV BAMANIYA	4					49.4		
85	NAGDA	Petlawad 132	33KV	33KV MAHI PHE	7A					48.8		
86	NAGDA	Petlawad 132	33KV	33KV BHARAT OMAN	13					48.8		
87	NAGDA	Petlawad 132	33KV	33KV TEMRIYA	NA					48.8		
88	MCG	Minutes of 83rd MP 10CCM	33KV	33KV JOBAT	5	46				49.2		

89	NAGDA	JobOt 132	33KV	33KV UDYAGARH (KALIKHETIYAR)	5	MAKE - JVS	JRF014	16-0489/70	21.11.2017	49.2	1.0	
90	NAGDA	JobOt 132	33KV	33KV DABARI	NA					49.2		
91	NAGDA	MANAWAR 132	33KV	33NKV MANAWAR	GR - 5					49.4		
92	NAGDA	MANAWAR 132	33KV	33KV JEERABAD	GR - 6 A					49.4		
93	NAGDA	MANAWAR 132	33KV	33KV UMERBAN	GR - 2					49.4		
94	NAGDA	MANAWAR 132	33KV	33KV DHARAMPURI	GR - 2					49.4		
95	NAGDA	MANAWAR 132	33KV	33KV BAKANER	GR - 2					49.4		
96	NAGDA	MANAWAR 132	33KV	33KV SINGHANA	GR - 3					49.4		
97	NAGDA	MANAWAR 132	33KV	33KV DCL	GR - 7 A					49.4		
98	NAGDA	MANAWAR 132	33KV	33KV KAROLI	1					49.4		
99	NAGDA	MANAWAR 132	33KV	33KV TOKI	4	Make Ashida	KAU0FMR2	02FR037AUX110B	12.04.19	49.4	1.0	
100	NAGDA	MANAWAR 132	33KV	33KV AJANDA	4					49.4		
101	NAGDA	Singhana 132	33KV	33KV SINGHANA	GR 4					49.4		
102	NAGDA	Singhana 132	33KV	33KV NVDA(JHOPDI)	GR 4					49.4		
103	NAGDA	Singhana 132	33KV	33KV LOHARI	GR 3					49.4		
104	NAGDA	Singhana 132	33KV	33KV GANDHWANI	GR 5					49.4		
105	NAGDA	BARNAGAR 220	33KV	33KV WATER WORKS	GR 6A	JVS	JRF014	F33899	07.10.2019	49.20 Hz	1.0	
106	NAGDA	BARNAGAR 220	33KV	33KV LOHANA	GR 2							
107	NAGDA	BARNAGAR 220	33KV	33KV HT	GR 7A							
108	NAGDA	BARNAGAR 220	33KV	33KV KHEDAWDA	GR 2							
109	NAGDA	BARNAGAR 220	33KV	33KV PIPLU	GR 2							
110	NAGDA	BARNAGAR 220	33KV	33KV AMLA	GR 2							
111	NAGDA	BARNAGAR 220	33KV	33KV BANGRED	GR 2							
112	NAGDA	BARNAGAR 220	33KV	33KV PALWA	GR 2							
113	NAGDA	BARNAGAR 220	33KV	33KV BIRIYAKHEDI	GR 2							
114	NAGDA	BARNAGAR 220	33KV	33KV KHARSOUD KALA	GR 3							
115	NAGDA	BARNAGAR 220	33KV	33KV 8 MVA	GR 4	JVS	JRF014	16-0489/57	07.10.2019	49.6 Hz	1.0	
116	NAGDA	BARNAGAR 220	33KV	33KV 5 MVA	GR 4							
117	NAGDA	BARNAGAR 220	33KV	33KV PIRZHALLAR	GR 2							
118	NAGDA	BARNAGAR 220	33KV	33KV BADNAWAR	GR 5A					48.6 Hz		
119	NAGDA	BARNAGAR 220	33KV	33KV KACHHIBARODA	GR 2							
120	NAGDA	KANWAN 220	33KV	33KV NAGADA	GR 3	ALSTOM	P 141	34515959/07/18	16.03.2019	49.4 Hz	1.0	
121	NAGDA	KANWAN 132	33KV	33KV BIDWAL	GR 1	JVS	NA	F0815273	12.12.2003	49.4 Hz	1.0	
122	NAGDA	KANWAN 132	33KV	33KV BORALI	GR 1							
123	NAGDA	KANWAN 132	33KV	33KV KAROD	GR 4							
124	NAGDA	KANWAN 132	33KV	33KV NAGDA	GR 3							
125	NAGDA	KANWAN 132	33KV	33KV CHHAYAN	GR 1							
126	NAGDA	KANWAN 132	33KV	33KV RAJOD	GR 1	JVS	KRF 014	14-0499/2	10.05.2016	49.4 Hz	1.0	
127	NAGDA	BILPANK 132	33KV	33KV BIRMAWAL	GR 4							
128	NAGDA	BILPANK 132	33KV	33KV RUPAKHEDA	GR 4							
129	NAGDA	BILPANK 132	33KV	33KV RANISINGH	GR 4							
130	NAGDA	BILPANK 132	33KV	33KV DHIKWA	GR 4							
131	NAGDA	INGORIYA 132	33KV	33KV KHARSOD KHURD	GR 2	JVS	JRF0142	160489/40	04.10.2018	49.4 Hz	1.0	
132	NAGDA	INGORIYA 132	33KV	33KV DANGWARA	GR 2							
133	NAGDA	INGORIYA 132	33KV	33KV INGORIYA	GR 4							
134	NAGDA	INGORIYA 132	33KV	33KV JAHANGIRPUR	GR 4							
135	NAGDA	INGORIYA 132	33KV	33KV CHIKLI	GR 3							
136	NAGDA	CHHAYAN 132	33KV	33KV HEAD QUARTER	GR 1	AVAM	NA	AP155626	08.11.2018	49.4 Hz	1.0	
137	NAGDA	CHHAYAN 132	33KV	33KV TILGARA	GR 2							
138	NAGDA	CHHAYAN 132	33KV	33KV HANUMANTYA	GR 5A							



55	SAGAR	Damoh 220	33KV	33KV INDUSTRIAL MARUTAL	4					49.00			
56	SAGAR	Damoh 220	33KV	33KV JALNIGAM	7A					48.80	0.10		
57	SAGAR	Damoh 132	33KV	33KV DISCOM	7					48.8	0.10		
58	SAGAR	Damoh 132	33KV	33KV HATTA (TOWN)	2					48.8	0.10		
59	SAGAR	Damoh 132	33KV	33KV IMLAI	5					49	0.10		
60	SAGAR	Damoh 132	33KV	33KV PHUTERA	7					49	0.10		
61	SAGAR	Damoh 132	33KV	33KV INTER CONN	7					48.8	0.10		
62	SAGAR	Hatta 132	33KV	33KV HATTA	5 to 6					48.8	0.10		
63	SAGAR	Hatta 132	33KV	33KV HINOTA	6A					49	0.10		
64	SAGAR	Hatta 132	33KV	33KV GESABAD	6A					49	0.10		
65	SAGAR	Hatta 132	33KV	33KV MADIYADOV	6A					48.8	0.10		
66	SAGAR	Hatta 132	33KV	33KV BANGOWN	4A					49	0.10		
67	SAGAR	Hatta 132	33KV	33KV PHTEHPUR	4					49	0.10		
68	SAGAR	Batiyagarh 132	33KV	33KV BATIYAGRAH	6A					48.8	0.10		
69	SAGAR	Batiyagarh 132	33KV	33KV MAGRON	4					49	0.10		
70	SAGAR	Batiyagarh 132	33KV	33KV KERBANA	4					49	0.10		
71	SAGAR	Batiyagarh 132	33KV	33KV BUXWAHA	4					49	0.10		
72	SAGAR	Patera 132	33KV	33KV PATERA	6A					48.8	0.10		
73	SAGAR	Patera 132	33KV	33KV KUNDALPUR	4					49	0.10		
74	SAGAR	Patera 132	33KV	33KV KUDAI	4					49	0.10		
75	SAGAR	Patera 132	33KV	33KV HATTA	6A					48.8	0.10		
76	SAGAR	Rahli 132	33KV	33KV CHHIRARI	NOT ALLOTTED					49.00	0.10		
77	SAGAR	Rahli 132	33KV	33KV RAHLI	NOT ALLOTTED					48.80	0.10		
78	SAGAR	Rahli 132	33KV	33KV GUDA	NOT ALLOTTED					49.00	0.10		
79	SAGAR	Rahli 132	33KV	33KV PATNA BUJURG	NOT ALLOTTED					49.00	0.10		
80	SAGAR	Deori 132	33KV	33KV DEORI	NOT ALLOTTED					48.80	0.10		
81	SAGAR	Deori 132	33KV	33KV KOPRA	NOT ALLOTTED					49.00	0.10		
82	SAGAR	CHHATARPUR 220	33KV	33KV CHHATARPUR	7	JVS	JRF 014			06.01.2017	48.8	0.1	
83	SAGAR	CHHATARPUR 220	33KV	33KV MAUSANIA	7	JVS	JRF 014			16-0283/2	48.8	0.1	
84	SAGAR	CHHATARPUR 220	33KV	33KV SAURA	7	JVS	JRF 014			19.01.2017	48.8	0.1	
85	SAGAR	CHHATARPUR 220	33KV	33KV SATAI ROAD	7	JVS	JRF 014			11.01.2017	48.8	0.1	
86	SAGAR	BIJAWAR 132	33KV	33KV CHHATARPUR	7	JVS	JRF 014			F623981	09.12.2016	48.8	0.1
87	SAGAR	KHAJURAHO 132	33KV	33KV KHAJURAHO	7	JVS	JRF 014			16-0283/75	21.06.2017	48.8	0.1
88	SAGAR	KHAJURAHO 132	33KV	33KV AIRPORT	7	JVS	JRF 014			F623980	24.03.08	48.8	0.1
89	SAGAR	Tikamgarh 220	33KV	33KV TIKAMGARH	7					F623980	24.03.08	48.8	0.1
90	SAGAR	Tikamgarh 220	33KV	33KV COLLECTORATE	7					F33877	15.08.2006	48.80	0.1
91	SAGAR	JATAR 132	33KV	33KV JATAR	6						48.80	0.1	
92	SAGAR	JATAR 132	33KV	33KV PALERA	6						48.80	0.1	
93	SAGAR	Tikamgarh 132	33KV	33KV TIKAMGARH	7						48.80	0.1	
94	SAGAR	Tikamgarh 132	33KV	33KV DHONGA	7A						48.80	0.1	
95	SAGAR	Prithvipur 132	33KV	33KV PRATAPPURA	9						48.80	0.1	
96	SAGAR	Prithvipur 132	33KV	33KV NIWARI-I	6						48.80	0.1	
97	SAGAR	Prithvipur 132	33KV	33KV ORCHHA	6						48.80	0.1	
98	SAGAR	Prithvipur 132	33KV	33KV PRITHVIPUR	5A						48.80	0.1	
1	INDORE	INDORE( SOUTH) 220	33KV	33KV SABJI MANDI									
	INDORE	INDORE( SOUTH) 220	33KV	33KV RAU									
	INDORE	INDORE( SOUTH) 220	33KV	33KV PAGNISPAGA									
	INDORE	INDORE( SOUTH) 220	33KV	33KV NAVLAKHA -I									
	INDORE	INDORE( SOUTH) 220	33KV	33KV NAVLAKHA -II									
	INDORE	INDORE( SOUTH) 220	33KV	33KV DALY COLLEGE I									
	INDORE	INDORE( SOUTH) 220	33KV	33KV DALY COLLEGEII									
	INDORE	INDORE( SOUTH) 220	33KV	33KV ASRAWAD									
	INDORE	INDORE( SOUTH) 220	33KV	33KV RAJENDRA NGR									
	INDORE	INDORE( SOUTH) 220	33KV	33KV KASTURBAGRAM									
	INDORE	INDORE( SOUTH) 220	33KV	33KV PITHAMPUR									
	Minutes of 83rd MBR (OCM) 220		33KV	33KV BIJALPUR I									

GR-8

49

JVS  
JRF014

F623909

48.80 HZ

inst



7	INDORE	SANWER 132	33KV	33KV SANWER	GR-5A	GR-4	Make- AVANA	Type-NPH 222	Sr No. -135517	05/04/1998	49.2 Hz (Inst.)	ins.						
	INDORE	SANWER 132	33KV	33KV CHANDRAVATI GANJ							49.2 Hz (Inst.)							
	INDORE	SANWER 132	33KV	33KV AJNOD							49.4 Hz (Inst.)							
	INDORE	SANWER 132	33KV	33KV PANTH- PIPLAI-I														
	INDORE	SANWER 132	33KV	33KV PANTH- PIPLAI-II														
	INDORE	SANWER 132	33KV	33KV PANTH- PIPLAI-III														
8	INDORE	INDORE (SATYA SAI) 132	33KV	33KV VANDANA NAGAR		GR-8	Make- ASHIDA	Type- AVOTMR-2	Sr. No.- 03IFR047	24/03/2004	48.8 Hz (Inst.)	ins.						
	INDORE	INDORE (SATYA SAI) 132	33KV	33KV TULSI NAGAR														
	INDORE	INDORE (SATYA SAI) 132	33KV	33KV SATYA SAI														
	INDORE	INDORE (SATYA SAI) 132	33KV	33KV PRESS COMPLEX														
	INDORE	INDORE (SATYA SAI) 132	33KV	33KV REDISON	GR-7A													
9	INDORE	INDORE-II (JETPUR) 220	33KV	33 TODI	GR-2	GR-4	Make- JVS	Type- JRC014-2	Sr.No.- 14-0969/10	29/03/2004	49.2 Hz (Inst.)	ins.						
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV DHARAM PURI														
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV DHATURIYA-I														
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV DHATURIYA-II														
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV RAMAPHOSPHATE														
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV SANWER	GR-5A													
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV BPCL (MANGLIYA)	GR-7A													
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV INDUTRIAL														
	INDORE	INDORE-II (JETPUR) 220	33KV	33KV PGCIL	GR-8													
10	INDORE	INDORE WEST (BICHOLI) 220	33KV	33KV GOYAL NAGAR		GR-4	Make- JVS	Type- JRF014	Sr.No.- F623912	15/11/07	49.2 Hz (Inst.)	ins.						
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33 KHUDEL														
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33KV DUDHIYA														
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33 KANNOD- II	GR-6													
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33KV VANDANA NAGAR-II		GR-8												
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33KV VANDANA NAGAR-I														
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33KV SANCHAR NAGER-II														
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33KV SANCHAR NAGER-I														
	INDORE	INDORE WEST (BICHOLI) 220	33KV	33KV SCHEME NO.140														
11	INDORE	ELECTRONIC COMPLEX 132	33KV	33KV ELE. COM.ZONE		GR-8	Make- JVS	Type- JRS014	Sr. No.- 12-4480/2	14.07.2014	48.8 Hz (Inst.)	ins.						
	INDORE	ELECTRONIC COMPLEX 132	33KV	33KV KHATIPURA														
	INDORE	ELECTRONIC COMPLEX 132	33KV	33KV E.S.I. -I														
	INDORE	ELECTRONIC COMPLEX 132	33KV	33KV E.S.I. -II														
	INDORE	ELECTRONIC COMPLEX 132	33KV	33KV NAGAR NIGAM		GR-9												
	INDORE	ELECTRONIC COMPLEX 132	33KV	33KV AKVN														
12	INDORE	CHANDRAWATIGANJ 132	33KV	33KV AJNOD		GR-4	Make-JVS	Type- JRS014	Sr.No.-13-1295/5	30.04.2015	49.2 Hz (Inst.)	ins.						
	INDORE	CHANDRAWATIGANJ 132	33KV	33KV KACHHALIYA														
	INDORE	CHANDRAWATIGANJ 132	33KV	33KV CHANDRAWATI GANJ														
	INDORE	CHANDRAWATIGANJ 132	33KV	33KV KHALKHALA														
13	INDORE	SHIVNI 132	33KV	33KV SIVANI		GR-4	Make- AVANA	Type- MPH222BF	Sr.No. AP154580	12.07.2016	49.2 Hz (Inst.)	ins.						
	INDORE	SHIVNI 132	33KV	33KV PEDMI														
	INDORE	SHIVNI 132	33KV	33KV KHUDEL														
	INDORE	SHIVNI 132	33KV	33KV BAWLIYA														
15	INDORE	DHAR 220	33KV	M/S 132KV VACMET		GR-4	Make JVS Electronics S.N. 16-0283/3	Type- MPH222BF	Sr.No. AP154580	12.07.2016	49.2 Hz (Inst.)	ins.						
	INDORE	DHAR 220	33KV	33KV DHAR	GR-7						07.06.17	48.8						
	INDORE	DHAR 220	33KV	33KV DASHARA MADION	GR-7							48.8						
	INDORE	DHAR 220	33KV	33KV NARAYAN PURA	GR - 1						29.03.18	49.4						
	INDORE	DHAR 220	33KV	33KV TEESGOAN	GR-3							49.4						
	INDORE	DHAR 220	33KV	33KV KLKA DEVI	GR-3							49.4						
	INDORE	DHAR 220	33KV	33KV BERCHHA	GR-3							49.4						
	INDORE	DHAR 220	33KV	33KV DEDLA	GR-4							49.4						
	INDORE	DHAR 220	33KV	33KV AHU	GR-4							49.4						
	INDORE	DHAR 220	33KV	33KV SEJWAYA	GR-4							49.4						
	INDORE	DHAR 220	33KV	33KV INDUSTRIAL	GR - 9													
16	INDORE	GHATABILLOD 132	33KV	33KV KESOOR-I	GR - 4	JVS	TYPE-JRF0.14	S.N. 16-0370/85	04.10.2018	49.4								
	INDORE	GHATABILLOD 132	33KV	33KV KESOOR-II	GR - 4							49.4						
	INDORE	GHATABILLOD 132	33KV	33KV NEKPUR	GR - 4							49.4						
	INDORE	GHATABILLOD 132	33KV	33KV PAN KHEDI	GR - 4							49.4						
	INDORE	GHATABILLOD 132	33KV	33KV NATIONAL STEEL	GR - 10													
	INDORE	GHATABILLOD 132	33KV	33KV MSP	GR - 10													
	<b>Notes of 83 GMP 000CB2</b>																	
17	INDORE	INDORE WEST 132	33KV	33KV NAVDA PANTH	GR 4						07.10.06	49.4						

	INDORE	INDORE WEST 132	33KV	33KV NAGIN NAGAR I	GR 8	ASHIDA		99LFRO45		48.8		
	INDORE	INDORE WEST 132	33KV	33KV NAGIN NAGAR II	GR 8					48.8		
	INDORE	INDORE WEST 132	33KV	33KV GANDHI NAGAR	GR 8							
	INDORE	INDORE WEST 132	33KV	33KV PLATHICO	GR - 9							
	INDORE	INDORE WEST 132	33KV	33KV AIRPORT	GR - 7A							
	INDORE	INDORE WEST 132	33KV	33KV INDUSTRIAL	GR - 9							
	INDORE	BAGDI 132	33KV	33KV BAGDI	GR 4				12.04.2010	49.4		
	INDORE	BAGDI 132	33KV	33KV MANDU	GR 4					49.4		
	INDORE	BAGDI 132	33KV	33KV KUNJROD	GR 2					49.4		
	INDORE	BAGDI 132	33KV	33KV NALCHHA	GR 4					49.4		
	INDORE	BAGDI 132	33KV	INDUSTRIAL-1	GR 13							
	INDORE	BAGDI 132	33KV	INDUSTRIAL-2	GR 13							
19	INDORE	PITHAMPUR (SECT-III) 220	33KV	132KV JAMLI						49.9		
20	INDORE	DEPALPUR 132	33KV	132KV BARNAGAR		JVS	JRF0.14	168-0283/55	19.07.17	49.2		
	INDORE	DEPALPUR 132	33KV	33KV DEPALPUR	GR 4					49.2		
	INDORE	DEPALPUR 132	33KV	33KV BETMA	GR 4					49.2		
	INDORE	DEPALPUR 132	33KV	33KV ATAHEDA	GR 2					49.2		
	INDORE	DEPALPUR 132	33KV	33KV BEGANDA	GR 1					49.2		
	INDORE	DEPALPUR 132	33KV	33KV LIMBODAPAR	GR 4					49.2		
	INDORE	DEPALPUR 132	33KV	33KV BANEDIYA	GR 4					49.2		
	INDORE	DEPALPUR 132	33KV	33KV MURKHEDA	GR 4					49.2		
	INDORE	DEPALPUR 132	33KV	33KV AGRA	GR 4					49.2		
	INDORE	DEPALPUR 132	33KV	33KV GOKULPUR	GR 4	MAKE -ASHIDA TYPE -AUOFMR2 Sr.No.031FR042	Sr.No.031FR042			49.2		
21	INDORE	GOUTAMPURA 132	33KV	33KV GAUTAMPURA	GR 5	Make Avana Type NPH222 Sr No AP155631	Sr No AP155631	05.09.17		49.4		
	INDORE	GOUTAMPURA 132	33KV	33KV KADAUDA	GR 2					49.2		
	INDORE	GOUTAMPURA 132	33KV	33KV PADALIYA	GR 3					49.2		
	INDORE	GOUTAMPURA 132	33KV	33KV GIROTA	GR 3					49.2		
	INDORE	GOUTAMPURA 132	33KV	33KV GOKULPUR	GR 2					49.2		
22	INDORE	DHAMNOD 132	33KV	DHAMNOD	V-A D-6	JVS	JRF-014	14-0969/02	26.07.18	49.2		
	INDORE	DHAMNOD 132	33KV	INDUSTRIAL	IX D-6							
	INDORE	DHAMNOD 132	33KV	MAHESHWAR	IV D-4							
	INDORE	DHAMNOD 132	33KV	GUJARI	II D-6							
	INDORE	DHAMNOD 132	33KV	BPCL	IX D-6							
	INDORE	DHAMNOD 132	33KV	NVDA	Not Allotted							
23	INDORE	MANGLIYA 220	33KV	33KV MAHALAXMI	IX	JVS	JRF014	12-4480/14	24.02.2018			
	INDORE	MANGLIYA 220	33KV	33KV SETELITE	IX							
	INDORE	MANGLIYA 220	33KV	33KV BHONDWAS	II					49.2		
	INDORE	MANGLIYA 220	33KV	33KV INDUSTRIAL	IX							
	INDORE	MANGLIYA 220	33KV	33KV BOMBAY HOSPITAL	VIII					49.97		
	INDORE	MANGLIYA 220	33KV	33KV RUCHI SOYA	IX							
	INDORE	MANGLIYA 220	33KV	33KV MANGLIYA	VIII					49.97		
24	INDORE	RAUKHEDI 132	33KV	DLF-1	VIII	JVS	AUX.SUP75-150 V ACDC	12-4480/13	10.10.2017	49.97		
	INDORE	RAUKHEDI 132	33KV	DLF2	VIII							
	INDORE	RAUKHEDI 132	33KV	BUDI BARLAI	II							
	INDORE	RAUKHEDI 132	33KV	BHONDWAS	II							
	INDORE	RAUKHEDI 132	33KV	PANTHER-3	VIII							
	INDORE	RAUKHEDI 132	33KV	PANTHER -4	VIII							
25	INDORE	JETAPURA (PALASIYA) 132	33KV	INTEK WELL WATER WORKS	VII-A							
	INDORE	JETAPURA (PALASIYA) 132	33KV	AKVN-I	X-A							
	INDORE	JETAPURA (PALASIYA) 132	33KV	AKVN-II	X-A							
26	INDORE	PITHAMPUR (SECT-III) 220	132	132KV BRIDGE STONE	N/A	Make JVS Electronics Pvt. Ltd. Bangalore india 52	JRF 014	16-0370/51	13.12.2019			
	INDORE	PITHAMPUR (SECT-III) 220	132	132KV HML	GR-13					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	132	132KV S.R.F.	N/A					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV METALMAN NO-I	GR-13					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV METALMAN NO-II	GR-13					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV NOVINO	GR-13					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV CHIRAG	GR-13					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV GIRNAR	GR-13					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV SAGORE	GR - 7					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV PRATIBHA	GR-13					48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV SEZ-II	GR - 9					48.6		

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Not in Circuit due to  
industrial feeder

	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV SEZ-I	GR - 9				48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	L.T.INDUSTRIES	GR - 7A				48.6		
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV APPERAL PARK							
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV SEZ-III	GR - 9						
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV RATHI STEEL	GR - 10						
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV MITTAL CORP-2	GR - 9						
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV S.R.F	GR-13						
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV SHIVANGI	GR-13						
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV ARTI INDUSTRIES	GR - 9						
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV AKVN-I	N/A						
	INDORE	PITHAMPUR (SECT-III) 220	33KV	33KV AKVN-II	N/A						
27	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV BAJAJ TEMPO	GR-13	Make JVS Electronics S.N. 16-0283/77	S.N. 16-0283/78	10.06.17			
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV PRESTIJ METAL	GR-13						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV KINETIC HONDA	GR-13						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV NICHOLUS	GR-13						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV LT IND.	GR-13						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV RAJ RATAN	GR-13						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV SAGORE	GR-7 A						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV MANPUR	GR-4						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV KRITI	13						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV EICHER	13						
	INDORE	PITHAMPUR (SECT-I) 220	33KV	33KV RAHSHREE	13						
28	INDORE	BETMA 132	33KV	33KV BETMA	GR 6	MAKE-JVS TYPE- JRF-014 Sr.No. 0815292	TYPE- JRF-014 Sr.No. 0815292	01.04.2019	49.2		
	INDORE	BETMA 132	33KV	33KV CHIKLONDA	GR 4				49.2		
	INDORE	BETMA 132	33KV	33KV GOHAN	GR 4				49.2		
	INDORE	BETMA 132	33KV	33KV INDUSTRIAL	GR - 13				49.2		
	INDORE	BETMA 132	33KV	33KV BUALPUR I	GR - 7A				49.2		
	INDORE	BETMA 132	33KV	33KV BIJALPUR II	GR - 7A				49.2		
	INDORE	BETMA 132	33KV	33KV IT PARK I	GR 9				49.2		
	INDORE	BETMA 132	33KV	33KV IT PARK II	GR 10				49.2		
	INDORE	BETMA 132	33KV	33KV GAWLA	GR 4				49.2		
1	UJJAIN	UJJAIN 220	33KV	33KV GHATIYA	IV	JVS	JRF014-2	16-0370/19	01.08.17	49.2 Hz inst.	NA
2	UJJAIN	UJJAIN 220	33KV	33KV GARHKALIKA-I	VIII	JVS	JRF014-2	16-0370/19	01.08.17	49.2 Hz inst.	NA
3	UJJAIN	UJJAIN 220	33KV	33KV GARHKALIKA-II	VIII	JVS	JRF014-2	16-0370/19	01.08.17	49.2 Hz inst.	NA
4	UJJAIN	UJJAIN 220	33KV	33KV VIJAYGANJ MANDI	II	JVS	JRF014-2	16-0370/40	01.08.17	49.2 Hz inst.	NA
5	UJJAIN	UJJAIN 220	33KV	33KV NARWAR	III	JVS	JRF014-2	16-0370/40	01.08.17	49.2 Hz inst.	NA
6	UJJAIN	UJJAIN 220	33KV	33KV KSHIPRA VIHAR	II	JVS	JRF014-2	16-0370/61	01.08.17	49.2 Hz inst.	NA
7	UJJAIN	UJJAIN 220	33KV	33KV INTERCONNECTOR-II	IX	JVS	JRF014-2	16-0370/61	01.08.17	48.6 Hz inst.	NA
8	UJJAIN	UJJAIN 220	33KV	33KV RES	III	JVS	JRF014-2	16-0370/17	01.08.17	48.6 Hz inst.	NA
9	UJJAIN	UJJAIN 220	33KV	33KV L.O.C.L.	IX	JVS	JRF014-2	16-0370/17	01.08.17	48.6 Hz inst.	NA
10	UJJAIN	UJJAIN 220	33KV	33KV KAITHA	III	JVS	JRF014-2	16-0370/17	01.08.17	49.2 Hz inst.	NA
11	UJJAIN	UJJAIN 220	33KV	33KV MAHASWETA NAGAR -I	VIII	JVS	JRF014-2	16-0370/06	01.08.17	48.6 Hz inst.	NA
12	UJJAIN	UJJAIN 220	33KV	33KV INTERCONNECTOR-I	VIII	JVS	JRF014-2	16-0370/06	01.08.17	48.6 Hz inst.	NA
13	UJJAIN	UJJAIN 220	33KV	33KV MAHESWETA NAGAR -II	VIII	JVS	JRF014-2	16-0370/55	01.08.17	48.6 Hz inst.	NA
14	UJJAIN	UJJAIN 220	33KV	33KV JETHAL	IV	JVS	JRF014-2	16-0370/55	01.08.17	48.6 Hz inst.	NA
15	UJJAIN	UJJAIN 220	33KV	33KV PARSHWANATH	VIII	JVS	JRF014-2	16-0370/74	01.08.17	48.6 Hz inst.	NA
16	UJJAIN	UJJAIN 132	33KV	33KV SIMHASTHA	VIII	JVS	JRF014	09-3761/1	17.07.17	48.6 Hz inst.	NA
17	UJJAIN	UJJAIN 132	33KV	33KV MAXI ROAD	VIII	JVS	JRF014	09-3761/1	17.07.17	48.6 Hz inst.	NA
18	UJJAIN	UJJAIN 132	33KV	33KV VIKRAM KIRTI MANDIR	VIII	JVS	JRF014	09-3761/1	17.07.17	48.6 Hz inst.	NA
19	UJJAIN	UJJAIN 132	33KV	33KV INT./CONN. I	VIII	AWANA	NPH222	AP 145245	17.07.17	48.6 Hz inst.	NA
20	UJJAIN	UJJAIN 132	33KV	33KV INT./CONN. II	IX	AWANA	NPH222	AP 145245	17.07.17	48.6 Hz inst.	NA
21	UJJAIN	UJJAIN 132	33KV	33KV KHEDAPATI 33KV	VIII	AWANA	NPH222	AP 145245	17.07.17	48.6 Hz inst.	NA
22	UJJAIN	UJJAIN 132	33KV	33KV JYOTI NAGAR- I	VIII	AWANA	NPH222	AP 145245	17.07.17	48.6 Hz inst.	NA
23	UJJAIN	UJJAIN 132	33KV	33KV JYOTI NAGAR- II	VIII	AWANA	NPH222	AP 145245	17.07.17	48.6 Hz inst.	NA
24	UJJAIN	UJJAIN 132	33KV	33KV MUKHALAYAL	VIII	AWANA	NPH222	AP 145245	17.07.17	48.6 Hz inst.	NA
25	UJJAIN	UJJAIN 132	33KV	33KV BARNAGAR	IV	AWANA	NPH222	AP 145245	17.07.17	49.2 Hz inst.	NA
26	UJJAIN	AGAR 132	33KV	33KV AGAR 33KV	VII	JVS	JRF 014	10-10-4205/6	14.03.11	48.6 Hz inst.	NA
27	UJJAIN	AGAR 132	33KV	33KV KANAD 33KV	I	JVS	JRF 014	10-10-4205/6	14.03.11	49.2 Hz inst.	NA
28	UJJAIN	AGAR 132	33KV	33KV NALKHEDA 33KV	V	JVS	JRF 014	10-10-4205/6	14.03.11	49.2 Hz inst.	NA
29	UJJAIN	AGAR 132	33KV	33KV NIPNPA BAUNATH	VII	JVS	JRF 014	10-10-4205/6	14.03.11	48.6 Hz inst.	NA
30	UJJAIN	AGAR 132	33KV	33KV MADKOTA	I	JVS	JRF 014	10-10-4205/6	14.03.11	49.2 Hz inst.	NA
31	UJJAIN	AGAR 132	33KV	33KV TANODIYA 33KV	III	JVS	JRF 014	10-10-4205/6	14.03.11	49.2 Hz inst.	NA
32	UJJAIN	AGAR 132	33KV	33KV JHARDHA 33KV	IV	JVS	JRF 014	10-10-4205/6	14.03.11	49.2 Hz inst.	NA
33	UJJAIN	AGAR 132	33KV	33KV MOYA KHEDA 33KV	III	JVS	JRF 014	10-10-4205/6	14.03.11	49.2 Hz inst.	NA
34	UJJAIN	SUSNER 132	33KV	33KV SUSNER	V	JVS	JRF014-2	16-0370/58	29.07.17	49.2 Hz inst.	NA
35	Minutes of 83rd MTPR OCM		33KV	33KV NALKHEDA	V	JVS	JRF014-2	16-0489/22	29.07.17	49.2 Hz inst.	NA

36	UJJAIN	SUSNER 132	33KV	33KV AMLA	IV	JVS	JRF014-2	16-0489/22	29.07.17	49.2 Hz inst.	NA	
37	UJJAIN	SUSNER 132	33KV	33KV SOYAT	I	JVS	JRF014-2	16-0370/58	29.07.17	49.2 Hz inst.	NA	
38	UJJAIN	SUSNER 132	33KV	33KV MODI	I	JVS	JRF014-2	16-0370/58	29.07.17	49.2 Hz inst.	NA	
39	UJJAIN	SUSNER 132	33KV	33KV SOYAT-II	IV	JVS	JRF014-2	16-0370/77	29.07.17	49.2 Hz inst.	NA	
40	UJJAIN	RATIDYA 132	33KV	33KV PAN BIHAR	III	JVS	JRF014	F - 621464	06.08.07	49.2 Hz inst.	NA	
41	UJJAIN	RATIDYA 132	33KV	33KV DATT A KHADA-I	VIII	JVS	JRF014	F - 621464	06.08.07	48.6Hz inst.	NA	
42	UJJAIN	RATIDYA 132	33KV	33KV DATT A KHADA-II	VIII	JVS	JRF014	F - 621464	06.08.07	48.6 Hz inst.	NA	
43	UJJAIN	RATIDYA 132	33KV	33KV CHANDU KHEDI	IV	JVS	JRF014	F - 621464	06.08.07	48.6 Hz inst.	NA	
44	UJJAIN	RATIDYA 132	33KV	33KV 33KV RATDIYA	IV	JVS	JRF014	F - 621464	06.08.07	48.6 Hz inst.	NA	
45	UJJAIN	RATIDYA 132	33KV	33KV CHAKRAWADA	IV	JVS	JRF014	F - 621464	06.08.07	48.8 Hz inst.	NA	
46	UJJAIN	RATIDYA 132	33KV	33KV CHINTAMAN GANESH	IV	JVS	JRF014	F - 621464	06.08.07	48.6 Hz inst.	NA	
47	UJJAIN	RATIDYA 132	33KV	33KV 33KV TRIVANIBIHAIR	IV	JVS	JRF014	F - 621464	06.08.07	48.6 Hz inst.	NA	
48	UJJAIN	RATIDYA 132	33KV	33KV DATT A KHADA-III	VIII	JVS	JRF014	F - 621464	06.08.07	48.Hz Inst	NA	
49	UJJAIN	RATIDYA 132	33KV	33KV KARTIK MELA I	VIII	JVS	JRF014	F - 621467	14.07.17	48.6 Hz inst.	NA	
50	UJJAIN	RATIDYA 132	33KV	33KV 33KV KARTIK MELA -II	VIII	JVS	JRF014	F - 621467	14.07.17	48.6 Hz inst.	NA	
51	UJJAIN	RATIDYA 132	33KV	33KV VALLABH NAGAR	VIII	JVS	JRF014	F - 621467	14.07.17	48.6 Hz inst.	NA	
52	UJJAIN	RATIDYA 132	33KV	33KV AMBODIYA	VII-A	JVS	JRF014	F - 621467	14.07.17	48.6 Hz inst.	NA	
53	UJJAIN	GHONSLA 132	33KV	33KV JAGOTI	IV	JVS	JRF014	F - 0815285	02.02.10	49.2 Hz inst.	NA	
54	UJJAIN	GHONSLA 132	33KV	33KV GHONSLA	IV	JVS	JRF014	F - 0815285	02.02.10	49.2 Hz inst.	NA	
55	UJJAIN	GHONSLA 132	33KV	33KV GHATIYA	V-A	JVS	JRF014	F - 0815285	02.02.10	49.2 Hz inst.	NA	
56	UJJAIN	GHONSLA 132	33KV	33KV BICHHOD	III	JVS	JRF014	F - 0815285	02.02.10	49.2 Hz inst.	NA	
57	UJJAIN	GHONSLA 132	33KV	33KV NAVODAY	IX	JVS	JRF014	F - 0815285	02.02.10	48.6 Hz inst.	NA	
58	UJJAIN	GHONSLA 132	33KV	33KV KHEDA KHAJURIYA	IV	JVS	JRF014	F - 0815285	02.02.10	49.2 Hz inst.	NA	
59	UJJAIN	GHONSLA 132	33KV	33KV DHABLA GORI	IV	JVS	JRF014	F - 0815286	02.02.11	49.2 Hz inst.	NA	
60	UJJAIN	BAROD 220	33KV	33KV BAROD	V-A	JVS	JRF014	F - 621474	23.01.10	49.2 Hz inst.	NA	
61	UJJAIN	BAROD 220	33KV	33KV BAPCHA	I	JVS	JRF014	F - 621474	23.01.10	49.2 Hz inst.	NA	
62	UJJAIN	BAROD 220	33KV	33KV MADKOTA	IV	JVS	JRF014	F - 621474	23.01.10	49.2 Hz inst.	NA	
63	UJJAIN	BAROD 220	33KV	33KV GURADIYA	IV	JVS	JRF014	F - 621474	23.01.10	49.2 Hz inst.	NA	
64	UJJAIN	BHERUGARH 132	33KV	33KV PAN BIHAR 33KV	I	AWANA	NPH222	AP-145465	14.07.15	49.2 Hz inst.	NA	
65	UJJAIN	BHERUGARH 132	33KV	33KV GARHKALIKA	VIII	AWANA	NPH222	AP-145465	25.06.15	48.6 Hz inst.	NA	
66	UJJAIN	BHERUGARH 132	33KV	33KV KAMED33KV	I	AWANA	NPH222	AP-145465	11.09.15	49.2 Hz inst.	NA	
67	UJJAIN	BHERUGARH 132	33KV	33KV RAM GARH	I	AWANA	NPH222	AP-145465	11.09.15	49.2 Hz inst.	NA	
68	UJJAIN	BHERUGARH 132	33KV	33KV JETHAL	IX	AWANA	NPH222	AP-145465	25.06.16	48.6 Hz inst.	NA	
69	UJJAIN	BHERUGARH 132	33KV	33KV 33KV SIDHBHATT	VIII	AWANA	NPH222	AP-145465	14.07.16	48.6 Hz inst.	NA	
70	UJJAIN	NALKHEDA 220	33KV	33KV KACHNARIYA	III	AWANA	NPH222	AP-150918	04.11.15	49.2 Hz inst.	NA	
71	UJJAIN	NALKHEDA 220	33KV	33KV LASULDIA	IV	AWANA	NPH222	AP-150918	04.11.15	49.2 Hz inst.	NA	
72	UJJAIN	NALKHEDA 220	33KV	33KV NALKHEDA	IV	AWANA	NPH223	AP-150918	04.11.15	49.2 Hz inst.	NA	
73	UJJAIN	NALKHEDA 220	33KV	33KV DHAROLA	III	AWANA	NPH222	AP-150918	04.11.15	49.2 Hz inst.	NA	
74	UJJAIN	DEWAS 220	33KV	33KV MAAA CHAMUNDA	7	AVANA	NPH222	AP135521	24/04/2017	48.8 Hz	NIL	
75	UJJAIN	DEWAS 220	33KV	33KV BAIRAGARH	7						NIL	
76	UJJAIN	DEWAS 220	33KV	33KV BHOPAL ROAD	7	AVANA	NPH222	AST0101A	03/08/2017	48.8 Hz	NIL	
77	UJJAIN	DEWAS 220	33KV	33KV DEWAS VIKAS PRADHIKARAN	7						NIL	
78	UJJAIN	DEWAS 220	33KV	33KV PANDA JAGR	1	AVANA	NPH222	AP135516	20/11/2013	49.4 Hz	NIL	
79	UJJAIN	DEWAS 220	33KV	33KV BAROTHA	1						NIL	
80	UJJAIN	BNP DEWAS 132	33KV	33KV TONK KHURD	1	JVS	11014	13-2262/33	28/07/2017	49.4 Hz	NIL	
81	UJJAIN	BNP DEWAS 132	33KV	33KV D.R.P.	7	JVS	11014	13-2262/15	28/07/2017	48.8 Hz	NIL	
82	UJJAIN	BNP DEWAS 132	33KV	33KV DEWAS	7						NIL	
83	UJJAIN	BNP DEWAS 132	33KV	33KV BHOURASA	7A	JVS	11014	13-2262/33	28/07/2017	48.8 Hz	NIL	
84	UJJAIN	BNP DEWAS 132	33KV	33KV SIYA	7						NIL	
85	UJJAIN	MSP DEWAS 132	33KV	33KV SINGAWADA	2	JVS	JR-014	13-1855/2	22/07/2017	49.4 Hz	NIL	
86	UJJAIN	MSP DEWAS 132	33KV	33KV BAIRAGARG	2						NIL	
87	UJJAIN	MSP DEWAS 132	33KV	33KV KSHIPRA	7	AVANA	NPH222	AP135519	02/11/2013	48.8 Hz	NIL	
88	UJJAIN	MSP DEWAS 132	33KV	33KV MAENDKI CHUCK	7	JVS	JRF-014-2	18-0370/76	22/07/2017		NIL	
89	UJJAIN	MSP DEWAS 132	33KV	33KV CIVIL LINES	7	JVS	JRF-014-2	18-0370/50	22/07/2017	48.6 Hz	NIL	
90	UJJAIN	CHAPDA 132	33KV	33KV DEVGARH	1	AVANA	NPH222	AP135509	25/07/2017	49.4 Hz	NIL	
91	UJJAIN	CHAPDA 132	33KV	33KV BORKHALIYA	1						NIL	
92	UJJAIN	CHAPDA 132	33KV	33KV NEORY	1						NIL	
93	UJJAIN	CHAPDA 132	33KV	33KV KAMLAPUR	1						NIL	
94	UJJAIN	CHAPDA 132	33KV	33KV CHAPDA	1						NIL	
95	UJJAIN	CHAPDA 132	33KV	33KV NHDC	4						NIL	
96	UJJAIN	CHAPDA 132	33KV	33KV DOUBLE CHOUKI	4						NIL	
97	UJJAIN	CHAPDA 132	33KV	33KV KARNAWAD	4						NIL	
98	UJJAIN	MAKSI 132	33KV	33KV PIPLIYA SADAK	3	JVS	16-0283/ 47	JRF014	26/07/2017	49.0 Hz.	NIL	
99	UJJAIN	MAKSI 132	33KV	33KV DEVLI	5						NIL	
100	UJJAIN	MAKSI 132	33KV	33KV ZOKAR	1	JVS	13-1855/ 16	JRF014	26/07/2017	49.0 Hz	NIL	
101	UJJAIN	Minutes of 83rd M&P OCCM	33KV	33KV MAKSI	6		54					

U/F relay settings  
revised as per CE (T&C)  
latter No. 04-01/07  
Jabalpur dt.01/04/19

102	UJJAIN	SONKATCH 132	33KV	33KVM TALOD	2	JVS	JRV 181/A	160008297	28/07/2017	49.4 Hz	NIL	
103	UJJAIN	SONKATCH 132	33KV	33KV KHERIA JAGR	3						NIL	
104	UJJAIN	SONKATCH 132	33KV	33KV GANDHARVPURI	5						NIL	
105	UJJAIN	SONKATCH 132	33KV	33KV PHAWADA	2						NIL	
106	UJJAIN	SONKATCH 132	33KV	33KV EKLERA	1						NIL	
107	UJJAIN	SONKATCH 132	33KV	33KV SONKATCH	5						NIL	
108	UJJAIN	BAROTHA 132	33KV	33KV BAROTHA	1	JVS	JRF-014	124480/4	11/11/2014	49.4 Hz	NIL	
109	UJJAIN	BAROTHA 132	33KV	33KV SANNOD	3						NIL	
110	UJJAIN	BAROTHA 132	33KV	33KV SIROLIYA	1						NIL	
111	UJJAIN	BAROTHA 132	33KV	33KV NEORY	1						NIL	
112	UJJAIN	KISANGARH 132	33KV	33KV UDAYNAGAR	4	JVS	JRF-014	140499/1	03/08/2017	49.4 Hz	NIL	
113	UJJAIN	KISANGARH 132	33KV	33KV PUNJAPURA	4						NIL	
114	UJJAIN	KISANGARH 132	33KV	33KV PIPRI	3						NIL	
115	UJJAIN	KISANGARH 132	33KV	33KV RATA TALAI	2						NIL	
116	UJJAIN	SHANKARGARH 132	33KV	33KV KELOD	2	JVS	JRV-181/A	124480/10	03/07/2016	49.4 Hz	NIL	
117	UJJAIN	SHANKARGARH 132	33KV	33KV BARKHEDA	1						NIL	
118	UJJAIN	KALAPIPAL 132	33KV	33KV NANDNI (U/F)	Group No. -4	JVS electronics	Numerical relay	14-2078/11	22/12/2015	49.00 Hz		
119	UJJAIN	KALAPIPAL 132	33KV	33KV KALAPIPAL (U/F)								
120	UJJAIN	KALAPIPAL 132	33KV	33KV GHATTI (U/F)								
121	UJJAIN	KALAPIPAL 132	33KV	33KV LASURIYA GORI (U/F)								
122	UJJAIN	MOMAN BARODIYA 132	33KV	33KV BARODIYA (U/F)	(Group No. -5)	JVS electronics	Numerical relay	16-0370/33	05/08/2017	49.00 Hz		
123	UJJAIN	MOMAN BARODIYA 132	33KV	33KV SADIPURA (U/F)								
124	UJJAIN	MOMAN BARODIYA 132	33KV	33KV MOHNA (U/F)								
125	UJJAIN	MOMAN BARODIYA 132	33KV	33KV MONDOUDA (U/F)								
126	UJJAIN	MOMAN BARODIYA 132	33KV	33KV NAGZIRI(U/F)	(Group No. -6)	JVS electronics	Numerical relay	16-0370/63	16/03/2017	49.00 Hz		
127	UJJAIN	SHUJALPUR 132	33KV	33KV JAMNER (U/F)								
128	UJJAIN	SHUJALPUR 132	33KV	33KV BERAWAL (U/F)								
129	UJJAIN	SHUJALPUR 132	33KV	33KV TOWN (U/F)								
130	UJJAIN	SHUJALPUR 132	33KV	33KV PIPLIYA(U/F)	(Group No. -7)	JVS electronics	Numerical relay	16-0370/56	16/03/2017	49.00 Hz		
131	UJJAIN	SHUJALPUR 132	33KV	33KV AKODIYA(U/F)								
132	UJJAIN	SHUJALPUR 132	33KV	33KV INDUSTRIAL - I (U/F)							48.80 Hz	
133	UJJAIN	PANWADI 132	33KV	33KV PANWADI (U/F)	(Group No. -8)	Ashida	Numerical relay	13-1855/24	21/08/2017	49.00 Hz		
134	UJJAIN	PANWADI 132	33KV	33KV MADANA(U/F)								
135	UJJAIN	PANWADI 132	33KV	33KV SARANGPUR (U/F)								
136	UJJAIN	PANWADI 132	33KV	33KV NICHPA (U/F)								
137	UJJAIN	PANWADI 132	33KV	33KV SILSSALAI (U/F)	(Group No. -9)	JVS electronics	Numerical relay	16-0370/80	02/03/2012	49.00 Hz		
138	UJJAIN	BERCHHA 132	33KV	33KV SHETKHEDI (U/F)								
139	UJJAIN	BERCHHA 132	33KV	33KV SUDERSHI (U/F)								
140	UJJAIN	BERCHHA 132	33KV	33 KV LAHORI (U/F)								
141	UJJAIN	BERCHHA 132	33KV	33KV BERCCHA (U/F)	(Group No. -10)	JVS electronics	Numerical relay	16-0370/48	24/11/2016	48.80 Hz		
142	UJJAIN	BERCHHA 132	33KV	33KV M&B SWITCHGEAR (U/F)								
143	UJJAIN	SHUJALPUR 220	33KV	33KV NANDNI (DF/DT & U/F)		JVS electronics	Numerical relay	16-0370/62	27.01.2021	49.00Hz		
144	UJJAIN	SHUJALPUR 220	33KV	33KV RAIPUR (DF/DT & UF)								
145	UJJAIN	SHUJALPUR 220	33KV	33KV HALDAI								
146	UJJAIN	SHUJALPUR 220	33KV	33KV JETHDA								
147	UJJAIN	SHUJALPUR 220	33KV	33KV SHUJALPUR	(Group No. -11)	JVS electronics	Numerical relay	13-1295/8	16.12.2015	48.80 HZ		
148	UJJAIN	SHAJAPUR 220	33KV	33KV COLONY								
149	UJJAIN	SHAJAPUR 220	33KV	33KV BERCHHA ROAD								
150	UJJAIN	SHAJAPUR 220	33KV	33KV AKIYA CHOUHANI								
151	UJJAIN	SHAJAPUR 220	33KV	33KV KANASIYA	(Group No. -12)	JVS electronics	Numerical relay	16-0370/70 ,		49.00 HZ		
152	UJJAIN	SHAJAPUR 132	33KV	33KV SHAJAPUR								
153	UJJAIN	SHAJAPUR 132	33KV	33KV MULLAKHEDI		JVS electronics	Numerical relay	16-0283/52		48.80 Hz		
154	UJJAIN	SHAJAPUR 132	33KV	33KV HEERPURTEKA								
155	UJJAIN	SHAJAPUR 132	33KV	33KV DUPADA								
156	UJJAIN	SHAJAPUR 132	33KV	33KV SANKERPURE								
157	UJJAIN	SHAJAPUR 132	33KV	33KV KANASIYA	(Group No. -13)	JVS electronics	Numerical relay	16-0370/70 ,		49.00Hz		
158	UJJAIN	SHAJAPUR 132	33KV	33KV LALGHATI SHAJAPUR								
159	UJJAIN	SHAJAPUR 132	33KV	33KV MURADPURA								
160	UJJAIN	TARANA 132	33KV	33KV TARANA								
161	UJJAIN	TARANA 132	33KV	33KV KAITHA	II	JVS	JRF014	F-724017	24.07.17	49.2 Hz inst.	NA	
162	UJJAIN	TARANA 132	33KV	33KV KHARPA	II	JVS	JRF014	F-724017	24.07.17	49.2 Hz inst.	NA	
163	UJJAIN	TARANA 132	33KV	33KV TARANA - R	II	JVS	JRF014	F-724017	24.07.17	49.2 Hz inst.	NA	
164	UJJAIN	TARANA 132	33KV	33KV RUPAKHEDI	II	ASHIDA	JRF014	16-0370/39	24.07.17	49.2 Hz inst.	NA	
165	UJJAIN	MAKDON 132	33KV	33KV MAKDON	IV	JVS	JRF014	F-0815288	29.01.11	49.2 Hz inst.	NA	
166	UJJAIN	MAKDON 132	33KV	33KV NANDED	IV	JVS	JRF014	F-0815288	29.01.11	49.2 Hz inst.	NA	
167	UJJAIN	MAKDON 132	33KV	33KV RAMDI	III	JVS	JRF014	F-0815288	29.01.11	49.2 Hz inst.	NA	
168	Minutes at 83rd MANDONGCM		33KV	33KV GATA	III	JV55	JRF014	F-0815288	29.01.11	49.2 Hz inst.	NA	

169	UJJAIN	MAKDON 132	33KV	33KV RUPAKHEDI	III	JVS	JRF014	16-0489/51	17.07.17	49.2 Hz inst.	NA			
170	UJJAIN	VIKRAM UDHYOGPURI 132	33KV	33KV NEW MADHOPUR	IX	JVS	JRF014	18-1513/2	27.11.19	49.2 Hz inst.	NA			
171	UJJAIN	VIKRAM UDHYOGPURI 132	33KV	33KV VIKRAM UDHYOGPURI	II	JVS	JRF014	18-1513/2	27.11.19	49.2 Hz inst.	NA			
172	UJJAIN	AGROD 132	33KV	33KV AGROD	I	JVS	JRF-014 /2	16-0370/30	07/04/2019	49.4 Hz	NIL			
173	UJJAIN	AGROD 132	33KV	33KV MADHOPUR	II	JVS	JRF-014 /2	16-0370/30	07/04/2019	49.4 Hz	NIL			
174	UJJAIN	AGROD 132	33KV	33KV LOHANA	I	JVS	JRF-014 /2	16-0370/30	07/04/2019	49.4 Hz	NIL			
175	UJJAIN	AGROD 132	33KV	33KV VIJAYAGANJ MANDI	II	JVS	JRF-014 /2	16-0370/30	07/04/2019	49.4 Hz	NIL			
1	BHOPAL 400	BAIRAGARH 220	33KV	33KV CHANDUKEDI	VII A	Make- JVS Electronics, Type- JRF014 Sr No. F623986				48.8 Hz	Last revision carried out on 10/04/2019 vide CE(T&C) Letter dt 01/04/19	wef 01.04.2019 (49.2 Hz Monday & Friday) „(48.8 Hz Wednesday & Sunday)		
2	BHOPAL 400	BAIRAGARH 220	33KV	33KV AERODRUM	VIII					48.8 Hz				
3	BHOPAL 400	BAIRAGARH 220	33KV	33KV RAKSHVIHAR	VIII					48.8 Hz				
4	BHOPAL 400	BAIRAGARH 220	33KV	33KV 3EME	VIII					48.8 Hz				
5	BHOPAL 400	BAIRAGARH 220	33KV	33KV IISER-I	VIII					48.8 Hz				
6	BHOPAL 400	BAIRAGARH 220	33KV	33KV RAJABHOJ	VIII					48.8 Hz				
7	BHOPAL 400	BAIRAGARH 220	33KV	33KV TARASEWANIYA	IV					49.2 Hz				
8	BHOPAL 400	BAIRAGARH 220	33KV	33KV ITKHEDI	IV					49.2 Hz				
9	BHOPAL 400	BAIRAGARH 220	33KV	33KV PARWALIYA	IV					49.2 Hz				
10	BHOPAL 400	BAIRAGARH 220	33KV	33KV AKVN-I	IX					49.2 Hz				
11	BHOPAL 400	BAIRAGARH 220	33KV	33KV AKVN-II	IX					49.2 Hz				
12	BHOPAL 400	BAIRAGARH 220	33KV	33KV NTRO	VII A					48.8 Hz				
13	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV DAMKHEDA I	VIII	ASHIDA AUOFMR2 Sr.No. 03/FR014				48.8 Hz	wef 01.04.2019 (49.2 Hz Monday & Friday) „(48.8 Hz Wednesday & Sunday)			
14	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV DAMKHEDA II	VIII					48.8 Hz				
15	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV NARBADA	VIIA					48.8 Hz				
16	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV BMC	VIIA					48.8 Hz				
17	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV INTERCONNECTER	VIII					48.8 Hz				
18	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV ISTRAC	VIIA					48.8 Hz				
19	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV ISRO	VII A					48.8 Hz				
20	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV DGP	VIII					48.8 Hz				
21	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV TIRUPATI ABHINAV	VIII					48.8 Hz				
22	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV MAHOLI 1	VIII					48.8 Hz				
23	BHOPAL 400	AYODHYA NAGAR 132	33KV	33KV MAHOLI 2	VIII					48.8 Hz				
24	BHOPAL 400	LALGHATI 132	33KV	33KV KHAJUDISADAK	IV	JVS	JRF-014	16-0283/76	04.10.2013	49.2	wef 01.04.2019 (49.2 Hz Monday & Friday) „(48.8 Hz Wednesday & Sunday)			
25	BHOPAL 400	LALGHATI 132	33KV	33KV BHADBHDHA-1	VIII					48.8				
26	BHOPAL 400	LALGHATI 132	33KV	33KV BHADBHDHA-2	VIII					48.8				
27	BHOPAL 400	LALGHATI 132	33KV	33KV INTERCONNECTOR-1	VIII					48.8				
28	BHOPAL 400	LALGHATI 132	33KV	33KV SHYAMPUR	VIII					48.8				
29	BHOPAL 400	LALGHATI 132	33KV	33KV KMLANEHRU	VIII					48.8				
30	BHOPAL 400	LALGHATI 132	33KV	33KV LALGHATI-2	VIII					48.8				
31	BHOPAL 400	LALGHATI 132	33KV	33KV LALGHATI-1	VIII					48.8				
32	BHOPAL 400	LALGHATI 132	33KV	33KV LALGHATI-3	VIII					48.8				
33	BHOPAL 400	LALGHATI 132	33KV	33KV TELEPHONE EXCH.	VIII					48.8				
34	BHOPAL 400	LALGHATI 132	33KV	33KV MES NEORI	VIII					48.8				
35	BHOPAL 400	LALGHATI 132	33KV	33KV INTERCONNECTOR-2	VIII					48.8				
36	BHOPAL 400	LALGHATI 132	33KV	33KV GMC/ HAMIDIA	VIII	New feeder charged on 06.06.2022, Make- JVS Electronics, Type- JRF014 Sr No. 18-1397/15				48.8 Hz	wef 01.04.2019 (49.2 Hz Monday & Friday) „(48.8 Hz Wednesday & Sunday)			
37	BHOPAL 400	IT PARK 132	33KV	33KV TRUBA	VIII					48.8 Hz				
38	BHOPAL 400	IT PARK 132	33KV	33KV IT PARK	VIII					48.8 Hz				
39	BHOPAL 400	IT PARK 132	33KV	33KV PIPALNER	VIII					48.8 Hz				
40	BHOPAL 400	IT PARK 132	33KV	33KV NAI BASTI	VIII					48.8 Hz				
41	BHOPAL 400	IT PARK 132	33KV	33KV AERO CITY	VIII					48.8 Hz				
42	BHOPAL 400	IT PARK 132	33KV	33KV BHAGAT SINGH MULTI	VIII					48.8 Hz				
43	BHOPAL 400	EINTKHEDI 132	33KV	33KV ENTKHEDI II	I	AVANA ASP0101A	19/09/2020	018-1397/6	25.05.2021	48.8 Hz	Last revision carried out on 25.05.21.20 vide CE LD Letter dt 01/04/19			
44	BHOPAL 400	EINTKHEDI 132	33KV	33KV SUKHISEWANIYA	II					48.8 Hz				
45	BHOPAL 400	EINTKHEDI 132	33KV	33KV AKVN ACHARPURA	IX					48.8 Hz				
46	BHOPAL 400	EINTKHEDI 132	33KV	33KV RATUWA	1					48.8 Hz				
47	BHOPAL 400	ADAMPUR 220	33KV	33KV AYODHYA	VIII					48.8 Hz				
48	BHOPAL 400	ADAMPUR 220	33KV	33KV RAJEEV NAGAR	VIII					48.8 Hz				
49	BHOPAL 400	ADAMPUR 220	33KV	33KV KALYANPUR-2	IV					48.8 Hz				
50	BHOPAL 400	ADAMPUR 220	33KV	33KV DGP-2	IX					48.8 Hz				
51	BHOPAL 400	ADAMPUR 220	33KV	33KV KOKTA-I						48.8 Hz				
52	BHOPAL 400	ADAMPUR 220	33KV	33KV KOKTA -II						48.8 Hz				
53	BHOPAL 400	RAISEN 132	33KV	33KV PAGNESHWAR	9	JVS F 0815279	TYPE-JRF-014	09/04/2019	56	EXEMPTED	The revision of AUFLS has been done as per the CE(T&C) Jbp letter no. 07 dt. 01/04/2019			
54	BHOPAL 400	RAISEN 132	33KV	33KV RAISEN	7					48.8				
55	BHOPAL 400	RAISEN 132	33KV	33KV GAIRATGANJ	1					49				
56	BHOPAL 400	RAISEN 132	33KV	33KV NAKTARA	2					49				
57	BHOPAL 400	RAISEN 132	33KV	33KV BARLA	1					49				
58	BHOPAL 400	RAISEN 132	33KV	33KV NEEMKHEDA	4					49				
59	BHOPAL 400	RAISEN 132	33KV	33KV PAIMAD	2					49				

60	BHOPAL 400	RAISEN 132	33KV	33KV SULTANPUR	6				49	-	
61	BHOPAL 400	MANDIDEEP 132	33KV	33KV BHOPAL-I	8				48.8	-	
62	BHOPAL 400	MANDIDEEP 132	33KV	33KV BHOPAL-II	8				48.8	-	
63	BHOPAL 400	MANDIDEEP 132	33KV	33KV BHASKAR	7A				EXEMPTED	-	
64	BHOPAL 400	MANDIDEEP 132	33KV	33KV SUCHITA	7A				EXEMPTED	-	
65	BHOPAL 400	MANDIDEEP 132	33KV	33KV GODREJ	13				EXEMPTED	-	
66	BHOPAL 400	MANDIDEEP 132	33KV	33KV BANSAL	13				EXEMPTED	-	
67	BHOPAL 400	MANDIDEEP 132	33KV	33KV KOLAR	13				EXEMPTED	-	
68	BHOPAL 400	MANDIDEEP 132	33KV	33KV INDUSTRIAL 1	13				EXEMPTED	-	
69	BHOPAL 400	MANDIDEEP 132	33KV	33KV INDUSTRIAL 2	13				EXEMPTED	-	
70	BHOPAL 400	MANDIDEEP 132	33KV	33KV INDUSTRIAL 3	13				EXEMPTED	-	
71	BHOPAL 400	MANDIDEEP 132	33KV	33KV RAMAKHEDI	4				49.2	-	
72	BHOPAL 400	MANDIDEEP 132	33KV	33KV INTER CONNECTOR-IV	-				-	-	
73	BHOPAL 400	MANDIDEEP 132	33KV	33KV DAHOD	-				-	-	
74	BHOPAL 400	MACT BHOPAL 132	33KV	33KV CHAMBAL - I	8				48.8	-	
75	BHOPAL 400	MACT BHOPAL 132	33KV	33KV CHAMBAL - II	8				48.8	-	
76	BHOPAL 400	MACT BHOPAL 132	33KV	33KV SHAHPURA - I	8				48.8	-	
77	BHOPAL 400	MACT BHOPAL 132	33KV	33KV SHAHPURA - II	8				48.8	-	
78	BHOPAL 400	MACT BHOPAL 132	33KV	33KV KOTRA - I	8				48.8	-	
79	BHOPAL 400	MACT BHOPAL 132	33KV	33KV KOTRA - II	8				48.8	-	
80	BHOPAL 400	MACT BHOPAL 132	33KV	33KV KOTRA - III	8				48.8	-	
81	BHOPAL 400	MACT BHOPAL 132	33KV	33KV RATIBAD	8				48.8	-	
82	BHOPAL 400	MACT BHOPAL 132	33KV	33KV KOLAR	8				48.8	-	
83	BHOPAL 400	MACT BHOPAL 132	33KV	33KV REVERA TOWN	8				48.8	-	
84	BHOPAL 400	MACT BHOPAL 132	33KV	33KV NJA	8				48.8	-	
85	BHOPAL 400	MACT BHOPAL 132	33KV	33KV BAIRAGARH CHICHLI NO.1	8				48.8	-	
86	BHOPAL 400	MACT BHOPAL 132	33KV	33KV BADJIHIR	8				48.8	-	
87	BHOPAL 400	MACT BHOPAL 132	33KV	33KV DANISH HILLS	8				48.8	-	
88	BHOPAL 400	MACT BHOPAL 132	33KV	33KV BAIRAGARH CHICHLI NO.2	8				48.8	-	
89	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV REHTI	6				49.4	-	
90	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV NASRULLAGANJ 1	5A				49.4	-	
91	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV NASRULLAGANJ 2	5A				49.4	-	
92	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV MARDANPUR	4				49.4	-	
93	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV NEELKHANT	4				49.4	-	
94	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV LADHKUI	4				49.4	-	
95	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV SEMALPANI	4				49.4	-	
96	BHOPAL 400	NASRULLAGANJ 132	33KV	33KV KANKARIYA	6				49.4	-	
97	BHOPAL 400	MANDIDEEP 220	33KV	33KV SIMARI	6				49	-	
98	BHOPAL 400	MANDIDEEP 220	33KV	33KV ARJUN NAGAR	6A				49	-	
99	BHOPAL 400	MANDIDEEP 220	33KV	33KV DAWAT	13				EXEMPTED	-	
100	BHOPAL 400	MANDIDEEP 220	33KV	33KV RELIANCE	13				EXEMPTED	-	
101	BHOPAL 400	MANDIDEEP 220	33KV	33KV STARANG STEEL	13				EXEMPTED	-	
102	BHOPAL 400	MANDIDEEP 220	33KV	33KV INDUSTRIAL-4	13				EXEMPTED	-	
103	BHOPAL 400	MANDIDEEP 220	33KV	33KV INTERCONNECTOR 1	-				EXEMPTED	-	
104	BHOPAL 400	MANDIDEEP 220	33KV	33KV INTERCONNECTOR 2	-				EXEMPTED	-	
105	BHOPAL 400	MANDIDEEP 220	33KV	33KVMAHAPET -1	-				EXEMPTED	-	
106	BHOPAL 400	MANDIDEEP 220	33KV	33KVMAHAPET -2	-				EXEMPTED	-	
107	BHOPAL 400	MANDIDEEP 220	33KV	33KV INTERCONNECTOR 3	-				EXEMPTED	-	
108	BHOPAL 400	MANDIDEEP 220	33KV	33KV SAGR	-				EXEMPTED	-	
109	BHOPAL 400	MANDIDEEP 220	33KV	33KV PARLE	-				EXEMPTED	-	
110	BHOPAL 400	GOPALPUR 132	33KV	33KV GOPALPUR	4				49.4	-	
111	BHOPAL 400	GOPALPUR 132	33KV	33KV HAMIDGANJ	4				49.4	-	
112	BHOPAL 400	GOPALPUR 132	33KV	33KV VASUDEV	4				49.4	-	
113	BHOPAL 400	GOPALPUR 132	33KV	33KV GILLORE	4				49.4	-	
114	BHOPAL 400	GOPALPUR 132	33KV	33KV AE PHE	7A				49.4	-	
115	BHOPAL 400	TAMOT 132	33KV	33KV AKVN NO. I.	-				EXEMPTED	-	
116	BHOPAL 400	TAMOT 132	33KV	33KV AKVN NO. II.	-				EXEMPTED	-	
117	BHOPAL 400	TAMOT 132	33KV	33KV OBEDULLAH GANJ	-				49	-	
118	BHOPAL 400	TAMOT 132	33KV	33KV GOHAR GANJ	6				49	-	
119	BHOPAL 400	TAMOT 132	33KV	33KV PLASTIC PARK NO-1	-				EXEMPTED	-	
120	BHOPAL 400	TAMOT 132	33KV	33KV PLASTIC PARK NO-2	-				EXEMPTED	-	
121	BHOPAL 400	BAGRODA 132	33KV	33KV AKVN NO. I.	-				EXEMPTED	-	
122	BHOPAL 400	BAGRODA 132	33KV	33KV AKVN NO. II.	-				EXEMPTED	-	
123	BHOPAL 400	BAGRODA 132	33KV	33KV RAMAKHEDI	2				49.2	-	
124	BHOPAL 400	BAGRODA 132	33KV	33KV UMRAVGANJ	1				49.2	-	
125	BHOPAL 400	BAGRODA 132	33KV	33KV DURGA STEEL	-				-	-	
126	Minutes of 83rd MRC DOCM		33KV	33KV SOLANKI ENERGY	-				-	-	

127	BHOPAL 400	PATRAKAR COLONY 132	33KV	33KV SATPURA	8	JVS	JRF 014	10-10-5088/2	02.09.2021	48.8	-	In Circuit			
128	BHOPAL 400	PATRAKAR COLONY 132	33KV	33KV CHAR IMLI	8					48.8	-	In Circuit			
129	BHOPAL 400	PATRAKAR COLONY 132	33KV	33KV RAM MANDIR	8					48.8	-	In Circuit			
130	BHOPAL 400	PATRAKAR COLONY 132	33KV	33KV JAWAHAR CHOK	8					48.8	-	In Circuit			
131	BHOPAL 400	ASHTA 400	33KV	33KV CHINNOTHA	3										
132	BHOPAL 400	ASHTA 400	33KV	33KV JAWAR	6A										
133	BHOPAL 400	ASHTA 400	33KV	33KV KOTHARI	4										
134	BHOPAL 400	ASHTA 400	33KV	33KV AMLAHA	4										
135	BHOPAL 400	ASHTA 400	33KV	33KV SEWADA	4										
136	BHOPAL 400	ASHTA 400	33KV	33KV MAINA	4										
137	BHOPAL 400	ASHTA 400	33KV	33KV KAJLAS	4	JVS	JRF 014	13-1855/5	19/01/2017	49.4	0.10				
138	BHOPAL 400	ASHTA 400	33KV	33KV AMLAMAJU	4										
139	BHOPAL 400	ASHTA 132	33KV	33KV DODDI	3										
140	BHOPAL 400	ASHTA 132	33KV	33KV KILERAMA	4										
141	BHOPAL 400	ASHTA 132	33KV	33KV ASHTA	6A										
142	BHOPAL 400	ASHTA 132	33KV	33KV ICHHAWAR	2										
143	BHOPAL 400	ASHTA 132	33KV	33KV KHACHROD	2										
144	BHOPAL 400	ASHTA 132	33KV	33KV JAWAR	3										
145	BHOPAL 400	ASHTA 132	33KV	33KV LASUDITYA VIJAY SINGH	1										
146	BHOPAL 400	ASHTA 132	33KV	33KV NEW BAY KILERAMA-II	-										
147	BHOPAL 400	KANNOD 132	33KV	33KV BIJWAD	1	JVS	JRF 014	16-0283/1	21/02/2017	49.4	0.10				
148	BHOPAL 400	KANNOD 132	33KV	33KV KUSMANIYA	1	JVS	JRF 014	F0802366	28/11/2016	49.4	0.10				
149	BHOPAL 400	KANNOD 132	33KV	33KV OLAMBA	2	JVS	JRF 014	10-10-4205/5	48.80 Hz	0.1					
150	BHOPAL 400	KANNOD 132	33KV	33KV VIKRAMPUR	2	JVS	JRF 014	16-0283/53							
151	BHOPAL 400	KANNOD 132	33KV	33KV DEHRIYA	3	JVS	JRF 014	16-0283/53							
152	BHOPAL 400	KANNOD 132	33KV	33KV KANNOD	6	JVS	JRF 014	16-0283/53							
153	BHOPAL 400	POLAYKALAN 132	33KV	33KV POLAYKALAN	5	JVS	JRF 014	10-10-4205/5							
154	BHOPAL 400	POLAYKALAN 132	33KV	33KV AVANTIPUR BARODIYA	5										
155	BHOPAL 400	POLAYKALAN 132	33KV	33KV KHADI FEEDER	4										
156	BHOPAL 400	POLAYKALAN 132	33KV	33KV KHATSUR FEEDER	4										
157	BHOPAL 400	POLAYKALAN 132	33KV	33KV PIPALRAWA FEEDER	6										
158	BHOPAL 400	ARNIYAKALA 132	33KV	33KV ARNIYAKALA	4	JVS	JRF 014	F623903	26.10.2004	CH-1 49.0 & CH-2 49.2	0.1				
159	BHOPAL 400	ARNIYAKALA 132	33KV	33KV DHABLAGHOSI	4										
160	BHOPAL 400	ARNIYAKALA 132	33KV	33KV ARANDIYA	2										
161	BHOPAL 400	ARNIYAKALA 132	33KV	33KV POCHANER	1										
162	BHOPAL 400	ARNIYAKALA 132	33KV	33KV BERICHHADATAR	1										
163	BHOPAL 400	KHATEGAON 132	33KV	33KV KHATEGAON	5A	JVS	JRV181	16-0008266	19.03.2007	49.40	0.10				
164	BHOPAL 400	KHATEGAON 132	33KV	33KV M S K	7A	JVS	JRV181	16-0008266	26.04.2007	49.40	0.10				
165	BHOPAL 400	KHATEGAON 132	33KV	33KV NEMAWAR	9	JVS	JRV181	16-0008266	18.03.2007	49.40	0.10				
166	BHOPAL 400	KHATEGAON 132	33KV	33KV KOLARI	3	JVS	JRV181	16-0008266	12.03.2019	49.40	0.10				
167	BHOPAL 400	KHATEGAON 132	33KV	33KV SATTALAI	9	JVS	JRV181	16-0008266	19.02.2015	49.40	0.10				
168	BHOPAL 400	KHATEGAON 132	33KV	33KV AJNAS	9	JVS	JRV181	16-0008266	11.11.2013	49.40	0.10				
169	BHOPAL 400	KHATEGAON 132	33KV	33KV DEEPGAON	3	JVS	JRV181	16-0008266	18.05.2007	49.40	0.10				
170	BHOPAL 400	KHATEGAON 132	33KV	33KV SANDALPUR	2	JVS	JRV181	16-0008266	19.11.2011	49.40	0.10				
171	BHOPAL 400	KHATEGAON 132	33KV	33KV HARANGAON	9	JVS	JRV181	16-0008266	24.10.2020	49.40	0.10				
172	BHOPAL 400	KHATEGAON 132	33KV	33KV NVDA	-	JVS				49.40	0.10				
173	BHOPAL 400	SATWAS 132	33KV	33KV PALASI	01 TO 04	JRF 014	13-1295/3	20.10.2014	49.40	0.10					
174	BHOPAL 400	SATWAS 132	33KV	33KV SATWAS	6A										
175	BHOPAL 400	SATWAS 132	33KV	33KV PIPALKOTA	01 TO 04										
176	BHOPAL 400	SATWAS 132	33KV	33KV BAI JAGWADA	01 TO 04										
177	BHOPAL 400	SATWAS 132	33KV	33KV KANTAPHOD	5A										
178	BHOPAL 400	BARELI 132	33KV	33KV BARELI	5A	ALSTOM SL.33844627/10/16 TYPE - VAJ				49	-	The revision of AUFLS has been done as per the CE(T&C) Jbp letter no. 07 dt. 01/04/2019			
179	BHOPAL 400	BARELI 132	33KV	33KV NAYAGAON	5A					49	-				
180	BHOPAL 400	BARELI 132	33KV	33KV KUNDALI	4					49	-				
181	BHOPAL 400	BARELI 132	33KV	33KV PIPARIYA POUARIYA	4					49	-				
182	BHOPAL 400	BARELI 132	33KV	33KV HARSJI	4					49	-				
183	BHOPAL 400	BARELI 132	33KV	33KV KHARGONE	4					49	-				
184	BHOPAL 400	BARELI 132	33KV	33KV GURADIYA	4					49	-				
185	BHOPAL 400	BARELI 132	33KV	33KV BAGPIPARIYA	4					49	-				
186	BHOPAL 400	BARELI 132	33KV	33KV BARNA	5A					49	-				
187	BHOPAL 400	BARELI 132	33KV	33KV BORAS	4					49	-				
188	BHOPAL 400	BARELI 132	33KV	33KV MAHESHVAR ( ALIGANJ )	4	JVS	JRF014	F623900	22/11/10	49	-				
189	BHOPAL 400	BARELI 132	33KV	33KV DIMADA ( MANKAPUR )	4					49	-				
190	BHOPAL 400	PIPARIYA 220	33KV	33KV PIPARIYA SOUTH	3					49.2	0.2				
191	BHOPAL 400	PIPARIYA 220	33KV	33KV PIPARPANI	4					49.2	0.2				
192	BHOPAL 400	PIPARIYA 220	33KV	33KV MAHALANWARA	8					48.8	0.2				
193	Minutes of 83rd MRP@QCM					58				48.8	0.2				

194	BHOPAL 400	PIPARIYA 220	33KV	33KV FOOD PARK AKVN	9	Exumpted	Exumpted	Exumpted	Exumpted	Exumpted	
195	BHOPAL 400	BANKHEDI 132	33KV	33KV UMARDHA	4	JVS	JRF014	11-5261/5	27.09.12	49.2	0.2
196	BHOPAL 400	BANKHEDI 132	33KV	33KV CHANDON	3	JVS	JRF014	11-5261/5	27.09.12	49.2	0.2
197	BHOPAL 400	BANKHEDI 132	33KV	33KV BANKHEDI	5	JVS	JRF014	11-5261/5	27.09.12	49.2	0.2
198	BHOPAL 400	BANKHEDI 132	33KV	33KV MACHHERA	4	JVS	JRF014	11-5261/5	27.09.12	49.2	0.2
199	BHOPAL 400	BANKHEDI 132	33KV	33KV PANAGAR	4	AVANA	EMR 151	AE 151145	26.08.15	49	0.2
200	BHOPAL 400	BANKHEDI 132	33KV	33KV UMARDHA-II	4	AVANA	EMR 151	AE 151145	26.08.15	49.2	0.2
201	BHOPAL 400	BANKHEDI 132	33KV	33KV MALKAJRA	2	AVANA	EMR 151	AE 151145	26.08.15	49.2	0.2
202	BHOPAL 400	GAIRATGANJ 132	33KV	33KV BEGUMGANJ	6A	JVS F 70946 12-4480/17	SL NO. - TYPE- JRF 014	27/05/2019	49	-	The revision of AUFLS has been done as per the CE(T&C) Jbp letter no. 07 dt. 01/04/2019
203	BHOPAL 400	GAIRATGANJ 132	33KV	33KV GAIRATGANJ	6A				49	-	
204	BHOPAL 400	GAIRATGANJ 132	33KV	33KV SILWANI	6A				49	-	
205	BHOPAL 400	GAIRATGANJ 132	33KV	33KV DEHGAON	4				49	-	
206	BHOPAL 400	GAIRATGANJ 132	33KV	33KV DHANDIYA	6A				49	-	
207	BHOPAL 400	GAIRATGANJ 132	33KV	33KV SAMNAPUR	6A				49	-	
208	BHOPAL 400	UDAIPURA 132	33KV	33KV THALADIGAWAN	4				49	-	
209	BHOPAL 400	UDAIPURA 132	33KV	33KV BORAS	4	JVS 10-10-4205/11 TYPE- JRF 014	22/05/2019		49	-	The revision of AUFLS has been done as per the CE(T&C) Jbp letter no. 07 dt. 01/04/2019
210	BHOPAL 400	UDAIPURA 132	33KV	33KV UDAIPURA	6A				49	-	
211	BHOPAL 400	UDAIPURA 132	33KV	33KV VEEKALPUR	4				49	-	
212	BHOPAL 400	UDAIPURA 132	33KV	33KV NEW THALADIGAWAN	4				-	-	
213	BHOPAL 400	SILWANI 132	33KV	33KV SAI KHEDA	4				49	-	The revision of AUFLS has been done as per the CE(T&C) Jbp letter no. 07 dt. 01/04/2019
214	BHOPAL 400	SILWANI 132	33KV	33KV SILWANI	6				49	-	
215	BHOPAL 400	SILWANI 132	33KV	33KV BAKSHI	4				49	-	
216	BHOPAL 400	SILWANI 132	33KV	33KV FEDEER NO-4	-	JVS 18-1397/1 TYPE- 014	22/05/2019		-	-	
217	BHOPAL 400	SOHAGPUR 132	33KV	33KV CHARGWAON	II				-	-	
218	BHOPAL 400	SOHAGPUR 132	33KV	33KV MAHUAKHEDA	IV				-	-	
219	BHOPAL 400	SOHAGPUR 132	33KV	33KV SOHAGPUR TOWN	V				-	-	
220	BHOPAL 400	SOHAGPUR 132	33KV	33KV RANIGOHAN	IV				-	-	
221	BHOPAL 400	TENDUKHEDA 132	33KV	33KV TENDUKHEDA	V	JVS	JRF014-2	19-0923/6	30.07.2020	-	-
222	BHOPAL 400	TENDUKHEDA 132	33KV	33KV SUNEHETI	IV					-	-
223	BHOPAL 400	TENDUKHEDA 132	33KV	33KV MADANPUR	IV					-	-
224	BHOPAL 400	TENDUKHEDA 132	33KV	33KV FEEDER - 4	-					-	-
227	BHOPAL 400	PIPARIYA 132	33KV	33KV SHOBHAPUR	3	JVS	JRF014	16-0283/10	10.04.19	49.2	0.2
228	BHOPAL 400	PIPARIYA 132	33KV	33KV SANDIYA	3	JVS	JRF014	16-0283/10	10.04.19	49.2	0.2
229	BHOPAL 400	PIPARIYA 132	33KV	33KV PIPARIYA TOWN	5	JVS	JRF014	16-0283/10	10.04.19	49.2	0.2
230	BHOPAL 400	PIPARIYA 132	33KV	33KV SOHAGPUR	5	JVS	JRF014	16-0283/10	10.04.19	49.2	0.2
231	BHOPAL 400	PIPARIYA 132	33KV	33KV H.T.CONSUMER	7A	JVS	JRF014	16-0283/8	10.04.19	48.8	0.2
232	BHOPAL 400	PIPARIYA 132	33KV	33KV THUTHA DEHALWADA	3	JVS	JRF014	16-0283/8	10.04.19	49.2	0.2
233	BHOPAL 400	PIPARIYA 132	33KV	33KV MACHHA	3	JVS	JRF014	16-0283/8	10.04.19	49.2	0.2
234	BHOPAL 400	PIPARIYA 132	33KV	33KV KANHWAR	3	JVS	JRF014	16-0283/8	10.04.19	49.2	0.2
235	BHOPAL 400	PIPARIYA 132	33KV	33KV SANKHANI	3	JVS	JRF014	16-0283/8	10.04.19	49.2	0.2
1	JABALPUR	JABALPUR 220	132	132KV MANERI		AVANA	NPH 222	AP121140	06.06.02		
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 1	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 2	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 3	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 4	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 5	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 6	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 7	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV JABALPUR 8	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV COMPLEX 1	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV COMPLEX 2	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV RAMNAGRA 1	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV RAMNAGRA 2	VIII					48.8 Hz.	0.1
	JABALPUR	JABALPUR 220	33KV	33KV RAMPUR	N/A						0.1
2	JABALPUR	PATAN 132	33KV	33KV PATAN	V-A	JVS	JRF014	16-0283/24	02.07.08	49.2 Hz.	0.1
	JABALPUR	PATAN 132	33KV	33KV NONI	V-A					49.2 Hz.	0.1
	JABALPUR	PATAN 132	33KV	33KV KATRA BELKHEDA	I-IV					49.2 Hz.	0.1
	JABALPUR	PATAN 132	33KV	33KV RONSARA	I-IV					49.2 Hz.	0.1
3	JABALPUR	VFJ 132	33KV	33KV GCF	VIII	AVANA	NPH 222	AP135499	12.02.14	48.8 Hz.	0.1
	JABALPUR	VFJ 132	33KV	33KV O F K	VIII					48.8 Hz.	0.1
	JABALPUR	VFJ 132	33KV	33KV ADHARTAL	VIII					48.8 Hz.	0.1
	JABALPUR	VFJ 132	33KV	33KV RICHHAI	VIII					48.8 Hz.	0.1
	JABALPUR	VFJ 132	33KV	33KV GOKALPUR	VIII					48.8 Hz.	0.1
	JABALPUR	VFJ 132	33KV	33KV SIHORA	V-A					49.2 Hz.	0.1
4	JABALPUR	MARHOTAL 132	33KV	33KV MARHOTAL	VIII	JVS	JRF014	F33873	13.11.06	48.8 Hz.	0.1
	JABALPUR	MARHOTAL 132	33KV	33KV KATANGI	V-A					48.8 Hz.	0.1

	JABALPUR	MARHOTAL 132	33KV	33KV LEMA GARDEN	VIII					48.8 Hz.	0.1	
	JABALPUR	MARHOTAL 132	33KV	33KV J. P NAGAR	VIII					48.8 Hz.	0.1	
	JABALPUR	MARHOTAL 132	33KV	33KV SIHORA PANAGAR	-	JVS	JRFO14	11-5261/4	17.12.17	-	0.1	
	JABALPUR	MARHOTAL 132	33KV	33KV RAMESWARAM	VIII					48.8 Hz.	0.1	
	JABALPUR	MARHOTAL 132	33KV	33KV KATHAUNDA								
5	JABALPUR	KATANGI 132	33KV	33KV BORIYA	I-VIA	JVS	JRFO14	15-1330/1	27.12.17	49.2 Hz.	0.1	
	JABALPUR	KATANGI 132	33KV	33KV KYMORI	I-VIA					49.2 Hz.	0.1	
	JABALPUR	KATANGI 132	33KV	33KV POLA	I-VIA					49.2 Hz.	0.1	
	JABALPUR	KATANGI 132	33KV	33KV KATANGI	I-VIA					49.2 Hz.	0.1	
6	JABALPUR	TEIGARH 132	33KV	33KV NOHTA	I-VI	JVS	JRFO14	13-1295/9	07.07.14	48.8 Hz	0.1	
7	JABALPUR	GHANSORE 132	33KV	33KV GHANSORE	V-A	JVS	JRFO14	19-1582/14	25.09.21	48.8Hz	0.1	
8	JABALPUR	SHAHPURA 132	33KV	33KV BELKHEDA 1	VII	JVS	JRFO14	16-0283/18	21.03.07	48.8Hz.	0.1	
	JABALPUR	SHAHPURA 132	33KV	33KV BELKHEDA 2	I-IV					49.2 Hz.	0.1	
	JABALPUR	SHAHPURA 132	33KV	33KV SHAHPURA	V-VI					49.2 Hz.	0.1	
	JABALPUR	SHAHPURA 132	33KV	33KV BELKHEDA 6	I-IV					49.2 Hz.	0.1	
	JABALPUR	SHAHPURA 132	33KV	33KV NONI	III					49.2 Hz.	0.1	
	JABALPUR	SHAHPURA 132	33KV	33KV PGCL	VII-A					48.8Hz.	0.1	
9	JABALPUR	SHRINAGAR 132	33KV	33KV GOTEGAON-1	I - IV	AVANA	NPH 222	13-1855/29	09.09.17	49.0 Hz.	0.1	
	JABALPUR	SHRINAGAR 132	33KV	33KV GOTEGAON-2	V-VI					49.0 Hz.	0.1	
	JABALPUR	SHRINAGAR 132	33KV	33KV BAGASPUR	I - IV					49.0 Hz.	0.1	
	JABALPUR	SHRINAGAR 132	33KV	33KV PARMHANSHI	I - IV					49.0 Hz.	0.1	
	JABALPUR	SHRINAGAR 132	33KV	33KV SHINAGAR	I - IV					49.0 Hz.	0.1	
	JABALPUR	SHRINAGAR 132	33KV	33KV GUNDARI	I - IV					49.0 Hz.	0.1	
10	JABALPUR	PANAGAR 220	33KV	33KV BELKHADU	I-VIA	JVS	JRFO14	13-0678/2	24.11.17	49.2 Hz.	0.1	
	JABALPUR	PANAGAR 220	33KV	33KV BARODA	I-VIA					49.2 Hz.	0.1	
	JABALPUR	PANAGAR 220	33KV	33KV CITY	I-VIA					49.2 Hz.	0.1	
	JABALPUR	PANAGAR 220	33KV	33KV URDUA	VIII					48.8 Hz	0.1	
12	JABALPUR	MANERI 132	33KV	33KV NIWAS	VI	ASHIDA	ADOFM-R2	99LFR0012	07.09.2001	49	0.1	
	JABALPUR	MANERI 132	33KV	33KV BARELA	V					49	0.1	
	JABALPUR	MANERI 132	33KV	33KV PRIMO	VIIA					-	0.1	
	JABALPUR	MANERI 132	33KV	33KV INDUSTRIAL I	XIII					-	0.1	
	JABALPUR	MANERI 132	33KV	33KV INDUSTRIAL II	XIII					-	0.1	
	JABALPUR	MANERI 132	33KV	11KV INSUTRIAL I	XIII					-	0.1	
	JABALPUR	MANERI 132	33KV	11KV MEDHI	IV					49	0.1	
	JABALPUR	MANERI 132	33KV	11KV GARMIN	V					49	0.1	
13	JABALPUR	MANDLA 132	33KV	33KV PONDI	V	ABB	FCX1038/11	M97-24-0397	03.06.2002	49	0.1	
	JABALPUR	MANDLA 132	33KV	33KV MANDLA	VII					-	0.1	
	JABALPUR	MANDLA 132	33KV	33KV NAINPUTUR	VI					49	0.1	
	JABALPUR	MANDLA 132	33KV	33KV BICHIYA	V A					49	0.1	
13	JABALPUR	VINOBHA BHAVE 132	33KV	33KV UKHARI NO.I	VIII	HBB	FCX1036/5	IB-534-0199	03.12.92	48.8	0.1	
	JABALPUR	VINOBHA BHAVE 132	33KV	33KV UKHARI NO.II	VIII					48.8	0.1	
	JABALPUR	VINOBHA BHAVE 132	33KV	33KV VINOBHA BHAVE	VIII					48.8	0.1	
	JABALPUR	VINOBHA BHAVE 132	33KV	33KV SATPULA	VIII					48.8	0.1	
	JABALPUR	VINOBHA BHAVE 132	33KV	33KV GORA BAZAR NO.I	VIII					48.8	0.1	
	JABALPUR	VINOBHA BHAVE 132	33KV	33KV GORA BAZAR NO.II	VIII					48.8	0.1	
	JABALPUR	VINOBHA BHAVE 132	33KV	33KV GHANTGHAR	VIII					48.8	0.1	
	JABALPUR	VINOBHA BHAVE 132	33KV	33KV BHANTALALYA	VIII					48.8	0.1	
14	JABALPUR	KATNI 400	33KV	33KV KATNI 1	7	ASHIDA	AUFMR2	-	04/01/2014	48.8	INS.	
	JABALPUR	KATNI 400	33KV	33KV SHAHNAGAR 1	5A					49.2	INS.	
	JABALPUR	KATNI 400	33KV	33KV PURENA	9					-	-	
	JABALPUR	KATNI 400	33KV	33KV KATNI 2	5A					49.2	INS.	
	JABALPUR	KATNI 400	33KV	33KV SHAHNAGAR 2	5A					49.2	INS.	
	JABALPUR	KATNI 400	33KV	33KV DEVGAON	5A					49.2	INS.	
	JABALPUR	KATNI 400	33KV	33KV CHAKA	9					-	-	
15	JABALPUR	KATNI 132	33KV	33KV BADWARA	6	ABB	/UM22T LAA0003A	92114757055	1999	49.2	INS.	
	JABALPUR	KATNI 132	33KV	33KV BILAHRI	6A					49.2	INS.	
	JABALPUR	KATNI 132	33KV	33KV PAHRUA	7					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV SALEEMNABAD	7					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV ACC	7A					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV BURN CO.	7A					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV ORD. 1	7A					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV ORD. 2	7A					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV DABAR	7A					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV KATAIGHAT	7					48.8	INS.	
	JABALPUR	KATNI 132	33KV	33KV NKJ	7					48.8	INS.	
16	JABALPUR	KYMORE 132	33KV	33KV BARHI	5	JVS	16-0283/83	-	42734	49.2	INS.	
	Minutes for 83rd IMPROCCM		33KV	33KV IC KATNI	5	60				49.2	INS.	

	JABALPUR	KYMORE 132	33KV	33KV SINGAUDI	6A					49.2	INS.	
	JABALPUR	KYMORE 132	33KV	33KV ASHBESTOS	7A					48.8	INS.	
	JABALPUR	KYMORE 132	33KV	33KV BAMANGAON	7A					48.8	INS.	
17	JABALPUR	SLEEMNABAD 132	33KV	33KV BHOROBAND 1	5	JVS ELECTRONICS	JRF 014	-	2014	49.2	INS.	
	JABALPUR	SLEEMNABAD 132	33KV	33KV BHOROBAND 2	5					49.2	INS.	
	JABALPUR	SLEEMNABAD 132	33KV	33KV SLEEMNABAD	7A					49.2	INS.	
	JABALPUR	SLEEMNABAD 132	33KV	33KV PANUMARIYA 1	6A					49.2	INS.	
	JABALPUR	SLEEMNABAD 132	33KV	33KV PANUMARIYA 2	9					49.2	INS.	
	JABALPUR	SLEEMNABAD 132	33KV	33KV COASTAL POWER	9					48.8	INS.	
	JABALPUR	SLEEMNABAD 132	33KV	33KV INDUSTRIAL	9					48.8	INS.	
18	JABALPUR	MANSKRA 132	33KV	33KV SHIRORA 1	9	JVS	JRF014	F33883	42085	49.2	INS.	
	JABALPUR	MANSKRA 132	33KV	33KV SHIRORA 2	6A					49.2	INS.	
	JABALPUR	MANSKRA 132	33KV	33KV MANJHOLI 1	5A					49.2	INS.	
	JABALPUR	MANSKRA 132	33KV	33KV MANJHOLI 2	5A					49.2	INS.	
	JABALPUR	MANSKRA 132	33KV	33KV MAHJAGAON	4					49	INS.	
	JABALPUR	MANSKRA 132	33KV	33KV SLEEMNABAD	9					-	-	
	JABALPUR	MANSKRA 132	33KV	33KV HARGARH	9					-	-	
	JABALPUR	MANSKRA 132	33KV	33KV FANWANI	5A					49	INS.	
	JABALPUR	MANSKRA 132	33KV	33KV UROBOND	7A					48.8	INS.	
19	JABALPUR	BARHI 132	33KV	33KV KUWA	-	JVS ELECTRONICS	JRF 014	14-2078/9	20.01.2018	49.2	INS.	
	JABALPUR	BARHI 132	33KV	33KV BARHI	-					49.2	INS.	
	JABALPUR	BARHI 132	33KV	33KV GERTALAI	-					49.2	INS.	
	JABALPUR	BARHI 132	33KV	33KV PIPARIYA	-					49.2	INS.	
20	JABALPUR	SHAHDOL 220	33KV	33KV JASINGHNAGAR	VI-A	MFVUM	MFVUM22D1AA0003	92114757041	08.01.1993	48.8	0.1	
	JABALPUR	SHAHDOL 220	33KV	33KV SHAHDOL	VIII	MFVUM	MFVUM22D1AA0003	92114757041	08.01.1993	48.8	0.1	
	JABALPUR	SHAHDOL 220	33KV	33KV UMARIYA NO. I	VIII	JVS	JRF-014	F623976	19.09.2007	48.8	0.1	
21	JABALPUR	ANUPPUR 220	33KV	33KV ANUPPUR	VII	JVS	JRF-014	11-5261/6	18.08.2015	48.8	0.1	
	JABALPUR	ANUPPUR 220	33KV	33KV CHACHAI	VII	JVS	JRF-014	11-5261/6	18.08.2015	48.8	0.1	
	JABALPUR	ANUPPUR 220	33KV	33KV KESHWALI	IV	JVS	JRF-014	11-5261/6	18.08.2015	48.8	0.1	
	JABALPUR	ANUPPUR 220	33KV	33KV SHAHDOL-II	VI-A	JVS	JRF-014	11-5261/6	18.08.2015	48.8	0.1	
22	JABALPUR	BIRSINGHPUR 220	33KV	33KV PALI TOWN	VI-A	JVS	JRF-014	F70930	05.09.2007	48.8	0.1	
	JABALPUR	BIRSINGHPUR 220	33KV	33KV SGTP COLONY	VII	JVS	JRF-014	F70930	05.09.2007	49.4	0.1	
23	JABALPUR	UMARIYA 132	33KV	33KV CHANDIA-I	V	JVS	JRF-014	F70921	19.08.2007	48.8	0.1	
	JABALPUR	UMARIYA 132	33KV	33KV MANPUR-I	VI-A	JVS	JRF-014	F70921	19.08.2007	48.8	0.1	
24	JABALPUR	KOTMA 132	33KV	33KV KOTMA NEW	VI	AVANA	WPH-222	135500	30.12.2013	48.8	0.1	
25	JABALPUR	DINDORI 132	33KV	33KV SAHPURA	VI-A	JVS	JRF-014	09-3761/6	2012	48.8	0.1	
	JABALPUR	DINDORI 132	33KV	33KV DINDORI	VII	JVS	JRF-014	09-3761/6	2012	48.8	0.1	
26	JABALPUR	BEOHARI 132	33KV	33KV BEOHARI	VI	JVS	JRF-014	F0815275	13.10.2010	49.4	0.1	
	JABALPUR	BEOHARI 132	33KV	33KV JAISINGH NAGAR	VI	JVS	JRF-014	F0815275	13.10.2010	49.4	0.1	
27	JABALPUR	GORAKHPUR 132	33KV	33KV GORAKHPUR	N/A	JVS	JRF-014	19-0983/12	21.12.2020	48.8	0.1	
	JABALPUR	GORAKHPUR 132	33KV	33KV SPAIR-I	N/A	JVS	JRF-014	19-0983/12	21.12.2020	48.8	0.1	
1	MANDSAUR	TAL 132KV	33KV	33KV ASSAWADA	II	AVANA	NPH222	AP156346	31.07.2017		Inst.	
2	MANDSAUR	TAL 132KV	33KV	33KV MANDAWAL	II	AVANA	NPH222	AP156346	31.07.2017		Inst.	
3	MANDSAUR	TAL 132KV	33KV	33KV TAL	II	AVANA	NPH222	AP156346	31.07.2017		Inst.	
4	MANDSAUR	TAL 132KV	33KV	33KV LOD	II	AVANA	NPH222	AP156346	31.07.2017		Inst.	
5	MANDSAUR	RATLAM 220 KV	33KV	33KV MUNDRI	I	JVS	JRF-14	16-0370/28	28.07.2017		Inst.	
6	MANDSAUR	RATLAM 220 KV	33KV	33KV SHIVPUR	II	JVS	JRF-14	16-0489/44	28.07.2017		Inst.	
7	MANDSAUR	RATLAM 220 KV	33KV	33KV BANGROD	IV	JVS	JRF-14	16-0370/31	28.07.2017		Inst.	
8	MANDSAUR	RATLAM 220 KV	33KV	33KV BADODIYA	II	JVS	JRF-14	16-0489/44	28.07.2017		Inst.	
9	MANDSAUR	RATLAM 220 KV	33KV	33KV MHOW ROAD	VII	JVS	JRF-14	16-0370/31	28.07.2017		Inst.	
10	MANDSAUR	RATLAM 220 KV	33KV	33KV SIMLAWADA	VII	JVS	JRF-14	F- 621460	28.07.2017			
11	MANDSAUR	RATLAM 220 KV	33KV	33KV BILPANK	VII	JVS	JRF-14	16-0370/28	28.07.2017		48.8 Hz	
12	MANDSAUR	RATLAM 220 KV	33KV	33KV TRIVANI	VII	JVS	JRF-14	16-0370/31	28.07.2017		48.8 Hz	
13	MANDSAUR	RATLAM 220 KV	33KV	33KV DHARAD	VII	JVS	JRF-14	16-0370/28	28.07.2017		48.8 Hz	
14	MANDSAUR	RATLAM 220 KV	33KV	33KV GANGA SAGAR	VII	JVS	JRF-14	16-0370/28	28.07.2017		48.8 Hz	
15	MANDSAUR	RATLAM 132 KV	33KV	33KV SHIVGARH	IV	JVS	JRF-14	13-1855/21	06.01.2015		49.4 Hz	
16	MANDSAUR	RATLAM 132 KV	33KV	33KV DHOSWAS	IV	JVS	JRF-14	13-1855/21	06.01.2015		49.4 Hz	
17	MANDSAUR	RATLAM 132 KV	33KV	33KV SEMLIYA	IV	JVS	JRF-14	13-1855/21	06.01.2015		49.4 Hz	
18	MANDSAUR	RATLAM 132 KV	33KV	33KV MILK CHILLING	VII	JVS	JRF-14	13-1855/21	06.01.2015		48.8 Hz	
19	MANDSAUR	JAORA 220 KV	33KV	33KV KALUKHEDA	I	JVS	JRF-14	F 621461	18.08.2007			
20	MANDSAUR	JAORA 220 KV	33KV	33KV SUKHEDA	II	JVS	JRF-14	F 621461	18.08.2007			
21	MANDSAUR	JAORA 220 KV	33KV	33KV HATPIPLIYA	II	JVS	JRF-14	F 621461	18.08.2007			
22	MANDSAUR	JAORA 220 KV	33KV	33KV DHODHAR	I V	JVS	JRF-14	F 621461	18.08.2007			
23	MANDSAUR	JAORA 220 KV	33KV	33KV PIPLODA	V	JVS	JRF-14	F 621461	18.08.2007			
24	MANDSAUR	JAORA 220 KV	33KV	33KV JAORA TOWN	V	JVS	JRF-14	F 621461	18.08.2007			
25	MANDSAUR	JAORA 220 KV	33KV	33KV NAMLI	I V	JVS	JRF-14	F 621461	18.08.2007			

26	MANDSAUR	JAORA 220 KV	33KV	33 KV BADAWADA	III	JVS	JRF-14	F 621461	18.08.2007		Inst.	
27	MANDSAUR	JAORA 220 KV	33KV	33KV RINGNOD	III	JVS	JRF-14	F 621461	18.08.2007		Inst.	
28	MANDSAUR	JAORA 220 KV	33KV	33KV UPARWADA	II	JVS	JRF-14	F 621461	18.08.2007		Inst.	
29	MANDSAUR	A LOT 132 KV	33KV	33KV TAL	V	JVS	JRF-14	16-0489/19	22.08.2017		Inst.	
30	MANDSAUR	A LOT 132 KV	33KV	33KV ALOTE	V	JVS	JRF-14	16-0489/60	23.08.2017		Inst.	
31	MANDSAUR	A LOT 132 KV	33KV	33KV KHARWAKALA	II	JVS	JRF-14	16-0489/50	26.08.2017		Inst.	
32	MANDSAUR	A LOT 132 KV	33KV	33KV BHOJAKHEDI	II	JVS	JRF-14	16-0489/50	26.08.2017		Inst.	
33	MANDSAUR	A LOT 132 KV	33KV	33KV HANUMANTIYA	II	JVS	JRF-14	16-0489/19	22.08.2017		Inst.	
34	MANDSAUR	A LOT 132 KV	33KV	33KV PATAN	II	JVS	JRF-14	16-0489/60	23.08.2017		Inst.	
35	MANDSAUR	A LOT 132 KV	33KV	33KV ASAOWATA	IV	JVS	JRF-14	16-0489/60	23.08.2017		Inst.	
36	MANDSAUR	SAILANA 132 KV	33KV	33KV SAILANA TOWN	VI	AVANA	NPH- 222	AP135532	06.07.2007		Inst.	
37	MANDSAUR	SAILANA 132 KV	33KV	33KV SARWAN	IV	AVANA	NPH- 222	AP135532	06.07.2007		Inst.	
38	MANDSAUR	SAILANA 132 KV	33KV	33KV RAWOTI	V A	AVANA	NPH- 222	AP135532	06.07.2007		Inst.	
39	MANDSAUR	SAILANA 132 KV	33KV	33KV DHAMNOD	III	AVANA	NPH- 222	AP135532	06.07.2007		Inst.	
40	MANDSAUR	SAILANA 132 KV	33KV	33KV AMBA SHERPUR	VI	AVANA	NPH- 222	AP135532	06.07.2007		Inst.	
41	MANDSAUR	SAILANA 132 KV	33KV	33KV DELANPUR	VI	AVANA	NPH- 222	AP135532	29.10.2020		Inst.	
42	MANDSAUR	SAILANA 220 KV	33KV	33KV DHAMEDI		ALSTOM	P-141	34515958/07/18	29.04.2020		Inst.	
43	MANDSAUR	SAILANA 220 KV	33KV	33KV KHEDAWDA		ALSTOM	P-141	34515958/07/18	29.04.2020		Inst.	
44	MANDSAUR	SAILANA 220 KV	33KV	33KV MACHUN	IV	ALSTOM	P-141	34515958/07/18	29.04.2020		Inst.	
45	MANDSAUR	DALODA 220 KV	33KV	33KV DALODA	VI	JVS	JRF-14	F-92902	17.12.2003		Inst.	
46	MANDSAUR	DALODA 220 KV	33KV	33KV KACHANARA	IV	JVS	JRF-14	F-92902	17.12.2003		Inst.	
47	MANDSAUR	DALODA 220 KV	33KV	33KV KARUJ	II	JVS	JRF-14	F-92902	17.12.2003		Inst.	
48	MANDSAUR	DALODA 220 KV	33KV	33KV DHAMNAR	II	JVS	JRF-14	F-92902	17.12.2003		Inst.	
49	MANDSAUR	DALODA 220 KV	33KV	33KV AFJALPUR	IV	JVS	JRF-14	F-92902	17.12.2003		Inst.	
50	MANDSAUR	DALODA 220 KV	33KV	33KV NIMBOD	IV	JVS	JRF-14	F-92902	17.12.2003		Inst.	
51	MANDSAUR	DALODA 220 KV	33KV	33KV JAWASIA		JVS	JRF-14	F-92902	17.10.2020		Inst.	
52	MANDSAUR	DALODA 220 KV	33KV	33KV KHILCHIPURA2		JVS	JRF-14	F-92902	13.01.2021		Inst.	
53	MANDSAUR	SHIVGARH 132 KV	33KV	33KV BHADANKALA		AVANA	NPH- 222	AP1903626	19.08.2020		Inst.	
54	MANDSAUR	SHIVGARH 132 KV	33KV	33KV NEW RAOTI		AVANA	NPH- 222	AP1903626	07.09.2020		Inst.	
55	MANDSAUR	SHIVGARH 132 KV	33KV	33KV PALSODI		AVANA	NPH- 222	AP1903626	18.10.2020		Inst.	
56	MANDSAUR	SUWASARA 220	33KV	33KV KANTIYA	3	JVS	JRF014	13-1855/14	01.07.2018	48.8	0	
57	MANDSAUR	SUWASARA 220	33KV	33KV TARNOD	3	JVS	JRF014	13-1855/14	01.07.2018	48.8	0	
58	MANDSAUR	SUWASARA 220	33KV	33KV PARASALI	4	JVS	JRF014	13-1855/14	01.07.2018	48.8	0	
59	MANDSAUR	BHANPURA 220	33KV	33KV NEEMTHUR	5	AVANA	NPH222	AP150720	10.11.2016	48.8	0	
60	MANDSAUR	BHANPURA 220	33KV	33KV SANDHARA	4	AVANA	NPH222	AP150720	10.11.2016	48.8	0	
61	MANDSAUR	BHANPURA 220	33KV	33KV KANWLA	4	AVANA	NPH222	AP150720	10.11.2016	48.8	0	
62	MANDSAUR	SUWASARA 132	33KV	33KV DHALPAT	3	JVS	JRF014	F821460	10.08.2010	48.8	0	
63	MANDSAUR	SUWASARA 132	33KV	33KV RAWATI (SITAMAU)	2	JVS	JRF014	F821460	10.08.2010	48.8	0	
64	MANDSAUR	SUWASARA 132	33KV	33KV SHAMGARH	4	JVS	JRF014	F821460	10.08.2010	48.8	0	
65	MANDSAUR	SUWASARA 132	33KV	33KV RUNIJA	3	JVS	JRF014	F821460	10.08.2010	48.8	0	
66	MANDSAUR	SUWASARA 132	33KV	33KV KAYAMPUR	2	JVS	JRF014	F821460	10.08.2010	48.8	0	
67	MANDSAUR	SUWASARA 132	33KV	33KV RAHIMGARH	3	JVS	JRF014	F821460	10.08.2010	48.8	0	
68	MANDSAUR	SUWASARA 132	33KV	33KV TITROD	3	JVS	JRF014	F821460	10.08.2010	48.8	0	
69	MANDSAUR	SITAMAU 132	33KV	33KV SITAMAU	6-A	JVS	JRF014	12-4480/3	28.11.2013	48.8	0	
70	MANDSAUR	SITAMAU 132	33KV	33KV DEEPAKHEDA	2	JVS	JRF014	12-4480/3	28.11.2013	48.8	0	
71	MANDSAUR	SITAMAU 132	33KV	33KV MANPURA	3	JVS	JRF014	12-4480/3	28.11.2013	48.8	0	
72	MANDSAUR	SITAMAU 132	33KV	33KV NATARAM	1	JVS	JRF014	12-4480/3	28.11.2013	48.8	0	
73	MANDSAUR	SITAMAU 132	33KV	33KV BILANTRI	6	JVS	JRF014	12-4480/3	28.11.2013	48.8	0	
74	MANDSAUR	GAROTH 132	33KV	33KV BHESODA MANDI	4	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
75	MANDSAUR	GAROTH 132	33KV	33KV BOLIYA	2	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
76	MANDSAUR	GAROTH 132	33KV	33KV GAROTH	6	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
77	MANDSAUR	GAROTH 132	33KV	33KV BARKHEDA-GANG	1	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
78	MANDSAUR	GAROTH 132	33KV	33KV BARDIYA-IST.	4	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
79	MANDSAUR	GAROTH 132	33KV	33KV BARDIYA-AMRA	2	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
80	MANDSAUR	GAROTH 132	33KV	33KV SATKHEDA	2	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
81	MANDSAUR	GAROTH 132	33KV	33KV BABULDA	4	JVS	JRF014	16-0370/60	30/08/2018	48.8	0	
82	MANDSAUR	SHAMGARH 132	33KV	33KV SHAMGARH	6	JVS	JRF014	18-1397/2	16.11.2019	48.8	0	
83	MANDSAUR	SHAMGARH 132	33KV	33KV CHANDWASA	3	JVS	JRF014	18-1397/2	16.11.2019	48.8	0	
84	MANDSAUR	MANDSAUR 132	33KV	33KV MANDSAUR CITY	7	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
85	MANDSAUR	MANDSAUR 132	33KV	33KV SONI BIO CAM	7-A	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
86	MANDSAUR	MANDSAUR 132	33KV	33KV KHILCHIPURA	7	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
87	MANDSAUR	MANDSAUR 132	33KV	33KV JAGGAKHEDI	7	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
88	MANDSAUR	MANDSAUR 132	33KV	33KV CHAMBAL COLONY	7	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
89	MANDSAUR	MANDSAUR 132	33KV	33KV RISHIYANAND	7	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
90	MANDSAUR	MANDSAUR 132	33KV	33KV RAJARAM	7-A	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
91	MANDSAUR	MANDSAUR 132	33KV	33KV GUJARBADIYA	4	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
92	MANDSAUR	MANDSAUR 132	33KV	33KV AMLAWAD	3	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	

93	MANDSAUR	MANDSAUR 132	33KV	33KV BOTALGANJ	4	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
94	MANDSAUR	MANDSAUR 132	33KV	33KV SINDPAN	2	JVS	JRF014	10-10-4205/10	20.07.2017	48.8	0	
95	MANDSAUR	NEEMUCH 220	33KV	33KV BUS STAND	7	JVS	JRF 014	16-0370/7	25.04.19	48.8	0	
96	MANDSAUR	NEEMUCH 132	33KV	33KV NEEMUCH	7	AVANA	NPS222	AP150718	30.04.19	48.8	0	

1	220KV S/s Shivpuri	Guna 220 KV Sub-Station	33 KV	Nil	5 to 6	Avana	MPH222	AP135526	24.04.2017	48.8	0.10	-
2		Ashoknagar 220 KV Sub-Station	33 KV	33 KV Ashoknagar	VII	E.E.II Stage	MFVUM	911263001	31.01.1993	48.6	0.10	-
3		Raghogarh 132 KV Sub-Station	33 KV	33 KV Raghogarh	6	Avana	NPH222	AP135534	27.12.2017	48.8	0.10	-
4			33 KV	33 KV Jamner	6	Avana	NPH222	AP135534	27.12.2017	48.8	0.10	
5			33 KV	33 KV Kumbhraj - I	6	Avana	NPH222	AP135534	27.12.2017	48.8	0.10	
6			33 KV	33 KV Ruthiyai	6	Avana	NPH222	AP135534	27.12.2017	48.8	0.10	-
7		132 KV S/s Kapasi	33 KV	Nil	5 to 6	JVS	JRF014	17-80284/6	26.02.2018	48.8	0.10	
8		132 KV S/s Esagarh	33 KV	33 KV NAISARAI	5 to 6	JVS	JRF014	14-0969/3	19.10.2016	48.8	0.10	
9			33 KV	33KV ESAGARH							0.10	
10		132 KV S/s Maksudangarh	33 KV	33KV MAKSDUDANGARH	5 to 6	ABB	FCX1036/01	PQ8NC2JS	-	48.8	0.10	
11		132 KV S/s Aron	33 KV	33KV ARON	05 to 06	ABB	FCX1036/01	M09-0315	23.06.2009	48.8	0.10	
12		132 KV S/s Kothiya	33 KV	Nil	5 to 6	ABB	FCX1036/01	B15-20294		48.8	0.10	
13		132 KV S/s Bhonra	33 KV	33 kv Bamori	5 to 6	AVANA	NPH222	N/A		48.8	0.10	
14		132 KV S/s Myana	33 KV	Nil	5 to 6	Micom	81 U/F	34962389/12/19	03.04.2021	48.8	0.10	
15		132 KV S/s Chachoda	33 KV	33KV Chachoda	5 to 6	JVS	JRF014	19-9983/8	9.11.2020	48.8	0.10	
16			33 KV	Nohri						100ms		
17			33 KV	Bhesana						100ms		
18			33 KV	Satanwara	01 to 06	JVS	JRF -14	F623574	15.10.2007	49.4	100ms	
19			33 KV	Ronkhedi						100ms		
20			33 KV	Jasrajpur						100ms		
21			33 KV	Dakbangala						100ms		
22			33 KV	Banganga	07 to 08	JVS	JRF -14	F623576	15.10.2007	48.8	100ms	
23			33 KV	Balajidham						100ms		
24			33 KV	C.M.O.						100ms		
25			33 KV	Ronkhedi	01 to 06	JVS	JRF-14	F623574	15.10.2007	49.4	100ms	
26		132 KV S/s Shivpuri	33 KV	Pohri						100ms		
27			33 KV	Bhatnawar						100ms		
28			33 KV	Kharai	01 to 06	JVS	JRF -14	F623913	11.10.2007	49.4	100ms	
29			33 KV	Bhagora						100ms		
30			33 KV	Rator						100ms		
31			33 KV	Sharda Solvent						100ms		
32			33 KV	Homeguard	07 to 08	JVS	JRF -14	140969/32	11.10.2007	48.8	100ms	
33		132 KV S/s Pichhore	33 KV	Fatehpur						100ms		
34			33 KV	Food Park						100ms		
35			33 KV	Mayapur						100ms		
36			33 KV	Khod						100ms		
37			33 KV	Kararkheda	01 to 06	AVANA	NPA 222	AP135538	17.12.2013	49.4	100ms	
			33 KV	Nayachauraha						100ms		
			33 KV	Pichhore Town						100ms		
			33 KV	Basai						100ms		
		132 KV S/s Sheopur	33 KV	Kalarana						100ms		
			33 KV	Bagdua						100ms		
			33 KV	Preamsar						100ms		
			33 KV	Jaida						100ms		
			33 KV	Pandola						100ms		
			33 KV	Soinkalan	01 to 06	AVANA	NPA 222	AP135529	29.12.2013	49.4	100ms	
			33 KV	Janpura						100ms		
			33 KV	Dhonti						100ms		
			33 KV	Gorus						100ms		
			33 KV	Mayapur						100ms		
			33 KV	New Karahal						100ms		
			33 KV	Rambadi						100ms		
	Minutes of 83rd MP OCCM				63							

38	S.E.(T&C) Circle MPPTCL, Guna	132 KV S/s Karera	33 KV	Paliroad	07 to 08	JVS	JRF -14	140969/25	16.12.2013	49.4	48.8	100ms						
39			33 KV	Dhanmill								100ms						
40			33 KV	Karera								100ms						
41			33 KV	Dinara	01 to 06							100ms						
42			33 KV	Teela								100ms						
43			33 KV	Naraua								100ms						
44			33 KV	Karai								100ms						
45			33 KV	Sunari Tiraha								100ms						
46			33 KV	Saad								100ms						
47		132 KV S/s Kolaras	33 KV	Kolaras	01 to 06	AVANA	NPA 222	AP135530	24.12.2013	49.4		100ms						
48			33 KV	Manikheda								100ms						
49			33 KV	Lukwasa								100ms						
50			33 KV	Chandoriya								100ms						
51			33 KV	Rai								100ms						
52			33 KV	Badarwas								100ms						
53	132 KV S/s Baroda	132 KV S/s Baroda	33 KV	Baroda	01 to 06	JVS	JRF -14	160370/75	Dec-16	49.4		100ms						
54			33 KV	Pandola								100ms						
55			33 KV	Salmaniya								100ms						
56			33 KV	Lalitpura								100ms						
57			33 KV	Bhurwada								100ms						
58			33 KV	Alapura								100ms						
59			33 KV	33 KV Micro Chambal								100ms						
60	132 KV S/s Bairad	132 KV S/s Bairad	33 KV	Bairad	01 to 06	JVS	JRF -14	160370/36	27.12.2017	49.4		100ms						
61			33 KV	Bhatnawar								100ms						
62			33 KV	Gowardhan								100ms						
63			33 KV	Gazigarh								100ms						
64			33 KV	Fulipura								100ms						
65	132 KV S/s Mada	132 KV S/s Mada	33 KV	Mada	01 to 06	JVS	JRF 014	17-0284/7	28.12.2017	49.4		100ms						
66			33 KV	Khare								100ms						
67			33 KV	Indar								100ms						
68			33 KV	Khatora								100ms						
69	220 KV S/s Sheopur	220 KV S/s Sheopur	33 KV	Datardan	01 to 06	JVS	JRF 014	18-1397/13	05.07.2019	49.4		100ms						
70			33 KV	Gurunavada								100ms						
71			33 KV	Tillipur								100ms						
72			33 KV	Sothwa								100ms						
73			33 KV	Dhiroli								100ms						
74			33 KV	Aashida								100ms						
79	Rajgarh 220	33 KV	33 KV Karedi		1 to 4	JVS	JRF-014	F0815276	23.04.2010	48.8	0.1	Individual group not allocated						
80	Rajgarh 220	33 KV	33 KV Piplodi		1 to 4	JVS	JRF-014	F0815276	23.04.2010	48.8	0.1	Individual group not allocated						
81	Rajgarh 220	33 KV	33 KV Chatukheda		1 to 4	JVS	JRF-014	F0815276	23.04.2010	48.8	0.1	Individual group not allocated						
82	Rajgarh 220	33 KV	33 KV Rajgarh Town		7	JVS	JRF-014	F0815276	23.04.2010	48.8	0.1							
83	Rajgarh 220	33 KV	33 KV Water Works		7	JVS	JRF-014	F0815276	23.04.2010	48.8	0.1							
84	Biaora 132	33 KV	33 KV Suthaliya		4	JVS	JRF-014	16-0283/36	21.11.2016	48.8	0.1							
85	Biaora 132	33 KV	33 KV Doodhi		4	JVS	JRF-014	16-0283/36	21.11.2016	48.8	0.1							
86	Biaora 132	33 KV	33 KV Silapti		3	JVS	JRF-014	16-0283/36	21.11.2016	48.8	0.1							
87	Biaora 132	33 KV	33 KV Pagari Bangla		1	JVS	JRF-014	16-0283/36	21.11.2016	48.8	0.1							
88	Biaora 132	33 KV	33 KV Biaora		6A	JVS	JRF-014	16-0283/36	21.11.2016	48.8	0.1							
89	Biaora 132	33 KV	33 KV Kachari		5A	JVS	JRF-014	16-0283/36	21.11.2016	48.8	0.1							
90	Biaora 132	33 KV	33 KV Water Works		7	JVS	JRF-014	16-0283/36	21.11.2016	48.8	0.1							
91	Pachore 132	33 KV	33 KV Talen		4	JVS	JRF-014	5623993	23.08.2011	48.8	0.1							
92	Pachore 132	33 KV	33 KV Boda		3	JVS	JRF-014	5623993	23.08.2011	48.8	0.1							
93	Pachore 132	33 KV	33 KV Kachnariya		2	JVS	JRF-014	5623993	23.08.2011	48.8	0.1							
94	Pachore 132	33 KV	33 KV Karanwas		1 to 4	JVS	JRF-014	5623993	23.08.2011	48.8	0.1	Individual group not allocated						
95	Minutes of 83rd MP QCCM Pachore 132	33 KV	33 KV Pipliya Rasoda		1 to 4	JVS	JRF-014	5623993	23.08.2011	48.8	0.1	Individual group not allocated						

96	Pachore 132	33 KV	33 KV Pachore	5A	JVS	JRF-014	5623993	23.08.2011	48.8	0.1	
97	Pachore 132	33 KV	33 KV Industrial	7A	JVS	JRF-014	5623993	23.08.2011	48.8	0.1	
98	Sarangpur 132	33 KV	33 KV Paldiya Mata-1	3	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
99	Sarangpur 132	33 KV	33 KV Mau	2	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
100	Sarangpur 132	33 KV	33 KV Kiloda	3	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
101	Sarangpur 132	33 KV	33 KV Manglaj	2	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
102	Sarangpur 132	33 KV	33 KV Asareta	2	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
103	Sarangpur 132	33 KV	33 KV Paldiya Mata-2	2	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
104	Sarangpur 132	33 KV	33 KV Sarangpur	5-A	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
105	Sarangpur 132	33 KV	33 KV Industria	7	NA	MFVVM	92114757011	18.11.2013	48.8	0.1	
106	Khilchipur 132	33 KV	33 KV Lakhoni	4	JVS	JRF-014	F623997	22.11.2010	48.8	0.1	
107	Khilchipur 132	33 KV	33 KV Biaora Kalan	3	JVS	JRF-014	F623997	22.11.2010	48.8	0.1	
108	Khilchipur 132	33 KV	33 KV Sandawata	4	JVS	JRF-014	F623997	22.11.2010	48.8	0.1	
109	Khilchipur 132	33 KV	33 KV Khajla	4	JVS	JRF-014	F623997	22.11.2010	48.8	0.1	
110	Khilchipur 132	33 KV	33 KV Bhojpur	6	JVS	JRF-014	F623997	22.11.2010	48.8	0.1	
111	Khilchipur 132	33 KV	33 KV Khilchipur	6A	JVS	JRF-014	F623997	22.11.2010	48.8	0.1	
112	Jeerapur 132	33 KV	33 KV Jetpura	3	JVS	JRF-014	F623975	01.11.2013	48.8	0.1	
113	Jeerapur 132	33 KV	33 KV Machalpur	3	JVS	JRF-014	F623975	01.11.2013	48.8	0.1	
114	Jeerapur 132	33 KV	33 KV Chapiheda	3	JVS	JRF-014	F623975	01.11.2013	48.8	0.1	
115	Jeerapur 132	33 KV	33 KV Jeerapur	6A	JVS	JRF-014	F623975	01.11.2013	48.8	0.1	

**TENTATIVE MAINTENANCE PROGRAMME OF MPPGCL THERMAL UNITS FOR THE YEAR 2022-2023 R(7)**

17/Oct/2022

STATION	UNIT No.	AOH START	AOH COMP	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	No of Days	REMARKS	
AMK EXT	5	17/Aug/22	20-Oct													65	C.O.H. HP IP Overhauling	
STP-II	6	<b>Diferred</b>														0		
STP-II	7	<b>Diferred</b>														0		
STP-III	8	<b>Diferred</b>														0		
STP-III	9	<b>Diferred</b>														0		
STP-IV	10	31/Aug/22	14-Oct													45	C.O.H. LP Module Overhauling	
STP-IV	11	<b>Diferred</b>														0		
SGTPS -I	1	<b>Diferred</b>														0		
SGTPS -I	2	5/Sep/22	07-Oct													33	A.O.H.	
SGTPS - II	3	15/Apr/22	02-Jun													49	C.O.H.	
SGTPS - II	4	18/Jun/22	10-Aug													54	C.O.H.	
SGTPS - III	5	<b>Diferred</b>														0	A.O.H.	
SSTPS - I	1	10/Jul/22	02-Sep													55	A.O.H. Generator Works	
SSTPS - I	2	<b>Diferred</b>														0	C.O.H.	
SSTPS - II	3	14/Aug/22	11-Nov													90	C.O.H. APH Works	
SSTPS - II	4	24/Jul/22	25-Aug													33	A.O.H. APH Works	
Capacity under Planned Maintenance			0	210	210	210	70	140	410	1030	1400	1840	1460	1330	1260	730	440	0
PLANNED MAINTENANCE %			0	4	4	4	1	3	8	19	26	34	27	25	23	14	8	0
Sent out MW			<b>3161</b>	<b>3173</b>	<b>3166</b>	<b>2699</b>	<b>2018</b>	<b>1960</b>	<b>2813</b>	<b>3432</b>	<b>3600</b>	<b>3600</b>	<b>3600</b>	<b>3600</b>	<b>3600</b>	<b>3600</b>		
			A.O.H				C.O.H											

**Annexure-3.2**

**PROPOSED SHUTDOWN OF TRANSMISSION ELEMENTS FOR THE PERIOD 01.10.2022 To 30.11.2022**

Sr- No	KV	LINE / TRANSFORMER / REACTOR / BAY WITH NAME OF SUB-STATION	From		To		Basis (Daily/)	Reason
			Date	Time	Date	Time		
<b>A- 400 KV TRANSFORMERS</b>								
1	400	400KV/220KV BINA-MP-ICT-1	03/Oct/22	09:00	03/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
2	400	400KV/220KV BINA-MP-ICT-2	04/Oct/22	09:00	04/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
3	400	400KV/220KV BINA-MP-ICT-3	06/Oct/22	09:00	06/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
4	400	400KV/220KV NAGDA-ICT-1	10/Oct/22	09:00	11/Oct/22	18:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
5	400	400KV/220KV NAGDA-ICT-2	12/Oct/22	09:00	13/Oct/22	18:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
6	400	400KV/220KV NAGDA-ICT-3	17/Oct/22	09:00	18/Oct/22	18:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
7	400	400KV/220KV NAGDA-ICT-4	19/Oct/22	09:00	20/Oct/22	18:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
8	400	400KV/220KV BADNAWAR-MP-ICT-1 (BHEL)	10/Oct/22	09:00	10/Oct/22	18:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
9	400	400KV/220KV BADNAWAR-MP-ICT-1 (T&R)	12/Oct/22	09:00	12/Oct/22	18:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
10	400	400KV/220KV INDORE-ICT-1	03/Oct/22	08:00	04/Oct/22	17:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
11	400	400KV/220KV INDORE-ICT-2	06/Oct/22	08:00	07/Oct/22	17:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
12	400	400KV/220KV INDORE-ICT-3	11/Oct/22	08:00	12/Oct/22	17:00	CONTINUE	FOR POST MONSOON MAINTENANCE AND TESTING WORK
13	400	400KV/220KV UJJAIN-ICT-1	03/Oct/22	09:00	03/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
14	400	400KV/220KV UJJAIN-ICT-2	06/Oct/22	09:00	06/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
15	400	400KV/220KV UJJAIN-ICT-1	23/Nov/22	10:00	23/Nov/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
16	400	400KV/220KV UJJAIN-ICT-2	25/Nov/22	10:00	25/Nov/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
17	400	400KV/220KV MANDSAUR-ICT-2	03/Oct/22	08:00	03/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
<b>B- 400 KV REACTORS</b>								
1	400	400KV-BINA-MP-BHOPAL-MP-1 L/R AT BINA-MP - 400KV	01/Nov/22	09:00	01/Nov/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
2	400	400KV-BINA-MP-BHOPAL-MP-2 L/R AT BINA-MP - 400KV	02/Nov/22	09:00	02/Nov/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
3	400	BINA-MP - 400KV B/R 1	03/Nov/22	09:00	03/Nov/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
4	400	JULWANIA - 400KV B/R 1	15/Oct/22	09:00	15/Oct/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
5	400	CHHEGAON-400KV B/R 1 (50MVAR)	28/Oct/22	10:00	28/Oct/22	19:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
6	400	NAGDA - 400KV B/R 1	21/Oct/22	09:00	21/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
7	400	NAGDA-400KV-L/R OF ISP	10/Nov/22	09:00	10/Nov/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
8	400	BADNAWAR-400KV 125MVAR BUS REACTOR	14/Oct/22	09:00	14/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
9	400	125MVAR REACTOR AT 400 KV MPPTCL SAGAR	10/Oct/22	09:00	10/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
10	400	400KV-SINGAJI-PITHAMPUR-4 L/R@ PITHAMPUR - 400KV	13/Oct/22	08:00	13/Oct/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK AT PITHAMPUR S/S
11	400	400KV-SINGAJI-PITHAMPUR-3 L/R@ PITHAMPUR - 400KV	15/Oct/22	08:00	15/Oct/22	17:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK AT PITHAMPUR S/S
12	400	125MVAR BUS REACTOR AT 400KV S/S UJJAIN	07/Oct/22	09:00	07/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
13	400	125MVAR BUS REACTOR AT 400KV S/S UJJAIN	28/Nov/22	10:00	28/Nov/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
14	400	BHOPAL-MP-400KV B/R 1	25/Oct/22	09:00	25/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
15	400	BHOPAL-MP-400KV B/R 1	26/Oct/22	09:00	26/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
16	400	BHOPAL-MP-400KV B/R 2	27/Oct/22	09:00	27/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
17	400	BHOPAL-MP-400KV B/R 2	28/Oct/22	09:00	28/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
18	400	BHOPAL-MP-400KV B/R 1	25/Nov/22	09:00	25/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
19	400	BHOPAL-MP-400KV B/R 1	28/Nov/22	09:00	28/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
20	400	BHOPAL-MP-400KV B/R 2	29/Nov/22	09:00	29/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
21	400	BHOPAL-MP-400KV B/R 2	30/Nov/22	09:00	30/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
22	400	MANDSAUR-MP-400KV B/R 1 (125MVAR)	06/Oct/22	08:00	06/Oct/22	18:00	DAILY	FOR POST MONSOON MAINTENANCE AND TESTING WORK
<b>C- 400 KV FEEDER &amp; BAYS</b>								
1	400	400KV-BHOPAL-MP-BINA-MP-1	13/Oct/22	09:00	13/Oct/22	17:00	Continue	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S BINA

Sr- No	KV	LINE / TRANSFORMER / REACTOR / BAY WITH NAME OF SUB-STATION	From		To		Basis (Daily/)	Reason
			Date	Time	Date	Time		
2	400	400KV-BHOPAL-MP-BINA-MP-1	14/Oct/22	09:00	14/Oct/22	17:00	Continue	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S BINA
3	400	400KV-BHOPAL-MP-BINA-MP-2	21/Nov/22	09:00	25/Nov/22	17:00	Continue	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S BINA
4	400	400KV-BINA-MP-BPSCL	04/Nov/22	09:00	04/Nov/22	17:00	daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT 400KV S/S BINA
5	400	400KV-CHHEGAON-JULWANIA-1	18/Oct/22	09:00	18/Oct/22	17:00	Daily	FOR MAINTENANCE AND TESTING WORK at 400KV S/S JULWANIA
6	400	400KV-SINGAJI-JULWANIA-1	19-10-2022	09:00	19-10-2022	17:00	Daily	FOR MAINTENANCE AND TESTING WORK at 400KV S/S JULWANIA
7	400	400KV BUS TRANSFER AT 400KV S/S JULWANIYA	22/Oct/22	09:00	22/Oct/22	17:00	Daily	FOR MAINTENANCE AND TESTING WORK at 400KV S/S JULWANIA
8	400	400KV BUS -TIE AT 400KV S/S JULWANIYA	26/Oct/22	09:00	26/Oct/22	17:00	Daily	FOR MAINTENANCE AND TESTING WORK at 400KV S/S JULWANIA
9	400	400KV-SINGAJI-CHHEGAON-1	22/Nov/22	10:00	22/Nov/22	18:00	Daily	FOR MAINTENANCE AND TESTING WORK at 400KV S/S CHHEGAON
10	400	400KV-CHHEGAON-JULWANIA-1	24/Nov/22	10:00	24/Nov/22	18:00	Daily	FOR MAINTENANCE AND TESTING WORK at 400KV S/S CHHEGAON
11	400	400KV NAGDA-UJJAIN-I	17/Nov/22	09:00	17/Nov/22	18:00	Daily basis	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
12	400	400KV NAGDA-UJJAIN-I	22/Nov/22	09:00	22/Nov/22	18:00	Daily basis	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
13	400	400KV TBC AT 400KV S/S INDORE	06/Oct/22	09:00	06/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
14	400	400KV BUS COUPLER AT 400KV S/S INDORE	07/Oct/22	09:00	07/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
15	400	400KV-BADNAWAR-PITHAMPUR-1	25/Oct/22	08:00	25/Oct/22	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT PITHAMPUR S/S
16	400	400KV-BADNAWAR-PITHAMPUR-2	26/Oct/22	08:00	26/Oct/22	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK AT PITHAMPUR S/S
17	400	400KV MAIN BUS-I AT 400KV S/S UJJAIN	10/Oct/22	09:00	10/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
18	400	400KV MAIN BUS-II AT 400KV S/S UJJAIN	11/Oct/22	09:00	11/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
19	400	400KV UJJAIN-ASHTA-I	25/Oct/22	09:00	25/Oct/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
20	400	400KV UJJAIN-ASHTA-II	26/Oct/22	09:00	26/Oct/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
21	400	400KV UJJAIN-NAGDA-I	28/Oct/22	09:00	28/Oct/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
22	400	400KV UJJAIN-NAGDA-II	31/Oct/22	09:00	31/Oct/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
23	400	400KV MAIN BUS-I AT 400KV S/S UJJAIN	02/Nov/22	10:00	01/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
24	400	400KV MAIN BUS-II AT 400KV S/S UJJAIN	04/Nov/22	10:00	04/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
25	400	400KV UJJAIN-ASHTA-I	07/Nov/22	10:00	07/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
26	400	400KV UJJAIN-ASHTA-II	09/Nov/22	10:00	09/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
27	400	400KV UJJAIN-NAGDA-I	11/Nov/22	10:00	11/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
28	400	400KV UJJAIN-NAGDA-II	14/Nov/22	10:00	14/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
29	400	400KV-INDORE-UJJAIN-1	16/Nov/22	10:00	16/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
30	400	400KV-INDORE-UJJAIN-2	18/Nov/22	10:00	18/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
31	400	400KV BUS COUPLER AT 400KV S/S UJJAIN	21/Nov/22	10:00	21/Nov/22	18:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
32	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-1	03/Oct/22	09:00	03/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
33	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-1	04/Oct/22	09:00	04/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
34	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-2	06/Oct/22	09:00	06/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
35	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-2	07/Oct/22	09:00	07/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
36	400	400KV-BHOPAL-MP-ITARSI-1	10/Oct/22	09:00	10/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
37	400	400KV-BHOPAL-MP-ITARSI-1	11/Oct/22	09:00	11/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
38	400	400KV-BHOPAL-MP-ITARSI-2	13/Oct/22	09:00	13/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
39	400	400KV-BHOPAL-MP-ITARSI-2	14/Oct/22	09:00	14/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
40	400	400KV-BHOPAL-MP-BINA-MP-1	17/Oct/22	09:00	17/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
41	400	400KV-BHOPAL-MP-BINA-MP-1	18/Oct/22	09:00	18/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
42	400	400KV-BHOPAL-MP-BINA-MP-2	19/Oct/22	09:00	19/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
43	400	400KV-BHOPAL-MP-BINA-MP-2	20/Oct/22	09:00	20/Oct/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
44	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-1	07/Nov/22	09:00	07/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
45	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-1	09/Nov/22	09:00	09/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
46	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-2	10/Nov/22	09:00	10/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
47	400	400KV-BHOPAL-MP-BHOPAL-BDTCL-2	11/Nov/22	09:00	11/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR

Sr- No	KV	LINE / TRANSFORMER / REACTOR / BAY WITH NAME OF SUB-STATION	From		To		Basis (Daily/)	Reason
			Date	Time	Date	Time		
48	400	400KV-BHOPAL-MP-ITARSI-1	14/Nov/22	09:00	14/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
49	400	400KV-BHOPAL-MP-ITARSI-1	16/Nov/22	09:00	16/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
50	400	400KV-BHOPAL-MP-ITARSI-2	17/Nov/22	09:00	17/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
51	400	400KV-BHOPAL-MP-ITARSI-2	18/Nov/22	09:00	18/Nov/22	17:00	DAILY	FOR WIRING WORK OF NEW BUS BAR
52	400	400KV-BHOPAL-MP-BINA-MP-1	01/Nov/22	09:00	04/Nov/22	17:00	CONTINUE	FOR PANNEL REPLACEMENT
53	400	400KV-BHOPAL-MP-BINA-MP-2	21/Nov/22	09:00	24/Nov/22	17:00	CONTINUE	FOR PANNEL REPLACEMENT
1	400	400KV MANDSAUR-NAGDA-1	07/Oct/22	10:00	07/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	400	400KV MANDSAUR-NAGDA-2	10/Oct/22	09:00	10/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
<b>D- 220 KV TRANSFORMERS</b>								
1	220	160MVA TRANSFORMER-I AT 220KV S/S MAHALGAON	10/Oct/22	09:00	10/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
2	220	160MVA TRANSFORMER-II AT 220KV S/S MAHALGAON	11/Oct/22	09:00	11/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
3	220	160MVA TRANSFORMER-III AT 220KV S/S MAHALGAON	12/Oct/22	09:00	12/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
4	220	160MVA TRANSFORMER-I AT 220KV S/S DATIA	19/Oct/22	09:00	19/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
5	220	160MVA TRANSFORMER-II AT 220KV S/S DATIA	20/Oct/22	09:00	20/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
6	220	160MVA TRANSFORMER-I AT 220KV S/S MAHALGAON	11/Nov/22	09:00	11/Nov/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
7	220	160MVA TRANSFORMER-II AT 220KV S/S MAHALGAON	16/Nov/22	09:00	16/Nov/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
8	220	160MVA TRANSFORMER-III AT 220KV S/S MAHALGAON	17/Nov/22	09:00	17/Nov/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
9	220	160MVA TRANSFORMER-I AT 220KV S/S DATIA	23/Nov/22	09:00	23/Nov/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
10	220	160MVA TRANSFORMER-II AT 220KV S/S DATIA	25/Nov/22	09:00	25/Nov/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
11	220	160MVA TRANSFORMER-II AT 220KV S/S CHHANERA	07/Oct/22	10:00	07/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
12	220	160MVA TRANSFORMER-I AT 220KV S/S JULWANIA	27/Oct/22	09:00	27/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
13	220	160MVA TRANSFORMER-II AT 220KV S/S JULWANIA	31/Oct/22	09:00	31/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
14	220	160MVA TRANSFORMER-III AT 220KV S/S JULWANIA	08/Oct/22	09:00	08/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
15	220	160MVA TRANSFORMER AT 220KV S/S SENDHWA	10/Oct/22	09:00	10/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
16	220	160MVA EMCO TRANSFORMER- I AT 220 S/S RAJGARH (DHAR)	17/Oct/22	10:00	17/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
17	220	160MVA AREVA TRANSFORMER- I AT 220 S/S RAJGARH (DHAR)	18/Oct/22	10:00	18/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
18	220	160MVA BBL TRANSFORMER- I AT 220 S/S KUKSHI	19/Oct/22	10:00	19/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
19	220	160 MVA 220/132 KV X-MER-I (CGL)/ 220 KV S/S BARNAGAR	17/Oct/22	09:00	17/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
20	220	160 MVA 220/132 KV X-MER- II (AREVA)/ 220 KV S/S BARNAGAR	19/Oct/22	09:00	19/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
21	220	50 MVA 220/33 KV X-MER -NO-I (BBL)/ 220 KV S/S BARNAGAR	28/Oct/22	09:00	28/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
22	220	50 MVA 220/33 KV X-MER -NO-II (BBL)/ 220 KV S/S BARNAGAR	31/Oct/22	09:00	31/Oct/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
23	220	160 MVA 220/132 KV X-MER-I (BBL)/ 220 KV S/S KANWAN	02/Nov/22	09:00	02/Nov/22	18:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK

Sr- No	KV	LINE / TRANSFORMER / REACTOR / BAY WITH NAME OF SUB-STATION	From		To		Basis (Daily/)	Reason
			Date	Time	Date	Time		
24	220	160MVA AREVA TRANSFORMER AT 220KV S/S MANDIDEEP	10/Oct/22	09:00	10/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
25	220	160MVA IMP TRANSFORMER AT 220KV S/S MANDIDEEP	12/Oct/22	09:00	12/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
26	220	100MVA T&R TRANSFORMER AT 220KV S/S MANDIDEEP	14/Oct/22	09:00	14/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
27	220	120MVA (3X40)MVA X'MER at NARMADAPURAM 220	11.10.2022	09:00	11.10.2022	17:00	Daily	For attending Oil Leakage and Oil toping.
28	220	160MVA X'MER at NARMADAPURAM 220	12.10.2022	09:00	12.10.2022	17:00	Daily	For attending Oil Leakage and Oil toping.
29	220	160 MVA XMER NO.I at Handia 220	10/Oct/22	09:00	10/Oct/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
30	220	160 MVA XMER NO.II at Handia 220	10/Dec/22	09:00	10/Dec/22	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
31	220	160 MVA XMER NO.III at Handia 220	14/10/2022	09:00	14/10/2022	17:00	Daily	FOR POST MONSOON MAINTENANCE AND TESTING WORK
<b>E- 220 KV FEEDER &amp; BAYS</b>								
1	220	400 KV SS MPPTCL BINA - 220 KV BINA- BINA (INTC) 1 FEEDER BAY	08/Oct/22	09:00	08/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	220	400 KV SS MPPTCL BINA - 220 KV BINA- BINA (INTC) 2 FEEDER BAY	10/Oct/22	09:00	10/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
3	220	400 KV SS MPPTCL BINA - 220 KV BINA- SAGAR1 FEEDER BAY	15/Oct/22	09:00	15/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
4	220	400 KV SS MPPTCL BINA - 220 KV BINA- SAGAR 2 FEEDER BAY	17/Oct/22	09:00	17/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	220	400 KV SS MPPTCL BINA - 220 KV BINA- PGCIL FEEDER BAY	07/Nov/22	09:00	07/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	220	400 KV SS MPPTCL BINA - 220 KV BINA- BORL 1 FEEDER BAY	09/Nov/22	09:00	09/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	220	400 KV SS MPPTCL BINA - 220 KV BINA- BORL 2 FEEDER BAY	11/Nov/22	09:00	11/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	220	220 KV GWL-II-PGCIL-I CKT	10/Oct/22	09:00	10/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
9	220	220 KV GWL-II-PGCIL-II CKT	11/Oct/22	09:00	11/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
10	220	220 KV MALANPUR-PGCIL-I CKT	17/Oct/22	10:00	17/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
11	220	220 KV MALANPUR-PGCIL-II CKT	18/Oct/22	10:00	18/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
12	220	220 KV MALANPUR-ADANI CKT	19/Oct/22	10:00	19/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
13	220	220 KV MALANPUR-AURAIYA CKT	20/Oct/22	10:00	20/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
14	220	220 KV MALANPUR-MORENA-I CKT	27/Oct/22	10:00	27/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
15	220	220 KV MALANPUR-MORENA-II CKT	28/Oct/22	10:00	28/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
16	220	220 KV MAHALGAON PGCIL-I CKT	03/Oct/22	09:00	03/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
17	220	220 KV MAHALGAON PGCIL-II CKT	04/Oct/22	09:00	04/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
18	220	220KV MAHALGAON- DATIA-I	06/Oct/22	09:00	06/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
19	220	220KV MAHALGAON- DATIA-II	07/Oct/22	09:00	07/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
20	220	220KV DATIA- BINA	17/Oct/22	09:00	17/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
21	220	220KV DATIA- PICHHORE	18/Oct/22	09:00	18/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
22	220	220 KV GWL-II-PGCIL-I CKT	02/Nov/22	09:00	02/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
23	220	220 KV GWL-II-PGCIL-II CKT	03/Nov/22	09:00	03/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
24	220	220 KV MALANPUR-PGCIL-I CKT	08/Nov/22	10:00	08/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
25	220	220 KV MALANPUR-PGCIL-II CKT	09/Nov/22	10:00	09/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
26	220	220 KV MALANPUR-ADANI CKT	10/Nov/22	10:00	10/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
27	220	220 KV MALANPUR-AURAIYA CKT	15/Nov/22	10:00	15/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
28	220	220 KV MALANPUR-MORENA-I CKT	16/Nov/22	10:00	16/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
29	220	220 KV MALANPUR-MORENA-II CKT	17/Nov/22	10:00	17/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
30	220	220 KV MAHALGAON PGCIL-I CKT	03/Nov/22	09:00	03/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
31	220	220 KV MAHALGAON PGCIL-II CKT	04/Nov/22	09:00	04/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK

Sr- No	KV	LINE / TRANSFORMER / REACTOR / BAY WITH NAME OF SUB-STATION	From		To		Basis (Daily/)	Reason
			Date	Time	Date	Time		
32	220	220KV MAHALGAON- DATIA-I	09/Nov/22	09:00	09/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
33	220	220KV MAHALGAON- DATIA-II	10/Nov/22	09:00	10/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
34	220	220KV DATIA- BINA	18/Nov/22	09:00	18/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
35	220	220KV DATIA- PICHHORE	21/Nov/22	09:00	21/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
36	220	PGCIL-I (AT CHHANERA 220KV SUBSTATION)	10/Oct/22	10:00	10/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
37	220	PGCIL-II (AT CHHANERA 220KV SUBSTATION)	11/Oct/22	10:00	11/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
38	220	PGCIL (AT NEPANAGAR 220KV SUBSTATION)	17/Oct/22	10:00	17/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
39	220	CHHEGAON (AT NEPANAGAR 220KV SUBSTATION)	18/Oct/22	10:00	18/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
40	220	ITARSI (AT BARWAHA 220KV SUBSTATION)	05/Oct/22	09:00	05/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
41	220	JULWANIYA (AT NIMRANI 220KV SUBSTATION)	06/Oct/22	09:00	06/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
42	220	OMKARESHWAR (AT JULWANIYA 400KV SUBSTATION)	17/Oct/22	09:00	17/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
43	220	OMKARESHWAR (AT BARWAHA 220KV SUBSTATION)	05/Nov/22	09:00	05/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
44	220	NIMRANI TAP-OMKARESHWAR (AT BARWAHA 220)	07/Nov/22	09:00	07/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
45	220	CHHEGAON-I (AT NIMRANI 220KV SUBSTATION)	04/Nov/22	09:00	04/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
46	220	CHHEGAON-II (AT NIMRANI 220KV SUBSTATION)	05/Nov/22	09:00	05/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
47	220	MAHESHWAR-I (AT NIMRANI 220KV SUBSTATION)	11/Nov/22	09:00	11/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
48	220	MAHESHWAR-II (AT NIMRANI 220KV SUBSTATION)	12/Nov/22	09:00	12/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
49	220	JULWANIYA (AT NIMRANI 220KV SUBSTATION)	19/Nov/22	09:00	19/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
50	220	BUS-TRANSFER (AT JULWANIYA 400KV SUBSTATION)	02/Nov/22	09:00	02/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
51	220	BUS-TIE (AT JULWANIYA 400KV SUBSTATION)	03/Nov/22	09:00	03/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
52	220	220 KV KUKSHI-JULWANIYA -I AT 220 KV S/S KUKSHI	27/Oct/22	10:00	27/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
53	220	220 KV KUKSHI-JULWANIYA -II AT 220 KV S/S KUKSHI	28/Oct/22	10:00	28/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
54	220 KV	220 KV MPPTCL SAGAR- PGCIL DAMOH-1	25/Nov/22	9:00	25/Nov/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
55	220 KV	220 KV MPPTCL SAGAR- PGCIL DAMOH-2	28/Nov/22	9:00	28/Nov/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
56	220 KV	220 KV MPPTCL DAMOH- PGCIL DAMOH-1	30/Nov/22	9:00	30/Nov/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
57	220	220KV UJJAIN-HATUNIYA-(I) PGCIL	11/Oct/22	09:00	11/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
58	220	220KV UJJAIN-HATUNIYA-(II) PGCIL	12/Oct/22	09:00	12/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
59	220	220KV UJJAIN-HATUNIYA-(I) PGCIL	16/Nov/22	09:00	16/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
60	220	220KV UJJAIN-HATUNIYA-(II) PGCIL	17/Nov/22	09:00	17/Nov/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
61	220	220KV PGCIL -I AT 220 KV S/S SHUJALPUR	10/Oct/22	09:00	10/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
62	220	220KV PGCIL -II AT 220 KV S/S SHUJALPUR	11/Oct/22	09:00	11/Oct/22	17:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
63	220	220KV BHOPAL-BHOPAL	06/Oct/22	09:00	06/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
64	220	220KV BHOPAL-MUGALIYA CHHAP	07/Oct/22	09:00	07/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
65	220	220KV BHOPAL-SHAJAPUR-1	10/Oct/22	09:00	10/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
66	220	220KV BHOPAL-SHAJAPUR-2	11/Oct/22	09:00	11/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
67	220	220KV BUS COUPLER AT 400KV S/S BHOPAL	12/Oct/22	09:00	12/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
68	220	220KV BUS TIE AT 400KV S/S BHOPAL	14/Oct/22	09:00	14/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
69	220	220KV MAIN BUS NO.1 AT 400KV S/S BHOPAL	17/Oct/22	09:00	17/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
70	220	220KV MAIN BUS NO.1 AT 400KV S/S BHOPAL	18/Oct/22	09:00	18/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
71	220	220KV MAIN BUS NO.2 AT 400KV S/S BHOPAL	19/Oct/22	09:00	19/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
72	220	220KV MAIN BUS NO.2 AT 400KV S/S BHOPAL	20/Oct/22	09:00	20/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
73	220	220KV MAIN BUS AT 220KV S/S BHANPURA	11/Oct/22	09:00	11/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
74	220	220KV BHANPURA-RANPUR	11/Oct/22	09:00	11/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
75	220	220KV BHANPURA-MODAK	11/Oct/22	09:00	11/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
76	220	220KV BHANPURA-NIPANIYA	11/Oct/22	09:00	11/Oct/22	18:00	DAILY	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
1	220	220KV ICT-I AT 220KV S/S SUKHA	03.10.22	08:00	04.10.22	18:00	Continue	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	220	220KV ICT-II AT 220KV S/S SUKHA	06.10.22	08:00	07.10.22	18:00	Continue	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
3	220	220KV ICT-I AT 220KV S/S SUKHA	02.11.22	08:00	03.11.22	18:00	Continue	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK

Sr- No	KV	LINE / TRANSFORMER / REACTOR / BAY WITH NAME OF SUB-STATION	From		To		Basis (Daily/	Reason
			Date	Time	Date	Time		
4	220	220KV ICT-II AT 220KV S/S SUKHA	04.11.22	08:00	05.11.22	18:00	Continue	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
1	220	220KV Narmadapuram-Sarni Ckt.-2	06.10.2022	09:00	06.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
2	220	220KV Narmadapuram Sarni Ckt.-3	07.10.2022	09:00	07.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
3	220	220KV Narmadapuram Sarni Ckt.-4	10.10.2022	09:00	10.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
4	220	220KV Narmadapuram Pipariya Ckt.-1	13.10.2022	09:00	13.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
5	220	220KV Narmadapuram-Pipariya Ckt.-2	14.10.2022	09:00	14.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
6	220	220KV Narmadapuram-Handiya Ckt.-1	17.10.2022	09:00	17.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
7	220	220KV Narmadapuram-Handiya Ckt.-2	18.10.2022	09:00	18.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
8	220	220KV Narmadapuram-PGCIL Ckt.1	19.10.2022	09:00	19.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
9	220	220KV Narmadapuram-PGCIL Ckt.2	20.10.2022	09:00	20.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK
10	220	220KV Narmadapuram-Barwaha	21.10.2022	09:00	21.10.2022	17:00	Daily	FOR BAY EQUIPMENT MAINTENANCE AND TESTING WORK



## दक्षिण पूर्व मध्य रेलवे

South East Central Railway

कार्यालय - मण्डल विद्युत अभियंता (क.वि.) शहडोल, बिलासपुर मंडल  
Office of Divisional Electrical Engineer (TRD) Shahdol, Bilaspur Division

No: TRD/SDL/T-08/APR-TSS/.....46

Date: 18/07/2022

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

**Sub:** - Regarding non-charging of Railway Traction Circuit-1 of 220KV ATPS for APR/TSS.**Ref:** - PCEE/WCR/JBP's letter no. WCR/L/03/7556/, dtd. 06.06.2022.

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

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

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

This is for your kind information please.

(Durgesh Maneshwar)  
 म.वि. अमृतपुरा & क.वि.)  
 स.एस. रेलवे शहडोल  
 Div Elect Engr (OP&TRD)  
 SEC Rly Shahdol

### ANNEXURE-3.3

पश्चिम मध्य रेल  
West Central Railway



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

No.WCR/L/03/7556/

Date: 06.06.2022

Sr.DEE/Tr.D/ BSP

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

Ref: Agenda Item of OCC meeting of MP.

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

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

DA: Agenda item of 82<sup>nd</sup> OCC meeting.

*B singh* 6/6/22

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

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

SE (Opn)

AB (Shikha Verma)

*sf*

*Q*

### Unitwise / Stationwise Generation in MU

<b>A. Thermal</b>				<b>Ann 4.1</b>		
Stn. Name	UNIT No.	Capacity MW	May-22	June-22	July-22	Aug-22
AMARKA	5	210	153.84	139.16	139.40	67.30
	PH III	210	153.84	139.16	139.40	67.30
	TOT	210	153.84	139.16	139.40	67.30
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	180.75	173.41	175.48	164.89
	11	250	161.59	174.72	175.42	172.24
	PH IV	500	342.34	348.12	350.91	337.13
	TOT	1330	342.34	348.12	350.91	337.13
SANJAY GANDHI	1	210	115.45	104.43	105.23	93.54
	2	210	92.47	110.28	108.68	111.48
	PH I	420	207.92	214.71	213.91	205.02
	3	210	0.00	89.19	130.62	118.41
	4	210	118.43	67.05	0.00	73.81
	PH II	420	118.43	156.25	130.62	192.22
	5	500	320.82	340.38	349.58	335.80
	PH III	500	320.82	340.38	349.58	335.80
	TOT	1340	647.17	711.34	694.11	733.04
SSTPS	1	600	335.43	322.02	92.43	0.00
	2	600	338.82	282.21	264.84	298.74
	PH1	1200	674.25	604.23	357.27	298.74
	3	660	364.67	283.06	387.27	147.94
	4	660	355.02	370.83	242.02	56.35
	PH II	1320	719.69	653.90	629.28	204.29
	TOT	2520	1393.94	1258.13	986.55	503.03
MPPGCL THERMAL		5400	2537.28	2456.75	2170.97	1640.51
<b>B. Hydel</b>						
Station Name		Capacity MW	May-22	June-22	July-22	Aug-22
GANDHISAGAR		115.0	0.00	15.56	0.00	18.61
R.P.SAGAR		172.0	26.54	5.16	1.18	42.21
J.SAGAR		99.0	17.71	4.15	17.62	38.49
CHAMBAL		386.0	44.25	24.88	18.80	99.31
M.P.CHAMBAL		193.0	22.12	12.44	9.40	49.65
PENCH		160.0	10.31	16.93	34.12	55.35
M.P.PENCH		107.0	6.87	11.28	22.74	36.90
BARGI		90.0	16.92	20.24	31.47	53.16
TONS		315.0	54.77	30.98	62.07	38.39
BIRISINGHPUR		20.0	1.17	0.18	7.26	14.48
B.SGR(DEOLONDH)		60.0	0.00	16.98	41.25	23.02
B.SGR(SILPARA)		30.0	5.56	3.05	4.74	0.15
RAJGHAT		45.0	5.77	3.12	15.75	19.37
M.P.RAJGHAT		22.5	3.44	1.86	9.40	11.56
B.SGR(JINHA)		20.0	5.82	3.00	5.35	4.06
MADIKHEDA		60.0	0.00	10.74	19.46	28.63
TOTAL HYDEL		1186.0	144.55	130.09	240.26	335.91
MPPGCL Hydel		915.0	100.30	120.78	221.46	255.21
MPSEB HYDEL Share		917.5	116.66	110.75	213.14	259.99
<b>C. NHDC (Ex-Bus)</b>						
Station Name		Capacity MW	May-22	June-22	July-22	Aug-22
Indira Sagar Hydel Project		1000	68.39	64.87	377.80	377.80
Omkareshwar Hydel Project		520	31.92	30.99	205.11	205.11

**ENERGY BALANCE SHEET : Demand & Supply Hours**  
Year : 2022 -23

Annexure- 4.2  
All figures in Million Unit

S No.	Source	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Total
		30	31	30	31	31	153
<b>A. M.P. Availability</b>							
1	Thermal	2279.85	2366.07	2317.57	2026.72	1519.34	<b>10509.55</b>
2	Hydel	119.89	114.24	108.09	210.17	256.70	<b>809.09</b>
3	Total	2399.74	2480.31	2425.66	2236.89	1776.04	<b>11318.64</b>
							<b>0.00</b>
<b>B. Exchange with other States / Systems</b>							
1	Indira Sagar	173.87	66.58	62.96	375.89	671.08	<b>1350.37</b>
2	Omkareswar	93.40	31.92	30.99	205.11	297.58	<b>659.01</b>
3	MPPMCL Schedule from Central Sector of WR	2415.36	2471.73	2252.73	2282.42	2284.45	<b>11706.69</b>
4	MPPMCL Schedule from Central Sector ER	43.75	42.24	35.39	29.03	28.24	<b>178.65</b>
5	Total MPPMCL Schedule from Central Sector (WR+ER)	2459.10	2513.97	2288.13	2311.45	2312.69	<b>11885.34</b>
6	Deviation Energy of (WR+ER)	45.61	24.61	-77.92	-89.58	-89.12	<b>-186.40</b>
7	NET NR ISGS POWER SCH to MP	88.83	204.15	185.20	180.14	177.35	<b>835.68</b>
8	RUMS SOLAR REWA (Scheduled Energy)	114.87	104.57	89.02	82.70	74.68	<b>465.84</b>
9	Schedule REMC (Wind) IWISL (Kuchi Gujarat)+ASIPL Wind	7.82	10.51	9.65	2.11	0.00	<b>30.08</b>
10	Azure Solar Power Rajasthan	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
11	Schedule From Sugen	12.90	0.00	0.00	0.00	0.00	<b>12.90</b>
12	LANCO Amk	120.99	122.03	110.10	111.49	111.60	<b>576.21</b>
13	SASAN	956.14	1013.34	959.61	940.55	815.14	<b>4684.78</b>
14	ESSAR (STOA against LTA)	21.79	23.09	16.57	5.46	4.13	<b>71.05</b>
15	J P Nigr	275.96	341.43	324.91	332.61	330.38	<b>1605.29</b>
16	MB Power	266.05	240.09	233.96	220.17	217.23	<b>1177.49</b>
17	JHABUA Power	119.92	112.04	103.09	95.05	85.95	<b>516.05</b>
18	Other Open Access Schedule other than MPPMCL Incl. Seci	-153.37	-183.76	-208.26	-191.68	-175.07	<b>-912.14</b>
21	Schedule from Sardar Sarovar	55.21	58.97	87.14	210.96	566.02	<b>978.29</b>
22	SCH to Railway from RGPLL_ebid	236.10	253.64	248.97	258.25	260.81	<b>1257.77</b>
23	Schedule from SEZ	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
24	Schedule from Rihand+Matatila	4.51	4.20	5.58	2.56	9.00	<b>25.86</b>
25	MTOA / STOA FROM RAJASTHAN	41.76	43.15	41.76	43.15	43.15	<b>212.98</b>
28	Additional Power Purchase	78.57	79.85	48.58	33.39	21.71	<b>262.10</b>
29	Energy Exchange	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
30	Banking of Energy	-350.77	-458.78	-567.60	-945.46	-1203.41	<b>-3526.02</b>
31	Sale of Power	-81.44	-177.45	-544.58	-674.83	-632.03	<b>-2110.33</b>
32	<b>Total MP Schedule (Including Railway)</b>	<b>4274.95</b>	<b>4305.05</b>	<b>3431.83</b>	<b>3018.06</b>	<b>3019.33</b>	<b>18049.22</b>
33	<b>Total MP Drawal (Including Railway)</b>	<b>4320.56</b>	<b>4329.66</b>	<b>3353.91</b>	<b>2928.48</b>	<b>2930.22</b>	<b>17862.82</b>
34	Wheeled Energy of Tawa HEG	3.80	0.12	0.00	5.39	10.49	<b>19.81</b>
35	Wheeled Energy of Wind Farm	53.52	75.50	73.69	71.65	47.93	<b>322.29</b>
36	Wheeled Energy of Solar Plant	111.83	111.66	84.91	70.79	70.04	<b>449.24</b>
37	Wheeled Energy of Bio-Mass + Baggase	16.65	5.29	0.21	0.00	0.00	<b>22.15</b>
38	Wheeled Energy of Ascent Hydro +SAS Hydel Hatta	1.15	1.40	1.33	5.68	10.83	<b>20.39</b>
39	Export to MSEB (Nepa-Dharni) Wheeling	-18.53	-13.86	-7.27	-5.61	-5.69	<b>-50.95</b>
40	Deviation Energy of MPPGCL Thermal	-4.32	-6.34	-38.88	-18.82	-18.90	<b>-87.25</b>
41	Energy Purchased by MP from Wind Farm	416.12	632.93	518.97	352.37	384.14	<b>2304.53</b>
42	Energy Purchased by MP from Solar Plant	161.41	159.67	135.41	92.63	96.91	<b>646.03</b>
43	Firm / Infirm Energy of HEG Mandideep+Hindalco+HEG Tawa +Trimula Ind. purchase by MP +Wheeled enrgy of CPP / IPP	81.09	81.24	105.99	90.19	99.47	<b>457.99</b>
44	Purchased from ASN Biomass Katni + RDM Care Ind. Biogas Pariyat + Pragya Energy Pvt. Ltd. Biogas Richhai+ Arya Energy Kotma + Orient Green Power Limited, Gadarawara Bio-Mass+Shaliwahna (CHH+Umariya) + JBP MSW	3.50	7.76	3.50	3.03	4.71	<b>22.51</b>
45	Deviation Energy of ISP	6.89	1.81	1.90	1.91	6.76	<b>19.27</b>
46	Schedule Energy of BLA Power against LTOA	8.20	2.68	4.65	1.34	5.48	<b>22.35</b>
47	Schedule Energy of JP BINA Power against LTOA	196.56	165.64	165.50	121.33	121.46	<b>770.49</b>
48	Import from bargi Left Bank Canal Power House + ISP NVDA	1.12	2.21	-0.01	0.23	1.86	<b>5.41</b>
49	Chambal Complex Excess / less Overshare by MP	-0.96	-22.32	2.97	-9.49	11.56	<b>-18.25</b>
50	Rajghat Hydel Power Station Excess / Less Overshare by MP	0.23	4.79	0.20	0.24	-0.08	<b>5.38</b>
51	<b>State Supply (Ex-Power stn. Bus)</b>	<b>8025.84</b>	<b>8118.67</b>	<b>6926.59</b>	<b>6529.24</b>	<b>6521.89</b>	<b>36122.23</b>
52	AVERAGE DAILY (Ex-Bus)	267.53	261.89	230.89	210.62	210.38	<b>236.09</b>
53	MINIMUM DAILY (MP Periphery)	248.84	211.94	186.62	195.80	152.83	<b>152.83</b>
54	MAXIMUM DAILY (MP Periphery)	275.20	273.72	258.32	222.76	235.33	<b>275.20</b>
55	<b>State Supply (Ex-Power st. Bus):- YEAR : 2021-22</b>	<b>7009.78</b>	<b>6482.29</b>	<b>5928.55</b>	<b>6782.14</b>	<b>6494.43</b>	<b>32697.18</b>
56	Year ((22-23)-(21-22))*100/Year (21-22)	14.49	25.24	16.83	-3.73	0.42	<b>10.48</b>
57	Unschedule US : Year-2022-23	212.88	92.58	0.00	0.00	1.47	<b>306.93</b>
58	Frequency Correction	15.14	4.61	5.78	3.70	3.93	<b>33.16</b>
59	Restricted Requirement : Year-2022-23	8253.86	8215.86	6932.36	6532.94	6527.29	<b>36462.32</b>

<b>60</b>	Schedule L/S : Year-2022-23	0.00	0.00	0.00	0.00	0.00
<b>61</b>	Un-Restricted Requirement : Year-2022-23	8253.86	8215.86	6932.36	6532.94	6527.29

### ENERGY BALANCE SHEET : Demand & Supply Hours

Year : 2022 -23

S.NO.		Apr-22	May-22	Jun-22	Jul-22	Aug-22	Yr 22-23
<b>C. MORNING PEAK (MAX)</b>							
1	DEMAND MET	12237	11839	11046	9947	10478	12237
2	LOAD RELIEF	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	0	0
<b>D. EVENING PEAK (MAX)</b>							
1	DEMAND MET	11576	11607	11211	10055	10787	11607
2	LOAD RELIEF	0	0	0	0	0	0
3	LOAD SHEDDING	0	0	0	0	0	0
<b>F. REGISTERED MAXIMUM</b>							
		12586	12252	11260	10055	10787	12586
<b>G. COMPUTED MAXIMUM DEMAND</b>							
		12586	12392	11294	10061	10787	12586
<b>H. UNRESTRICTED MAXIMUM DEMAND</b>							
		12961	12531	11294	10061	10787	12961
<b>I. Average Power Supply per day to</b>							
1.	Div. Head Quarters	23:50	23:44	23:44	23:46	23:47	23:46
2.	District Head Quarters	23:51	23:45	23:48	23:48	23:47	23:48
3.	Tahsil Head Quarters	23:44	23:36	23:35	23:36	23:38	23:38
4.	Rural -Mixed	22:48	22:52	23:05	22:58	23:01	22:57
5.	Rural -DLF	22:51	22:57	23:12	23:08	23:11	23:04
6.	Rural -Irrigation	9:22	9:31	9:38	9:34	9:35	9:32
<b>J</b>	<b>LOAD FACTOR %</b>	<b>88.57</b>	<b>89.06</b>	<b>85.44</b>	<b>87.28</b>	<b>81.26</b>	<b>86.32</b>

### FREQUENCY ANALYSIS YEAR 2022-23

S.N	PARTICULARS	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Yr 22-23
<b>A. INTGRATED FREQUENCY</b>							
1	MAXIMUM	50.10	50.27	50.21	50.18	50.25	50.27
2	MINIMUM	49.60	49.77	49.72	49.67	49.72	49.60
<b>B. INSTANTANEOUS FREQUENCY</b>							
1	MAXIMUM	50.27	50.35	50.36	50.30	50.31	50.36
2	MINIMUM	49.44	49.50	49.48	49.42	49.47	49.42
<b>C. AVG FREQUENCY</b>							
		49.94	50.00	49.98	50.00	50.00	49.98
<b>D. % TIME WHEN FREQUENCY WAS</b>							
1	ABOVE 51.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00
2	50.05 TO 51.5 Hz	9.60	17.94	14.17	18.72	15.45	15.16
3	49.9 TO 50.05 Hz	59.12	72.23	73.38	73.46	75.78	69.60
4	49.7 TO 49.9 Hz	31.28	9.83	12.45	7.82	8.77	15.24
5	49.5 TO 49.7 Hz	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
7	48.8 TO 49.2 Hz	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
9	BELOW 48.5 Hz	0.00	0.00	0.00	0.00	0.00	0.00

**Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand (Annexure- 4.3)**  
**Month :- May 2022**

**FIGURES IN MW**

Hrs.	FREQ	Own Generation										Schedule from										Load Shedding										SCH	UN SCH	REST. DEMAN D	TOTAL	UNREST DEMAND			
		Ther. Ind Aux	Ther. Excl Aux	HYD.	ISP	OSP	Total Injcts n	Total CPGs Injcts n	Total	CSS	Net NR to MP	Sug en	Lanco	Sasan	Essa r	JP Nigri	RUN S (DSL ARI) REV RD MP MC	MB Power	Jhabu a Powe r	SSP	SCH to Railw ay	SEZ	Banking	Safe	Pur	STO A	Rho n-H abst a- Rajg hat	MTDA / STO A RAJAS THAN	Total	Tot Avl	Act. Dril	Devia tion	Expo rt to MS	DEMAN D MET					
1:00	50.00	3524	3306	118	68	27	359	1215	5093	3454	86	0	159	1305	39	446	0	333	156	310	289	0	-738	-137	124	-156	2	56	5727	10820	5727	0	-19	10801	0	439	439	11244	11244
2:00	50.01	3513	3295	116	43	22	354	1245	5075	3435	84	0	159	1308	38	446	0	333	158	173	299	0	-738	-139	106	-157	2	56	5563	10639	5327	-237	-19	10388	0	324	324	10710	10710
3:00	50.01	3527	3309	113	34	15	349	1257	5076	3420	90	0	159	1333	35	446	0	335	156	16	298	0	-842	-119	150	-159	2	56	5375	10451	5452	77	-18	10510	0	256	256	10769	10769
4:00	50.01	3511	3294	106	17	11	351	1277	5056	3379	97	0	159	1334	33	446	0	340	155	13	303	0	-842	-129	212	-159	2	56	5398	10454	5409	12	-18	10447	0	211	211	10662	10662
5:00	49.98	3491	3275	107	14	23	355	1241	5015	3400	97	0	158	1333	33	446	0	334	155	13	308	0	-842	-133	197	-161	2	56	5397	10412	5497	100	-18	10493	0	187	187	10690	10690
6:00	49.99	3534	3315	145	116	46	354	1174	5150	3399	109	0	159	1322	32	445	4	325	160	12	308	0	-492	-219	134	-164	2	56	5591	10741	5528	-63	-20	10658	0	176	176	10844	10844
7:00	50.06	3509	3291	147	86	61	346	1284	5215	3356	125	0	159	1322	26	440	32	327	160	11	317	0	-486	-168	149	-197	2	56	5631	10846	5485	-146	-20	10680	0	140	140	10820	10820
8:00	50.09	3308	3102	117	36	27	318	1459	5059	3159	118	0	157	1322	23	438	170	303	145	14	334	0	-486	-142	95	-265	2	56	5444	10503	5325	-119	-19	10365	0	18	18	10383	10383
9:00	50.07	3179	2981	128	61	21	297	1668	5156	2961	75	0	155	1310	21	438	314	244	120	15	346	0	-489	-116	78	-340	2	56	5190	10346	5348	158	-19	10485	0	4	4	10489	10489
10:00	50.05	3154	2957	126	57	23	284	1861	5301	2844	20	0	149	1303	21	438	431	225	98	16	329	0	-489	-149	65	-413	2	56	4946	10247	5261	315	-18	10544	0	0	0	10545	10545
11:00	50.01	3161	2964	100	24	15	292	1959	5353	2870	19	0	151	1289	22	438	489	254	114	16	316	0	-489	-195	50	-462	2	56	4940	10293	5500	560	-18	10835	0	0	0	10838	10838
12:00	50.00	3234	3032	115	37	13	299	1944	5440	2968	39	0	153	1298	22	438	507	277	125	16	297	0	-489	-257	58	-455	2	56	5056	10495	5524	468	-18	10946	0	20	20	10972	10972
13:00	50.00	3306	3099	115	52	21	310	1871	5468	3089	61	0	157	1321	23	438	473	271	125	16	316	0	-489	-280	65	-442	2	56	5203	10671	5849	647	-17	11301	0	24	24	11331	11331
14:00	49.98	3332	3123	115	33	17	318	1758	5364	3066	59	0	157	1327	23	438	418	256	119	17	317	0	-489	-295	105	-428	2	56	5149	10513	5841	693	-17	11188	0	22	22	11219	11219
15:00	49.95	3430	3216	110	59	15	327	1609	5336	3220	92	0	156	1326	27	438	302	314	140	150	314	0	-489	-308	68	-364	2	56	5446	10782	5871	426	-17	11191	0	29	29	11243	11243
16:00	49.98	3449	3234	130	86	34	342	1400	5225	3261	57	0	158	1326	29	444	175	323	151	232	319	0	-489	-368	84	-294	2	56	5465	10690	5868	403	-17	11076	0	24	24	11111	11111
17:00	50.02	3394	3183	131	80	42	346	1162	4944	3328	55	0	158	1326	32	447	59	329	151	243	328	0	-489	-448	73	-234	2	56	5414	10358	5531	117	-18	10456	0	18	18	10478	10478
18:00	50.04	3341	3133	126	60	36	338	972	4667	3186	37	0	157	1325	34	447	6	300	143	103	328	0	-486	-425	76	-176	2	56	5113	9780	4974	-139	-19	9622	0	0	0	9622	9622
19:00	49.98	3405	3193	156	149	70	349	891	4807	3324	58	0	157	1325	36	448	0	324	149	18	319	0	-483	-298	85	-142	2	56	5379	10186	5427	48	-20	10213	0	0	0	10224	10224
20:00	49.96	3526	3307	211	338	148	362	913	5279	3444	80	0	159	1315	39	449	0	348	162	39	302	0	-872	-189	98	-146	2	56	5284	10562	5433	150	-20	10692	0	75	75	10783	10783
21:00	50.01	3552	3332	202	256	125	361	987	5264	3421	80	0	159	1304	40	449	0	349	162	39	312	0	-772	-294	78	-147	2	56	5236	10500	5226	-10	-20	10471	0	82	82	10555	10555
22:00	50.00	3516	3298	170	170	73	362	1038	5112	3410	79	0	159	1304	40	449	0	347	162	32	304	0	-772	-239	75	-149	2	56	5257	10369	5216	-41	-20	10308	0	247	247	10560	10560
23:00	49.97	3511	3294	157	208	87	354	1079	5178	3462	103	0	159	1310	39	449	0	348	162	45	285	0	-772	-143	94	-155	2	56	5444	10622	5680	235	-20	10838	0	333	333	11186	11186
24:00	50.01	3504	3287	148	142	79	355	1154	5166	3453	84	0	159	1311	39	449	0	342	162	308	290	0	-772	-127	110	-157	2	56	5708	10874	5703	-5	-19	10850	0	357	357	11212	11212
Avg.	50.01	3413	3201	133	93	44	337	1351	5158	3263	75	0	157	1317	31	444	141	312	145	78	312	0	-617	-222	101	-247	2	56	5348	10506	5500	152	-19	10640	0	124	124	10770	10770
00 TO 06 HRS.	50.00	3517	3299	117	49	24	354	1235	5078	3414	94	0	159	1323	35	446	1	333	157	90	301	0	-749	-146	154	-160	2	56	5508	10586	5490	-18	-19	10549	0	266	266	10820	10820
06 TO 12 HRS.	50.04	3257	3054	121	50	27	306	1696	5254	3026	66	0	154	1307	22	438	324	272	127	15	323	0	-488	-171	83	-355	2	56	5201	10455	5407	206	-19	10643	0	30	30	10674	10674
12 TO 18 HRS.	50.00	3375	3165	121	62	27	330	1462	5167	3192	60	0	157	1325	28	442	239	299	138	127	320	0	-489	-354	78	-323	2	56	5298	10466	5656	358	-17	10806	0	20	20	10834	10834
06 TO 18 HRS.	50.02	3316	3110	121	56	27	318	1579	5211	3109	63	0	156	1316	25	440	281	285	132	71	322	0	-488	-262	81	-339	2	56	5250	10460	5531	282	-18	10724	0	25	25	10754	10754
18 TO 24 HRS.	49.99	3502	3285	174	211	97	357	1010	5																														

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

**FIGURES IN MW**

Hrs.	FREQ	Own Generation										Schedule from												Load Shedding															
		Ther. Ind Aux	Ther. Exd Aux	HYD.	ISP	OSP	Total MPs Injec tion	Total CPMs Injec tion	Total	CSS	Net NR to MP	Sug en	Lanco	Sasan er	Essa r	JP Nigri	RUN S (DSL ARI) REV RD (MP MCH)	MB Power	Jhabu a Powe r	SSP	SCH to Railw ay	SEZ	Banking	Safe	Pur	STO A	Rhe Hab stab a- Raj hat	MTDA / STO A RAJAS THAN	Total	Tot Avl	Act. Dril	Devia tion	Expo rt to MS	DEMAN D MET	SCH	UN SCH	REST. DEMAN D	UNREST DEMAND	
1:00	49.99	3477	3258	156	63	20	421	1037	4954	3333	25	0	150	1301	29	440	0	360	159	445	263	0	-1001	-485	82	-207	6	56	4954	9908	4901	-53	-10	9845	0	0	0	9853	9853
2:00	50.00	3497	3277	141	30	11	416	1088	4961	3317	30	0	150	1293	26	433	0	355	152	199	285	0	-1001	-491	82	-207	6	56	4687	9648	4558	-129	-10	9509	0	0	0	9515	9515
3:00	49.99	3495	3275	141	39	11	406	1121	4993	3299	32	0	148	1286	27	433	0	351	159	27	288	0	-1021	-440	76	-215	6	56	4512	9505	4510	-2	-10	9493	0	0	0	9500	9500
4:00	50.01	3492	3272	142	32	20	407	1111	4983	3258	32	0	148	1290	26	433	0	351	150	18	305	0	-1021	-458	76	-215	6	56	4466	9449	4404	-62	-9	9378	0	0	0	9381	9381
5:00	49.99	3486	3267	142	42	38	410	1044	4944	3250	32	0	148	1292	25	433	0	360	159	15	310	0	-1021	-438	86	-211	6	56	4502	9446	4507	5	-9	9441	0	0	0	9447	9447
6:00	49.97	3498	3278	174	129	63	414	960	5017	3272	25	0	148	1293	25	433	10	350	159	15	312	0	-631	-555	76	-211	6	56	4784	9800	4739	-44	-10	9746	0	0	0	9756	9756
7:00	49.99	3492	3272	194	188	82	413	1044	5192	3225	45	0	148	1293	22	433	33	352	159	16	319	0	-631	-771	76	-237	6	56	4544	9737	4560	16	-10	9742	0	0	0	9750	9750
8:00	50.05	3348	3136	166	58	58	354	1269	5042	2899	25	0	148	1293	17	430	151	299	134	16	338	0	-631	-603	64	-327	6	56	4317	9360	4324	7	-10	9356	0	0	0	9357	9357
9:00	50.05	3169	2968	165	24	50	312	1450	4968	2676	21	0	148	1298	17	429	277	233	103	17	347	0	-642	-649	40	-440	6	56	3937	8906	4283	346	-9	9242	0	0	0	9244	9244
10:00	50.01	3126	2928	161	59	39	308	1547	5042	2639	19	0	148	1301	17	429	384	172	68	17	334	0	-644	-722	40	-485	6	56	3779	8822	4340	561	-9	9373	0	0	0	9377	9377
11:00	49.97	3155	2955	154	61	28	328	1583	5109	2638	19	0	148	1302	17	431	438	188	76	17	318	0	-644	-917	42	-510	6	56	3626	8735	4383	757	-10	9482	0	0	0	9493	9493
12:00	49.97	3186	2984	142	60	26	336	1536	5084	2763	20	0	148	1290	17	433	449	220	88	17	298	0	-644	-1075	48	-470	6	56	3664	8748	4354	690	-10	9429	0	0	0	9439	9439
13:00	50.00	3217	3013	142	38	19	343	1450	5005	2791	21	0	148	1288	18	436	410	267	115	16	318	0	-657	-1032	48	-455	6	56	3793	8798	4642	849	-10	9638	0	0	0	9645	9645
14:00	49.99	3244	3039	155	53	28	351	1351	4977	2789	21	0	148	1283	18	436	371	273	111	16	313	0	-657	-980	56	-421	6	56	3840	8817	4617	777	-10	9584	0	0	0	9590	9590
15:00	49.97	3326	3115	158	64	32	377	1281	5028	2939	22	0	148	1280	18	437	266	286	124	16	307	0	-657	-1009	56	-379	6	56	3916	8944	4485	569	-9	9503	0	0	0	9514	9514
16:00	49.99	3415	3200	136	52	30	378	1151	4946	2995	23	0	148	1280	19	437	151	322	142	16	307	0	-664	-952	62	-313	6	56	4037	8984	4482	445	-10	9419	0	0	0	9426	9426
17:00	49.97	3430	3214	146	77	30	372	977	4816	2997	23	0	147	1281	19	441	53	295	138	16	344	0	-664	-852	62	-261	6	56	4100	8916	4444	344	-10	9250	0	0	0	9263	9263
18:00	49.99	3450	3232	146	103	39	367	826	4713	2929	22	0	147	1276	19	441	4	292	132	19	344	0	-664	-784	62	-211	6	56	4090	8803	4195	105	-10	8898	0	0	0	8905	8905
19:00	49.98	3536	3314	167	103	67	393	734	4779	3072	25	0	147	1277	25	441	0	343	154	200	333	0	-624	-859	82	-170	6	56	4509	9287	4521	13	-11	9289	0	0	0	9298	9298
20:00	49.93	3597	3371	186	247	95	418	727	5045	3293	28	0	147	1281	19	441	0	359	161	359	277	0	-967	-590	85	-175	6	56	4790	9835	4845	55	-12	9878	0	0	0	9900	9900
21:00	49.99	3605	3379	185	187	82	430	815	5079	3323	27	0	147	1279	30	441	0	373	167	308	277	0	-978	-677	85	-185	6	56	4678	9757	4534	-144	-12	9602	0	0	0	9609	9609
22:00	49.99	3601	3376	174	134	71	430	882	5068	3317	26	0	147	1281	30	441	0	374	167	237	258	0	-992	-747	85	-192	6	56	4494	9562	4544	51	-11	9601	0	0	0	9609	9609
23:00	49.96	3585	3361	186	156	65	428	894	5091	3379	27	0	147	1287	31	441	0	377	168	441	256	0	-990	-783	85	-199	6	56	4729	9819	4813	84	-11	9893	0	0	0	9908	9908
24:00	50.01	3543	3321	180	144	37	419	947	5048	3379	26	0	147	1291	30	441	0	369	168	414	265	0	-993	-646	85	-203	6	56	4835	9883	4832	-3	-10	9870	0	0	0	9875	9875
Avg.	49.99	3415	3200	160	89	43	385	1118	4995	3074	26	0	148	1288	23	436	125	313	138	120	305	0	-793	-730	68	-288	6	56	4316	9311	4534	218	-10	9519	0	0	0	9527	9527
00 TO 06 HRS.	49.99	3491	3271	149	56	27	412	1060	4975	3288	29	0	149	1293	27	434	2	355	158	120	294	0	-949	-478	79	-211	6	56	4651	9626	4603	-48	-10	9569	0	0	0	9575	9575
06 TO 12 HRS.	50.01	3246	3040	164	75	47	342	1405	5073	2807	25	0	148	1296	18	431	289	244	104	17	326	0	-639	-789	52	-411	6	56	3978	9051	4374	396	-10	9438	0	0	0	9443	9443
12 TO 18 HRS.	49.98	3347	3136	147	64	30	365	1172	4914	2907	22	0	148	1281	18	438	209	289	127	16	322	0	-661	-935	57	-340	6	56	3963	8877	4477	515	-10	9382	0	0	0	9391	9391
06 TO 18 HRS.	49.99	3296	3088	155	70	39	353	1289	4994	2857	24	0	148	1289	18	435	249	267	116	16	324	0	-650	-862	54	-376	6	56	3970	8964	4426	455	-10	9410	0	0	0	9417	9417
18 TO 24 HRS.	49.97	3578	3354	180	162	70	420	833	5018	3294	26	0	147	1282	29	441	0	366	164	326	278	0	-924	-717	85	-187	6	56	4672	9690	4682	9	-11	9689	0	0	0	9700	9700

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

**FIGURES IN MW**

Hrs.	FREQ	Own Generation								Schedule from												Load Shedding				UNREST DEMAND														
		Ther. Ind Aux	Ther. Exd Aux	HYD.	ISP	OSP	Total IPPs Injec tion	Total CPIPs Injec tion	Total	CSS	Net NR to MP	Sug en	Lanco	Sasan	Essa r	JP Nigri	RUM S (DSL ARI) REV RD MP MCH	MB Power	Jhabu a Powe r	SSP Railw ay	SEZ	Banking	Safe	Pur	STO A	Rha h sta a- Rajg hat	MTDA / STO RAJAM RAJAS THAN	Total	Tot Avl	Act. Dril	Devia tion	Expo rt to MS	DEMAN D MET	SCH	UN SCH	Total				
1:00	50.01	3032	2838	287	483	266	310	691	4874	3312	57	0	145	1213	9	433	0	369	158	386	337	0	-1679	-725	84	-173	-5	56	3979	8853	3847	-132	-8	8713	0	0	0	8715	8715	
2:00	50.00	3016	2822	281	472	260	304	729	4869	3196	62	0	145	1215	8	438	0	352	153	266	348	0	-1683	-681	62	-177	-5	56	3754	8623	3645	-109	-8	8506	0	0	0	8510	8510	
3:00	50.01	2997	2805	278	463	258	293	718	4814	3096	64	0	145	1215	8	441	0	343	149	275	335	0	-1688	-659	42	-184	-5	56	3630	8444	3655	24	-8	8461	0	0	0	8462	8462	
4:00	50.02	2975	2784	275	483	268	287	683	4780	3031	68	0	145	1225	8	441	0	325	138	276	344	0	-1688	-598	42	-183	-5	56	3623	8402	3618	-5	-7	8390	0	0	0	8391	8391	
5:00	50.01	2974	2782	275	476	274	295	661	4764	3021	89	0	145	1217	7	441	0	334	143	245	342	0	-1688	-548	42	-181	-5	56	3659	8423	3668	9	-7	8424	0	0	0	8426	8426	
6:00	49.98	2986	2794	281	486	281	307	625	4774	3133	81	0	145	1222	8	438	4	352	143	245	343	0	-1013	-932	50	-182	-5	56	4089	8863	4118	29	-8	8884	0	0	0	8893	8893	
7:00	50.00	3008	2815	290	537	289	306	653	4889	3199	69	0	145	1221	6	427	40	349	153	257	348	0	-1071	-767	85	-194	-5	56	4319	9208	4301	-18	-8	9182	0	0	0	9187	9187	
8:00	50.02	2965	2774	285	519	285	288	778	4928	2997	49	0	145	1221	6	425	140	316	153	227	342	0	-1071	-766	56	-241	-5	56	4050	8978	4064	14	-8	8984	0	0	0	8988	8988	
9:00	50.04	2931	2742	270	477	278	268	942	4977	2776	30	0	145	1218	6	423	268	268	261	99	189	347	0	-1078	-710	20	-319	-5	56	3727	8704	3896	170	-7	8866	0	0	0	8870	8870
10:00	50.03	2850	2667	266	457	270	253	1046	4959	2653	27	0	145	1219	6	422	348	197	98	192	340	0	-1076	-955	6	-401	-5	56	3272	8231	3689	417	-7	8641	0	0	0	8645	8645	
11:00	50.03	2782	2604	258	451	262	243	1125	4943	2558	25	0	145	1219	6	422	392	154	72	214	314	0	-1077	-1049	3	-416	-5	56	3035	7978	3560	524	-7	8496	0	0	0	8497	8497	
12:00	49.99	2733	2558	260	453	263	244	1169	4946	2568	30	0	145	1229	6	419	382	167	68	262	313	0	-1077	-1202	0	-439	-5	56	2923	7869	3394	471	-6	8334	0	0	0	8341	8341	
13:00	50.01	2654	2484	263	422	261	230	1189	4849	2445	31	0	140	1230	6	419	353	142	45	315	324	0	-1072	-1203	0	-441	-5	56	2787	7636	3479	692	-6	8322	0	0	0	8327	8327	
14:00	50.02	2622	2454	265	440	261	224	1146	4790	2303	34	0	145	1227	6	419	321	122	36	295	326	0	-1073	-1015	0	-426	-5	56	2773	7563	3457	684	-6	8240	0	0	0	8245	8245	
15:00	49.99	2751	2574	271	484	266	246	1101	4942	2652	38	0	145	1220	6	419	238	172	72	280	326	0	-1075	-1294	3	-388	-5	56	2866	7808	3361	495	-6	8297	0	0	0	8304	8304	
16:00	50.00	2852	2668	270	473	266	255	957	4889	2794	31	0	145	1237	6	420	144	191	88	264	327	0	-1076	-1260	25	-326	-5	56	3062	7950	3424	362	-6	8306	0	0	0	8314	8314	
17:00	50.00	2885	2699	266	490	270	268	742	4735	2821	28	0	145	1228	6	426	55	256	114	176	337	0	-1070	-1056	28	-270	-5	56	3274	8009	3621	347	-6	8350	0	0	0	8354	8354	
18:00	50.00	2912	2724	292	528	274	279	565	4663	2866	24	0	145	1229	6	436	6	239	132	146	342	0	-1070	-837	28	-220	-5	56	3524	8187	3771	247	-7	8427	0	0	0	8431	8431	
19:00	49.99	2980	2788	295	522	291	323	489	4708	3210	41	0	145	1222	8	446	0	334	150	246	342	0	-1047	-899	82	-157	-5	56	4172	8880	4125	-48	-8	8825	0	0	0	8829	8829	
20:00	49.92	3030	2834	310	620	312	341	487	4904	3539	39	0	145	1220	9	442	0	380	160	388	293	0	-1425	-800	87	-152	-5	56	4376	9280	4369	-7	-9	9264	0	0	0	9286	9286	
21:00	49.97	3027	2832	312	605	312	340	516	4917	3484	47	0	145	1217	10	442	0	379	160	385	315	0	-1425	-958	88	-158	-5	56	4182	9099	4101	-81	-9	9009	0	0	0	9019	9019	
22:00	50.01	3030	2835	317	553	302	337	571	4915	3500	34	0	145	1213	10	442	0	375	160	403	305	0	-1425	-981	88	-163	-5	56	4156	9071	4048	-108	-9	8954	0	0	0	8958	8958	
23:00	50.00	3015	2820	322	599	293	336	645	5016	3491	71	0	145	1213	10	442	0	377	159	325	322	0	-1425	-1037	88	-166	-5	56	4065	9081	4011	-54	-9	9018	0	0	0	9023	9023	
24:00	50.04	3015	2821	308	556	291	322	693	4991	3384	74	0	145	1209	10	442	0	368	159	378	327	0	-1425	-1017	88	-169	-5	56	4022	9013	3893	-129	-8	8875	0	0	0	8877	8877	
Avg.	50.00	2918	2730	283	502	277	287	788	4868	3001	48	0	145	1221	7	432	112	286	123	276	331	0	-1271	-915	46	-255	-5	56	3638	8506	3796	158	-7	8657	0	0	0	8662	8662	
00 TO 06 HRS.	50.01	2997	2804	280	477	268	299	684	4812	3132	70	0	145	1218	8	439	1	346	147	282	342	0	-1573	-691	54	-180	-5	56	3789	8601	3759	-30	-8	8563	0	0	0	8566	8566	
06 TO 12 HRS.	50.02	2878	2693	271	482	274	267	952	4940	2792	38	0	145	1221	6	423	262	241	107	224	334	0	-1075	-908	28	-335	-5	56	3554	8494	3817	263	-7	8751	0	0	0	8755	8755	
12 TO 18 HRS.	50.00	2779	2601	271	473	266	250	950	4811	2647	31	0	144	1229	6	423	186	187	81	246	330	0	-1073	-1111	14	-345	-5	56	3047	7859	3519	471	-6	8324	0	0	0	8329	8329	
06 TO 18 HRS.	50.01	2829	2647	271	478	270	259	951	4876	2719	35	0	144	1225	6	423	224	214	94	235	332	0	-1074	-1009	21	-340	-5	56	3301	8177	3668	367	-7	8537	0	0	0	8542	8542	
18 TO 24 HRS.	49.99	3016	2822	311	576	300	333	567	4908	3435	51	0	145	1216	9	443	0	369	158	354	317	0	-1362	-949	87	-161	-5	56	4162	9071	4091	-71	-9	8991	0	0	0	8999	8999	

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

**FIGURES IN MW**

Hrs.	FREQ	Own Generation								Schedule from												Load Shedding				UNREST DEMAND													
		Ther. Ind Aux	Ther. Exd Aux	HYD.	ISP	OSP	Total IPPs Injec tion	Total CPPs Injec tion	Total	CSS	Net NR to MP	Sug en	Lanco	Sasan	Essa r	JP Nigri	RUM S (DSL ARI) REV RD MP MCH	MB Power	Jhabu a Powe r	SSP Railw ay	SEZ	Banking	Safe	Pur	STO A	Rhe Hab stab a-Rag hat	MTDA / STO A RAJAM RAJAS THAN	Total	Tot Avl	Act. Dr	Devi ation	Expo rt to MS	DEMAN D MET	SCH	UN SCH	TOTA L			
1:00	50.01	2263	2109	321	945	421	316	680	4792	3378	55	0	145	1070	5	433	0	324	139	756	344	0	-2148	-538	41	-154	1	56	3904	8697	3830	-74	-8	8614	0	0	0	8616	8616
2:00	49.99	2248	2095	316	928	413	310	679	4742	3277	60	0	145	1066	5	430	0	309	126	756	348	0	-2148	-549	38	-178	1	56	3744	8486	3665	-80	-8	8398	0	0	0	8404	8404
3:00	50.01	2238	2085	319	908	411	313	685	4723	3148	64	0	145	1062	5	430	0	291	118	765	338	0	-2148	-457	31	-181	1	56	3668	8391	3633	-35	-8	8347	0	0	0	8349	8349
4:00	50.02	2230	2079	322	901	418	313	684	4717	3045	67	0	145	1065	4	430	0	291	113	780	350	0	-2148	-410	29	-182	1	56	3637	8353	3574	-62	-8	8283	0	0	0	8284	8284
5:00	50.00	2240	2088	318	903	418	311	668	4705	3012	75	0	145	1067	5	430	0	276	116	760	353	0	-1980	-534	29	-182	1	56	3629	8334	3608	-21	-8	8305	0	0	0	8308	8308
6:00	49.99	2271	2116	316	915	418	312	647	4725	3144	64	0	145	1066	5	431	5	291	113	735	318	0	-1349	-911	26	-192	1	56	3948	8673	3967	19	-8	8683	0	0	0	8690	8690
7:00	50.01	2279	2123	313	928	417	311	691	4783	3351	47	0	145	1067	5	426	28	337	144	742	349	0	-1349	-918	42	-172	1	56	4301	9084	4323	22	-9	9097	0	0	0	9100	9100
8:00	50.03	2260	2105	317	901	406	303	816	4848	3154	28	0	145	1067	5	423	118	306	133	730	351	0	-1349	-927	36	-237	1	56	4042	8889	4118	76	-8	8957	0	0	0	8959	8959
9:00	50.05	2187	2038	318	887	394	282	1020	4938	2821	53	0	145	1071	4	415	207	270	103	693	343	0	-1349	-788	14	-294	1	56	3766	8704	3952	185	-8	8882	0	0	0	8882	8882
10:00	50.03	2124	1979	313	850	383	280	1153	4958	2574	24	0	145	1075	4	412	306	224	72	753	346	0	-1349	-901	8	-334	1	56	3418	8376	3784	366	-7	8735	0	0	0	8739	8739
11:00	50.03	2100	1957	313	830	373	273	1225	4970	2332	22	0	145	1075	4	412	344	218	68	816	317	0	-1349	-1075	6	-368	1	56	3026	7995	3544	518	-7	8507	0	0	0	8509	8509
12:00	50.00	2043	1903	311	799	362	276	1253	4904	2340	23	0	145	1041	4	414	337	197	65	915	315	0	-1349	-1315	6	-394	1	56	2801	7705	3298	497	-6	8195	0	0	0	8201	8201
13:00	49.98	2005	1868	307	796	353	270	1257	4852	2180	23	0	145	993	4	408	342	190	62	949	337	0	-1349	-1227	6	-393	1	56	2728	7581	3278	549	-6	8124	0	0	0	8133	8133
14:00	50.04	1998	1862	304	809	349	268	1198	4791	2052	23	0	145	970	4	407	306	187	56	931	377	0	-1349	-1166	3	-383	1	56	2619	7410	3244	625	-6	8029	0	0	0	8030	8030
15:00	50.00	2051	1912	311	819	351	280	1098	4770	2419	23	0	145	997	4	419	236	206	82	804	325	0	-1349	-1272	10	-350	1	56	2755	7525	3259	504	-6	8023	0	0	0	8029	8029
16:00	49.96	2122	1978	316	829	337	291	951	4702	2736	28	0	145	1052	5	421	144	245	92	592	332	0	-1349	-1266	16	-301	1	56	2950	7653	3350	400	-6	8046	0	0	0	8056	8056
17:00	49.96	2164	2016	322	871	352	297	786	4644	2949	26	0	145	1064	6	424	35	279	103	465	318	0	-1349	-1100	22	-248	1	56	3196	7840	3576	380	-6	8214	0	0	0	8225	8225
18:00	49.99	2212	2061	326	923	394	293	572	4571	3057	37	0	145	1076	6	435	14	269	108	357	335	0	-1349	-672	22	-202	1	56	3695	8267	3818	122	-6	8383	0	0	0	8387	8387
19:00	49.96	2302	2145	346	979	431	330	481	4712	3421	38	0	145	1081	9	445	0	318	150	654	312	0	-1520	-623	41	-168	1	56	4360	9072	4323	-37	-8	9027	0	0	0	9042	9042
20:00	49.96	2324	2166	347	981	448	348	514	4804	3633	42	0	145	1080	9	449	0	369	155	744	268	0	-1830	-494	51	-140	1	56	4537	9341	4462	-75	-9	9257	0	15	15	9287	9287
21:00	49.99	2315	2158	344	963	454	345	552	4817	3595	34	0	145	1075	9	449	0	357	149	743	283	0	-1830	-690	49	-141	1	56	4284	9101	4134	-150	-9	8942	0	21	21	8970	8970
22:00	50.01	2301	2145	337	970	452	339	574	4816	3531	34	0	145	1069	9	449	0	342	139	743	268	0	-1846	-800	59	-145	1	56	4052	8869	4067	14	-9	8874	0	11	11	8889	8889
23:00	50.01	2288	2133	325	980	452	340	615	4845	3518	45	0	145	1069	8	449	0	339	139	740	278	0	-1846	-806	71	-147	1	56	4058	8903	4057	-1	-9	8893	0	0	0	8895	8895
24:00	50.01	2275	2120	323	954	436	340	641	4815	3483	44	0	145	1069	8	449	0	339	139	735	315	0	-1846	-778	49	-147	1	56	4060	8875	3937	-122	-8	8744	0	0	0	8747	8747
Avg.	50.00	2202	2052	321	899	402	306	810	4789	3006	41	0	145	1058	6	429	101	282	112	736	326	0	-1618	-842	29	-235	1	56	3632	8422	3783	151	-8	8565	0	2	2	8572	8572
00 TO 06 HRS.	50.00	2248	2095	319	917	417	312	674	4734	3167	64	0	145	1066	5	431	1	297	121	759	342	0	-1987	-567	32	-178	1	56	3755	8489	3713	-42	-8	8439	0	0	0	8442	8442
06 TO 12 HRS.	50.02	2165	2018	314	866	389	287	1026	4900	2762	33	0	145	1066	4	417	224	259	98	775	337	0	-1349	-987	19	-300	1	56	3559	8459	3836	277	-8	8729	0	0	0	8732	8732
12 TO 18 HRS.	49.99	2092	1950	315	841	356	283	977	4722	2566	27	0	145	1025	5	419	179	229	84	683	337	0	-1349	-1117	13	-313	1	56	2991	7712	3421	430	-6	8136	0	0	0	8143	8143
06 TO 18 HRS.	50.01	2129	1984	314	854	373	285	1002	4811	2664	30	0	145	1046	5	418	202	244	91	729	337	0	-1349	-1052	16	-306	1	56	3275	8086	3628	354	-7	8433	0	0	0	8438	8438
18 TO 24 HRS.	49.99	2301	2144	337	971	446	340	563	4802	3530	39	0	145	1074	8	449	0	344	145	726	287	0	-1786	-699	53	-148	1	56	4225	9027	4163	-62	-9	8956	0	8	8	8972	8972

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

**FIGURES IN MW**

Hrs.	FREQ.	EZONE						CZONE						WZONE						Railway				
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	Total Sch	Total Drawal
1:00	49.99	3111	3058	-53	0	0	3061	3061	3373	3316	-57	0	0	3319	3319	3181	3129	-52	0	0	3131	3131	263	341
2:00	50.00	2998	2929	-69	0	0	2931	2931	3302	3225	-77	0	0	3226	3226	3080	3012	-68	0	0	3013	3013	285	344
3:00	49.99	2885	2861	-24	0	0	2863	2863	3214	3187	-27	0	0	3190	3190	3135	3112	-23	0	0	3114	3114	288	333
4:00	50.01	2869	2832	-37	0	0	2833	2833	3182	3143	-39	0	0	3144	3144	3106	3068	-38	0	0	3069	3069	305	334
5:00	49.99	2824	2811	-12	0	0	2813	2813	3163	3150	-13	0	0	3152	3152	3160	3146	-15	0	0	3148	3148	310	334
6:00	49.97	2798	2768	-30	0	0	2771	2771	3334	3298	-36	0	0	3301	3301	3371	3332	-38	0	0	3336	3336	312	348
7:00	49.99	2823	2789	-34	0	0	2791	2791	3311	3271	-39	0	0	3274	3274	3384	3342	-42	0	0	3345	3345	319	340
8:00	50.05	2748	2669	-79	0	0	2670	2670	3239	3147	-92	0	0	3147	3147	3297	3203	-93	0	0	3203	3203	338	337
9:00	50.05	2638	2601	-37	0	0	2602	2602	3120	3076	-44	0	0	3076	3076	3266	3219	-47	0	0	3219	3219	347	346
10:00	50.01	2592	2567	-25	0	0	2568	2568	2994	2968	-27	0	0	2969	2969	3538	3508	-30	0	0	3509	3509	334	331
11:00	49.97	2752	2752	0	0	0	2755	2755	2926	2926	-1	0	0	2929	2929	3491	3490	-1	0	0	3494	3494	318	315
12:00	49.97	2748	2713	-34	0	0	2716	2716	3007	2968	-38	0	0	2971	2971	3496	3451	-45	0	0	3454	3454	298	297
13:00	50.00	2749	2758	9	0	0	2760	2760	3022	3032	10	0	0	3034	3034	3523	3532	9	0	0	3534	3534	318	316
14:00	49.99	2742	2733	-8	0	0	2735	2735	3082	3072	-10	0	0	3074	3074	3475	3462	-13	0	0	3464	3464	313	317
15:00	49.97	2825	2774	-51	0	0	2777	2777	3158	3101	-57	0	0	3105	3105	3368	3305	-63	0	0	3308	3308	307	323
16:00	49.99	2696	2648	-48	0	0	2650	2650	3159	3103	-56	0	0	3105	3105	3392	3336	-57	0	0	3338	3338	307	332
17:00	49.97	2513	2492	-21	0	0	2496	2496	3100	3079	-21	0	0	3083	3083	3352	3325	-27	0	0	3330	3330	344	354
18:00	49.99	2347	2317	-30	0	0	2319	2319	3042	3003	-39	0	0	3005	3005	3273	3234	-39	0	0	3236	3236	344	344
19:00	49.98	2629	2603	-26	0	0	2605	2605	3092	3061	-30	0	0	3064	3064	3304	3272	-33	0	0	3275	3275	333	354
20:00	49.93	2992	2970	-22	0	0	2977	2977	3362	3338	-24	0	0	3345	3345	3240	3217	-23	0	0	3224	3224	277	353
21:00	49.99	3054	2971	-83	0	0	2973	2973	3401	3307	-94	0	0	3310	3310	3050	2968	-83	0	0	2970	2970	277	356
22:00	49.99	3020	2995	-25	0	0	2997	2997	3348	3319	-29	0	0	3322	3322	2956	2935	-22	0	0	2937	2937	258	352
23:00	49.96	3100	3084	-16	0	0	3089	3089	3381	3364	-17	0	0	3369	3369	3104	3091	-13	0	0	3096	3096	256	353
24:00	50.01	3129	3090	-39	0	0	3092	3092	3349	3310	-39	0	0	3312	3312	3156	3123	-34	0	0	3124	3124	265	347
Avg.	49.99	2816	2783	-33	0	0	2785	2785	3194	3157	-37	0	0	3159	3159	3279	3242	-37	0	0	3245	3245	305	338
00 TO 06 HRS.	49.99	2914	2877	-38	0	0	2879	2879	3261	3220	-42	0	0	3222	3222	3172	3133	-39	0	0	3135	3135	294	339
06 TO 12 HRS.	50.01	2717	2682	-35	0	0	2684	2684	3099	3059	-40	0	0	3061	3061	3412	3369	-43	0	0	3371	3371	326	328
12 TO 18 HRS.	49.98	2645	2620	-25	0	0	2623	2623	3094	3065	-29	0	0	3068	3068	3397	3365	-32	0	0	3369	3369	322	331
06TO 18 HRS.	49.99	2681	2651	-30	0	0	2653	2653	3097	3062	-35	0	0	3064	3064	3405	3367	-37	0	0	3370	3370	324	329
18 TO 24 HRS.	49.97	2987	2952	-35	0	0	2956	2956	3322	3283	-39	0	0	3287	3287	3135	3101	-34	0	0	3104	3104	278	352

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

**FIGURES IN MW**

Hrs.	FREQ.	EZONE						CZONE						WZONE						Railway				
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	Total Sch	Total Drawal
1:00	50.01	2927	2876	-51	0	0	2876	2876	3071	3016	-55	0	0	3017	3017	2517	2473	-44	0	0	2474	2474	337	348
2:00	50.00	2840	2802	-38	0	0	2803	2803	2970	2931	-39	0	0	2932	2932	2463	2426	-37	0	0	2427	2427	348	347
3:00	50.01	2780	2789	9	0	0	2789	2789	2893	2901	8	0	0	2901	2901	2433	2438	5	0	0	2438	2438	335	333
4:00	50.02	2766	2763	-3	0	0	2763	2763	2865	2862	-4	0	0	2862	2862	2423	2420	-3	0	0	2420	2420	344	346
5:00	50.01	2741	2743	2	0	0	2744	2744	2850	2852	2	0	0	2852	2852	2488	2490	2	0	0	2490	2490	342	339
6:00	49.98	2707	2712	6	0	0	2715	2715	3000	3005	5	0	0	3008	3008	2818	2823	5	0	0	2826	2826	343	344
7:00	50.00	2803	2774	-29	0	0	2775	2775	3089	3057	-33	0	0	3058	3058	3035	3003	-32	0	0	3004	3004	348	349
8:00	50.02	2740	2683	-57	0	0	2684	2684	3053	2988	-65	0	0	2989	2989	3037	2972	-65	0	0	2973	2973	342	341
9:00	50.04	2686	2626	-60	0	0	2627	2627	3085	3017	-68	0	0	3018	3018	2943	2878	-65	0	0	2879	2879	347	345
10:00	50.03	2617	2585	-32	0	0	2586	2586	2976	2939	-37	0	0	2940	2940	2815	2780	-35	0	0	2781	2781	340	337
11:00	50.03	2703	2667	-36	0	0	2667	2667	2897	2858	-39	0	0	2858	2858	2698	2659	-39	0	0	2660	2660	314	312
12:00	49.99	2692	2622	-71	0	0	2624	2624	2924	2847	-78	0	0	2849	2849	2623	2555	-68	0	0	2557	2557	313	310
13:00	50.01	2623	2627	3	0	0	2628	2628	2844	2848	4	0	0	2850	2850	2520	2525	5	0	0	2527	2527	324	321
14:00	50.02	2555	2565	10	0	0	2566	2566	2838	2849	11	0	0	2851	2851	2494	2504	10	0	0	2505	2505	326	323
15:00	49.99	2639	2610	-30	0	0	2612	2612	2880	2845	-35	0	0	2847	2847	2548	2520	-28	0	0	2522	2522	326	323
16:00	50.00	2573	2537	-36	0	0	2540	2540	2917	2876	-42	0	0	2878	2878	2605	2569	-36	0	0	2571	2571	327	324
17:00	50.00	2425	2431	6	0	0	2432	2432	2923	2932	8	0	0	2933	2933	2649	2654	4	0	0	2655	2655	337	334
18:00	50.00	2357	2381	24	0	0	2382	2382	2886	2917	31	0	0	2918	2918	2760	2789	28	0	0	2790	2790	342	340
19:00	49.99	2649	2613	-35	0	0	2615	2615	3024	2984	-40	0	0	2985	2985	2913	2873	-40	0	0	2874	2874	342	355
20:00	49.92	2943	2918	-25	0	0	2925	2925	3189	3162	-27	0	0	3170	3170	2859	2833	-26	0	0	2840	2840	293	350
21:00	49.97	2953	2906	-46	0	0	2910	2910	3129	3079	-50	0	0	3082	3082	2704	2660	-44	0	0	2663	2663	315	364
22:00	50.01	2981	2926	-55	0	0	2927	2927	3141	3082	-59	0	0	3083	3083	2649	2601	-48	0	0	2602	2602	305	345
23:00	50.00	2997	2966	-31	0	0	2968	2968	3180	3147	-33	0	0	3148	3148	2586	2559	-27	0	0	2560	2560	322	347
24:00	50.04	2995	2943	-52	0	0	2943	2943	3136	3081	-55	0	0	3081	3081	2556	2510	-46	0	0	2510	2510	327	342
Avg.	50.00	2737	2711	-26	0	0	2713	2713	2990	2961	-29	0	0	2963	2963	2672	2646	-26	0	0	2648	2648	331	338
00 TO 06 HRS.	50.01	2794	2781	-13	0	0	2782	2782	2942	2928	-14	0	0	2929	2929	2524	2512	-12	0	0	2513	2513	342	343
06 TO 12 HRS.	50.02	2707	2659	-48	0	0	2661	2661	3004	2951	-53	0	0	2952	2952	2858	2808	-51	0	0	2809	2809	334	332
12 TO 18 HRS.	50.00	2529	2525	-4	0	0	2527	2527	2881	2878	-4	0	0	2880	2880	2596	2593	-3	0	0	2595	2595	330	328
06 TO 18 HRS.	50.01	2618	2592	-26	0	0	2594	2594	2943	2914	-29	0	0	2916	2916	2727	2701	-27	0	0	2702	2702	332	330
18 TO 24 HRS.	49.99	2920	2879	-41	0	0	2881	2881	3133	3089	-44	0	0	3092	3092	2711	2673	-39	0	0	2675	2675	317	350

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

**FIGURES IN MW**

Hrs.	FREQ.	EZONE						CZONE						WZONE						Railway				
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restricted Demand	Unrestricted Demand	Total Sch	Total Drawal
1:00	50.01	2811	2777	-33	0	0	2778	2778	3124	3086	-39	0	0	3086	3086	2428	2397	-31	0	0	2398	2398	344	354
2:00	49.99	2728	2695	-33	0	0	2697	2697	3031	2994	-36	0	0	2996	2996	2391	2363	-27	0	0	2365	2365	348	346
3:00	50.01	2682	2667	-16	0	0	2667	2667	2998	2977	-21	0	0	2978	2978	2382	2367	-15	0	0	2367	2367	338	337
4:00	50.02	2664	2638	-26	0	0	2638	2638	2964	2936	-29	0	0	2936	2936	2385	2362	-24	0	0	2362	2362	350	348
5:00	50.00	2616	2606	-10	0	0	2607	2607	2929	2916	-13	0	0	2917	2917	2446	2434	-11	0	0	2435	2435	353	349
6:00	49.99	2571	2566	-5	0	0	2568	2568	3036	3029	-8	0	0	3031	3031	2760	2754	-6	0	0	2757	2757	318	334
7:00	50.01	2664	2636	-28	0	0	2637	2637	3108	3074	-34	0	0	3075	3075	3034	3002	-32	0	0	3003	3003	349	385
8:00	50.03	2640	2599	-41	0	0	2599	2599	3045	2996	-50	0	0	2996	2996	3063	3015	-48	0	0	3015	3015	351	348
9:00	50.05	2612	2556	-56	0	0	2556	2556	3113	3046	-67	0	0	3046	3046	3007	2940	-67	0	0	2940	2940	343	340
10:00	50.03	2556	2507	-50	0	0	2508	2508	3093	3031	-62	0	0	3032	3032	2915	2855	-59	0	0	2857	2857	346	342
11:00	50.03	2603	2561	-43	0	0	2561	2561	2971	2922	-49	0	0	2923	2923	2757	2711	-46	0	0	2712	2712	317	314
12:00	50.00	2544	2480	-65	0	0	2482	2482	2882	2809	-74	0	0	2811	2811	2664	2595	-69	0	0	2597	2597	315	312
13:00	49.98	2509	2462	-47	0	0	2465	2465	2836	2781	-55	0	0	2785	2785	2598	2547	-51	0	0	2550	2550	337	333
14:00	50.04	2416	2401	-14	0	0	2402	2402	2755	2739	-17	0	0	2739	2739	2526	2513	-13	0	0	2514	2514	377	375
15:00	50.00	2474	2439	-35	0	0	2441	2441	2805	2765	-40	0	0	2767	2767	2534	2496	-38	0	0	2498	2498	325	323
16:00	49.96	2413	2382	-31	0	0	2385	2385	2825	2787	-38	0	0	2790	2790	2583	2549	-34	0	0	2552	2552	332	329
17:00	49.96	2328	2338	9	0	0	2341	2341	2885	2898	12	0	0	2902	2902	2644	2655	11	0	0	2658	2658	318	324
18:00	49.99	2356	2343	-13	0	0	2344	2344	2930	2916	-14	0	0	2918	2918	2805	2792	-13	0	0	2794	2794	335	332
19:00	49.96	2731	2696	-35	0	0	2700	2700	3084	3044	-40	0	0	3049	3049	2977	2941	-36	0	0	2946	2946	312	347
20:00	49.96	2962	2914	-49	0	0	2918	2918	3215	3158	-57	0	9	3172	3172	2903	2850	-53	0	6	2861	2861	268	336
21:00	49.99	2947	2858	-89	0	6	2866	2866	3168	3069	-99	0	9	3079	3079	2710	2626	-84	0	6	2634	2634	283	390
22:00	50.01	2875	2848	-28	0	3	2852	2852	3160	3129	-31	0	4	3134	3134	2574	2548	-26	0	4	2553	2553	268	349
23:00	50.01	2892	2865	-27	0	0	2866	2866	3214	3183	-31	0	0	3184	3184	2528	2503	-25	0	0	2504	2504	278	341
24:00	50.01	2889	2831	-58	0	0	2832	2832	3183	3118	-65	0	0	3119	3119	2494	2443	-51	0	0	2444	2444	315	353
Avg.	50.00	2645	2611	-34	0	0	2613	2613	3015	2975	-40	0	1	2978	2978	2671	2636	-35	0	1	2638	2638	326	343
00 TO 06 HRS.	50.00	2678	2658	-20	0	0	2659	2659	3014	2990	-24	0	0	2991	2991	2465	2446	-19	0	0	2447	2447	342	345
06 TO 12 HRS.	50.02	2603	2556	-47	0	0	2557	2557	3035	2979	-56	0	0	2980	2980	2907	2853	-54	0	0	2854	2854	337	340
12 TO 18 HRS.	49.99	2416	2394	-22	0	0	2396	2396	2840	2814	-25	0	0	2817	2817	2615	2592	-23	0	0	2594	2594	337	336
06 TO 18 HRS.	50.01	2510	2475	-34	0	0	2477	2477	2937	2897	-41	0	0	2899	2899	2761	2722	-38	0	0	2724	2724	337	338
18 TO 24 HRS.	49.99	2883	2835	-48	0	2	2839	2839	3171	3117	-54	0	4	3123	3123	2698	2652	-46	0	3	2657	2657	287	353



## MADHYA PRADESH POWER TRANSMISSION COMPANY LIMITED

CIN-U40109MP2001SGC014880, Email-seldentmp@gmail.com

### STATE LOAD DESPATCH CENTRE, Nayagaon, Rampur, Jabalpur

Telephone: (0761) 2702744 Fax: (0761) 2664343 e-mail sldcmpjbp@gmail.com

No.07-05/RPC-38 A/1810

Jabalpur Date 30.09.22

To,

**The Member Secretary,  
Western Regional Power Committee,  
F-3, MIDC Area Marol,  
Andheri (East), Mumbai- 400093**

**Sub:-** Submission of DPR of Jabalpur Islanding Scheme for PSDF funding

**Ref:-** 1. Minutes of meeting on reviewing progress of formulation of New islanding scheme in WR held on 02.08.22 at Nagpur  
2. POSOCO letter NLDC-PSDF/18<sup>th</sup> MoCO/2022-23 dtd. 17.08.22

Sir,

This has reference to the meeting held in Nagpur dtd. 02.08.22, regarding review of Islanding Scheme in WR. In the meeting it was directed to revise the islanding scheme by incorporating more analytic controls for frequency, generation, load and reliable response and submit the Draft Project Report by 31<sup>st</sup> August 2022.

Accordingly, the matter was discussed with agencies known to have expertise in power system controls and offers were invited to provide the feasible solution to implement the scheme. Subsequently, after several rounds of discussions, PMU based islanding scheme that provides faster communication of data & flexibility for incorporating any kind of analytics in controller unit has been finalized by MPPTCL.

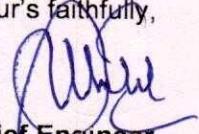
The estimated project cost based on budgetary offer obtained from M/s GE T&D India Ltd works out to be approximately Rs 6 Crores. As per POSOCO POSOCO letter NLDC-PSDF/18<sup>th</sup> MoCO/2022-23 dtd. 17.08.22, the scheme is eligible for funding of 90% of project cost.

The DPR for PMU based Jabalpur islanding scheme is enclosed herewith is submitted for approval of WRPC and further necessary action in the matter please.

Thanking You,

**Encls:As above.**

Your's faithfully,

  
**Chief Engineer,  
SLDC, MPPTCL, Jabalpur**

(2)

**STATE LOAD DESPATCH CENTRE  
MADHYA PRADESH POWER TRANSMISSION CO. LTD.**  
NAYAGAON, RAMPUR, JABALPUR - 482008



**Detailed Project Report  
for Jabalpur Islanding Scheme**

To be posed to  
National Load Dispatch Centre(NLDC)  
Nodal Agency for schemes under PSDF

**Estimated Project Cost Rs. 6 Crores  
(PSDF Component @90% i.e. Rs. 5.40 Crores)**

(September - 2022)

DETAILS OF FEEDERWISE EXPECTED LOAD RELIEF THROUGH AUTOMATIC UNDER-FREQUENCY RELAYS BASED LOAD-SHEDDING SCHEME IN DIFFERENT STATES						
REGION : MPPTCL						
Under-frequency Relays setting : (49.4, 49.2, 49.0, 48.8Hz)						
S.No.	Name of EHV Sub-Station	Name of feeder	Under Frequency relay Setting (49.4, 49.2, 49.0, 48.8)Hz	Load Relief (MW)	U/F Relay (Functional or Non Functional)	Target date for making U/F Relay functional if not yet functional
1	BAIRAGARH 220	33KV TARASEVANIYA	49.20	4.70	FUNCTIONAL	-
2	BAIRAGARH 220	33KV INTKHEDI	49.20	4.30	FUNCTIONAL	-
3	BAIRAGARH 220	33KV PARWALIYA	49.20	10.60	FUNCTIONAL	-
4	BAIRAGARH 220	33KV AKVN 1	49.20	1.00	FUNCTIONAL	-
5	BAIRAGARH 220	33KV AKVN 2	49.20	1.00	FUNCTIONAL	-
6	BAIRAGARH 220	33KV CHANDUKHEDI	48.80	1.00	FUNCTIONAL	-
7	BAIRAGARH 220	33KV AERODRUM	48.80	4.80	FUNCTIONAL	-
8	BAIRAGARH 220	33KV RAKSHAVIHAR	48.80	4.90	FUNCTIONAL	-
9	BAIRAGARH 220	33KV EME	48.80	8.00	FUNCTIONAL	-
10	BAIRAGARH 220	33KV ISER 1	48.80	2.00	FUNCTIONAL	-
11	BAIRAGARH 220	33KV RAJABHOJ	48.80	3.00	FUNCTIONAL	-
12	AYODHYA NAGAR 132	33KV NARMADA	48.80	1.00	FUNCTIONAL	-
13	AYODHYA NAGAR 132	33KV DGP	48.80	1.00	FUNCTIONAL	-
14	AYODHYA NAGAR 132	33KV DAMKHEDA -I	48.80	4.62	FUNCTIONAL	-
15	AYODHYA NAGAR 132	33KV DAMKHEDA -II	48.80	3.54	FUNCTIONAL	-
16	AYODHYA NAGAR 132	33KV ISTRAC	48.80	3.00	FUNCTIONAL	-
17	AYODHYA NAGAR 132	33KV ISRO	48.80	5.00	FUNCTIONAL	-
18	AYODHYA NAGAR 132	33KV INTERCONNECTOR-I	48.80	10.61	FUNCTIONAL	-
19	AYODHYA NAGAR 132	33KV BMC	48.80	1.50	FUNCTIONAL	-
20	AYODHYA NAGAR 132	33KV TIRUPATI	48.80	7.19	FUNCTIONAL	-
21	AYODHYA NAGAR 132	33KV MAHOLI	48.80	3.57	FUNCTIONAL	-
22	AYODHYA NAGAR 132	33KV MAHOLI-2	48.80	1.38	FUNCTIONAL	-
23	ADAMPUR 220	33KV KOKTA-1	48.80	2.99	FUNCTIONAL	-
24	ADAMPUR 220	33KV KOKTA-2	48.80	1.65	FUNCTIONAL	-
25	ADAMPUR 220	33KV KALYANPUR-2	48.80	2.55	FUNCTIONAL	-
26	ADAMPUR 220	33KV DGP-2	48.80	1.00	FUNCTIONAL	-
27	ADAMPUR 220	33KV AYODHYA NAGAR	48.80	3.41	FUNCTIONAL	-
28	ADAMPUR 220	33KV RAJEEV NAGAR	48.80	2.01	FUNCTIONAL	-
29	LALGHATI 132	33KV BHADBHA-1	48.80	5.50	FUNCTIONAL	-
30	LALGHATI 132	33KV BHADBHA-2	48.80	7.00	FUNCTIONAL	-
31	LALGHATI 132	33KV KAMLANEHRU	48.80	5.00	FUNCTIONAL	-
32	LALGHATI 132	33KV LALGHATI-1	48.80	4.30	FUNCTIONAL	-
33	LALGHATI 132	33KV LALGHATI-2	48.80	4.80	FUNCTIONAL	-
34	LALGHATI 132	33KV LALGHATI-3	48.80	6.20	FUNCTIONAL	-
35	LALGHATI 132	33KV INTERCONNECTOR-1	48.80	7.90	FUNCTIONAL	-
36	LALGHATI 132	33KV INTERCONNECTOR-2	48.80	6.80	FUNCTIONAL	-
37	LALGHATI 132	33KV SHYAMPUR	49.20	5.40	FUNCTIONAL	-
38	LALGHATI 132	33KV KHAJUDI SADAK	48.80	1.00	FUNCTIONAL	-
39	LALGHATI 132	33KV MES NEORI	48.80	4.70	FUNCTIONAL	-
40	LALGHATI 132	33KV TELEPHONE EXCHANGE	48.80	4.40	FUNCTIONAL	-
41	LALGHATI 132	33KV GMC/HAMIDIA	48.80	4.70	FUNCTIONAL	-
42	EINTKHEDI 132	33KV BINTKHEDI	48.80	15.00	FUNCTIONAL	-
43	EINTKHEDI 132	33KV RATUA	48.80	3.70	FUNCTIONAL	-
44	EINTKHEDI 132	33KV SUKHI	48.80	1.00	FUNCTIONAL	-
45	EINTKHEDI 132	33KV AKVN	48.80	1.00	FUNCTIONAL	-
46	MANDIDEEP 220	33KV SIMARI	49.00	20.20	FUNCTIONAL	-
47	MANDIDEEP 220	33KV ARJUN NAGAR	49.00	22.70	FUNCTIONAL	-
48	MANDIDEEP 132	33KV BHOPAL-I	48.80	4.00	FUNCTIONAL	-
49	MANDIDEEP 132	33KV BHOPAL-II	48.80	3.00	FUNCTIONAL	-
50	MANDIDEEP 132	33KV RAMAKHEDI	48.80	4.00	FUNCTIONAL	-
51	MANDIDEEP 132	33KV INTER CONNECTOR-IV	49.00	1.00	FUNCTIONAL	-
52	MANDIDEEP 132	33KV DAHOD	49.00	1.00	FUNCTIONAL	-
53	MACT BHOPAL 132	33KV CHAMBAL - I	48.80	26.90	FUNCTIONAL	-
54	MACT BHOPAL 132	33KV CHAMBAL - II	48.80	27.40	FUNCTIONAL	-
55	MACT BHOPAL 132	33KV SHAHPURA - I	48.80	20.30	FUNCTIONAL	-
56	MACT BHOPAL 132	33KV SHAHPURA - II	48.80	20.00	FUNCTIONAL	-
57	MACT BHOPAL 132	33KV KOTRA - I	48.80	16.10	FUNCTIONAL	-
58	MACT BHOPAL 132	33KV KOTRA - II	48.80	20.60	FUNCTIONAL	-
59	MACT BHOPAL 132	33KV KOTRA - III	48.80	13.00	FUNCTIONAL	-
60	MACT BHOPAL 132	33KV RATIBAD	48.80	10.00	FUNCTIONAL	-
61	MACT BHOPAL 132	33KV KOLAR	48.80	13.00	FUNCTIONAL	-
62	MACT BHOPAL 132	33KV REVERA TOWN	48.80	21.00	FUNCTIONAL	-
63	MACT BHOPAL 132	33KV NJA	48.80	7.00	FUNCTIONAL	-
64	MACT BHOPAL 132	33KV BAIRAGARH CHICHLI NO.1	48.80	18.00	FUNCTIONAL	-
65	MACT BHOPAL 132	33KV BADHIRI	48.80	5.40	FUNCTIONAL	-
66	MACT BHOPAL 132	33KV DANISH HILLS	48.80	19.60	FUNCTIONAL	-
67	MACT BHOPAL 132	33KV BAIRAGARH CHICHLI NO.2	48.80	19.40	FUNCTIONAL	-
68	RAISEN 132	33KV RAISEN	48.80	3.49	FUNCTIONAL	-
69	RAISEN 132	33KV GAIRATGANJ	49.00	3.73	FUNCTIONAL	-
70	RAISEN 132	33KV NAKTARA	49.00	4.20	FUNCTIONAL	-
71	RAISEN 132	33KV BARLA	49.00	1.58	FUNCTIONAL	-
72	RAISEN 132	33KV NEEMKHEDA	49.00	5.28	FUNCTIONAL	-
73	RAISEN 132	33KV PAIMAD	49.00	5.00	FUNCTIONAL	-
74	RAISEN 132	33KV SULTANPUR	49.00	7.68	FUNCTIONAL	-
75	NASRULLAGANJ 132	33KV REHTI	49.40	11.00	FUNCTIONAL	-
76	NASRULLAGANJ 132	33KV NASRULLAGANJ 1	49.40	11.80	FUNCTIONAL	-
77	NASRULLAGANJ 132	33KV NASRULLAGANJ 2	49.40	4.00	FUNCTIONAL	-
78	NASRULLAGANJ 132	33KV MARDANPUR	49.40	12.40	FUNCTIONAL	-
79	NASRULLAGANJ 132	33KV NEELKHANT	49.40	6.20	FUNCTIONAL	-
80	NASRULLAGANJ 132	33KV LADHKUI	49.40	8.50	FUNCTIONAL	-
81	NASRULLAGANJ 132	33KV SEMALPANI	49.40	5.70	FUNCTIONAL	-
82	NASRULLAGANJ 132	33KV KANKARIYA	49.40	10.10	FUNCTIONAL	-
83	GOPALPUR 132	33KV GOPALPUR	49.40	4.16	FUNCTIONAL	-
84	GOPALPUR 132	33KV HAMIDGANJ	49.40	2.77	FUNCTIONAL	-
85	GOPALPUR 132	33KV VASUDEV	49.40	2.49	FUNCTIONAL	-
86	GOPALPUR 132	33KV GILLORE	49.40	4.02	FUNCTIONAL	-
87	GOPALPUR 132	33KV AE PHE	49.40	1.00	FUNCTIONAL	-
88	TAMOT 132	33KV OBEDULLAH GANJ	49.00	3.20	FUNCTIONAL	-
89	TAMOT 132	33KV GOHAR GANJ	49.00	5.20	FUNCTIONAL	-
90	BAGRODA 132	33KV RAMAKHEDI	49.20	6.39	FUNCTIONAL	-
91	BAGRODA 132	33KV UMRAVGANJ	49.20	4.09	FUNCTIONAL	-
92	ASHTA 400	33KV JAWAR	48.80	6.90	FUNCTIONAL	-
93	ASHTA 400	33KV KOTHRI	49.20	14.30	FUNCTIONAL	-
94	ASHTA 400	33KV AMLAHA	49.20	18.60	FUNCTIONAL	-
95	ASHTA 400	33KV SEWDA	49.20	13.10	FUNCTIONAL	-
96	ASHTA 400	33KV MAINA	49.20	12.80	FUNCTIONAL	-
97	ASHTA 400	33KV KAJLAS	49.20	7.20	FUNCTIONAL	-

98	ASHTA 400	33KV AMLAMJJU	49.20	14.90	FUNCTIONAL	-	-
99	ASHTA 400	33KV CHINNOCHA	49.20	12.00	FUNCTIONAL	-	-
100	ASHTA 132	33KV DODI	49.20	9.22	FUNCTIONAL	-	-
101	ASHTA 132	33KV KILERAMA	49.20	15.66	FUNCTIONAL	-	-
102	ASHTA 132	33KV ASHTA	48.80	7.62	FUNCTIONAL	-	-
103	ASHTA 132	33KV ICHHAWAR	49.20	15.13	FUNCTIONAL	-	-
104	ASHTA 132	33KV KHACHROD	49.20	8.16	FUNCTIONAL	-	-
105	ASHTA 132	33KV JAWAR	49.20	13.60	FUNCTIONAL	-	-
106	ASHTA 132	33KV LASUDIYAV.SINGH	49.20	16.09	FUNCTIONAL	-	-
107	KHATEGAON 132	33KV KHATEGAON	49.40	11.80	FUNCTIONAL	-	-
108	KHATEGAON 132	33KV NEMAWAR	49.40	10.90	FUNCTIONAL	-	-
109	KHATEGAON 132	33KV KOLARI	49.40	7.50	FUNCTIONAL	-	-
110	KHATEGAON 132	33KV AJNAS	49.40	13.80	FUNCTIONAL	-	-
111	KHATEGAON 132	33KV DEEPGAON	49.40	8.80	FUNCTIONAL	-	-
112	SATWAS 132	33KV PALASI	49.40	9.70	FUNCTIONAL	-	-
113	SATWAS 132	33KV SATWAS	49.40	11.00	FUNCTIONAL	-	-
114	SATWAS 132	33KV PIPALKOTA	49.40	10.50	FUNCTIONAL	-	-
115	SATWAS 132	33KV BAJAGWADA	49.40	16.30	FUNCTIONAL	-	-
116	SATWAS 132	33KV KANTAPHOD	49.40	12.60	FUNCTIONAL	-	-
117	KANNOD 132	33KV BUJWAD	49.40	15.10	FUNCTIONAL	-	-
118	KANNOD 132	33KV KUSMANIYA	49.40	13.80	FUNCTIONAL	-	-
119	KANNOD 132	33KV OLAMBA	49.40	9.00	FUNCTIONAL	-	-
120	KANNOD 132	33KV VIKRAMPUR	49.40	10.20	FUNCTIONAL	-	-
121	KANNOD 132	33KV DEHRIYA	49.40	15.60	FUNCTIONAL	-	-
122	KANNOD 132	33KV KANNOD	49.40	6.30	FUNCTIONAL	-	-
123	KANNOD 132	33KV M.S.K.	49.40	4.60	FUNCTIONAL	-	-
124	ARNIYA KALAN 132	33KV ARNIYA KALAN	49.20	5.88	FUNCTIONAL	-	-
125	ARNIYA KALAN 132	33KVDHALLAGHOSHI	49.20	10.60	FUNCTIONAL	-	-
126	ARNIYA KALAN 132	33KV ARNDIYA	49.20	7.30	FUNCTIONAL	-	-
127	ARNIYA KALAN 132	33KV POCHANER	49.20	10.22	FUNCTIONAL	-	-
128	ARNIYA KALAN 132	33KV BERCHHIA DATAR	49.20	12.80	FUNCTIONAL	-	-
129	POLAYKALAN 132	33KV POLAYKALAN FEEDER	48.80	12.70	FUNCTIONAL	-	-
130	POLAYKALAN 132	33KV A.BARODIYA FEEDER	48.80	9.40	FUNCTIONAL	-	-
131	POLAYKALAN 132	33KV KHATSUR FEEDER	48.80	13.50	FUNCTIONAL	-	-
132	POLAYKALAN 132	33KV KHADI FEEDER	48.80	14.90	FUNCTIONAL	-	-
133	POLAYKALAN 132	33KV PIPALRAWA FEEDER	48.80	14.90	FUNCTIONAL	-	-
134	PIPARIYA 220	33KV PAPARPANI	49.00	11.23	FUNCTIONAL	-	-
135	PIPARIYA 220	33KV PIPARIYA -SOUTH	49.00	3.16	FUNCTIONAL	-	-
136	PIPARIYA 132	33KV PIPARIYA TOWN	49.20	10.00	FUNCTIONAL	-	-
137	PIPARIYA 132	33KV SOHAGPUR	49.20	8.00	FUNCTIONAL	-	-
138	PIPARIYA 132	33KV KHANWAR	49.20	8.00	FUNCTIONAL	-	-
139	PIPARIYA 132	33KV SHANKHANI	49.20	14.00	FUNCTIONAL	-	-
140	PIPARIYA 132	33KV SANDIYA	49.20	13.00	FUNCTIONAL	-	-
141	PIPARIYA 132	33KV H.T. CONSUMER	48.80	12.00	FUNCTIONAL	-	-
142	PIPARIYA 132	33KV TUTHA DEHALWADA	49.20	12.00	FUNCTIONAL	-	-
143	PIPARIYA 132	33KV MACHHA	49.20	5.00	FUNCTIONAL	-	-
144	PIPARIYA 132	33KV SOHAPUR	49.20	10.00	FUNCTIONAL	-	-
145	SOHAGPUR 132	33KV RANIGOHAN	49.00	1.00	FUNCTIONAL	-	-
146	SOHAGPUR 132	33KV MAHUKHEDA	49.00	1.00	FUNCTIONAL	-	-
147	SOHAGPUR 132	33KV CHARGAON	49.00	2.00	FUNCTIONAL	-	-
148	BANKHEDI 132	33KV UMARDHA	49.00	10.50	FUNCTIONAL	-	-
149	BANKHEDI 132	33KV CHANDON	49.00	10.70	FUNCTIONAL	-	-
150	BANKHEDI 132	33KV MACHHERA	49.00	14.70	FUNCTIONAL	-	-
151	BANKHEDI 132	33KV UMARDHA -II	49.00	1.50	FUNCTIONAL	-	-
152	BARELI 132	33KV KUNDALI	49.00	11.00	FUNCTIONAL	-	-
153	BARELI 132	33KV BORAS	49.00	10.00	FUNCTIONAL	-	-
154	BARELI 132	33KV GURADIYA	49.00	11.00	FUNCTIONAL	-	-
155	BARELI 132	33KV KAMTONE	49.00	6.00	FUNCTIONAL	-	-
156	BARELI 132	33KV TIKHAWAN	49.00	4.00	FUNCTIONAL	-	-
157	BARELI 132	33KV MAHESHWAR	49.00	12.00	FUNCTIONAL	-	-
158	BARELI 132	33KV DIMADA	49.00	14.00	FUNCTIONAL	-	-
159	BARELI 132	33KV HARSILI	49.00	9.00	FUNCTIONAL	-	-
160	BARELI 132	33KV BAGHIPIPARIYA	49.00	5.00	FUNCTIONAL	-	-
161	BARELI 132	33KV KHARGON	49.00	10.00	FUNCTIONAL	-	-
162	SILWANI 132	33KV SAIKHEDA FEEDER	49.00	5.60	FUNCTIONAL	-	-
163	SILWANI 132	33KV BAKSHI FEEDER	49.00	4.90	FUNCTIONAL	-	-
164	TENDUKHEDA 132	33KV SUNHETI	49.00	2.50	FUNCTIONAL	-	-
165	TENDUKHEDA 132	33KV MADANPUR	49.00	3.20	FUNCTIONAL	-	-
166	UDAIPURA 220	33KV BORAS FEEDER	49.00	16.00	FUNCTIONAL	-	-
167	UDAIPURA 220	33KV VEEKALPUR FEEDER	49.00	12.00	FUNCTIONAL	-	-
168	UDAIPURA 220	33KV UDAIPURA FEEDER	49.00	17.00	FUNCTIONAL	-	-
169	UDAIPURA 220	33KV THALA DIGAWAN FEEDER	49.00	18.00	FUNCTIONAL	-	-
170	UDAIPURA 220	33KV NEW THALA DIGAWAN	49.00	13.00	FUNCTIONAL	-	-
171	GAIRATGANJ 132	33KV DEHGAON	49.00	7.50	FUNCTIONAL	-	-
172	GAIRATGANJ 132	33KV GAIRATGANJ	49.00	2.50	FUNCTIONAL	-	-
173	GAIRATGANJ 132	33KV BEGAMGANJ	49.00	3.00	FUNCTIONAL	-	-
174	GAIRATGANJ 132	33KV SILWANI	49.00	2.70	FUNCTIONAL	-	-
175	GAIRATGANJ 132	33KV DAHNADIYA	49.00	8.00	FUNCTIONAL	-	-
176	GAIRATGANJ 132	33KV SAMNAPUR	49.00	5.10	FUNCTIONAL	-	-
177	IT PARK BADWAI 132	-	-	-	UNDER COMM.	Oct-22	New Sub-Station
178	BINA 220	33KV SATORIA	49.00	0.50	FUNCTIONAL	-	-
179	BINA 220	33KV RAMNAGAR	49.00	3.00	FUNCTIONAL	-	-
180	BINA 220	33KV BINA	48.80	5.00	FUNCTIONAL	-	-
181	BINA 220	33KV KHMILASA	49.00	1.00	FUNCTIONAL	-	-
182	BINA 220	33KV PGCL	49.00	1.50	FUNCTIONAL	-	-
183	BINA 220	33KV BORL	49.00	3.50	FUNCTIONAL	-	-
184	BINA 220	33KV WCR	49.00	0.20	FUNCTIONAL	-	-
185	BINA 220	33KV WATER WORKS	49.00	1.00	FUNCTIONAL	-	-
186	BINA 220	33KV KOHA	49.00	1.00	FUNCTIONAL	-	-
187	RAHATGARH 132	33KV RAHATGARH	49.00	2.00	FUNCTIONAL	-	-
188	RAHATGARH 132	33KV JHLA	49.00	1.00	FUNCTIONAL	-	-
189	RAHATGARH 132	33KV SEHORA	49.00	1.00	FUNCTIONAL	-	-
190	RAHATGARH 132	33KV MASURAYI	49.00	1.50	FUNCTIONAL	-	-
191	KHURAI 132	33KV KHURAI	49.00	9.13	FUNCTIONAL	-	-
192	KHURAI 132	33KV BRODIYA	49.00	4.67	FUNCTIONAL	-	-
193	KHURAI 132	33KV KOHA	49.00	5.38	FUNCTIONAL	-	-
194	KHURAI 132	33KV BERI	49.00	5.09	FUNCTIONAL	-	-
195	MUNGAWALI 132	33KV BAHADURPUR	49.00	7.00	FUNCTIONAL	-	-
196	MUNGAWALI 132	33KV SEHRAI	49.00	5.40	FUNCTIONAL	-	-
197	MUNGAWALI 132	33KV PIPRAYI	49.00	3.50	FUNCTIONAL	-	-
198	MUNGAWALI 132	33KV MUNGAWALI	49.00	3.00	FUNCTIONAL	-	-
199	KHIMLASA 132	33KV KHMILASA	49.00	1.66	FUNCTIONAL	-	-
200	KHIMLASA 132	33KV RAJVANS	49.00	3.22	FUNCTIONAL	-	-
201	KHIMLASA 132	33KV BHANGARH	49.00	1.00	FUNCTIONAL	-	-
202	KHIMLASA 132	33KV MALTHONE	49.00	2.65	FUNCTIONAL	-	-
203	VIDISHA 220	33KV AHMEDAPUR ROAD	48.80	5.00	FUNCTIONAL	-	-
204	VIDISHA 220	33KV VIDISHA	48.80	8.00	FUNCTIONAL	-	-

205	VIDISHA 220	33KV H.T. CON.	48.80	8.00	FUNCTIONAL	-	-
206	VIDISHA 220	33KV BAN	49.00	5.00	FUNCTIONAL	-	-
207	VIDISHA 220	33KV MANORA	49.00	1.00	FUNCTIONAL	-	-
208	VIDISHA 220	33KV DHOLKHEDI	49.00	7.00	FUNCTIONAL	-	-
209	VIDISHA 220	33KV SANCHI	48.80	3.00	FUNCTIONAL	-	-
210	VIDISHA 220	33KV NAGAR PALIKA (MENDKI )	49.00	1.00	FUNCTIONAL	-	-
211	VIDISHA 220	33KV HANSUA	49.00	7.00	FUNCTIONAL	-	-
212	VIDISHA 220	33KV KARARIYA	49.00	10.00	FUNCTIONAL	-	-
213	VIDISHA 220	33KV HANSUA II	49.00	2.00	FUNCTIONAL	-	-
214	GANJASODA 220	33KV JAIL	49.00	3.00	FUNCTIONAL	-	-
215	GANJASODA 220	33KV GANJASODA	49.00	11.00	FUNCTIONAL	-	-
216	GANJASODA 220	33KV SOMWARA	49.00	6.00	FUNCTIONAL	-	-
217	GANJASODA 220	33KV MASOODPUR	49.00	8.00	FUNCTIONAL	-	-
218	GANJASODA 220	33KV UDAIPUR	49.00	5.00	FUNCTIONAL	-	-
219	GANJASODA 220	33KV BANWA JAGR	49.00	5.00	FUNCTIONAL	-	-
220	GANJASODA 220	33KV KANJANA PATHAR	48.80	2.00	FUNCTIONAL	-	-
221	BERASIA 132	33KV SAPAUA	49.00	6.00	FUNCTIONAL	-	-
222	BERASIA 132	33KV BERASIA	49.00	6.00	FUNCTIONAL	-	-
223	BERASIA 132	33KV RATUA	49.00	5.00	FUNCTIONAL	-	-
224	BERASIA 132	33KV KULHORE	49.00	7.00	FUNCTIONAL	-	-
225	BERASIA 132	33KV SONKATCHH	49.00	5.00	FUNCTIONAL	-	-
226	SIRONJ 132	33KV SIRONJ	49.00	6.00	FUNCTIONAL	-	-
227	SIRONJ 132	33KV DEVPUR	49.00	5.00	FUNCTIONAL	-	-
228	SIRONJ 132	33KV CHHANPU	49.00	2.00	FUNCTIONAL	-	-
229	SIRONJ 132	33KV SHAHIPUR	49.00	5.00	FUNCTIONAL	-	-
230	SIRONJ 132	33KV BHORIYA	49.00	4.00	FUNCTIONAL	-	-
231	SIRONJ 132	33KV UHAR	49.00	5.00	FUNCTIONAL	-	-
232	SIRONJ 132	33KV DEEPNAKEDA	49.00	2.00	FUNCTIONAL	-	-
233	SIRONJ 132	33KV BHAIRO BABA	49.00	2.00	FUNCTIONAL	-	-
234	SHAMSHABAD 132	33KV TINSHIYAI	49.00	6.00	FUNCTIONAL	-	-
235	SHAMSHABAD 132	33KV GOLNA	49.00	7.00	FUNCTIONAL	-	-
236	SHAMSHABAD 132	33KV SHAMSHABAD	49.00	6.00	FUNCTIONAL	-	-
237	SHAMSHABAD 132	33KV SUHAYA	49.00	1.00	FUNCTIONAL	-	-
238	SHAMSHABAD 132	33KV JAL NIHAM	49.00	0.20	FUNCTIONAL	-	-
239	RUNHA 132	33KV RUNAHA	49.00	8.00	FUNCTIONAL	-	-
240	RUNHA 132	33KV RAMGADHA	49.00	9.00	FUNCTIONAL	-	-
241	RUNHA 132	33KV NAJIRABAD	49.00	9.00	FUNCTIONAL	-	-
242	RUNHA 132	33KV SAWANSI	49.00	10.00	FUNCTIONAL	-	-
243	RUNHA 132	33KV NAYASAMANAD	49.00	4.00	FUNCTIONAL	-	-
244	SAHARWASA 132	33KV KULHORE (UDAIPUR)	49.00	7.00	FUNCTIONAL	-	-
245	SAHARWASA 132	33KV SAHARWASA	49.00	3.00	FUNCTIONAL	-	-
246	SAHARWASA 132	33KV KURWA	49.00	8.00	FUNCTIONAL	-	-
247	SAHARWASA 132	33KV PATHARI	49.00	4.00	FUNCTIONAL	-	-
248	SAHARWASA 132	33KV TYONDA	49.00	4.00	FUNCTIONAL	-	-
249	LATERI 132	33KV LATERI	49.00	3.00	FUNCTIONAL	-	-
250	LATERI 132	33KV ALIGHAR KOTRA	49.00	1.00	FUNCTIONAL	-	-
251	LATERI 132	33KV MADANKHEDI	49.00	6.00	FUNCTIONAL	-	-
252	LATERI 132	33KV ANANTPUR	49.00	5.00	FUNCTIONAL	-	-
253	SALAMATPUR 132	33KV DEWANGANJ	49.00	6.00	FUNCTIONAL	-	-
254	SALAMATPUR 132	33KV AAMKHEDA	49.00	6.00	FUNCTIONAL	-	-
255	SALAMATPUR 132	33KV SALAMATPUR INDUSTRIAL	49.00	4.00	FUNCTIONAL	-	-
256	SALAMATPUR 132	33KV BERKHEDI	49.00	8.00	FUNCTIONAL	-	-
257	SALAMATPUR 132	33KV GOVT.M.C.	49.00	0.20	FUNCTIONAL	-	-
258	GYARASPUR 132	33KV GYARASPUR	49.00	8.00	FUNCTIONAL	-	-
259	GYARASPUR 132	33KV GHOSUA	49.00	3.00	FUNCTIONAL	-	-
260	GYARASPUR 132	33KV NEW MANORA	49.00	5.00	FUNCTIONAL	-	-
261	GYARASPUR 132	33KV SEHOD	49.00	3.00	FUNCTIONAL	-	-
262	GUNA 220	33KV UMRI	49.20	12.70	FUNCTIONAL	-	-
263	GUNA 220	33KV GARHA	49.20	14.60	FUNCTIONAL	-	-
264	GUNA 220	33KV MURADPUR	49.20	11.50	FUNCTIONAL	-	-
265	GUNA 220	33KV BHADORA	49.20	3.20	FUNCTIONAL	-	-
266	GUNA 220	33KV BEHTAGHAT	49.20	9.60	FUNCTIONAL	-	-
267	GUNA 220	33KV HARIPUR 23/9/15	48.80	16.60	FUNCTIONAL	-	-
268	GUNA 220	33KV BAJRANGAR	49.20	19.6	FUNCTIONAL	-	-
269	GUNA 220	33KV NAVODAYA	48.80	5.50	FUNCTIONAL	-	-
270	GUNA 220	33KV SINGWASA	49.20	13.10	FUNCTIONAL	-	-
271	GUNA 220	33KV KUSMODA IND.	49.20	0.90	FUNCTIONAL	-	-
272	ASHOKNAGAR 220	33KV ATHAI KHEDA	49.20	15.90	FUNCTIONAL	-	-
273	ASHOKNAGAR 220	33KV KOLUA	49.20	2.40	FUNCTIONAL	-	-
274	ASHOKNAGAR 220	33KV SHADORA	48.80	9.50	FUNCTIONAL	-	-
275	ASHOKNAGAR 220	33KV TOOMAN	49.20	18.00	FUNCTIONAL	-	-
276	ASHOKNAGAR 220	33KV KHAJURIYA KALA	49.20	12.70	FUNCTIONAL	-	-
277	ASHOKNAGAR 220	33KV SEJI	49.20	14.20	FUNCTIONAL	-	-
278	ASHOKNAGAR 220	33KV ESHAGARG (VIJAYPUR)	48.80	15.50	FUNCTIONAL	-	-
279	ASHOKNAGAR 220	33KV SEMRAHAAT ( BHESARBAS)	49.20	16.90	FUNCTIONAL	-	-
280	ASHOKNAGAR 220	33KV EMLA	49.20	20.50	FUNCTIONAL	-	-
281	RAGHOGARH 132	33KV RAGHOGARH	49.20	9.90	FUNCTIONAL	-	-
282	RAGHOGARH 132	33KV JAMNER	48.80	6.00	FUNCTIONAL	-	-
283	RAGHOGARH 132	33KV RUTHIYAI	48.80	7.80	FUNCTIONAL	-	-
284	RAGHOGARH 132	33KV KUMBHRAJ-I	48.80	12.40	FUNCTIONAL	-	-
285	RAGHOGARH 132	33KV SAKATPUR	49.20	6.50	FUNCTIONAL	-	-
286	RAGHOGARH 132	33KV J.P. INSTITUTE	48.80	0.20	FUNCTIONAL	-	-
287	RAGHOGARH 132	33KV DHARNAWDA	49.20	8.50	FUNCTIONAL	-	-
288	RAGHOGARH 132	33KV (KUMBHRAJ-II)	49.20	12.90	FUNCTIONAL	-	-
289	RAGHOGARH 132	33KV AWAN	49.20	12.10	FUNCTIONAL	-	-
290	BHONRA 132	33KV COLONY	49.20	12.20	FUNCTIONAL	-	-
291	BHONRA 132	33KV GADLA	49.20	13.90	FUNCTIONAL	-	-
292	BHONRA 132	33KV NEW GADLA	49.20	13.10	FUNCTIONAL	-	-
293	BHONRA 132	33KV BHONRA	49.20	8.00	FUNCTIONAL	-	-
294	BHONRA 132	33KV SAIN BOARD	49.20	10.20	FUNCTIONAL	-	-
295	BHONRA 132	33KV PARATH	49.20	11.80	FUNCTIONAL	-	-
296	BHONRA 132	33KV BAMOR	48.80	12.20	FUNCTIONAL	-	-
297	BHONRA 132	33KV NEW BAMORE	49.20	5.60	FUNCTIONAL	-	-
298	BHONRA 132	33KV MAGORADHA	49.20	4.50	FUNCTIONAL	-	-
299	BHONRA 132	33KV PATHA	49.20	17.00	FUNCTIONAL	-	-
300	MAKSUDANGARH 132	33KV TELOGAON	49.20	11.90	FUNCTIONAL	-	-
301	MAKSUDANGARH 132	33KV PAIPALKHEDI	49.20	10.70	FUNCTIONAL	-	-
302	MAKSUDANGARH 132	33KV JAMNER	48.80	9.30	FUNCTIONAL	-	-
303	MAKSUDANGARH 132	33KV MAKSDUDANGARH	49.20	12.80	FUNCTIONAL	-	-
304	MAKSUDANGARH 132	33KV UKAWAD	49.20	11.10	FUNCTIONAL	-	-
305	ARON 132	33KV ARON	48.80	11.70	FUNCTIONAL	-	-
306	ARON 132	33KV BARKHEDA	49.20	9.60	FUNCTIONAL	-	-
307	ARON 132	33KV BHADORE	49.20	13.60	FUNCTIONAL	-	-
308	ARON 132	33KV BAROD	49.20	10.10	FUNCTIONAL	-	-
309	ARON 132	33KV PANWARIHAT	49.20	7.20	FUNCTIONAL	-	-
310	ARON 132	33KV ANANDPUR	49.20	9.70	FUNCTIONAL	-	-
311	ARON 132	33KV RAMPUR	49.20	10.50	FUNCTIONAL	-	-

312	KOTHIYA 132	33KV SEJI	49.20	7.10	FUNCTIONAL	-	-
313	KOTHIYA 132	33KV MAGRANA	49.20	10.80	FUNCTIONAL	-	-
314	KOTHIYA 132	33KV CHAKCHOROLI	49.20	9.80	FUNCTIONAL	-	-
315	KOTHIYA 132	33KV HINOTIYA	49.20	8.20	FUNCTIONAL	-	-
316	ESAGARH 132	33KV N AISARAI	49.20	12.40	FUNCTIONAL	-	-
317	ESAGARH 132	33KV DAKONI	49.20	14.90	FUNCTIONAL	-	-
318	ESAGARH 132	33KV PAR SOL	49.20	14.40	FUNCTIONAL	-	-
319	ESAGARH 132	33KV ESAGARH	48.80	12.90	FUNCTIONAL	-	-
320	KAPASI 132	33KV KAPASI	49.20	16.70	FUNCTIONAL	-	-
321	KAPASI 132	33KV FATHEGARH	48.80	10.75	FUNCTIONAL	-	-
322	KAPASI 132	33KV MANA	49.20	16.49	FUNCTIONAL	-	-
323	KAPASI 132	33KV KALORA	49.20	6.03	FUNCTIONAL	-	-
324	CHACHODA 132	33KV CHACHODA	48.80	5.40	FUNCTIONAL	-	-
325	CHACHODA 132	33KV RAMDI	49.20	17.20	FUNCTIONAL	-	-
326	CHACHODA 132	33KV SANAI	49.20	10.80	FUNCTIONAL	-	-
327	MYANA 132	33KV SANDHUA	49.20	11.40	FUNCTIONAL	-	-
328	SHIVPURI 220	33KV NOHRI	49.40	2.00	FUNCTIONAL	-	-
329	SHIVPURI 220	33KV BHESANA	49.40	8.00	FUNCTIONAL	-	-
330	SHIVPURI 220	33KV SATANWARA	49.40	15.00	FUNCTIONAL	-	-
331	SHIVPURI 220	33KV RONKHEDI	49.40	3.00	FUNCTIONAL	-	-
332	SHIVPURI 220	33KV JASRAJPUR	49.40	8.00	FUNCTIONAL	-	-
333	SHIVPURI 220	33KV DAKBANGALA	48.80	9.00	FUNCTIONAL	-	-
334	SHIVPURI 220	33KV BANGANGA	48.80	9.00	FUNCTIONAL	-	-
335	SHIVPURI 220	33KV BALAJIDHAM	48.80	2.60	FUNCTIONAL	-	-
336	SHIVPURI 220	33KV C.M.O.	48.80	2.00	FUNCTIONAL	-	-
337	SHIVPURI 132	33KV POHRI	49.40	4.00	FUNCTIONAL	-	-
338	SHIVPURI 132	33KV BHATNAWAR	49.40	4.70	FUNCTIONAL	-	-
339	SHIVPURI 132	33KV KHARAI	49.40	4.00	FUNCTIONAL	-	-
340	SHIVPURI 132	33KV BHAGORA	49.40	12.00	FUNCTIONAL	-	-
341	SHIVPURI 132	33KV RATOR	49.40	5.00	FUNCTIONAL	-	-
342	SHIVPURI 132	33KV SHARDA SOLVENT	48.80	1.20	FUNCTIONAL	-	-
343	SHIVPURI 132	33KV HOMEGUARD	48.80	9.00	FUNCTIONAL	-	-
344	SHIVPURI 132	33KV FATEHPUR	48.80	10.00	FUNCTIONAL	-	-
345	SHIVPURI 132	33KV FOOD PARK	48.80	5.00	FUNCTIONAL	-	-
346	PICHHORE 132	33KV MAYAPUR	49.40	4.00	FUNCTIONAL	-	-
347	PICHHORE 132	33KV KHOD	49.40	8.00	FUNCTIONAL	-	-
348	PICHHORE 132	33KV KARARKHEDA	49.40	2.00	FUNCTIONAL	-	-
349	PICHHORE 132	33KV NAYACHAURAHA	49.40	4.00	FUNCTIONAL	-	-
350	PICHHORE 132	33KV PICHHORE TOWN	49.40	5.00	FUNCTIONAL	-	-
351	SHEOPUR 132	33KV KALARANA	49.40	15.00	FUNCTIONAL	-	-
352	SHEOPUR 132	33KV BAGDUA	49.40	16.50	FUNCTIONAL	-	-
353	SHEOPUR 132	33KV PREAMSAR	49.40	14.00	FUNCTIONAL	-	-
354	SHEOPUR 132	33KV JAIDA	49.40	15.00	FUNCTIONAL	-	-
355	SHEOPUR 132	33KV PANDOLA	49.40	17.00	FUNCTIONAL	-	-
356	SHEOPUR 132	33KV SOINKALAN	49.40	8.00	FUNCTIONAL	-	-
357	SHEOPUR 132	33KV JANPURA	49.40	11.00	FUNCTIONAL	-	-
358	SHEOPUR 132	33KV DHONTI	49.40	19.00	FUNCTIONAL	-	-
359	SHEOPUR 132	33KV GORUS	49.40	11.60	FUNCTIONAL	-	-
360	SHEOPUR 132	33KV MAYAPUR	49.40	8.00	FUNCTIONAL	-	-
361	SHEOPUR 132	33KV NEW KARAHAL	49.40	13.00	FUNCTIONAL	-	-
362	SHEOPUR 132	33KV RAMBADI	49.40	12.70	FUNCTIONAL	-	-
363	SHEOPUR 132	33KV PALIROAD	48.80	7.60	FUNCTIONAL	-	-
364	SHEOPUR 132	33KV DHANMILL	48.80	8.30	FUNCTIONAL	-	-
365	KARERA 132	33KV KARERA	49.40	10.80	FUNCTIONAL	-	-
366	KARERA 132	33KV DINARA	49.40	6.75	FUNCTIONAL	-	-
367	KARERA 132	33KV TEELA	49.40	13.00	FUNCTIONAL	-	-
368	KARERA 132	33KV NARAUJA	49.40	8.85	FUNCTIONAL	-	-
369	KARERA 132	33KV KARAI	49.40	12.65	FUNCTIONAL	-	-
370	KOLARAS 132	33KV KOLARAS	49.40	5.00	FUNCTIONAL	-	-
371	KOLARAS 132	33KV MANIKHEDA	49.40	8.15	FUNCTIONAL	-	-
372	KOLARAS 132	33KV LUKWASA	49.40	6.00	FUNCTIONAL	-	-
373	KOLARAS 132	33KV CHANDORIYA	49.40	6.30	FUNCTIONAL	-	-
374	KOLARAS 132	33KV RAI	49.40	1.20	FUNCTIONAL	-	-
375	KOLARAS 132	33KV BADARWAS	49.40	7.65	FUNCTIONAL	-	-
376	BARODA 132	33KV BARODA	49.40	10.75	FUNCTIONAL	-	-
377	BARODA 132	33KV PANDOLA	49.40	15.75	FUNCTIONAL	-	-
378	BARODA 132	33KV SALMANIYA	49.40	15.30	FUNCTIONAL	-	-
379	BARODA 132	33KV LALITPURA	49.40	18.30	FUNCTIONAL	-	-
380	BARODA 132	33KV BHURWADA	49.40	17.60	FUNCTIONAL	-	-
381	BARODA 132	33KV ALAPURA	49.40	15.55	FUNCTIONAL	-	-
382	BAIRAD 132	33KV BAIRAD	49.40	5.55	FUNCTIONAL	-	-
383	BAIRAD 132	33KV BHATNAWAR	49.40	11.50	FUNCTIONAL	-	-
384	BAIRAD 132	33KV GOVARDHAN	49.40	4.00	FUNCTIONAL	-	-
385	BAIRAD 132	33KV GAZIGARH	49.40	7.00	FUNCTIONAL	-	-
386	MADA 132	33KV MADA	49.40	4.65	FUNCTIONAL	-	-
387	MADA 132	33KV KHARE	49.40	6.00	FUNCTIONAL	-	-
388	MADA 132	33KV INDIR	49.40	5.20	FUNCTIONAL	-	-
389	MADA 132	33KV KHATORA	49.40	2.40	FUNCTIONAL	-	-
390	SHEOPUR 220	33KV DATARDAN	49.40	15.00	FUNCTIONAL	-	-
391	SHEOPUR 220	33KV GURUNAVADA	49.40	16.80	FUNCTIONAL	-	-
392	SHEOPUR 220	33KV TILLIPUR	49.40	9.45	FUNCTIONAL	-	-
393	SHEOPUR 220	33KV SOTHWA	49.40	14.70	FUNCTIONAL	-	-
394	SHEOPUR 220	33KV DHIROLI	49.40	15.65	FUNCTIONAL	-	-
395	SHEOPUR 220	33KV AASHIDA	49.40	13.55	FUNCTIONAL	-	-
396	SUTHALIYA 132	33KV SUTHALIYA	49.20	5.00	FUNCTIONAL	-	-
397	NARSINGHGARH 132	33KV ANDALHEDA	49.20	7.00	FUNCTIONAL	-	-
398	MACHALPUR 132	33KV POLKHEDA	49.20	3.00	FUNCTIONAL	-	-
399	PACHORE 132	33KV BODA_KARANWASH	49.20	10.00	FUNCTIONAL	-	-
400	SARANGPUR 132	33KV MANGLAJ_ASARETA	49.20	10.00	FUNCTIONAL	-	-
401	BIAORA 132	33KV KACHRI_DOODHI	49.20	10.00	FUNCTIONAL	-	-
402	RAJGARH 220	33KV PILODI	49.20	6.00	FUNCTIONAL	-	-
403	KHILCHIPUR 132	33KV BHOJPUR_CHAPIHEDA	49.20	9.00	FUNCTIONAL	-	-
404	JERAPUR 132	33KV BATAWDA_KODAKHYA	49.20	8.00	FUNCTIONAL	-	-
405	KHUJINER 132	33KV KALIYAKHEDI	49.20	10.00	FUNCTIONAL	-	-
406	GWALIOR-II 220	33KV CITY-I	48.80	13.15	FUNCTIONAL	-	-
407	GWALIOR-II 220	33KV CITY-II	48.80	14.24	FUNCTIONAL	-	-
408	GWALIOR-II 220	33KV DIG_NAYAGAON	48.80	0.48	FUNCTIONAL	-	-
409	GWALIOR-II 220	33KV BILAUA	49.00	24.24	FUNCTIONAL	-	-
410	MALANPUR 220	33KV FEEDER NO.1	49.00	4.00	FUNCTIONAL	-	-
411	MALANPUR 220	33KV FEEDER NO.4	49.00	3.00	FUNCTIONAL	-	-
412	MEHGAON 220	33KV BHIND	48.80	6.60	FUNCTIONAL	-	-
413	MEHGAON 220	33KV GORMI	49.00	9.20	FUNCTIONAL	-	-
414	MEHGAON 220	33KV GOHAD	49.00	ON	FUNCTIONAL	-	-
415	MEHGAON 220	33KV MOW	49.00	7.70	FUNCTIONAL	-	-
416	MEHGAON 220	33KV PIDORA	49.00	4.30	FUNCTIONAL	-	-
417	MEHGAON 220	33KV MEHGAON	49.00	6.10	FUNCTIONAL	-	-
418	MEHGAON 220	33KV GATA OLD	49.00	4.30	FUNCTIONAL	-	-

419	MEHGAON 220	33KV GATA-I	49.00	1.50	FUNCTIONAL	-	-
420	MEHGAON 220	33KV GINGARKHI	49.00	1.30	FUNCTIONAL	-	-
421	MOTIHEEL 132	33KV LADHERI	48.80	7.58	FUNCTIONAL	-	-
422	MOTIHEEL 132	33KV VINAY NAGAR	48.80	6.46	FUNCTIONAL	-	-
423	MOTIHEEL 132	33KV LAXMI GANJ	48.80	5.92	FUNCTIONAL	-	-
424	MOTIHEEL 132	33KV STONE PARK	48.80	4.56	FUNCTIONAL	-	-
425	MOTIHEEL 132	33KV MORAR	48.80	7.00	FUNCTIONAL	-	-
426	MOTIHEEL 132	33KV CARMEL CONVENT	48.80	3.00	FUNCTIONAL	-	-
427	MOTIHEEL 132	33KV J.C MILL	48.80	3.70	FUNCTIONAL	-	-
428	MOTIHEEL 132	33KV GOLPAHADIYA	48.80	6.14	FUNCTIONAL	-	-
429	MOTIHEEL 132	33KV TRANSPORT NAGAR	48.80	4.37	FUNCTIONAL	-	-
430	MOTIHEEL 132	33KV WATER WORKS	48.80	1.87	FUNCTIONAL	-	-
431	MOHNA 132	33KV MOHNA	49.00	5.00	FUNCTIONAL	-	-
432	MOHNA 132	33KV GHATIGAON	49.00	5.00	FUNCTIONAL	-	-
433	MOHNA 132	33KV SEHASRAM	49.00	5.00	FUNCTIONAL	-	-
434	MOHNA 132	33KV SUBHASPURA	49.00	5.00	FUNCTIONAL	-	-
435	HASTINAPUR 132	33KV SUKHLIHARI	49.00	10.74	FUNCTIONAL	-	-
436	HASTINAPUR 132	33KV BADERA	49.00	3.98	FUNCTIONAL	-	-
437	HASTINAPUR 132	33KV HASTINAPUR	49.00	3.74	FUNCTIONAL	-	-
438	HASTINAPUR 132	33KV DABKA	49.00	2.41	FUNCTIONAL	-	-
439	BHIND 132	33KV BTI FEEDER	48.80	12.00	FUNCTIONAL	-	-
440	BHIND 132	33KV I.T.I.FEEDER	48.80	11.00	FUNCTIONAL	-	-
441	BHIND 132	33KV E/ROAD	48.80	7.00	FUNCTIONAL	-	-
442	BHIND 132	33KV BHAROLI ROAD	49.00	9.00	FUNCTIONAL	-	-
443	BHIND 132	33KV MASOORI	49.00	5.00	FUNCTIONAL	-	-
444	BHIND 132	33KV I.T.I.RURAL	49.00	4.00	FUNCTIONAL	-	-
445	BHIND 132	33KV PRATAPPURA	49.00	4.00	FUNCTIONAL	-	-
446	BHIND 132	33KV AKODA	49.00	2.00	FUNCTIONAL	-	-
447	BHIND 132	33KV UMARI	49.00	5.00	FUNCTIONAL	-	-
448	BHIND 132	33KV PHOOP	49.00	6.00	FUNCTIONAL	-	-
449	BHIND 132	33KV ROOR	49.00	4.00	FUNCTIONAL	-	-
450	RON 132	33KV MIHONA	49.00	4.30	FUNCTIONAL	-	-
451	RON 132	33KV RON	49.00	3.10	FUNCTIONAL	-	-
452	RON 132	33KV NAYAGAON	49.00	2.90	FUNCTIONAL	-	-
453	RON 132	33KV MACHAND	49.00	1.60	FUNCTIONAL	-	-
454	RON 132	33KV GORAI	49.00	1.60	FUNCTIONAL	-	-
455	LAHAR 132	33KV LAHAR	49.00	2.60	FUNCTIONAL	-	-
456	LAHAR 132	33KV DABOH	49.00	8.60	FUNCTIONAL	-	-
457	LAHAR 132	33KV MADORI	49.00	0.90	FUNCTIONAL	-	-
458	LAHAR 132	33KV SHYAMPURA	49.00	4.70	FUNCTIONAL	-	-
459	GOHAD 132	33KV FEEDER SERVA	49.00	2.90	FUNCTIONAL	-	-
460	GOHAD 132	33KV GOHAD CITY	49.00	10.30	FUNCTIONAL	-	-
461	GOHAD 132	33KV ANDORI	49.00	7.40	FUNCTIONAL	-	-
462	GOHAD 132	33KV CHITORA	49.00	2.80	FUNCTIONAL	-	-
463	PRATAPPURA 132	33KV ATER	49.00	0.34	FUNCTIONAL	-	-
464	PRATAPPURA 132	33KV PRATAPPURA	49.00	0.56	FUNCTIONAL	-	-
465	PRATAPPURA 132	33KV SURUPURA	49.00	1.52	FUNCTIONAL	-	-
466	PRATAPPURA 132	33KV CHAOMO	49.00	1.06	FUNCTIONAL	-	-
467	PRATAPPURA 132	33KV GORMI	49.00	2.39	FUNCTIONAL	-	-
468	DATIA 220	33KV DABRA	49.40	20.00	FUNCTIONAL	-	-
469	DATIA 220	33KV SITAPUR	49.40	15.00	FUNCTIONAL	-	-
470	DATIA 220	33KV BADONI	49.40	16.00	FUNCTIONAL	-	-
471	DATIA 220	33KV GOUTAM NAGAR	48.80	12.00	FUNCTIONAL	-	-
472	DATIA 220	33KV RICHHARI	49.40	2.50	FUNCTIONAL	-	-
473	DABRA 132	33KV CHHIMAK	49.00	1.00	FUNCTIONAL	-	-
474	DABRA 132	33KV BHITARWAR	49.00	6.00	FUNCTIONAL	-	-
475	DABRA 132	33KV DABRA	49.00	10.00	FUNCTIONAL	-	-
476	DABRA 132	33KV LOHGARH	49.00	1.30	FUNCTIONAL	-	-
477	DABRA 132	33KV CHINORE	49.00	5.53	FUNCTIONAL	-	-
478	DABRA 132	33KV NEW PICHORE	49.00	5.00	FUNCTIONAL	-	-
479	DABRA 132	33KV MAGRORA	49.00	2.00	FUNCTIONAL	-	-
480	DABRA 132	33KV MASHUDPUR	49.00	7.00	FUNCTIONAL	-	-
481	DABRA 132	33KV JAIL ROAD	49.00	3.50	FUNCTIONAL	-	-
482	DATIA 132	33KV DABRA_GORAGHAT	49.40	7.32	FUNCTIONAL	-	-
483	DATIA 132	33KV DATIA	48.80	12.00	FUNCTIONAL	-	-
484	DATIA 132	33KV BHANDER	49.40	3.45	FUNCTIONAL	-	-
485	DATIA 132	33KV RAJGHAT	48.80	12.00	FUNCTIONAL	-	-
486	DATIA 132	33KV SITAPUR	49.40	1.00	FUNCTIONAL	-	-
487	DATIA 132	33KV DAGRAI	49.40	10.00	FUNCTIONAL	-	-
488	SEONDHA 132	33KV SEONDHA	49.40	9.00	FUNCTIONAL	-	-
489	SEONDHA 132	33KV MAGROL (INDERGARH)	49.40	3.00	FUNCTIONAL	-	-
490	SEONDHA 132	33KV BHAGUPURA (GR.-I)	49.40	14.00	FUNCTIONAL	-	-
491	SEONDHA 132	33KV LAUNCH (GR.-IV)	49.40	14.00	FUNCTIONAL	-	-
492	SEONDHA 132	33KV ALAMPUR (GR.-I)	49.00	12.00	FUNCTIONAL	-	-
493	BHANDER 132	33KV MELA GROUND	49.40	10.00	FUNCTIONAL	-	-
494	BHANDER 132	33KV T V TOWER	49.40	18.00	FUNCTIONAL	-	-
495	BHANDER 132	33KV SARSAI	49.40	5.44	FUNCTIONAL	-	-
496	BHANDER 132	33KV SALON BHAROLI	49.40	1.78	FUNCTIONAL	-	-
497	BHANDER 132	33KV PANDOKHAR	49.40	3.08	FUNCTIONAL	-	-
498	CHINORE 132	33KV BANWAR FEEDER	49.00	2.90	FUNCTIONAL	-	-
499	CHINORE 132	33KV CHINNOR	49.00	3.60	FUNCTIONAL	-	-
500	CHINORE 132	33KV KARHIYA	49.00	6.40	FUNCTIONAL	-	-
501	CHINORE 132	33KV GHARSONDI	49.00	7.00	FUNCTIONAL	-	-
502	INDERGARH 132	33KV LANCH	49.40	11.19	FUNCTIONAL	-	-
503	INDERGARH 132	33KV THERATE	49.40	14.33	FUNCTIONAL	-	-
504	INDERGARH 132	33KV RARUA RAI	49.40	18.49	FUNCTIONAL	-	-
505	INDERGARH 132	33KV Indergarh	49.40	16.68	FUNCTIONAL	-	-
506	BHITARWAR 132	33KV BHITARWAR	49.00	6.45	FUNCTIONAL	-	-
507	BHITARWAR 132	33KV BAGWAL	49.00	4.01	FUNCTIONAL	-	-
508	BHITARWAR 132	33KV GHATAMPUR	49.00	1.70	FUNCTIONAL	-	-
509	BHITARWAR 132	33KV DEVARIKALA	49.00	3.62	FUNCTIONAL	-	-
510	TIGHRA 132	33KV GIRWAI	48.80	11.90	FUNCTIONAL	-	-
511	TIGHRA 132	33KV GOLPAHADIA	48.80	10.88	FUNCTIONAL	-	-
512	TIGHRA 132	33KV DWARKAPURI	49.00	12.50	FUNCTIONAL	-	-
513	TIGHRA 132	33KV P.T.C.TIGHARA	48.80	2.00	FUNCTIONAL	-	-
514	TIGHRA 132	33KV BARAI	49.00	11.50	FUNCTIONAL	-	-
515	MAHALGAON 220	33KV RSF(MOMOPOLE-1)	48.80	7.53	FUNCTIONAL	-	-
516	MAHALGAON 220	33KV MELA	48.80	8.46	FUNCTIONAL	-	-
517	MAHALGAON 220	33KV AIR FORCE	48.80	2.66	FUNCTIONAL	-	-
518	MAHALGAON 220	33KV HIGH COURT	48.80	0.21	FUNCTIONAL	-	-
519	MAHALGAON 220	33KV LAKHANOTI	49.00	9.06	FUNCTIONAL	-	-
520	MAHALGAON 220	33KV DABKA(MOMOPOLE-II)	48.80	7.80	FUNCTIONAL	-	-
521	MAHALGAON 220	33KV DARPAR COLONY-2	48.80	1.92	FUNCTIONAL	-	-
522	MAHALGAON 220	33KV MES	48.80	8.50	FUNCTIONAL	-	-
523	MAHALGAON 220	33KV BANDHOLI	49.00	6.85	FUNCTIONAL	-	-
524	MAHALGAON 220	33KV SCINDIYA NAGAR	48.80	7.07	FUNCTIONAL	-	-
525	MAHALGAON 220	33KV S.A.F.(PLOYTECHNIC)	48.80	9.26	FUNCTIONAL	-	-

526	MAHALGAON 220	33KV C.S.S. NEW	48.80	7.97	FUNCTIONAL	-	-
527	MAHALGAON 220	33KV STADIUM	48.80	7.75	FUNCTIONAL	-	-
528	MAHALGAON 220	33KV DARPARN COLONY-1	48.80	7.06	FUNCTIONAL	-	-
529	MAHALGAON 220	33KV HURAWALI	48.80	9.14	FUNCTIONAL	-	-
530	MORAR 132	33KV BHADROLI	49.00	9.19	FUNCTIONAL	-	-
531	MORAR 132	33KV RAIRU	49.00	4.91	FUNCTIONAL	-	-
532	MORAR 132	33KV SAGARTAAL	48.80	5.49	FUNCTIONAL	-	-
533	MORAR 132	33KV SEWERAGE PLANT	48.80	1.39	FUNCTIONAL	-	-
534	MORAR 132	33KV IIITM	48.80	0.27	FUNCTIONAL	-	-
535	MORAR 132	33KV MAHARAJPURA	48.80	9.47	FUNCTIONAL	-	-
536	MORAR 132	33KV DD NAGAR	48.80	7.90	FUNCTIONAL	-	-
537	MORAR 132	33KV SHARMA FARM	48.80	9.40	FUNCTIONAL	-	-
538	MORAR 132	33KV KALPI BRIDGE	48.80	8.35	FUNCTIONAL	-	-
539	MORAR 132	33KV READYMADE GARMENT	48.80	10.86	FUNCTIONAL	-	-
540	MORENA 132	33KV MS CITY	48.80	7.60	FUNCTIONAL	-	-
541	MORENA 132	33KV DEORI	49.40	10.40	FUNCTIONAL	-	-
542	MORENA 132	33KV MANDI	48.80	9.50	FUNCTIONAL	-	-
543	MORENA 132	33KV MAHARAJPUR	48.80	10.30	FUNCTIONAL	-	-
544	MORENA 132	33KV MORENA	48.80	8.70	FUNCTIONAL	-	-
545	MORENA 132	33KV SHIKARPUR	48.80	2.60	FUNCTIONAL	-	-
546	MORENA 132	33KV BEERAMPURA (BAGCHINI)	48.80	3.60	FUNCTIONAL	-	-
547	MORENA 132	33KV JADERUA	48.80	1.30	FUNCTIONAL	-	-
548	MORENA 132	33KV JIGNI	48.80	16.50	FUNCTIONAL	-	-
549	MORENA 132	33KV MAYURVAN	48.80	10.20	FUNCTIONAL	-	-
550	MORENA 132	33KV INDUSTRIAL	48.80	3.30	FUNCTIONAL	-	-
551	MORENA 132	33KV K.S.OIL MILL	48.80	0.40	FUNCTIONAL	-	-
552	SABALGARH 220	33KV RAMPUR	49.40	2.75	FUNCTIONAL	-	-
553	SABALGARH 220	33KV SEMAI	49.40	6.80	FUNCTIONAL	-	-
554	SABALGARH 220	33KV JHUNDPUR	49.40	3.94	FUNCTIONAL	-	-
555	SABALGARH 220	33KV MANCHON	49.40	2.94	FUNCTIONAL	-	-
556	SABALGARH 220	33KV BADDHPURA	49.40	3.24	FUNCTIONAL	-	-
557	SABALGARH 220	33KV KAILARAS (TENTRA)	49.40	4.45	FUNCTIONAL	-	-
558	SABALGARH 220	33KV SABALGARH	49.40	7.20	FUNCTIONAL	-	-
559	JOURA 132	33KV JOURA -II	49.40	2.20	FUNCTIONAL	-	-
560	JOURA 132	33KV SUMAWLI	49.40	5.10	FUNCTIONAL	-	-
561	JOURA 132	33KV SANKARA	49.40	2.50	FUNCTIONAL	-	-
562	JOURA 132	33KV KUMERI	49.40	5.00	FUNCTIONAL	-	-
563	JOURA 132	33KV BAGCHINI	49.40	8.00	FUNCTIONAL	-	-
564	JOURA 132	33KV JOURA CITY	49.40	8.30	FUNCTIONAL	-	-
565	JOURA 132	33KV CHINNONI	49.40	8.50	FUNCTIONAL	-	-
566	JOURA 132	33KV NAVODYA	49.40	6.20	FUNCTIONAL	-	-
567	AMBAH 132	33KV THARA	49.40	8.10	FUNCTIONAL	-	-
568	AMBAH 132	33KV AMBAH	49.40	8.70	FUNCTIONAL	-	-
569	AMBAH 132	33KV ESHAH	49.40	3.70	FUNCTIONAL	-	-
570	AMBAH 132	33KV GOTH	49.40	0.20	FUNCTIONAL	-	-
571	AMBAH 132	33KV RACHAD	49.40	6.50	FUNCTIONAL	-	-
572	AMBAH 132	33KV 5MVA X-MER	49.40	3.65	FUNCTIONAL	-	-
573	AMBAH 132	33KV GUNJBADA	49.40	1.85	FUNCTIONAL	-	-
574	AMBAH 132	33KV PARIKSHIT PURA	49.40	2.95	FUNCTIONAL	-	-
575	PORSA 132	33KV DONDORI	49.40	6.20	FUNCTIONAL	-	-
576	PORSA 132	33KV PORSA	49.40	6.90	FUNCTIONAL	-	-
577	PORSA 132	33KV MANPUR	49.40	6.00	FUNCTIONAL	-	-
578	PORSA 132	33KV KHERLI	49.40	2.20	FUNCTIONAL	-	-
579	PORSA 132	33KV TARSAMA	49.40	0.90	FUNCTIONAL	-	-
580	VIJAYPUR 132	33KV VIJAYPUR	49.40	4.00	FUNCTIONAL	-	-
581	VIJAYPUR 132	33KV AGARA	49.40	3.20	FUNCTIONAL	-	-
582	VIJAYPUR 132	33KV BEERPUR	49.40	12.40	FUNCTIONAL	-	-
583	VIJAYPUR 132	33KV DORD	49.40	3.60	FUNCTIONAL	-	-
584	VIJAYPUR 132	33KV VEERPUR (NEW)	49.40	1.20	FUNCTIONAL	-	-
585	BADAGAON 132	33KV BADAGAON	49.40	7.51	FUNCTIONAL	-	-
586	BADAGAON 132	33KV AJNODHA	49.40	6.62	FUNCTIONAL	-	-
587	BADAGAON 132	33KV DIMNI	49.40	7.40	FUNCTIONAL	-	-
588	BADAGAON 132	33KV KAHADIYAR	49.40	3.71	FUNCTIONAL	-	-
589	MORENA 220	33KV BICHOLA	49.40	4.30	FUNCTIONAL	-	-
590	MORENA 220	33KV JADERUA	49.40	1.59	FUNCTIONAL	-	-
591	MORENA 220	33KV CITY HOSPITAL	49.40	4.86	FUNCTIONAL	-	-
592	MORENA 220	33KV CHHONDA INDUSTRIAL	49.40	3.60	FUNCTIONAL	-	-
593	MORENA 220	33KV SITAPUR PHASE-II	49.40	1.00	FUNCTIONAL	-	-
594	MORENA 220	33KV BHONDER	49.40	1.00	FUNCTIONAL	-	-
595	KAILARAS 132	33KV DEPPERA	49.40	6.50	FUNCTIONAL	-	-
596	KAILARAS 132	33KV KAILARAS	49.40	7.74	FUNCTIONAL	-	-
597	KAILARAS 132	33KV PAHADGARH	49.40	5.98	FUNCTIONAL	-	-
598	KAILARAS 132	33KV CHAMARGAVA	49.40	2.94	FUNCTIONAL	-	-
599	BANMORE 132	33KV J.K. TYRE	48.80	5.83	FUNCTIONAL	-	-
600	BANMORE 132	33KV BADPURA (JOURA)	49.40	7.78	FUNCTIONAL	-	-
601	BANMORE 132	33KV MAGNUM	48.80	1.00	FUNCTIONAL	-	-
602	BANMORE 132	33KV VIBHA	48.80	3.02	FUNCTIONAL	-	-
603	BANMORE 132	33KV TRIPTI	48.80	0.48	FUNCTIONAL	-	-
604	BANMORE 132	33KV INDUSTRIAL	48.80	2.63	FUNCTIONAL	-	-
605	BANMORE 132	33KV B.R.A	48.80	2.72	FUNCTIONAL	-	-
606	BANMORE 132	33KV DELUX	48.80	4.65	FUNCTIONAL	-	-
607	BANMORE 132	33KV SHIKARPUR	49.40	2.57	FUNCTIONAL	-	-
608	BANMORE 132	33KV (IIDC) SITAPUR PAHADI	48.80	1.06	FUNCTIONAL	-	-
609	SARNI 220	33KV Ghoradongri	49.00	8.00	FUNCTIONAL	-	-
610	SARNI 220	33KV Patakcheda	48.80	2.00	FUNCTIONAL	-	-
611	GUDGAON 132	33KV BHAINSDEHI	49.00	15.50	FUNCTIONAL	-	-
612	GUDGAON 132	33KV SAWALMEDHA	49.00	7.40	FUNCTIONAL	-	-
613	GUDGAON 132	33KV HIDLI	49.00	11.40	FUNCTIONAL	-	-
614	GUDGAON 132	33KV GUDGAON	49.00	13.20	FUNCTIONAL	-	-
615	GUDGAON 132	33KV CHANDU	49.00	14.10	FUNCTIONAL	-	-
616	MULTAI 132	33KV MULTAI	49.00	7.20	FUNCTIONAL	-	-
617	MULTAI 132	33KV PRABHAT PATTAN	49.00	10.00	FUNCTIONAL	-	-
618	MULTAI 132	33KV BARAI	49.00	14.00	FUNCTIONAL	-	-
619	MULTAI 132	33KV RAIAMLA	49.00	13.70	FUNCTIONAL	-	-
620	MULTAI 132	33KV INDUSTRIAL	49.00	3.00	FUNCTIONAL	-	-
621	MULTAI 132	33KV BIRUL BAZAR	49.00	13.50	FUNCTIONAL	-	-
622	MULTAI 132	33KV DAHUUA	49.00	8.60	FUNCTIONAL	-	-
623	MULTAI 132	33KV DUNAWA	49.00	14.50	FUNCTIONAL	-	-
624	MULTAI 132	33KV KHEDLI BAZAR	49.00	14.20	FUNCTIONAL	-	-
625	GUDGAON 220	33KV NAWAPUR	49.00	3.90	FUNCTIONAL	-	-
626	GUDGAON 220	33KV BASNERKALA	49.00	2.40	FUNCTIONAL	-	-
627	GUDGAON 220	33KV JHALLAR	49.00	7.30	FUNCTIONAL	-	-
628	AMLA 132	33KV AMLA TOWN 1	49.00	4.60	FUNCTIONAL	-	-
629	AMLA 132	33KV AMLA 2	48.80	11.90	FUNCTIONAL	-	-
630	AMLA 132	33KV JAMDEHI	48.80	14.60	FUNCTIONAL	-	-
631	AMLA 132	33KV PARSODI	48.80	4.50	FUNCTIONAL	-	-
632	AMLA 132	33KV JAMBADA 1	48.80	10.70	FUNCTIONAL	-	-

633	AMLA 132	33KV JAMBADA 2	48.80	11.80	FUNCTIONAL	-	-
634	BETUL 220	33KV Amdar	49.00	8.00	FUNCTIONAL	-	-
635	BETUL 220	33KV Jawra	49.00	8.80	FUNCTIONAL	-	-
636	BETUL 220	33KV Junawani	49.00	5.60	FUNCTIONAL	-	-
637	BETUL 220	33KV Mandavi	49.00	13.50	FUNCTIONAL	-	-
638	BETUL 220	33KV Badora	48.80	5.40	FUNCTIONAL	-	-
639	BETUL 220	33KV PGCIL	48.80	0.50	FUNCTIONAL	-	-
640	BINSNOOR 132	33KV BISNOOR	49.00	18.10	FUNCTIONAL	-	-
641	BINSNOOR 132	33KV GEHUBARSA	49.00	4.60	FUNCTIONAL	-	-
642	BINSNOOR 132	33KV PAUNI	49.00	13.40	FUNCTIONAL	-	-
643	CHICHOLI 132	33KV MALAJPUR	49.00	13.30	FUNCTIONAL	-	-
644	CHICHOLI 132	33KV CHICHOLI	49.00	8.70	FUNCTIONAL	-	-
645	CHICHOLI 132	33KV BHIMPUR	49.00	14.90	FUNCTIONAL	-	-
646	CHICHOLI 132	33KV JEEN	49.00	8.90	FUNCTIONAL	-	-
647	CHICHOLI 132	33KV SHAHPUR	49.00	14.40	FUNCTIONAL	-	-
648	CHICHOLI 132	33KV CHIRAPATLA	49.00	11.90	FUNCTIONAL	-	-
649	BETUL 132	33KV PADHAR	48.80	15.80	FUNCTIONAL	-	-
650	BETUL 132	33KV HIWARKHEDI	49.00	7.60	FUNCTIONAL	-	-
651	BETUL 132	33KV BHADUS	49.00	12.30	FUNCTIONAL	-	-
652	BETUL 132	33KV TIKARI	48.80	16.00	FUNCTIONAL	-	-
653	BETUL 132	33KV SOHAGPUR	48.80	7.50	FUNCTIONAL	-	-
654	BETUL 132	33KV HAMLAPUR	48.80	16.20	FUNCTIONAL	-	-
655	BHOPAL 220	33KV BHOPAL 1	49.00	4.00	FUNCTIONAL	-	-
656	BHOPAL 220	33KV BHOPAL 2	49.00	3.00	FUNCTIONAL	-	-
657	BHOPAL 220	33KV BHOPAL 3	49.00	3.00	FUNCTIONAL	-	-
658	BHOPAL 220	33KV AKVN 1	49.00	6.00	FUNCTIONAL	-	-
659	BHOPAL 220	33KV AKVN 2	49.00	5.00	FUNCTIONAL	-	-
660	BHOPAL 220	33KV BARASIYA	49.00	5.00	FUNCTIONAL	-	-
661	MUNGALIYACHHAP 220	33KV RATIBAD	49.20	3.00	FUNCTIONAL	-	-
662	MUNGALIYACHHAP 220	33KV KHAJURI	49.20	2.00	FUNCTIONAL	-	-
663	MUNGALIYACHHAP 220	33KV PRAMPURA	49.20	2.00	FUNCTIONAL	-	-
664	MUNGALIYACHHAP 220	33KV TEELAKHEDI	49.20	1.00	FUNCTIONAL	-	-
665	CHAMBAL 132	33KV HABIBGANJ 1	49.00	3.00	FUNCTIONAL	-	-
666	CHAMBAL 132	33KV HABIBGANJ 2	49.00	2.00	FUNCTIONAL	-	-
667	CHAMBAL 132	33KV HABIBGANJ 3	49.00	3.00	FUNCTIONAL	-	-
668	CHAMBAL 132	33KV DB MALL	49.00	3.00	FUNCTIONAL	-	-
669	CHAMBAL 132	33KV KEELANDEV	49.00	3.00	FUNCTIONAL	-	-
670	CHAMBAL 132	33KV RACHNA TOWER	49.00	1.00	FUNCTIONAL	-	-
671	CHAMBAL 132	33KV BHEL	49.00	1.00	FUNCTIONAL	-	-
672	CHAMBAL 132	33KV INDUSTRIAL 1	49.00	1.00	FUNCTIONAL	-	-
673	CHAMBAL 132	33KV INDUSTRIAL 2	49.00	2.00	FUNCTIONAL	-	-
674	CHAMBAL 132	33KV ANAND NAGAR	49.00	2.00	FUNCTIONAL	-	-
675	CHAMBAL 132	33KV IC I	49.00	1.00	FUNCTIONAL	-	-
676	CHAMBAL 132	33KV IC II	49.00	3.00	FUNCTIONAL	-	-
677	CHAMBAL 132	33KV DRM	49.00	5.00	FUNCTIONAL	-	-
678	CHAMBAL 132	33KV AIR	49.00	4.00	FUNCTIONAL	-	-
679	CHAMBAL 132	33KV HOD	49.00	2.00	FUNCTIONAL	-	-
680	CHAMBAL 132	33KV NEW CHAMBAL	49.00	4.00	FUNCTIONAL	-	-
681	AMRAWATKHURD 132	33KV VALLABH NAGAR 1	48.80	4.00	FUNCTIONAL	-	-
682	AMRAWATKHURD 132	33KV VALLABH NAGAR 2	48.80	3.00	FUNCTIONAL	-	-
683	AMRAWATKHURD 132	33KV AMRAWAT 1	48.80	6.00	FUNCTIONAL	-	-
684	AMRAWATKHURD 132	33KV AMRAWAT 2	48.80	5.00	FUNCTIONAL	-	-
685	AMRAWATKHURD 132	33KV AIIMS HOSPITAL	48.80	4.00	FUNCTIONAL	-	-
686	AMRAWATKHURD 132	33KV AIIMS RESIDENTIAL	48.80	3.00	FUNCTIONAL	-	-
687	AMRAWATKHURD 132	33KV KATARA	48.80	2.00	FUNCTIONAL	-	-
688	AMRAWATKHURD 132	33KV RUCHI LIFE	48.80	5.00	FUNCTIONAL	-	-
689	AMRAWATKHURD 132	33KV C 21 MALL	48.80	4.00	FUNCTIONAL	-	-
690	BILKISGANJ 132	33KV RATIBAD	49.00	1.00	FUNCTIONAL	-	-
691	BILKISGANJ 132	33KV ULIJHAWAN	49.00	1.00	FUNCTIONAL	-	-
692	BILKISGANJ 132	33KV NEEBUKHEDA	49.00	1.00	FUNCTIONAL	-	-
693	BILKISGANJ 132	33KV BILKISGANJ	49.00	1.00	FUNCTIONAL	-	-
694	MAHAWADIYA 132	33KV KOLAR NAGAR NIGAM	48.80	2.00	FUNCTIONAL	-	-
695	MAHAWADIYA 132	33KV KAJLIKHEDA	48.80	2.00	FUNCTIONAL	-	-
696	NARMADAPURAM 220	33KV HOSHANGABAD	48.80	7.00	FUNCTIONAL	-	-
697	NARMADAPURAM 220	33KV MILK DAIRY	48.80	10.00	FUNCTIONAL	-	-
698	NARMADAPURAM 220	33KV ANAND NAGAR	48.80	9.00	FUNCTIONAL	-	-
699	NARMADAPURAM 220	33KV SANGAKHEDA	49.20	12.00	FUNCTIONAL	-	-
700	NARMADAPURAM 220	33KV TUGARIYA	49.20	11.00	FUNCTIONAL	-	-
701	NARMADAPURAM 220	33KV DOLARIYA	49.20	16.00	FUNCTIONAL	-	-
702	NARMADAPURAM 220	33KV BUDHNI	49.40	7.00	FUNCTIONAL	-	-
703	HARDA 132	33KV RAHATGAON	49.00	15.00	FUNCTIONAL	-	-
704	HARDA 132	33KV TIMARNI	49.00	12.00	FUNCTIONAL	-	-
705	HARDA 132	33KV V.X.L.	48.80	1.00	FUNCTIONAL	-	-
706	HARDA 132	33KV SONTALAI	49.00	18.00	FUNCTIONAL	-	-
707	HARDA 132	33KV KANKARIYA	49.00	6.00	FUNCTIONAL	-	-
708	HARDA 132	33KV CHHOTI HARDA	49.00	4.00	FUNCTIONAL	-	-
709	HARDA 132	33KV ABGAON KHURD	49.00	10.00	FUNCTIONAL	-	-
710	HARDA 132	33KV GWAL NAGAR	48.80	5.00	FUNCTIONAL	-	-
711	HARDA 132	33KV KARTANA	49.00	10.00	FUNCTIONAL	-	-
712	HARDA 132	33KV HANDIA	49.00	12.00	FUNCTIONAL	-	-
713	KHIRKIYA 132	33KV CHARUWA-I	49.00	12.00	FUNCTIONAL	-	-
714	KHIRKIYA 132	33KV KHIRKIYA-II	49.00	9.00	FUNCTIONAL	-	-
715	KHIRKIYA 132	33KV CHARUWA-II	49.00	9.00	FUNCTIONAL	-	-
716	KHIRKIYA 132	33KV KHARD	49.00	8.00	FUNCTIONAL	-	-
717	KHIRKIYA 132	33KV KILLOD	49.20	2.00	FUNCTIONAL	-	-
718	SEMRI-HARCHAND 132	33KV SEMRI	49.20	11.00	FUNCTIONAL	-	-
719	SEMRI-HARCHAND 132	33KV MAF	49.20	5.00	FUNCTIONAL	-	-
720	SEMRI-HARCHAND 132	33KV BABAI	49.20	8.00	FUNCTIONAL	-	-
721	SEMRI-HARCHAND 132	33KV BAGRA	49.20	8.00	FUNCTIONAL	-	-
722	SEMRI-HARCHAND 132	33KV KAMTHI	49.20	8.00	FUNCTIONAL	-	-
723	SEMRI-HARCHAND 132	33KV BHATWARI	49.20	13.00	FUNCTIONAL	-	-
724	SEMRI-HARCHAND 132	33KV MOHASA-1ST	49.00	11.00	FUNCTIONAL	-	-
725	SEMRI-HARCHAND 132	33KV MOHASA-2ND	49.00	2.00	FUNCTIONAL	-	-
726	SULTANPUR 132	33KV Muhalkala	49.00	10.00	FUNCTIONAL	-	-
727	SULTANPUR 132	33KV Magarda	49.00	12.00	FUNCTIONAL	-	-
728	SULTANPUR 132	33KV Rehtakala	49.00	8.00	FUNCTIONAL	-	-
729	SULTANPUR 132	33KV Sirali	49.00	4.00	FUNCTIONAL	-	-
730	SEONI MALWA 132	33KV Dharamkundi	49.20	5.00	FUNCTIONAL	-	-
731	SEONI MALWA 132	33KV Pagdhal	49.20	2.00	FUNCTIONAL	-	-
732	SEONI MALWA 132	33KV SHIVPUR	49.20	6.00	FUNCTIONAL	-	-
733	SEONI MALWA 132	33KV SEONI MALWA	49.20	4.00	FUNCTIONAL	-	-
734	SEONI MALWA 132	33KV SURAJPUR	49.20	2.00	FUNCTIONAL	-	-
735	SEONI MALWA 132	33KV BABRI	49.20	7.00	FUNCTIONAL	-	-
736	SHAHGANJ 132	33KV SHAHGANJ	49.40	5.00	FUNCTIONAL	-	-
737	SHAHGANJ 132	33KV DOBI	49.40	5.00	FUNCTIONAL	-	-
738	SHAHGANJ 132	33KV NANDER	49.40	8.00	FUNCTIONAL	-	-
739	SHAHGANJ 132	33KV DIGWAD	49.00	10.00	FUNCTIONAL	-	-

740	SHAHGANJ 132	33KV AMON	49.40	5.00	FUNCTIONAL	-	-
741	ITARSI 220	33KV GURRA	49.20	7.90	FUNCTIONAL	-	-
742	ITARSI 220	33KV KESLA	49.20	7.90	FUNCTIONAL	-	-
743	ITARSI 220	33KV AKVN	48.80	0.70	FUNCTIONAL	-	-
744	ITARSI 220	33KV PATHROTA	48.80	2.90	FUNCTIONAL	-	-
745	ITARSI 220	33KV PGCL-01	48.80	0.20	FUNCTIONAL	-	-
746	ITARSI 220	33KV PGCL-02	48.80	0.50	FUNCTIONAL	-	-
747	ITARSI 220	33KV JAMANI	49.20	10.50	FUNCTIONAL	-	-
748	ITARSI 220	33KV RAILWAY	48.80	1.20	FUNCTIONAL	-	-
749	ITARSI 220	33KV ITARSI-1	48.80	5.10	FUNCTIONAL	-	-
750	ITARSI 220	33KV ITARSI2	48.80	8.80	FUNCTIONAL	-	-
751	ITARSI 220	33KV PROPELLENT-01	48.80	4.70	FUNCTIONAL	-	-
752	ITARSI 220	33KV PROPELLENT-02	48.80	1.00	FUNCTIONAL	-	-
753	ITARSI 220	33KV SPM	48.80	12.50	FUNCTIONAL	-	-
754	ITARSI 220	33KV TAKU	48.80	0.10	FUNCTIONAL	-	-
755	GHATABILLOD 132	33KV KESURE-I	49.40	2.30	FUNCTIONAL	-	-
756	GHATABILLOD 132	33KV KESURE-II	49.40	2.00	FUNCTIONAL	-	-
757	GHATABILLOD 132	33KV NEKPUR	49.40	0.80	FUNCTIONAL	-	-
758	GHATABILLOD 132	33KV PAN KHEDI	49.40	2.20	FUNCTIONAL	-	-
759	DHAR 220	33KV DHAR	48.80	4.00	FUNCTIONAL	-	-
760	DHAR 220	33KV KALIKADEVI	49.40	2.00	FUNCTIONAL	-	-
761	DHAR 220	33KV TEESGAON	49.40	1.00	FUNCTIONAL	-	-
762	DHAR 220	33KV DEDLA	49.40	2.00	FUNCTIONAL	-	-
763	DHAR 220	33KV AAHU	49.40	0.50	FUNCTIONAL	-	-
764	DHAR 220	33KV BERCHHA	49.40	0.68	FUNCTIONAL	-	-
765	DHAR 220	33KV NARAYAN PURA	49.40	1.80	FUNCTIONAL	-	-
766	DHAR 220	33KV DASH-MAIDAN	48.80	2.50	FUNCTIONAL	-	-
767	DHAR 220	33KV SEJWAYA	49.40	0.62	FUNCTIONAL	-	-
768	DHAR 220	33KV INDUSTRIAL	49.40	2.10	FUNCTIONAL	-	-
769	DHAR 220	33KV TIRLA	49.40	0.43	FUNCTIONAL	-	-
770	DHAR 220	33KV BHJO HOSPITAL	49.40	1.00	FUNCTIONAL	-	-
771	INDORE WEST 132	33KV NAVDAPANTH	49.40	0.70	FUNCTIONAL	-	-
772	BAGDI 132	33KV KUNJROD	49.40	5.00	FUNCTIONAL	-	-
773	BAGDI 132	33KV MANDU	49.40	0.70	FUNCTIONAL	-	-
774	BAGDI 132	33KV BAGDI	49.40	2.30	FUNCTIONAL	-	-
775	BAGDI 132	33KV NALCHHA	49.40	1.50	FUNCTIONAL	-	-
776	DEPALPUR 220	33KV DEPALPUR	49.20	1.20	FUNCTIONAL	-	-
777	DEPALPUR 220	33KV BETMA	49.20	3.85	FUNCTIONAL	-	-
778	DEPALPUR 220	33KV BEGANDA	49.20	2.38	FUNCTIONAL	-	-
779	DEPALPUR 220	33KV ATAHEDA	49.20	1.79	FUNCTIONAL	-	-
780	DEPALPUR 220	33KV LIMBODAPAR	49.20	0.95	FUNCTIONAL	-	-
781	DEPALPUR 220	33KV MURKHEDA	49.20	4.34	FUNCTIONAL	-	-
782	DEPALPUR 220	33KV AGRA	49.20	1.14	FUNCTIONAL	-	-
783	DEPALPUR 220	33KV BANEDIYA	49.20	2.98	FUNCTIONAL	-	-
784	DEPALPUR 220	33KV GOKULPUR	49.20	1.50	FUNCTIONAL	-	-
785	GAUTAMPURA 132	33KV GAUTAMPURA	49.40	3.20	FUNCTIONAL	-	-
786	GAUTAMPURA 132	33KV KADAUDA	49.20	1.50	FUNCTIONAL	-	-
787	GAUTAMPURA 132	33KV PADALIYA	49.20	5.00	FUNCTIONAL	-	-
788	GAUTAMPURA 132	33KV GIROTA	49.20	2.30	FUNCTIONAL	-	-
789	GAUTAMPURA 132	33KV GOKULPUR	49.20	1.80	FUNCTIONAL	-	-
790	TEESGAON 132	33KV TEESGOAN	49.40	4.00	FUNCTIONAL	-	-
791	TEESGAON 132	33KV BERCHHA	49.40	3.00	FUNCTIONAL	-	-
792	DHAMNOD 132	33KV DHAMNOD	49.20	1.00	FUNCTIONAL	-	-
793	DHAMNOD 132	33KV MAHESHWAR	49.40	3.65	FUNCTIONAL	-	-
794	DHAMNOD 132	33KV GUJARI	49.40	2.77	FUNCTIONAL	-	-
795	MANGLIYA 220	33KV BHONDWAS	49.20	2.00	FUNCTIONAL	-	-
796	INDORE-II (JETPURA) 220	33KV SANWER	49.20	5.90	FUNCTIONAL	-	-
797	INDORE-II (JETPURA) 220	33KV DHARAMPURI	49.20	2.10	FUNCTIONAL	-	-
798	INDORE-II (JETPURA) 220	33KV TODI	49.20	1.90	FUNCTIONAL	-	-
799	INDORE-II (JETPURA) 220	33KV RAMAPHASPHATE	48.80	2.10	FUNCTIONAL	-	-
800	INDORE-II (JETPURA) 220	33KV DHATURIYAI	49.20	2.10	FUNCTIONAL	-	-
801	INDORE-II (JETPURA) 220	33KV DHATURIYAI II	49.20	2.90	FUNCTIONAL	-	-
802	INDORE-II (JETPURA) 220	33KV DLF	48.80	1.00	FUNCTIONAL	-	-
803	INDORE EAST (BICHOLI) 220	33KV GOYAL NAGAR	48.80	3.80	FUNCTIONAL	-	-
804	INDORE EAST (BICHOLI) 220	33KV KHUDEL	49.20	3.90	FUNCTIONAL	-	-
805	INDORE EAST (BICHOLI) 220	33KV VANDANA NAGAR-I	48.80	6.80	FUNCTIONAL	-	-
806	INDORE EAST (BICHOLI) 220	33KV VANDANA NAGAR-II	48.80	4.80	FUNCTIONAL	-	-
807	INDORE EAST (BICHOLI) 220	33KV SANCHAR NAGER-I	48.80	7.90	FUNCTIONAL	-	-
808	INDORE EAST (BICHOLI) 220	33KV SANCHAR NAGER-II	48.80	5.90	FUNCTIONAL	-	-
809	INDORE EAST (BICHOLI) 220	33KV SCHEEM NO.140	48.80	4.80	FUNCTIONAL	-	-
810	CHAMBAL 132	33KV MILL	48.80	3.90	FUNCTIONAL	-	-
811	CHAMBAL 132	33KV GANDHI HALL -I	48.80	4.80	FUNCTIONAL	-	-
812	CHAMBAL 132	33KV GANDHI HALL -II	48.80	4.90	FUNCTIONAL	-	-
813	CHAMBAL 132	33KV LT.INDUSTRIAL	48.80	0.95	FUNCTIONAL	-	-
814	CHAMBAL 132	33KV CITY -I	48.80	0.37	FUNCTIONAL	-	-
815	CHAMBAL 132	33KV CITY -II	48.80	3.85	FUNCTIONAL	-	-
816	CHAMBAL 132	33KV MANORAMAGANG -I	48.80	3.90	FUNCTIONAL	-	-
817	CHAMBAL 132	33KV MANORAMAGANG -II	48.80	6.90	FUNCTIONAL	-	-
818	CHAMBAL 132	33KV INDORE STEEL	48.80	1.85	FUNCTIONAL	-	-
819	CHAMBAL 132	33KV MALTI	48.80	2.90	FUNCTIONAL	-	-
820	CHAMBAL 132	33KV DHAR	48.80	3.20	FUNCTIONAL	-	-
821	CHAMBAL 132	33KV MILK DAIRY	48.80	3.90	FUNCTIONAL	-	-
822	CHAMBAL 132	33KV RAJMOHALLA -I	48.80	3.85	FUNCTIONAL	-	-
823	CHAMBAL 132	33KV RAJMOHALLA -II	48.80	6.80	FUNCTIONAL	-	-
824	CHAMBAL 132	33KV GAMBIIR	48.80	3.85	FUNCTIONAL	-	-
825	CHAMBAL 132	33KV M P NAGAR-I	48.80	2.90	FUNCTIONAL	-	-
826	CHAMBAL 132	33KV M P NAGAR-II	48.80	2.90	FUNCTIONAL	-	-
827	NORTH ZONE 220	33KV HATOD	49.20	1.32	FUNCTIONAL	-	-
828	NORTH ZONE 220	33KV MANGLIA	48.80	6.30	FUNCTIONAL	-	-
829	NORTH ZONE 220	33KV RAMAPHASPHATE	48.80	4.85	FUNCTIONAL	-	-
830	NORTH ZONE 220	33KV SANGAM NAGAR -I	48.80	4.10	FUNCTIONAL	-	-
831	NORTH ZONE 220	33KV SANGAM NAGAR -II	48.80	4.20	FUNCTIONAL	-	-
832	NORTH ZONE 220	33KV SANGAM NAGAR -III	48.80	1.84	FUNCTIONAL	-	-
833	NORTH ZONE 220	33KV SANGAM NAGAR -IV	48.80	1.34	FUNCTIONAL	-	-
834	NORTH ZONE 220	33KV VIJAY NAGAR -I	48.80	2.24	FUNCTIONAL	-	-
835	NORTH ZONE 220	33KV VIJAY NAGAR -II	48.80	3.60	FUNCTIONAL	-	-
836	SATYA SAI 132	33KV VANDANA NAGAR	48.80	5.50	FUNCTIONAL	-	-
837	SATYA SAI 132	33KV SATYA SAI	48.80	8.60	FUNCTIONAL	-	-
838	SATYA SAI 132	33KV TULSI NAGAR	48.80	6.80	FUNCTIONAL	-	-
839	SATYA SAI 132	33KV PRESS COMPLEX	48.80	5.80	FUNCTIONAL	-	-
840	SANWER 132	33KV SANWER	49.20	4.60	FUNCTIONAL	-	-
841	SANWER 132	33KV CHANDRAWATI-GANJ	49.20	5.20	FUNCTIONAL	-	-
842	SANWER 132	33KV AJINOD	49.20	1.10	FUNCTIONAL	-	-
843	SANWER 132	33KV PANTH-PIPLAI -1	49.20	3.20	FUNCTIONAL	-	-
844	SANWER 132	33KV PANTH-PIPLAI -2	49.20	5.15	FUNCTIONAL	-	-
845	SANWER 132	33KV PANTH-PIPLAI -3	49.20	4.20	FUNCTIONAL	-	-
846	ELECTRONIC COMPLEX 132	33KV E.S.I. -I	48.80	4.10	FUNCTIONAL	-	-

847	ELECTRONIC COMPLEX 132	33KV ELE. COM.ZONE	48.80	4.10	FUNCTIONAL	-	-
848	ELECTRONIC COMPLEX 132	33KV KHATIPURA	48.80	1.40	FUNCTIONAL	-	-
849	ELECTRONIC COMPLEX 132	33KV E.S.I. -II	48.80	5.80	FUNCTIONAL	-	-
850	CHANDRAWATIGANJ 132	33KV AJINOD	49.20	3.10	FUNCTIONAL	-	-
851	CHANDRAWATIGANJ 132	33KV KACHHALIYA	49.20	3.00	FUNCTIONAL	-	-
852	CHANDRAWATIGANJ 132	33KV CHNDRA WATI GANJ	49.20	0.80	FUNCTIONAL	-	-
853	CHANDRAWATIGANJ 132	33KV KHALKHALA	49.20	4.10	FUNCTIONAL	-	-
854	SIVNI 132	33KV SIVANI	49.20	1.40	FUNCTIONAL	-	-
855	SIVNI 132	33KV PEDMI	49.20	5.00	FUNCTIONAL	-	-
856	SIVNI 132	33KV KHUDEL	49.20	3.85	FUNCTIONAL	-	-
857	SIVNI 132	33KV BAWLIYA	49.20	1.20	FUNCTIONAL	-	-
858	SOUTH ZONE INDORE 220	33KV SABJI MANDI	48.80	7.57	FUNCTIONAL	-	-
859	SOUTH ZONE INDORE 220	33KV RAU	48.80	3.24	FUNCTIONAL	-	-
860	SOUTH ZONE INDORE 220	33KV PAGNISPAGA	48.80	5.96	FUNCTIONAL	-	-
861	SOUTH ZONE INDORE 220	33KV NAVLAKHA-I	48.80	5.44	FUNCTIONAL	-	-
862	SOUTH ZONE INDORE 220	33KV NAVLAKHA-II	48.80	5.25	FUNCTIONAL	-	-
863	SOUTH ZONE INDORE 220	33KV DAILY COLLEGE- I	48.80	4.77	FUNCTIONAL	-	-
864	SOUTH ZONE INDORE 220	33KV DAILY COLLEGE- II	48.80	7.02	FUNCTIONAL	-	-
865	SOUTH ZONE INDORE 220	33KV ASRAWAD	48.80	1.86	FUNCTIONAL	-	-
866	SOUTH ZONE INDORE 220	33KV RAJENDRA NAGAR	48.80	5.00	FUNCTIONAL	-	-
867	SOUTH ZONE INDORE 220	33KV KASTURBAGRAM	48.80	2.30	FUNCTIONAL	-	-
868	SOUTH ZONE INDORE 220	33KV PITHAMPUR	48.80	1.00	FUNCTIONAL	-	-
869	SOUTH ZONE INDORE 220	33KV BJALPUR -I	48.80	7.84	FUNCTIONAL	-	-
870	SOUTH ZONE INDORE 220	33KV BJALPUR -II	48.80	7.97	FUNCTIONAL	-	-
871	SOUTH ZONE INDORE 220	33KV INDRA COMPLEX-I	48.80	7.23	FUNCTIONAL	-	-
872	SOUTH ZONE INDORE 220	33KV INDRA COMPLEX-II	48.80	5.34	FUNCTIONAL	-	-
873	SOUTH ZONE INDORE 220	33KV KANADIYA	48.80	4.12	FUNCTIONAL	-	-
874	SOUTH ZONE INDORE 220	33KV KHUDEL	48.80	2.13	FUNCTIONAL	-	-
875	SOUTH ZONE INDORE 220	33KV HARSOLA	49.20	2.44	FUNCTIONAL	-	-
876	SOUTH ZONE INDORE 220	33KV KANNOD	49.20	6.80	FUNCTIONAL	-	-
877	SOUTH ZONE INDORE 220	33KV DATODA	49.20	1.29	FUNCTIONAL	-	-
878	SOUTH ZONE INDORE 220	33KV TILLORE	49.20	4.70	FUNCTIONAL	-	-
879	SIMROL 132	33KV SIMROL	48.80	7.10	FUNCTIONAL	-	-
880	SIMROL 132	33KV BHAGORA	49.20	11.70	FUNCTIONAL	-	-
881	SIMROL 132	33KV DATODA	49.20	10.50	FUNCTIONAL	-	-
882	SIMROL 132	33KV ITT	48.80	1.50	FUNCTIONAL	-	-
883	RAU 132	33KV MHOW	48.80	8.60	FUNCTIONAL	-	-
884	RAU 132	33KV HARSOLA	49.20	6.20	FUNCTIONAL	-	-
885	RAU 132	33KV PENTHER-I	48.80	3.40	FUNCTIONAL	-	-
886	RAU 132	33KV SILICON CITY	48.80	9.10	FUNCTIONAL	-	-
887	RAU 132	33KV VETERINARY	49.20	7.40	FUNCTIONAL	-	-
888	JAMLI 132	33KV MHOW	48.80	7.30	FUNCTIONAL	-	-
889	JAMLI 132	33KV JAMILI	49.20	2.91	FUNCTIONAL	-	-
890	JAMLI 132	33KV KHEDI SIHOD	49.20	3.30	FUNCTIONAL	-	-
891	JAMLI 132	33KV MANPUR	49.20	3.68	FUNCTIONAL	-	-
892	JAMLI 132	33KV KHAMADPUR	49.20	3.34	FUNCTIONAL	-	-
893	JAMLI 132	33KV BADGONDA	49.20	2.65	FUNCTIONAL	-	-
894	JAMLI 132	33KV AMBEDKAR	49.20	3.65	FUNCTIONAL	-	-
895	JAMLI 132	33KV MES KARBALA	49.20	2.64	FUNCTIONAL	-	-
896	JAMLI 132	33KV PHE	49.20	1.15	FUNCTIONAL	-	-
897	PITHAMPUR SECTOR-I 220	33KV SAGORE	48.80	0.50	FUNCTIONAL	-	-
898	PITHAMPUR SECTOR-I 220	33KV MANPUR	49.00	5.00	FUNCTIONAL	-	-
899	PITHAMPUR SECTOR-I 220	33KV LT INDUSTRIES	48.80	8.50	FUNCTIONAL	-	-
900	PITHAMPUR SECTOR-III 220	33KV SAGORE	48.80	1.00	FUNCTIONAL	-	-
901	PITHAMPUR SECTOR-III 220	33KV METALMENT-II	48.80	7.40	FUNCTIONAL	-	-
902	PITHAMPUR SECTOR-III 220	33KV CHIRAG	48.80	5.90	FUNCTIONAL	-	-
903	PITHAMPUR SECTOR-III 220	33KV PRATIBHA	48.80	7.40	FUNCTIONAL	-	-
904	PITHAMPUR SECTOR-III 220	33KV LT INDUSTRIES	48.80	11.60	FUNCTIONAL	-	-
905	PITHAMPUR SECTOR-III 220	33KV METALMENT-I	48.80	13.80	FUNCTIONAL	-	-
906	PITHAMPUR SECTOR-III 220	33KV GIRNAR	48.80	13.50	FUNCTIONAL	-	-
907	PITHAMPUR SECTOR-III 220	33KV NOVINO	48.80	9.60	FUNCTIONAL	-	-
908	PITHAMPUR SECTOR-III 220	33KV SEZ-I	48.80	11.60	FUNCTIONAL	-	-
909	PITHAMPUR SECTOR-III 220	33KV SEZ-II	48.80	5.80	FUNCTIONAL	-	-
910	BETMA 132	33KV BETMA	48.80	8.60	FUNCTIONAL	-	-
911	NATRIP 132	33KV KUNWarsi	48.80	2.70	FUNCTIONAL	-	-
912	NATRIP 132	33KV KHANDWA	48.80	4.30	FUNCTIONAL	-	-
913	KHANDWA 132	33KV GUDE	49.20	3.00	FUNCTIONAL	-	-
914	KHANDWA 132	33KV KHAR	49.20	3.50	FUNCTIONAL	-	-
915	KHANDWA 132	33KV SAHEJLA	49.20	8.00	FUNCTIONAL	-	-
916	KHANDWA 132	33KV AMALPURA	49.20	5.00	FUNCTIONAL	-	-
917	KHANDWA 132	33KV RANGAON	49.20	2.00	FUNCTIONAL	-	-
918	KHANDWA 132	33KV SIHADA	49.20	5.50	FUNCTIONAL	-	-
919	KHANDWA 132	33KV CIVIL LINES	48.80	6.00	FUNCTIONAL	-	-
920	KHANDWA 132	33KV ANANDNAGAR	48.80	3.50	FUNCTIONAL	-	-
921	KHANDWA 132	33KV INDORE ROAD	48.80	9.00	FUNCTIONAL	-	-
922	BAHADARPUR 132	33KV ICHHAPUR	49.00	5.40	FUNCTIONAL	-	-
923	BAHADARPUR 132	33KV CHAPORA	49.00	13.30	FUNCTIONAL	-	-
924	BAHADARPUR 132	33KV JAINABAD	49.00	6.50	FUNCTIONAL	-	-
925	BAHADARPUR 132	33KV SHAHPUR-I	49.00	4.20	FUNCTIONAL	-	-
926	BAHADARPUR 132	33KV SHAHPUR-II	49.00	2.80	FUNCTIONAL	-	-
927	BAHADARPUR 132	33KV SANWARA-I	48.80	11.20	FUNCTIONAL	-	-
928	BAHADARPUR 132	33KV SANWARA-II	48.80	14.60	FUNCTIONAL	-	-
929	BAHADARPUR 132	33KV SPINNING MILL	48.80	13.50	FUNCTIONAL	-	-
930	BAHADARPUR 132	33KV SHIKARPURA	48.80	11.80	FUNCTIONAL	-	-
931	NEPANAGAR 220	33KV SIWAL	49.00	13.00	FUNCTIONAL	-	-
932	NEPANAGAR 220	33KV DABIYAKHEDA	49.00	6.00	FUNCTIONAL	-	-
933	NEPANAGAR 220	33KV NEPANAGAR	49.00	6.00	FUNCTIONAL	-	-
934	CHHANERA 220	33KV KILLOD	49.20	2.12	FUNCTIONAL	-	-
935	CHHANERA 220	33KV ROSHANI	49.20	9.85	FUNCTIONAL	-	-
936	CHHANERA 220	33KV KHIRKIYA	49.20	3.62	FUNCTIONAL	-	-
937	CHHANERA 220	33KV NEW HARSOOD	49.20	6.27	FUNCTIONAL	-	-
938	CHHANERA 220	33KV KHALWA	49.20	4.98	FUNCTIONAL	-	-
939	CHHANERA 220	33KV NVDA	49.00	3.93	FUNCTIONAL	-	-
940	BADGAON 132	33KV BADGAON	49.00	6.70	FUNCTIONAL	-	-
941	BADGAON 132	33KV MANZROD	49.00	1.10	FUNCTIONAL	-	-
942	BADGAON 132	33KV BODARLI	49.00	4.00	FUNCTIONAL	-	-
943	BADGAON 132	33KV DOIFODIYA	49.00	3.40	FUNCTIONAL	-	-
944	BADGAON 132	33KV KHAMNI	49.00	4.90	FUNCTIONAL	-	-
945	MOONDI 132	33KV JALKUAN	49.20	3.90	FUNCTIONAL	-	-
946	MOONDI 132	33KV MOONDI TOWN	49.20	3.50	FUNCTIONAL	-	-
947	MOONDI 132	33KV NARMADANAGAR	49.20	3.50	FUNCTIONAL	-	-
948	MOONDI 132	33KV CHANDEL	49.20	1.50	FUNCTIONAL	-	-
949	SINGOT 132	33KV POKHAR	49.20	2.70	FUNCTIONAL	-	-
950	SINGOT 132	33KV SINGOT	49.20	7.20	FUNCTIONAL	-	-
951	SINGOT 132	33KV NEW KHAR	49.20	2.20	FUNCTIONAL	-	-
952	SINGOT 132	33KV NEW KHALWA	49.20	1.70	FUNCTIONAL	-	-
953	CHHEGAON 400	33KV DONGERGAON - I	49.00	7.10	FUNCTIONAL	-	-

954	CHHEGAON 400	33KV DONGERAON - II	49.00	2.00	FUNCTIONAL	-	-
955	CHHEGAON 400	33KV CHICHGOHAN	49.00	3.40	FUNCTIONAL	-	-
956	CHHEGAON 400	33KV BHOJAKHEDI	49.00	5.50	FUNCTIONAL	-	-
957	CHHEGAON 400	33KV NVDA	49.00	1.20	FUNCTIONAL	-	-
958	CHHEGAON 400	33KV DHANGAON	49.00	6.90	FUNCTIONAL	-	-
959	CHHEGAON 400	33KV CHIRAGPURA	49.00	4.00	FUNCTIONAL	-	-
960	CHHEAGON-MAKHAN 132	33KV DULHAR	49.20	3.50	FUNCTIONAL	-	-
961	CHHEAGON-MAKHAN 132	33KV SIRSOD	49.20	8.60	FUNCTIONAL	-	-
962	CHHEAGON-MAKHAN 132	33KV MALWA-I	49.20	8.40	FUNCTIONAL	-	-
963	CHHEAGON-MAKHAN 132	33KV MALWA-II	49.20	8.00	FUNCTIONAL	-	-
964	CHHEAGON-MAKHAN 132	33KV CHAMATI	49.20	1.50	FUNCTIONAL	-	-
965	CHHEAGON-MAKHAN 132	33KV DULHAR OLD CIRCLE	48.80	1.70	FUNCTIONAL	-	-
966	CHHEAGON-MAKHAN 132	33KV KHANWA-II	48.80	5.40	FUNCTIONAL	-	-
967	JHIRNIYA 132	33KV MITAWAL	49.20	11.20	FUNCTIONAL	-	-
968	JHIRNIYA 132	33KV DHANWA	49.20	3.60	FUNCTIONAL	-	-
969	PANDHANA 132	33KV DULHAR	49.20	4.20	FUNCTIONAL	-	-
970	PANDHANA 132	33KV SIRPUR	49.20	2.90	FUNCTIONAL	-	-
971	PANDHANA 132	33KV BORGAON	49.20	4.10	FUNCTIONAL	-	-
972	PANDHANA 132	33KV DHULKOT-I	49.20	3.40	FUNCTIONAL	-	-
973	PANDHANA 132	33KV DHULKOT-II	49.20	6.50	FUNCTIONAL	-	-
974	BHIKANGAON 132	33KV BHIKANGAON	49.40	7.95	FUNCTIONAL	-	-
975	BHIKANGAON 132	33KV BAMNALA	49.40	6.65	FUNCTIONAL	-	-
976	BHIKANGAON 132	33KV GORADIYA	49.40	2.05	FUNCTIONAL	-	-
977	BHIKANGAON 132	33KV ZIRNIYA	49.40	4.55	FUNCTIONAL	-	-
978	BHIKANGAON 132	33KV INDUSTRIAL	48.80	2.05	FUNCTIONAL	-	-
979	KHARGONE 132	33KV KHARGONE-I	48.80	12.70	FUNCTIONAL	-	-
980	KHARGONE 132	33KV OON	48.80	3.60	FUNCTIONAL	-	-
981	KHARGONE 132	33KV AHIRKHEMA	49.40	10.60	FUNCTIONAL	-	-
982	KHARGONE 132	33KV PFC	48.80	12.40	FUNCTIONAL	-	-
983	KHARGONE 132	33KV SAWDA	49.40	14.90	FUNCTIONAL	-	-
984	KHARGONE 132	33KV GOGAWAN	48.80	11.10	FUNCTIONAL	-	-
985	KHARGONE 132	33KV BAROOD	49.40	14.90	FUNCTIONAL	-	-
986	KHARGONE 132	33KV NANDGAON	49.40	15.50	FUNCTIONAL	-	-
987	KHARGONE 132	33KV BHAGWANPURA	49.40	8.60	FUNCTIONAL	-	-
988	KHARGONE 132	33KV LONARA	49.40	9.00	FUNCTIONAL	-	-
989	KHARGONE 132	33KV MONGARGAON	49.40	6.90	FUNCTIONAL	-	-
990	KHARGONE 132	33KV NAGZIRI	49.40	13.30	FUNCTIONAL	-	-
991	BARWAHA 220	33KV PUNASA	49.20	14.50	FUNCTIONAL	-	-
992	BARWAHA 220	33KV SANAWAD-II	49.40	12.20	FUNCTIONAL	-	-
993	BARWAHA 220	33KV BALWADA	49.40	1.00	FUNCTIONAL	-	-
994	BARWAHA 220	33KV JAIMALPURAL	49.40	11.00	FUNCTIONAL	-	-
995	BARWAHA 220	33KV BAGOD	49.40	11.80	FUNCTIONAL	-	-
996	BARWAHA 220	33KV BARWAHA	49.40	5.70	FUNCTIONAL	-	-
997	BARWAHA 220	33KV PIPLIYA	49.40	5.40	FUNCTIONAL	-	-
998	BARWAHA 220	33KV BARWAHA (RURAL)	49.40	3.30	FUNCTIONAL	-	-
999	CHHOTI-KHARGONE 132	33KV MAHESHWARI	49.40	6.70	FUNCTIONAL	-	-
1000	CHHOTI-KHARGONE 132	33KV PIRLAON	49.40	8.00	FUNCTIONAL	-	-
1001	CHHOTI-KHARGONE 132	33KV KARAH	49.40	10.20	FUNCTIONAL	-	-
1002	CHHOTI-KHARGONE 132	33KV SUNDREL	49.40	8.80	FUNCTIONAL	-	-
1003	CHHOTI-KHARGONE 132	33KV SOMAKHEDI	49.40	9.80	FUNCTIONAL	-	-
1004	CHHOTI-KHARGONE 132	33KV DHARGAOON	49.40	5.40	FUNCTIONAL	-	-
1005	CHHOTI-KHARGONE 132	33KV NEW MAHESHWARI	49.40	9.40	FUNCTIONAL	-	-
1006	SANAWAD 132	33KV OMKARESHWAR	48.80	7.50	FUNCTIONAL	-	-
1007	SANAWAD 132	33KV SANAWAD	49.40	9.90	FUNCTIONAL	-	-
1008	SANAWAD 132	33KV PUNASA	49.20	17.80	FUNCTIONAL	-	-
1009	SANAWAD 132	33KV BEDIYA-I	49.40	13.90	FUNCTIONAL	-	-
1010	SANAWAD 132	33KV RODIYA	49.40	10.50	FUNCTIONAL	-	-
1011	SANAWAD 132	33KV DHAKALGAON	49.40	9.70	FUNCTIONAL	-	-
1012	KASRAWAD 132	33KV KASRAWAD	49.40	8.60	FUNCTIONAL	-	-
1013	KASRAWAD 132	33KV SAWDA	49.40	14.00	FUNCTIONAL	-	-
1014	KASRAWAD 132	33KV MAKADKHEDA	49.40	9.70	FUNCTIONAL	-	-
1015	KASRAWAD 132	33KV BAMPANDI	49.40	4.80	FUNCTIONAL	-	-
1016	BALWADA 132	33KV BALWADA	49.40	11.60	FUNCTIONAL	-	-
1017	BALWADA 132	33KV CHOURL	49.40	15.40	FUNCTIONAL	-	-
1018	ANDAD 132	33KV GOGAWA	49.40	14.10	FUNCTIONAL	-	-
1019	ANDAD 132	33KV MULTHAN	49.40	11.10	FUNCTIONAL	-	-
1020	ANDAD 132	33KV DEWLA	49.40	14.70	FUNCTIONAL	-	-
1021	ANDAD 132	33KV AHIRKHEMA	49.40	9.10	FUNCTIONAL	-	-
1022	NIMRANI 220	33KV NIMRANI	49.40	9.00	FUNCTIONAL	-	-
1023	NIMRANI 220	33KV BAL-SAMUD	49.40	12.00	FUNCTIONAL	-	-
1024	NIMRANI 220	33KV THEEKARY	49.20	2.00	FUNCTIONAL	-	-
1025	NIMRANI 220	33KV KATHORA	48.80	3.00	FUNCTIONAL	-	-
1026	NIMRANI 220	33KV DAWANA	49.40	9.00	FUNCTIONAL	-	-
1027	BISTAN 132	33KV BISTON	49.40	13.60	FUNCTIONAL	-	-
1028	BISTAN 132	33KV KADWALI	49.40	10.90	FUNCTIONAL	-	-
1029	BISTAN 132	33KV MOHANPURA	49.40	13.30	FUNCTIONAL	-	-
1030	BISTAN 132	33KV BHAGWANPURA	49.40	14.40	FUNCTIONAL	-	-
1031	JULWANIYA 220	33KV JULWANIYA	49.00	9.00	FUNCTIONAL	-	-
1032	JULWANIYA 220	33KV MANDWADA	49.00	13.00	FUNCTIONAL	-	-
1033	JULWANIYA 220	33KV RAJPUR	49.00	5.00	FUNCTIONAL	-	-
1034	JULWANIYA 220	33KV NAGALWADI	49.20	8.00	FUNCTIONAL	-	-
1035	JULWANIYA 220	33KV SEGAON	49.20	9.00	FUNCTIONAL	-	-
1036	SENDHWA 220	33KV GAWADI FD	49.20	11.00	FUNCTIONAL	-	-
1037	SENDHWA 220	33KV CHACHRIYA	49.20	11.00	FUNCTIONAL	-	-
1038	SENDHWA 132	33KV BALWADI FD	49.20	ON	FUNCTIONAL	-	-
1039	SENDHWA 132	33KV SENDHWA FD	49.20	11.20	FUNCTIONAL	-	-
1040	SENDHWA 132	33KV INDUSTRIAL FD	49.00	4.70	FUNCTIONAL	-	-
1041	SENDHWA 132	33KV DHANORA FD	49.20	16.20	FUNCTIONAL	-	-
1042	SENDHWA 132	33KV PALSOOD FD	49.20	17.30	FUNCTIONAL	-	-
1043	SENDHWA 132	33KV CHATALI FD	49.20	18.40	FUNCTIONAL	-	-
1044	SHAHIPURA 132	33KV BALWADI FD	49.20	12.40	FUNCTIONAL	-	-
1045	SHAHIPURA 132	33KV JAMTI FD	49.20	11.00	FUNCTIONAL	-	-
1046	SHAHIPURA 132	33KV WARLA FD	49.20	4.30	FUNCTIONAL	-	-
1047	BARWANI 132	33KV BARWANI	49.00	10.19	FUNCTIONAL	-	-
1048	BARWANI 132	33KV REHGUN	49.00	11.23	FUNCTIONAL	-	-
1049	BARWANI 132	33KV SONDUL	49.00	11.60	FUNCTIONAL	-	-
1050	BARWANI 132	33KV PATI	49.20	13.64	FUNCTIONAL	-	-
1051	BARWANI 132	33KV ANJAD	49.00	12.68	FUNCTIONAL	-	-
1052	PANSEMAL 132	33KV PANSEMAL	49.20	7.00	FUNCTIONAL	-	-
1053	PANSEMAL 132	33KV KHETIYA	49.20	12.00	FUNCTIONAL	-	-
1054	PANSEMAL 132	33KV BHADGONE	49.20	11.00	FUNCTIONAL	-	-
1055	PANSEMAL 132	33KV NIWALI	49.20	12.00	FUNCTIONAL	-	-
1056	PANSEMAL 132	33KV MANKUI	49.20	13.00	FUNCTIONAL	-	-
1057	PANSEMAL 132	33KV BUS COUPLER	49.20	6.00	FUNCTIONAL	-	-
1058	ANJAD 132	33KV SHIVAI	49.00	13.20	FUNCTIONAL	-	-
1059	ANJAD 132	33KV TALWADA BUJURG	49.00	6.10	FUNCTIONAL	-	-
1060	ANJAD 132	33KV SURANA	49.00	17.20	FUNCTIONAL	-	-

1061	ANJAD 132	33KV ANJAD	49.00	7.00	FUNCTIONAL	-	-
1062	ANJAD 132	33KV BHAGSUR	49.00	6.60	FUNCTIONAL	-	-
1063	TALAKPURA 132	33KV TALAKPURA	49.40	9.60	FUNCTIONAL	-	-
1064	TALAKPURA 132	33KV SANGVI	49.40	8.30	FUNCTIONAL	-	-
1065	TALAKPURA 132	33KV LONARA	49.40	6.70	FUNCTIONAL	-	-
1066	TALAKPURA 132	33KV SEGAON	49.40	6.50	FUNCTIONAL	-	-
1067	PATI 132	33KV BOKRATA	49.40	10.90	FUNCTIONAL	-	-
1068	PATI 132	33KV SILAWAD	49.40	13.90	FUNCTIONAL	-	-
1069	SUWASARA 220	33KV KANTIYA	48.80	14.80	FUNCTIONAL	-	-
1070	SUWASARA 220	33KV TARNOB	48.80	4.00	FUNCTIONAL	-	-
1071	SUWASARA 220	33KV PARASALI	48.80	8.50	FUNCTIONAL	-	-
1072	BHANPURA 220	33KV NEEMTHUR	49.20	15.00	FUNCTIONAL	-	-
1073	BHANPURA 220	33KV SANDHARA	49.20	11.00	FUNCTIONAL	-	-
1074	BHANPURA 220	33KV KANWLA	49.20	13.00	FUNCTIONAL	-	-
1075	MANDSAUR 132	33KV MANDSAUR CITY	48.80	11.00	FUNCTIONAL	-	-
1076	MANDSAUR 132	33KV SONI BIO CAM	48.80	2.50	FUNCTIONAL	-	-
1077	MANDSAUR 132	33KV KHLCHIPURA	48.80	13.20	FUNCTIONAL	-	-
1078	MANDSAUR 132	33KV JAGGAKHEDI	48.80	5.70	FUNCTIONAL	-	-
1079	MANDSAUR 132	33KV CHAMBAL COLONY	48.80	9.00	FUNCTIONAL	-	-
1080	MANDSAUR 132	33KV RISHIYANAND	48.80	17.50	FUNCTIONAL	-	-
1081	MANDSAUR 132	33KV RAJARAM	48.80	0.50	FUNCTIONAL	-	-
1082	MANDSAUR 132	33KV GUJARBADIYA	49.00	18.75	FUNCTIONAL	-	-
1083	MANDSAUR 132	33KV AMLAWAD	49.00	15.75	FUNCTIONAL	-	-
1084	MANDSAUR 132	33KV BOTALGANJ	49.00	9.20	FUNCTIONAL	-	-
1085	MANDSAUR 132	33KV SINDPAN	49.00	14.70	FUNCTIONAL	-	-
1086	SUWASARA 132	33KV DHALPAT	48.80	7.50	FUNCTIONAL	-	-
1087	SUWASARA 132	33KV RAWATI (SITAMAU)	48.80	5.50	FUNCTIONAL	-	-
1088	SUWASARA 132	33KV SHAMGARH	48.80	2.50	FUNCTIONAL	-	-
1089	SUWASARA 132	33KV RUNJIA	48.80	10.00	FUNCTIONAL	-	-
1090	SUWASARA 132	33KV KAYAMPUR	48.80	11.00	FUNCTIONAL	-	-
1091	SUWASARA 132	33KV RAHIMGARH	48.80	10.00	FUNCTIONAL	-	-
1092	SUWASARA 132	33KV TITROD	48.80	5.50	FUNCTIONAL	-	-
1093	SITAMAU 132	33KV SITAMAU	48.80	11.70	FUNCTIONAL	-	-
1094	SITAMAU 132	33KV DEEPAKHEDA	48.80	16.20	FUNCTIONAL	-	-
1095	SITAMAU 132	33KV MANPURA	48.80	10.90	FUNCTIONAL	-	-
1096	SITAMAU 132	33KV NATARAM	48.80	17.20	FUNCTIONAL	-	-
1097	SITAMAU 132	33KV BILANTRI	48.80	12.10	FUNCTIONAL	-	-
1098	GAROTH 132	33KV BHESODA MANDI	48.80	11.00	FUNCTIONAL	-	-
1099	GAROTH 132	33KV BOLIYA	48.80	13.00	FUNCTIONAL	-	-
1100	GAROTH 132	33KV GAROTH	48.80	5.50	FUNCTIONAL	-	-
1101	GAROTH 132	33KV BARKHEDA-GANG	48.80	15.00	FUNCTIONAL	-	-
1102	GAROTH 132	33KV BARDIYA-IST.	48.80	7.50	FUNCTIONAL	-	-
1103	GAROTH 132	33KV BARDIYA-AMRA	48.80	4.50	FUNCTIONAL	-	-
1104	GAROTH 132	33KV SATHKHEDA	48.80	13.00	FUNCTIONAL	-	-
1105	GAROTH 132	33KV BABULDA	48.80	4.50	FUNCTIONAL	-	-
1106	SHAMGARH 132	33KV SHAMGARH	48.80	13.50	FUNCTIONAL	-	-
1107	SHAMGARH 132	33KV CHANDWASA	48.80	16.80	FUNCTIONAL	-	-
1108	NEEMUCH 220	33KV DHANERIYA	49.20	4.00	FUNCTIONAL	-	-
1109	NEEMUCH 220	33KV JAWAD	49.20	5.00	FUNCTIONAL	-	-
1110	NEEMUCH 220	33KV MORWAN	49.20	4.00	FUNCTIONAL	-	-
1111	NEEMUCH 220	33KV BUS STAND	48.80	7.00	FUNCTIONAL	-	-
1112	NEEMUCH 220	33KV ALCOLIDE	48.80	0.30	FUNCTIONAL	-	-
1113	NEEMUCH 220	33KV NAYAGAON	49.20	6.00	FUNCTIONAL	-	-
1114	NEEMUCH 220	33KV SARODA	49.20	6.00	FUNCTIONAL	-	-
1115	NEEMUCH 220	33KV GWALTOLI	49.20	2.00	FUNCTIONAL	-	-
1116	NEEMUCH 132	33KV SARWANIYA MAHARAJ	49.20	4.50	FUNCTIONAL	-	-
1117	NEEMUCH 132	33KV HARKIYAKHAL	49.20	3.00	FUNCTIONAL	-	-
1118	NEEMUCH 132	33KV SAWAN	49.20	2.90	FUNCTIONAL	-	-
1119	NEEMUCH 132	33KV NEEMUCH	48.80	5.00	FUNCTIONAL	-	-
1120	MANASA 132	33KV LASUR	49.20	5.60	FUNCTIONAL	-	-
1121	MANASA 132	33KV ANTRI	49.20	4.00	FUNCTIONAL	-	-
1122	MANASA 132	33KV RAMPURA	49.20	3.80	FUNCTIONAL	-	-
1123	MANASA 132	33KV KANJARDA	49.20	5.60	FUNCTIONAL	-	-
1124	MANASA 132	33KV MANASA	49.20	4.80	FUNCTIONAL	-	-
1125	MANASA 132	33KV KUKDESHWAR	49.20	5.00	FUNCTIONAL	-	-
1126	MANASA 132	33KV ANCHALPURA	49.20	3.00	FUNCTIONAL	-	-
1127	MALHARGARH 132	33KV MALHARGARH	49.00	2.60	FUNCTIONAL	-	-
1128	MALHARGARH 132	33KV LIMBAWAS	49.00	7.00	FUNCTIONAL	-	-
1129	MALHARGARH 132	33KV JEERAN	49.00	6.00	FUNCTIONAL	-	-
1130	MALHARGARH 132	33KV BUDA	49.00	4.00	FUNCTIONAL	-	-
1131	MALHARGARH 132	33KV PIPLIYA VISHNIYA	49.00	3.00	FUNCTIONAL	-	-
1132	MALHARGARH 132	33KV BILLOD	49.00	2.60	FUNCTIONAL	-	-
1133	MALHARGARH 132	33KV KANGHATTI	49.00	3.00	FUNCTIONAL	-	-
1134	MALHARGARH 132	33KV LUNAHEDA	49.00	4.90	FUNCTIONAL	-	-
1135	RATANGARH 132	33KV RATANGARH	49.20	5.20	FUNCTIONAL	-	-
1136	RATANGARH 132	33KV SINGOLI	49.20	4.00	FUNCTIONAL	-	-
1137	RATANGARH 132	33KV DEEKEN	49.20	3.60	FUNCTIONAL	-	-
1138	RATANGARH 132	33KV JATHLA	49.20	2.90	FUNCTIONAL	-	-
1139	RATANGARH 132	33KV JAT	49.20	3.00	FUNCTIONAL	-	-
1140	BUDHA 132	33KV SANJEEET	49.20	2.00	FUNCTIONAL	-	-
1141	BUDHA 132	33KV BILLOD	49.20	3.50	FUNCTIONAL	-	-
1142	BUDHA 132	33KV ANKIYABIKA	49.20	2.90	FUNCTIONAL	-	-
1143	BUDHA 132	33KV NAHARGARH	49.20	2.80	FUNCTIONAL	-	-
1144	SINGOLI 132	33KV FUSARIYA	49.20	3.00	FUNCTIONAL	-	-
1145	SINGOLI 132	33KV JHANTLA	49.20	2.90	FUNCTIONAL	-	-
1146	SINGOLI 132	33KV KACHHALA	49.20	4.10	FUNCTIONAL	-	-
1147	RAMPURA 132	33KV RAMPURA	49.20	6.50	FUNCTIONAL	-	-
1148	RAMPURA 132	33KV NANORE	49.20	5.10	FUNCTIONAL	-	-
1149	RAMPURA 132	33KV BARLAY	49.20	5.90	FUNCTIONAL	-	-
1150	MORWAN 132	33KV MORWAN DEM	49.20	3.10	FUNCTIONAL	-	-
1151	MORWAN 132	33KV SARWANIYA MAHARAJ	49.20	2.60	FUNCTIONAL	-	-
1152	MORWAN 132	33KV DUDHTALAI	49.20	1.90	FUNCTIONAL	-	-
1153	RATLAM 220	33KV MUNDRI	49.40	12.00	FUNCTIONAL	-	-
1154	RATLAM 220	33KV SHIVPUR	49.40	9.80	FUNCTIONAL	-	-
1155	RATLAM 220	33KV SIMLAWADA	49.40	2.20	FUNCTIONAL	-	-
1156	RATLAM 220	33KV BANGROD	49.40	6.00	FUNCTIONAL	-	-
1157	RATLAM 220	33KV BILPANK	49.40	10.70	FUNCTIONAL	-	-
1158	RATLAM 220	33KV BADODIYA	49.40	5.76	FUNCTIONAL	-	-
1159	RATLAM 220	33KV DHARAD	49.40	1.40	FUNCTIONAL	-	-
1160	RATLAM 220	33KV MHOW ROAD	48.80	22.60	FUNCTIONAL	-	-
1161	RATLAM 220	33KV TRIVANI	48.80	8.20	FUNCTIONAL	-	-
1162	RATLAM 220	33KV GANGA SAGAR	48.80	4.90	FUNCTIONAL	-	-
1163	RATLAM 132	33KV SHIVGARH	49.40	4.60	FUNCTIONAL	-	-
1164	RATLAM 132	33KV DHONSWAS	49.40	15.00	FUNCTIONAL	-	-
1165	RATLAM 132	33KV SEMLIYA	49.40	14.60	FUNCTIONAL	-	-
1166	RATLAM 132	33KV MILK CHILLING	48.80	4.30	FUNCTIONAL	-	-
1167	JAORA 220	33KV KALUKHEDA	49.40	13.70	FUNCTIONAL	-	-

1168	JAORA 220	33KV SUKHEDA	49.40	7.70	FUNCTIONAL	-	-
1169	JAORA 220	33KV HATPIPLIYA	49.40	12.20	FUNCTIONAL	-	-
1170	JAORA 220	33KV DHODHAR	49.40	15.50	FUNCTIONAL	-	-
1171	JAORA 220	33KV PIRLODA	49.40	0.50	FUNCTIONAL	-	-
1172	JAORA 220	33KV JAORA TOWN	49.40	8.20	FUNCTIONAL	-	-
1173	JAORA 220	33KV NAMLI	49.40	11.00	FUNCTIONAL	-	-
1174	JAORA 220	33KV BADAWADA	49.40	13.70	FUNCTIONAL	-	-
1175	JAORA 220	33KV RINGNOD	49.40	12.20	FUNCTIONAL	-	-
1176	JAORA 220	33KV RATLAM NAKA	49.40	1.00	FUNCTIONAL	-	-
1177	JAORA 220	33KV UPARWADA	49.40	5.70	FUNCTIONAL	-	-
1178	A LOT 132	33KV TAL	49.40	0.50	FUNCTIONAL	-	-
1179	A LOT 132	33KV ALOTE	49.40	8.50	FUNCTIONAL	-	-
1180	A LOT 132	33KV KHARWAKALA	49.40	7.00	FUNCTIONAL	-	-
1181	A LOT 132	33KV BHOJAKHEDI	49.40	7.80	FUNCTIONAL	-	-
1182	A LOT 132	33KV HANUMANTIYA	49.40	15.80	FUNCTIONAL	-	-
1183	A LOT 132	33KV PATAN	49.40	7.90	FUNCTIONAL	-	-
1184	A LOT 132	33KV ASAWATA	49.40	10.50	FUNCTIONAL	-	-
1185	SAILANA 132	33KV SAILANA TOWN	49.40	7.70	FUNCTIONAL	-	-
1186	SAILANA 132	33KV SARWAN	49.40	17.80	FUNCTIONAL	-	-
1187	SAILANA 132	33KV RAWOTI	49.40	3.50	FUNCTIONAL	-	-
1188	SAILANA 132	33KV DHAMNOD	49.40	7.10	FUNCTIONAL	-	-
1189	SAILANA 132	33KV AMBA SHERPUR	49.40	6.30	FUNCTIONAL	-	-
1190	SAILANA 132	33KV DELANPUR	49.40	11.00	FUNCTIONAL	-	-
1191	SAILANA 220	33KV DHAMEDI	49.40	7.10	FUNCTIONAL	-	-
1192	SAILANA 220	33KV KHEDAWDA	49.40	14.90	FUNCTIONAL	-	-
1193	SAILANA 220	33KV MACHUN	49.40	10.60	FUNCTIONAL	-	-
1194	DALODA 220	33KV DALODA	49.00	7.60	FUNCTIONAL	-	-
1195	DALODA 220	33KV KACHANARA	49.00	9.50	FUNCTIONAL	-	-
1196	DALODA 220	33KV KARUJ	49.00	14.00	FUNCTIONAL	-	-
1197	DALODA 220	33KV DHAMNAR	49.00	8.00	FUNCTIONAL	-	-
1198	DALODA 220	33KV AFJALPUR	49.00	11.00	FUNCTIONAL	-	-
1199	DALODA 220	33KV NIMBOD	49.00	10.00	FUNCTIONAL	-	-
1200	DALODA 220	33KV JAWASIA	49.00	3.60	FUNCTIONAL	-	-
1201	DALODA 220	33KV KHLICHPURA2	49.00	0.50	FUNCTIONAL	-	-
1202	TAL 132	33KV TAL	49.40	11.00	FUNCTIONAL	-	-
1203	TAL 132	33KV LOD	49.40	12.00	FUNCTIONAL	-	-
1204	TAL 132	33KV MANDAWAL	49.40	15.00	FUNCTIONAL	-	-
1205	TAL 132	33KV ASSAWTA	49.40	10.00	FUNCTIONAL	-	-
1206	SHIVGARH 132	33KV BHADANKALA	49.40	15.20	FUNCTIONAL	-	-
1207	SHIVGARH 132	33KV NEW RAOTI	49.40	11.70	FUNCTIONAL	-	-
1208	SHIVGARH 132	33KV PALSODI	49.40	12.20	FUNCTIONAL	-	-
1209	NAGDA 220	33KV KHACHROD	49.40	9.00	FUNCTIONAL	-	-
1210	NAGDA 220	33KV NAGDA (T)	49.40	8.00	FUNCTIONAL	-	-
1211	NAGDA 220	33KV MAHIDPUR ROAD	49.40	13.00	FUNCTIONAL	-	-
1212	NAGDA 220	33KV MOHANA	49.40	6.00	FUNCTIONAL	-	-
1213	NAGDA 220	33KV KALSI	49.40	1.50	FUNCTIONAL	-	-
1214	NAGDA 220	33KV UNHEL	49.40	9.00	FUNCTIONAL	-	-
1215	NAGDA 220	33KV TAL	49.40	14.00	FUNCTIONAL	-	-
1216	NAGDA 220	33KV BADAGAON	49.40	15.00	FUNCTIONAL	-	-
1217	NAGDA 220	33KV HATAI-PALKI	49.40	6.00	FUNCTIONAL	-	-
1218	NAGDA 220	33KV MAHUMATRA	49.40	12.00	FUNCTIONAL	-	-
1219	KHACHROD 132	33KV BURANABAD-I	49.40	14.00	FUNCTIONAL	-	-
1220	KHACHROD 132	33KV KAMTHANA	49.40	11.00	FUNCTIONAL	-	-
1221	KHACHROD 132	33KV MADAWADA	49.40	14.00	FUNCTIONAL	-	-
1222	KHACHROD 132	33KV BURANABAD-II	49.40	6.00	FUNCTIONAL	-	-
1223	KHACHROD 132	33KV GHINODA	49.40	3.00	FUNCTIONAL	-	-
1224	KHACHROD 132	33KV CHIROLA	49.40	10.00	FUNCTIONAL	-	-
1225	KHACHROD 132	33KV KHACHROD	49.40	6.00	FUNCTIONAL	-	-
1226	KHACHROD 132	33KV KANWASH	49.40	10.00	FUNCTIONAL	-	-
1227	KHACHROD 132	33KV MOKADI	49.40	4.00	FUNCTIONAL	-	-
1228	BHESOLA 132	33KV BANJARI	49.40	4.00	FUNCTIONAL	-	-
1229	BHESOLA 132	33KV BATLAWADI	49.40	10.00	FUNCTIONAL	-	-
1230	BHESOLA 132	33KV GHINODA	49.40	13.00	FUNCTIONAL	-	-
1231	UNHEL 132	33KV BEDAWAN	49.40	6.00	FUNCTIONAL	-	-
1232	UNHEL 132	33KV SUWASA	49.40	11.00	FUNCTIONAL	-	-
1233	UNHEL 132	33KV CHIROLA	49.40	2.00	FUNCTIONAL	-	-
1234	MAHIDPUR 132	33KV NARAYANA	49.40	7.00	FUNCTIONAL	-	-
1235	MAHIDPUR 132	33KV CHORWASA	49.40	8.00	FUNCTIONAL	-	-
1236	MAHIDPUR 132	33KV KUNDIKHEDA	49.40	10.00	FUNCTIONAL	-	-
1237	MAHIDPUR 132	33KV MAHIDPUR CITY	49.40	5.00	FUNCTIONAL	-	-
1238	MAHIDPUR 132	33KV BANJARI	49.40	11.00	FUNCTIONAL	-	-
1239	MAHIDPUR 132	33KV MAHIDPUR-ROAD	49.40	12.00	FUNCTIONAL	-	-
1240	MAHIDPUR 132	33KV RUDRKHEDA	49.40	12.00	FUNCTIONAL	-	-
1241	MAHIDPUR 132	33KV KHEDAMADA	49.40	10.00	FUNCTIONAL	-	-
1242	JHARDA 132	33KV JHARDA	49.40	11.00	FUNCTIONAL	-	-
1243	JHARDA 132	33KV INDK	49.40	6.00	FUNCTIONAL	-	-
1244	JHARDA 132	33KV ASADI	49.40	7.00	FUNCTIONAL	-	-
1245	JHARDA 132	33KV GOGAKHEDA	49.40	11.00	FUNCTIONAL	-	-
1246	JHARDA 132	33KV SEMLIYA	49.40	11.00	FUNCTIONAL	-	-
1247	BARNAGAR 220	33KV WATER WORKS	49.20	6.55	FUNCTIONAL	-	-
1248	BARNAGAR 220	33KV LOHANA	49.20	13.10	FUNCTIONAL	-	-
1249	BARNAGAR 220	33KV HT	49.20	3.90	FUNCTIONAL	-	-
1250	BARNAGAR 220	33KV KHEDAWDA	49.20	15.40	FUNCTIONAL	-	-
1251	BARNAGAR 220	33KV PIPLU	49.20	7.00	FUNCTIONAL	-	-
1252	BARNAGAR 220	33KV AMLA	49.20	6.90	FUNCTIONAL	-	-
1253	BARNAGAR 220	33KV BANGRED	49.20	14.00	FUNCTIONAL	-	-
1254	BARNAGAR 220	33KV PALWA	49.20	10.90	FUNCTIONAL	-	-
1255	BARNAGAR 220	33KV BIRIYAKHEDI	49.20	4.10	FUNCTIONAL	-	-
1256	BARNAGAR 220	33KV KHARSOUD KALA	49.20	17.60	FUNCTIONAL	-	-
1257	BARNAGAR 220	33KV 8 MVA	49.40	1.90	FUNCTIONAL	-	-
1258	BARNAGAR 220	33KV 5 MVA	49.40	3.80	FUNCTIONAL	-	-
1259	BARNAGAR 220	33KV PIRZHALLAR	49.40	11.80	FUNCTIONAL	-	-
1260	BARNAGAR 220	33KV BADNAWAR	48.80	9.50	FUNCTIONAL	-	-
1261	BARNAGAR 220	33KV KACHHIBARODA	48.80	10.60	FUNCTIONAL	-	-
1262	KANWAN 220	33KV NAGADA	49.40	4.00	FUNCTIONAL	-	-
1263	KANWAN 132	33KV BIDWAL	49.40	15.60	FUNCTIONAL	-	-
1264	KANWAN 132	33KV BORALI	49.40	15.40	FUNCTIONAL	-	-
1265	KANWAN 132	33KV KAROD	49.40	13.80	FUNCTIONAL	-	-
1266	KANWAN 132	33KV NAGADA	49.40	10.00	FUNCTIONAL	-	-
1267	KANWAN 132	33KV CHHAYAN	49.40	15.20	FUNCTIONAL	-	-
1268	KANWAN 132	33KV RAJOD	49.40	12.10	FUNCTIONAL	-	-
1269	BILPANK 132	33KV BIRMAWAL	49.40	12.00	FUNCTIONAL	-	-
1270	BILPANK 132	33KV RUPAKHEDA	49.40	12.00	FUNCTIONAL	-	-
1271	BILPANK 132	33KV RANISINGH	49.40	11.00	FUNCTIONAL	-	-
1272	BILPANK 132	33KV DHIKWA	49.40	9.00	FUNCTIONAL	-	-
1273	INGORIYA 132	33KV K.KHURD	49.40	11.10	FUNCTIONAL	-	-
1274	INGORIYA 132	33KV DANGWARA	49.40	2.00	FUNCTIONAL	-	-

1275	INGORIYA 132	33KV INGORIYA	49.40	6.30	FUNCTIONAL	-	-
1276	INGORIYA 132	33KV JAHANGIRPUR	49.40	9.10	FUNCTIONAL	-	-
1277	INGORIYA 132	33KV CHIKLI	49.40	10.70	FUNCTIONAL	-	-
1278	CHHAYAN 132	33KV HEAD QUARTER	49.40	6.50	FUNCTIONAL	-	-
1279	CHHAYAN 132	33KV TILGARA	49.40	8.30	FUNCTIONAL	-	-
1280	CHHAYAN 132	33KV HANUMANTYA	49.40	7.70	FUNCTIONAL	-	-
1281	CHHAYAN 132	33KV NANDLAI	49.40	10.30	FUNCTIONAL	-	-
1282	RAJGARH(DHAR) 132	33KV AMJHERA(DHAR)	49.40	12.30	FUNCTIONAL	-	-
1283	RAJGARH(DHAR) 132	33KV DASAI	49.40	13.00	FUNCTIONAL	-	-
1284	RAJGARH(DHAR) 132	33KV RAJOD	49.40	12.10	FUNCTIONAL	-	-
1285	RAJGARH(DHAR) 132	33KV ZAKNAWAD	49.40	14.80	FUNCTIONAL	-	-
1286	RAJGARH(DHAR) 132	33KV INDUSTRIAL	48.80	6.60	FUNCTIONAL	-	-
1287	RAJGARH(DHAR) 132	33KV BHARATOMAN	48.80	1.00	FUNCTIONAL	-	-
1288	RAJGARH(DHAR) 132	33KV DATTIGAON	49.40	15.50	FUNCTIONAL	-	-
1289	RAJGARH(DHAR) 132	33KV PHE BAYS	48.80	7.30	FUNCTIONAL	-	-
1290	KUKSHI 132	33KV BAGH	49.40	12.90	FUNCTIONAL	-	-
1291	KUKSHI 132	33KV DHOLIYA	49.40	12.20	FUNCTIONAL	-	-
1292	KUKSHI 132	33KV DEHRI	49.40	3.90	FUNCTIONAL	-	-
1293	KUKSHI 132	33KV BHAVARIYA	49.40	11.10	FUNCTIONAL	-	-
1294	KUKSHI 132	33KV DAHI	49.40	13.20	FUNCTIONAL	-	-
1295	KUKSHI 132	33KV NISARPUR	49.40	7.80	FUNCTIONAL	-	-
1296	KUKSHI 132	33KV WATER WORKS	48.80	0.20	FUNCTIONAL	-	-
1297	KUKSHI 132	33KV PHE BAYS	48.80	4.90	FUNCTIONAL	-	-
1298	KUKSHI 132	33KV SUSARI	48.80	10.80	FUNCTIONAL	-	-
1299	RAJGARH(DHAR) 220	33KV RINGNOD	49.40	12.40	FUNCTIONAL	-	-
1300	RAJGARH(DHAR) 220	33KV BHARAT OMAN	48.80	1.00	FUNCTIONAL	-	-
1301	RAJGARH(DHAR) 220	33KV PGCL	48.80	0.50	FUNCTIONAL	-	-
1302	RAJGARH(DHAR) 220	33KV TANDA	49.40	8.80	FUNCTIONAL	-	-
1303	RAJGARH(DHAR) 220	33KV HATOD	49.40	7.60	FUNCTIONAL	-	-
1304	MEGHNAGAR 132	33KV KALAYANPURA	49.40	7.00	FUNCTIONAL	-	-
1305	MEGHNAGAR 132	33KV MEGHNAGAR	49.40	9.70	FUNCTIONAL	-	-
1306	MEGHNAGAR 132	33KV THANDLA	49.40	13.30	FUNCTIONAL	-	-
1307	MEGHNAGAR 132	33KV JHABUA	48.80	2.90	FUNCTIONAL	-	-
1308	MEGHNAGAR 132	33KV INDUSTRIAL	48.80	1.80	FUNCTIONAL	-	-
1309	MEGHNAGAR 132	33KV S.R.FERRO ALLOYS	49.40	7.20	FUNCTIONAL	-	-
1310	MEGHNAGAR 132	33KV KAKANWANI	49.40	9.30	FUNCTIONAL	-	-
1311	JHABUA 132	33KV RANAPUR	49.40	10.50	FUNCTIONAL	-	-
1312	JHABUA 132	33KV PARA	49.40	11.50	FUNCTIONAL	-	-
1313	JHABUA 132	33KV KALIDEVI	49.40	13.10	FUNCTIONAL	-	-
1314	JHABUA 132	33KV JHABUA	48.80	5.90	FUNCTIONAL	-	-
1315	ALRAJPUR 132	33KV JOBAT	49.40	11.80	FUNCTIONAL	-	-
1316	ALRAJPUR 132	33KV SONDWA	49.40	4.60	FUNCTIONAL	-	-
1317	ALRAJPUR 132	33KV ALRAJPUR	48.80	8.10	FUNCTIONAL	-	-
1318	ALRAJPUR 132	33KV FLOROSIS	49.40	12.40	FUNCTIONAL	-	-
1319	ALRAJPUR 132	33KV LEJOBAT FATA	48.80	1.70	FUNCTIONAL	-	-
1320	ALRAJPUR 132	33KV AMBUA	49.40	11.90	FUNCTIONAL	-	-
1321	ALRAJPUR 132	33KV NANPUR (DABDI)	49.40	10.50	FUNCTIONAL	-	-
1322	ALRAJPUR 132	33KV FULMAL	49.40	11.90	FUNCTIONAL	-	-
1323	ALRAJPUR 132	33KV NVDA	49.40	1.50	FUNCTIONAL	-	-
1324	PETLAWAD 132	33KV RAIPURIYA	49.40	16.20	FUNCTIONAL	-	-
1325	PETLAWAD 132	33KV PETLAWAD	49.40	8.10	FUNCTIONAL	-	-
1326	PETLAWAD 132	33KV SARNGI	49.40	13.50	FUNCTIONAL	-	-
1327	PETLAWAD 132	33KV BAMANIYA	49.40	14.00	FUNCTIONAL	-	-
1328	PETLAWAD 132	33KV MAHI PHE	48.80	0.50	FUNCTIONAL	-	-
1329	PETLAWAD 132	33KV BHARAT OMAN	48.80	2.50	FUNCTIONAL	-	-
1330	PETLAWAD 132	33KV TEMRIYA	48.80	7.00	FUNCTIONAL	-	-
1331	JOBAT 132	33KV JOBAT	49.20	13.70	FUNCTIONAL	-	-
1332	JOBAT 132	33KV UDYAGARH (KALIKHETIYAR)	49.20	9.60	FUNCTIONAL	-	-
1333	JOBAT 132	33KV DABARI	49.20	10.70	FUNCTIONAL	-	-
1334	MANAWAR 132	33KV MANAWAR	49.40	3.00	FUNCTIONAL	-	-
1335	MANAWAR 132	33KV JEERABAD	49.40	9.60	FUNCTIONAL	-	-
1336	MANAWAR 132	33KV UMBERAN	49.40	12.60	FUNCTIONAL	-	-
1337	MANAWAR 132	33KV DHARAMPURI	49.40	9.40	FUNCTIONAL	-	-
1338	MANAWAR 132	33KV BAKANER	49.40	8.20	FUNCTIONAL	-	-
1339	MANAWAR 132	33KV SINGHANA	49.40	0.50	FUNCTIONAL	-	-
1340	MANAWAR 132	33KV DCL	49.40	5.70	FUNCTIONAL	-	-
1341	MANAWAR 132	33KV KAROLI	49.40	3.20	FUNCTIONAL	-	-
1342	MANAWAR 132	33KV TOKI	49.40	9.30	FUNCTIONAL	-	-
1343	MANAWAR 132	33KV AJANDA	49.40	8.80	FUNCTIONAL	-	-
1344	SINGHANA 132	33KV SINGHANA	49.40	15.80	FUNCTIONAL	-	-
1345	SINGHANA 132	33KV NVDA(JHOPDI)	49.40	6.70	FUNCTIONAL	-	-
1346	SINGHANA 132	33KV LOHARI	49.40	8.30	FUNCTIONAL	-	-
1347	SINGHANA 132	33KV GANDHWANI	49.40	10.30	FUNCTIONAL	-	-
1348	CHHATARPUR 220	33KV CHHATARPUR	48.80	7.00	FUNCTIONAL	-	-
1349	CHHATARPUR 220	33KV SAURA	48.80	2.50	FUNCTIONAL	-	-
1350	CHHATARPUR 220	33KV MAU SAHANIA	48.80	6.00	FUNCTIONAL	-	-
1351	CHHATARPUR 220	33KV SATAI ROAD	48.80	4.00	FUNCTIONAL	-	-
1352	CHHATARPUR 220	33KV GARHI MALHERA	49.40	6.00	FUNCTIONAL	-	-
1353	CHHATARPUR 220	33KV DHARARI	48.80	2.50	FUNCTIONAL	-	-
1354	CHHATARPUR 220	33KV BASARI	49.40	2.00	FUNCTIONAL	-	-
1355	NOWGONG 132	33KV NOWGONG	49.40	3.00	FUNCTIONAL	-	-
1356	NOWGONG 132	33KV MES	49.40	7.00	FUNCTIONAL	-	-
1357	NOWGONG 132	33KV HARPALPUR	49.40	8.00	FUNCTIONAL	-	-
1358	NOWGONG 132	33KV LUGASI	49.40	6.00	FUNCTIONAL	-	-
1359	BIJAWAR 132	33KV GULGANJ	49.40	4.00	FUNCTIONAL	-	-
1360	BIJAWAR 132	33KV BHAGWAH	49.40	2.50	FUNCTIONAL	-	-
1361	BIJAWAR 132	33KV SATAI	49.40	7.00	FUNCTIONAL	-	-
1362	BIJAWAR 132	33KV BADA MALHERA	49.40	4.00	FUNCTIONAL	-	-
1363	BIJAWAR 132	33KV MATGUA	49.40	7.00	FUNCTIONAL	-	-
1364	BIJAWAR 132	33KV KISHANGARH	49.40	4.00	FUNCTIONAL	-	-
1365	BIJAWAR 132	33KV CHHATARPUR	48.80	8.00	FUNCTIONAL	-	-
1366	KHAJURAHO 132	33KV KHAJURAHO	48.80	3.00	FUNCTIONAL	-	-
1367	KHAJURAHO 132	33KV BAMBITA	49.40	5.00	FUNCTIONAL	-	-
1368	KHAJURAHO 132	33KV RAJNAGAR	49.40	8.00	FUNCTIONAL	-	-
1369	KHAJURAHO 132	33KV BASARI	49.40	8.00	FUNCTIONAL	-	-
1370	KHAJURAHO 132	33KV AIRPORT	48.80	0.50	FUNCTIONAL	-	-
1371	KHAJURAHO 132	33KV KISHANPURA	49.40	2.00	FUNCTIONAL	-	-
1372	LAVKUSHNAGAR 132	33KV LAV KUSH NAGAR	49.40	10.00	FUNCTIONAL	-	-
1373	LAVKUSHNAGAR 132	33KV BASANTPUR	49.40	8.00	FUNCTIONAL	-	-
1374	LAVKUSHNAGAR 132	33KV CHANDALA	49.40	6.00	FUNCTIONAL	-	-
1375	LAVKUSHNAGAR 132	33KV DUMRA	49.40	8.00	FUNCTIONAL	-	-
1376	BADAMALAHERA 132	33KV GULGANJ	49.40	4.00	FUNCTIONAL	-	-
1377	BADAMALAHERA 132	33KV DARGUA	49.40	5.50	FUNCTIONAL	-	-
1378	BADAMALAHERA 132	33KV BHAGWAH	49.40	9.00	FUNCTIONAL	-	-
1379	BADAMALAHERA 132	33KV BADA-MLAHERA	49.40	6.50	FUNCTIONAL	-	-
1380	TIKAMGARH 220	33KV TIKAMGARH	48.80	1.50	FUNCTIONAL	-	-
1381	TIKAMGARH 220	33KV COLLECTORATE	48.80	2.50	FUNCTIONAL	-	-

1382	TIKAMGARH 220	33KV DHONGA	49.00	3.20	FUNCTIONAL	-	-
1383	TIKAMGARH 220	33KV MOHANGARH	49.00	2.20	FUNCTIONAL	-	-
1384	TIKAMGARH 220	33KV DIGODA-I	49.00	1.60	FUNCTIONAL	-	-
1385	TIKAMGARH 220	33KV DIGODA-II	49.00	1.50	FUNCTIONAL	-	-
1386	JATAR 132	33KV JATAR	48.80	5.50	FUNCTIONAL	-	-
1387	JATAR 132	33KV PALERA	48.80	9.00	FUNCTIONAL	-	-
1388	JATAR 132	33KV BAMORI	49.00	2.00	FUNCTIONAL	-	-
1389	JATAR 132	33KV HRIDAYNAGAR	49.00	4.20	FUNCTIONAL	-	-
1390	JATAR 132	33KV VEERPURA	49.00	5.10	FUNCTIONAL	-	-
1391	TIKAMGARH 132	33KV NAINWARI	49.00	1.40	FUNCTIONAL	-	-
1392	TIKAMGARH 132	33KV DHONGA	48.80	0.20	FUNCTIONAL	-	-
1393	TIKAMGARH 132	33KV BAIDEOGARH	49.00	2.70	FUNCTIONAL	-	-
1394	TIKAMGARH 132	33KV 8 MVA X-MER	49.00	1.00	FUNCTIONAL	-	-
1395	TIKAMGARH 132	33KV NEEMKHERA	49.00	1.20	FUNCTIONAL	-	-
1396	TIKAMGARH 132	33KV MAVAI	49.00	1.20	FUNCTIONAL	-	-
1397	TIKAMGARH 132	33KV BADAGAON	49.00	2.50	FUNCTIONAL	-	-
1398	TIKAMGARH 132	33KV POWER HOUSE	48.80	5.50	FUNCTIONAL	-	-
1399	TIKAMGARH 132	33KV AHAR	49.00	1.40	FUNCTIONAL	-	-
1400	PRITHVIPUR 132	33KV TEHARKA	49.00	6.10	FUNCTIONAL	-	-
1401	PRITHVIPUR 132	33KV NEGUWAN	49.00	2.80	FUNCTIONAL	-	-
1402	PRITHVIPUR 132	33KV ZERON	49.00	1.90	FUNCTIONAL	-	-
1403	PRITHVIPUR 132	33KV PRITHVIPUR	49.00	2.60	FUNCTIONAL	-	-
1404	PRITHVIPUR 132	33KV MADIYA	49.00	3.60	FUNCTIONAL	-	-
1405	PRITHVIPUR 132	33KV PRATAPPURA	48.80	8.00	FUNCTIONAL	-	-
1406	PRITHVIPUR 132	33KV NIWARI-I	49.00	10.00	FUNCTIONAL	-	-
1407	PRITHVIPUR 132	33KV NIWARI-II	49.00	4.80	FUNCTIONAL	-	-
1408	PRITHVIPUR 132	33KV ORCHHA	49.00	5.90	FUNCTIONAL	-	-
1409	DIGODA 132	33KV DIGODA	49.00	3.20	FUNCTIONAL	-	-
1410	DIGODA 132	33KV KURRAI	49.00	2.00	FUNCTIONAL	-	-
1411	DIGODA 132	33KV MOHANGARH	49.00	4.70	FUNCTIONAL	-	-
1412	DIGODA 132	33KV LIDHORA	49.00	3.80	FUNCTIONAL	-	-
1413	BUDERA 132	33KV GHUWARA	49.00	4.00	FUNCTIONAL	-	-
1414	BUDERA 132	33KV BALDEOGARH	49.00	4.00	FUNCTIONAL	-	-
1415	BUDERA 132	33KV KHARGAPUR	49.00	5.20	FUNCTIONAL	-	-
1416	BUDERA 132	33KV BUDERA	49.00	3.40	FUNCTIONAL	-	-
1417	NIWARI 132	33KV ASATI-I	49.00	1.60	FUNCTIONAL	-	-
1418	NIWARI 132	33KV ASATI-II	49.00	1.50	FUNCTIONAL	-	-
1419	SAGAR 400	33KV DHANA	49.00	5.00	FUNCTIONAL	-	-
1420	SAGAR 400	33KV PERSORIA	49.00	5.00	FUNCTIONAL	-	-
1421	SAGAR 400	33KV KARRAPUR	49.00	6.00	FUNCTIONAL	-	-
1422	SAGAR 400	33KV MAINPANI	48.80	5.00	FUNCTIONAL	-	-
1423	SAGAR 400	33KV PATNA BIJURG	49.00	4.00	FUNCTIONAL	-	-
1424	SAGAR 400	33KV JAISINGAR	49.00	7.00	FUNCTIONAL	-	-
1425	SAGAR 132	33KV CHITORA	48.80	1.00	FUNCTIONAL	-	-
1426	SAGAR 132	33KV BILHARA	49.00	6.00	FUNCTIONAL	-	-
1427	SAGAR 132	33KV SURKHI	49.00	7.00	FUNCTIONAL	-	-
1428	SAGAR 132	33KV NARIOLI	49.00	9.00	FUNCTIONAL	-	-
1429	SAGAR 132	33KV MOTHI	49.00	8.00	FUNCTIONAL	-	-
1430	SAGAR 132	33KV SEHORA	49.00	5.00	FUNCTIONAL	-	-
1431	SAGAR 132	33KV MES KOREGAON	48.80	1.00	FUNCTIONAL	-	-
1432	SAGAR 132	33KV UNIVERSITY	48.80	5.00	FUNCTIONAL	-	-
1433	SAGAR 132	33KV DHARAMSHREE	48.80	6.00	FUNCTIONAL	-	-
1434	SAGAR 132	33KV KAREELA	48.80	13.00	FUNCTIONAL	-	-
1435	SAGAR 132	33KV SAGAR (P/H)	48.80	8.00	FUNCTIONAL	-	-
1436	SAGAR 132	33KV BANDA	49.00	6.00	FUNCTIONAL	-	-
1437	SAGAR 132	33KV HOUSHING BOARD	48.80	4.00	FUNCTIONAL	-	-
1438	SAGAR 132	33KV HINNOD	49.00	5.00	FUNCTIONAL	-	-
1439	SAGAR 132	33KV RAJGHAT	48.80	2.50	FUNCTIONAL	-	-
1440	SAGAR 132	33KV DEFENCE CAMP	48.80	1.00	FUNCTIONAL	-	-
1441	SAGAR 132	33KV CIVIL LINE	48.80	8.00	FUNCTIONAL	-	-
1442	GARHAKOTA 132	33KV GARHAKOTA	49.00	5.00	FUNCTIONAL	-	-
1443	GARHAKOTA 132	33KV REHLI	49.00	3.00	FUNCTIONAL	-	-
1444	GARHAKOTA 132	33KV CHANAUWA	49.00	10.00	FUNCTIONAL	-	-
1445	GARHAKOTA 132	33KV PATHARIYA	49.00	7.00	FUNCTIONAL	-	-
1446	GARHAKOTA 132	33KV KEOLARI	49.00	10.00	FUNCTIONAL	-	-
1447	GARHAKOTA 132	33KV BALEH	49.00	6.00	FUNCTIONAL	-	-
1448	GORJHAMER 132	33KV BARKOTI	49.00	6.00	FUNCTIONAL	-	-
1449	GORJHAMER 132	33KV DEORI	49.00	7.00	FUNCTIONAL	-	-
1450	GORJHAMER 132	33KV MAHARAJPUR	49.00	5.00	FUNCTIONAL	-	-
1451	GORJHAMER 132	33KV GOURJHAMER	49.00	7.00	FUNCTIONAL	-	-
1452	GORJHAMER 132	33KV KHAIRANA	49.00	4.00	FUNCTIONAL	-	-
1453	GORJHAMER 132	33KV KESLI -I	49.00	5.00	FUNCTIONAL	-	-
1454	GORJHAMER 132	33KV KESLI-II	49.00	5.00	FUNCTIONAL	-	-
1455	BANDA 132	33KV BANDA	48.80	7.00	FUNCTIONAL	-	-
1456	BANDA 132	33KV ULDAN	49.00	4.00	FUNCTIONAL	-	-
1457	BANDA 132	33KV BHADRANA	49.00	5.00	FUNCTIONAL	-	-
1458	BANDA 132	33KV DALPATPUR-1	49.00	7.00	FUNCTIONAL	-	-
1459	BANDA 132	33KV DALPATPUR-2	48.80	6.00	FUNCTIONAL	-	-
1460	BANDA 132	33KV NAINDHARA	49.00	4.00	FUNCTIONAL	-	-
1461	DAMOH 220	33KV JABERA - I	49.00	6.00	FUNCTIONAL	-	-
1462	DAMOH 220	33KV JABERA - II	49.00	6.00	FUNCTIONAL	-	-
1463	DAMOH 220	33KV BANSA	49.00	5.00	FUNCTIONAL	-	-
1464	DAMOH 220	33KV PATERA	49.00	4.00	FUNCTIONAL	-	-
1465	DAMOH 220	33KV TOWN	48.80	5.00	FUNCTIONAL	-	-
1466	DAMOH 220	33KV KERBANA	49.00	6.00	FUNCTIONAL	-	-
1467	DAMOH 220	33KV BSNL	48.80	2.00	FUNCTIONAL	-	-
1468	DAMOH 220	33KV PGCL	48.80	1.00	FUNCTIONAL	-	-
1469	DAMOH 220	33KV NARSINGARH	49.00	3.00	FUNCTIONAL	-	-
1470	DAMOH 220	33KV BANDAKPUR	49.00	5.00	FUNCTIONAL	-	-
1471	DAMOH 220	33KV INDUSTRIAL MARUTAL	49.00	4.00	FUNCTIONAL	-	-
1472	DAMOH 220	33KV JALNINGAM	48.80	1.00	FUNCTIONAL	-	-
1473	RAHULI 132	33KV CHHIRARI	49.00	5.00	FUNCTIONAL	-	-
1474	RAHULI 132	33KV RAHULI	48.80	7.00	FUNCTIONAL	-	-
1475	RAHULI 132	33KV GUDA	49.00	2.00	FUNCTIONAL	-	-
1476	RAHULI 132	33KV PATNA BIJURG	49.00	2.00	FUNCTIONAL	-	-
1477	DEORI 132	33KV DEORI	48.80	6.00	FUNCTIONAL	-	-
1478	DEORI 132	33KV KOPRA	49.00	2.00	FUNCTIONAL	-	-
1479	DAMOH 132	33KV DISCOM	48.80	6.80	FUNCTIONAL	-	-
1480	DAMOH 132	33KV HATTA (TOWN)	48.80	7.40	FUNCTIONAL	-	-
1481	DAMOH 132	33KV IMLAI	49.00	7.40	FUNCTIONAL	-	-
1482	DAMOH 132	33KV PHUTERA	49.00	8.50	FUNCTIONAL	-	-
1483	HATTA 132	33KV HATTA	48.80	11.00	FUNCTIONAL	-	-
1484	HATTA 132	33KV HINOTA	49.00	15.00	FUNCTIONAL	-	-
1485	HATTA 132	33KV GESABAD	49.00	11.00	FUNCTIONAL	-	-
1486	HATTA 132	33KV MADIYADOV	48.80	10.00	FUNCTIONAL	-	-
1487	HATTA 132	33KV BANGOWN	49.00	12.28	FUNCTIONAL	-	-
1488	HATTA 132	33KV PTEHPUR	49.00	11.50	FUNCTIONAL	-	-

1489	BATIYAGRAH 132	33KV BATIYAGRAH	48.80	14.00	FUNCTIONAL	-	-
1490	BATIYAGRAH 132	33KV MAGRON	49.00	10.00	FUNCTIONAL	-	-
1491	BATIYAGRAH 132	33KV KERBANA	49.00	9.00	FUNCTIONAL	-	-
1492	BATIYAGRAH 132	33KV BUXWAHA	49.00	10.00	FUNCTIONAL	-	-
1493	PATERA 132	33KV PATERA	48.80	5.00	FUNCTIONAL	-	-
1494	PATERA 132	33KV KUNDALPUR	49.00	4.00	FUNCTIONAL	-	-
1495	PATERA 132	33KV KUDAI	49.00	6.00	FUNCTIONAL	-	-
1496	PATERA 132	33KV HATTA	49.00	1.00	FUNCTIONAL	-	-
1497	KOTAR 220	33KV BIRISINGHPUR	49.20	6.00	FUNCTIONAL	-	-
1498	KOTAR 220	33KV KOTAR	49.20	7.00	FUNCTIONAL	-	-
1499	KOTAR 220	33KV DAGDIHA 1	49.20	4.00	FUNCTIONAL	-	-
1500	KOTAR 220	33KV TIKURI	49.20	5.00	FUNCTIONAL	-	-
1501	KOTAR 220	33KV SUKWAH	49.20	6.00	FUNCTIONAL	-	-
1502	KOTAR 220	33KV SEMARIYA	49.20	7.00	FUNCTIONAL	-	-
1503	KOTAR 220	33KV DAGDIHA 2	49.20	7.00	FUNCTIONAL	-	-
1504	SATNA 132	33KV PREMNAGAR	49.20	10.00	FUNCTIONAL	-	-
1505	SATNA 132	33KV RAILWAY	49.20	5.00	FUNCTIONAL	-	-
1506	SATNA 132	33KV KOLGAWAN	49.20	6.00	FUNCTIONAL	-	-
1507	SATNA 132	33KV REWA	49.20	5.00	FUNCTIONAL	-	-
1508	SATNA 132	33KV KS-I	49.20	1.00	FUNCTIONAL	-	-
1509	SATNA 132	33KV KS-II	49.20	1.00	FUNCTIONAL	-	-
1510	SATNA 132	33KV KARIGOHI	49.20	10.00	FUNCTIONAL	-	-
1511	AMARPATAN 132	33KV AMARPATAN	49.20	6.00	FUNCTIONAL	-	-
1512	AMARPATAN 132	33KV RAMNAGAR	49.20	10.00	FUNCTIONAL	-	-
1513	AMARPATAN 132	33KV NADAN	49.20	2.00	FUNCTIONAL	-	-
1514	AMARPATAN 132	33KV SATNA	49.20	10.00	FUNCTIONAL	-	-
1515	AMARPATAN 132	33KV KATHAHA	49.20	1.00	FUNCTIONAL	-	-
1516	AMARPATAN 132	33KV TALA	49.20	10.00	FUNCTIONAL	-	-
1517	MAJHGAWAN 132	33KV CHITRAKOOT	48.80	6.00	FUNCTIONAL	-	-
1518	MAJHGAWAN 132	33KV KOTHI	49.20	11.00	FUNCTIONAL	-	-
1519	MAJHGAWAN 132	33KV MAJHGAWAN	49.20	5.00	FUNCTIONAL	-	-
1520	MAJHGAWAN 132	33KV BAROUNDHA	49.20	5.50	FUNCTIONAL	-	-
1521	PANNA 132	33KV CHHATARPUR	49.20	3.00	FUNCTIONAL	-	-
1522	PANNA 132	33KV PAWAI	49.20	12.50	FUNCTIONAL	-	-
1523	PANNA 132	33KV DEVENDR NAGAR	49.20	1.00	FUNCTIONAL	-	-
1524	PANNA 132	33KV AJAYGARH	49.20	0.30	FUNCTIONAL	-	-
1525	MAIHAR 132	33KV RELIANCE	48.80	6.10	FUNCTIONAL	-	-
1526	MAIHAR 132	33KV AMARPATAN	49.20	0.50	FUNCTIONAL	-	-
1527	MAIHAR 132	33KV MAIHAR TOWN	49.20	4.70	FUNCTIONAL	-	-
1528	MAIHAR 132	33KV UNCHEHARA	49.20	4.60	FUNCTIONAL	-	-
1529	MAIHAR 132	33KV AMADARA	49.20	2.30	FUNCTIONAL	-	-
1530	MAIHAR 132	33KV BADERA	49.20	1.50	FUNCTIONAL	-	-
1531	NAGOD 132	33KV JASO-I	49.20	5.00	FUNCTIONAL	-	-
1532	NAGOD 132	33KV NAGOD	49.20	6.00	FUNCTIONAL	-	-
1533	NAGOD 132	33KV RAHIKWARA	49.20	3.00	FUNCTIONAL	-	-
1534	NAGOD 132	33KV JASO -2ND	49.20	6.00	FUNCTIONAL	-	-
1535	NAGOD 132	33KV BASUDHA	49.20	2.00	FUNCTIONAL	-	-
1536	NAGOD 132	33KV SINGHPUR	49.20	6.00	FUNCTIONAL	-	-
1537	PAWAI 132	33KV PAWAI	49.20	9.00	FUNCTIONAL	-	-
1538	PAWAI 132	33KV MOHANDRA	49.20	9.10	FUNCTIONAL	-	-
1539	PAWAI 132	33KV AMANGANJ	49.20	7.00	FUNCTIONAL	-	-
1540	PAWAI 132	33KV GOUNORE	49.20	9.50	FUNCTIONAL	-	-
1541	SATNA 220	33KV JAITWARA	48.80	5.00	FUNCTIONAL	-	-
1542	SATNA 220	33KV BHILAI J.P.	48.80	2.00	FUNCTIONAL	-	-
1543	SATNA 220	33KV NAGOD	49.20	4.70	FUNCTIONAL	-	-
1544	SATNA 220	33KV UNCHEHARA	49.20	3.50	FUNCTIONAL	-	-
1545	SATNA 220	33KV RAIGAON	49.20	2.30	FUNCTIONAL	-	-
1546	SATNA 220	33KV PGCIL	49.20	1.00	FUNCTIONAL	-	-
1547	SATNA 220	33KV SITIPURA	49.20	2.20	FUNCTIONAL	-	-
1548	SATNA 220	33KV PANNA (SINGHPUR)	49.20	4.80	FUNCTIONAL	-	-
1549	UNCHEHARA 132	33KV UNCHEHARA	49.20	8.20	FUNCTIONAL	-	-
1550	UNCHEHARA 132	33KV JEETNAGAR	49.20	2.00	FUNCTIONAL	-	-
1551	SATNA-II 132	33KV TIKURIYATOLA	49.20	4.00	FUNCTIONAL	-	-
1552	SATNA-II 132	33KV TRANSPORTNAGAR	49.20	1.00	FUNCTIONAL	-	-
1553	SATNA-II 132	33KV ANEYKET MATEHNA	49.20	5.20	FUNCTIONAL	-	-
1554	REWA 220	33KV GUDH	49.20	10.00	FUNCTIONAL	-	-
1555	REWA 220	33KV MANIKWAR	49.20	10.00	FUNCTIONAL	-	-
1556	REWA 220	33KV RATHRA	48.80	6.00	FUNCTIONAL	-	-
1557	REWA 220	33KV BANSAGAR	48.80	7.55	FUNCTIONAL	-	-
1558	REWA 220	33KV SUPIYA	49.20	3.00	FUNCTIONAL	-	-
1559	REWA 220	33KV TEEKAR	49.20	10.00	FUNCTIONAL	-	-
1560	REWA 220	33KV S.G.M.H	48.80	10.00	FUNCTIONAL	-	-
1561	SIRMOUR 220	33KV UMARI	49.20	4.50	FUNCTIONAL	-	-
1562	SIRMOUR 220	33KV DEWAS	49.20	3.00	FUNCTIONAL	-	-
1563	SIRMOUR 220	33KV PATERA	49.20	1.00	FUNCTIONAL	-	-
1564	SIRMOUR 220	33KV SIRMOUR	49.20	1.00	FUNCTIONAL	-	-
1565	REWA 132	33KV MOHRA	49.20	4.00	FUNCTIONAL	-	-
1566	REWA 132	33KV SIRMOUR	49.20	8.20	FUNCTIONAL	-	-
1567	REWA 132	33KV SEMARIYA	49.20	10.10	FUNCTIONAL	-	-
1568	REWA 132	33KV BANKUIYA	49.20	10.00	FUNCTIONAL	-	-
1569	REWA 132	33KV WATER WORKS	48.80	5.20	FUNCTIONAL	-	-
1570	REWA 132	33KV AMRITI	48.80	4.10	FUNCTIONAL	-	-
1571	REWA 132	33KV AIR	48.80	10.20	FUNCTIONAL	-	-
1572	REWA 132	33KV MARTH. SCHOOL	48.80	11.00	FUNCTIONAL	-	-
1573	REWA 132	33KV ENGG. COLLAGE	48.80	11.00	FUNCTIONAL	-	-
1574	MANGAWAN-132	33KV MANGAWAN	49.20	6.50	FUNCTIONAL	-	-
1575	MANGAWAN-132	33KV GANGE	49.20	11.00	FUNCTIONAL	-	-
1576	MANGAWAN-132	33KV MAUGANJ	49.20	12.00	FUNCTIONAL	-	-
1577	KATRA-132	33KV KATRA	49.20	8.00	FUNCTIONAL	-	-
1578	KATRA-132	33KV NAIGANDHI	49.20	8.00	FUNCTIONAL	-	-
1579	KATRA-132	33KV GARH	49.20	8.10	FUNCTIONAL	-	-
1580	KATRA-132	33KV PANGADI	49.20	2.80	FUNCTIONAL	-	-
1581	KATRA-132	33KV CHAKGHAT	49.20	9.00	FUNCTIONAL	-	-
1582	KATRA-132	33KV TYOTHAR	49.20	10.00	FUNCTIONAL	-	-
1583	KATRA-132	33KV JAVA	49.20	8.00	FUNCTIONAL	-	-
1584	KATRA-132	33KV BANSAGAR	49.20	9.00	FUNCTIONAL	-	-
1585	MAUGANJ 132	33KV HANUMANNA	49.20	9.00	FUNCTIONAL	-	-
1586	MAUGANJ 132	33KV MAUGANJ	49.20	8.00	FUNCTIONAL	-	-
1587	MAUGANJ 132	33KV KHATKHA	49.20	9.00	FUNCTIONAL	-	-
1588	MAUGANJ 132	33KV BAHERA DABAR	49.20	8.00	FUNCTIONAL	-	-
1589	MAUGANJ 132	33KV DHERA	49.20	8.00	FUNCTIONAL	-	-
1590	MAUGANJ 132	33KV MAUGANJ JAIL	49.20	2.00	FUNCTIONAL	-	-
1591	REWA-II-132	33KV MOHRA	49.20	8.00	FUNCTIONAL	-	-
1592	REWA-II-132	33KV SIRMOUR	49.20	8.00	FUNCTIONAL	-	-
1593	REWA-II-132	33KV RATAHRA	48.80	10.00	FUNCTIONAL	-	-
1594	REWA-II-132	33KV RAIPUR	48.80	10.00	FUNCTIONAL	-	-
1595	RAMPUR NAIKIN-132	33KV RAMPUR NAIKIN	49.20	5.87	FUNCTIONAL	-	-

1596	RAMPUR NAIKIN-132	33KV DHANHA	49.20	5.22	FUNCTIONAL	-	-
1597	RAMPUR NAIKIN-132	33KV BAGHWAR	49.20	6.25	FUNCTIONAL	-	-
1598	RAMPUR NAIKIN-132	33KV KOTHIYA	49.20	8.00	FUNCTIONAL	-	-
1599	ATRALA -132	33KV ATRALA	49.20	10.00	FUNCTIONAL	-	-
1600	ATRALA -132	33KV RAMBAG	49.20	12.00	FUNCTIONAL	-	-
1601	RAMPUR BAGHELANI132	33KV RAMPUR BAG.	49.20	7.60	FUNCTIONAL	-	-
1602	RAMPUR BAGHELANI132	33KV CHORMARI	49.20	4.30	FUNCTIONAL	-	-
1603	RAMPUR BAGHELANI132	33KV MADAHWGARH	49.20	6.00	FUNCTIONAL	-	-
1604	RAMPUR BAGHELANI132	33KV BELA	49.20	8.50	FUNCTIONAL	-	-
1605	RAMPUR BAGHELANI132	33KV KRISHNAGARH	49.20	9.00	FUNCTIONAL	-	-
1606	RAMPUR BAGHELANI132	33KV SAJANPUR	49.20	7.50	FUNCTIONAL	-	-
1607	RAMPUR BAGHELANI132	33KV J.P. AGRO	48.80	1.00	FUNCTIONAL	-	-
1608	RAMPUR BAGHELANI132	33KV GORAYA	49.20	10.00	FUNCTIONAL	-	-
1609	RAMPUR BAGHELANI132	33KV CHHIBAURA	49.20	8.50	FUNCTIONAL	-	-
1610	RAMPUR BAGHELANI132	33KV SILPARI	49.20	4.50	FUNCTIONAL	-	-
1611	RAMPUR BAGHELANI132	33KV MATEHNA	49.20	4.00	FUNCTIONAL	-	-
1612	SIDHI 220	33KV SEMSRIYA	49.20	11.00	FUNCTIONAL	-	-
1613	SIDHI 220	33KV MADWAS	49.20	6.00	FUNCTIONAL	-	-
1614	SIDHI 220	33KV JP -I	49.20	5.00	FUNCTIONAL	-	-
1615	SIDHI 220	33KV JP-II	49.20	4.00	FUNCTIONAL	-	-
1616	SIDHI 220	33KV SEHAWAL	49.20	11.00	FUNCTIONAL	-	-
1617	SIDHI 132	33KV PATPARA	49.20	11.00	FUNCTIONAL	-	-
1618	SIDHI 132	33KV CITY-I	48.80	6.00	FUNCTIONAL	-	-
1619	SIDHI 132	33KV CITY-II	48.80	2.00	FUNCTIONAL	-	-
1620	SIDHI 132	33KV CITY-III	48.80	3.00	FUNCTIONAL	-	-
1621	SIDHI 132	33KV REWA	49.20	7.00	FUNCTIONAL	-	-
1622	MORWA 132	33KV SIDHI	49.20	7.00	FUNCTIONAL	-	-
1623	MORWA 132	33KV BAGAIYA	49.20	4.00	FUNCTIONAL	-	-
1624	MORWA 132	33KV REC	49.40	1.00	FUNCTIONAL	-	-
1625	MORWA 132	33KV JHINGURDAH	48.80	1.60	FUNCTIONAL	-	-
1626	MORWA 132	33KV GORBI	48.80	1.50	FUNCTIONAL	-	-
1627	MORWA 132	33KV NCL TOWN	48.80	1.40	FUNCTIONAL	-	-
1628	MORWA 132	33KV BHIKHAJHARIYA	48.80	1.90	FUNCTIONAL	-	-
1629	MORWA 132	33KV ATLANTA	48.80	3.00	FUNCTIONAL	-	-
1630	MORWA 132	33KV SDT	48.80	2.00	FUNCTIONAL	-	-
1631	WAIDHAN 132	33KV WAIDHAN	48.80	6.00	FUNCTIONAL	-	-
1632	WAIDHAN 132	33KV PASONA	48.80	7.00	FUNCTIONAL	-	-
1633	WAIDHAN 132	33KV NIGAHI	48.80	1.50	FUNCTIONAL	-	-
1634	WAIDHAN 132	33KV DUDHICHUA	48.80	2.00	FUNCTIONAL	-	-
1635	WAIDHAN 132	33KV SASAN POWER	49.20	7.00	FUNCTIONAL	-	-
1636	WAIDHAN 132	33KV NTPC KACHNI	48.80	6.00	FUNCTIONAL	-	-
1637	WAIDHAN 132	33KV NAVJEETAN VIHAR	48.80	5.00	FUNCTIONAL	-	-
1638	WAIDHAN 132	33KV JAYANT	48.80	2.00	FUNCTIONAL	-	-
1639	RAJAMILAN 132	33KV MADA	49.20	5.00	FUNCTIONAL	-	-
1640	RAJAMILAN 132	33KV KHUTAR	49.20	7.00	FUNCTIONAL	-	-
1641	RAJAMILAN 132	33KV PGCL	48.80	2.00	FUNCTIONAL	-	-
1642	RAJAMILAN 132	33KV RAJAMILAN	49.20	2.00	FUNCTIONAL	-	-
1643	DEOSAR 132	33KV DEOSAR	49.20	6.10	FUNCTIONAL	-	-
1644	DEOSAR 132	33KV BEHRI	49.20	2.20	FUNCTIONAL	-	-
1645	DEOSAR 132	33KV PARSOHAR	49.20	1.20	FUNCTIONAL	-	-
1646	DEOSAR 132	33KV CHITRANGI	49.20	3.00	FUNCTIONAL	-	-
1647	DONGRITAL 132	33KV LANGHA DOL	49.20	2.50	FUNCTIONAL	-	-
1648	DONGRITAL 132	33KV KHANUA KHAS	49.20	12.00	FUNCTIONAL	-	-
1649	MADWAS 132	33KV MAJHULI	49.20	9.00	FUNCTIONAL	-	-
1650	MADWAS 132	33KV KUSMI	49.20	3.00	FUNCTIONAL	-	-
1651	MADWAS 132	33KV KAMCHAD	49.20	3.00	FUNCTIONAL	-	-
1652	MADWAS 132	33KV MADWAS	49.20	6.00	FUNCTIONAL	-	-
1653	SIHAWAL 132	33KV AMILIYA	49.20	6.00	FUNCTIONAL	-	-
1654	SIHAWAL 132	33KV GERUA	49.20	2.00	FUNCTIONAL	-	-
1655	SIHAWAL 132	33KV BICHHI	49.20	2.00	FUNCTIONAL	-	-
1656	GORABAZAR 220	33KV HR TOWEN	48.80	12.00	FUNCTIONAL	-	-
1657	GORABAZAR 220	33KV RIGHT TOWEN	48.80	8.00	FUNCTIONAL	-	-
1658	GORABAZAR 220	33KV GORABAJAR NO.3	48.80	9.00	FUNCTIONAL	-	-
1659	GORABAZAR 220	33KV GORABAJAR NO.5	48.80	10.00	FUNCTIONAL	-	-
1660	PANAGAR 220	33KV BELKHADU	49.20	4.50	FUNCTIONAL	-	-
1661	PANAGAR 220	33KV BARODRA	49.20	9.00	FUNCTIONAL	-	-
1662	PANAGAR 220	33KV CITY	48.80	7.00	FUNCTIONAL	-	-
1663	PANAGAR 220	33KV URDUA	48.80	13.00	FUNCTIONAL	-	-
1664	PANAGAR 220	33KV LEMAGARDEN	48.80	3.00	FUNCTIONAL	-	-
1665	PANAGAR 220	33KV KHUDWARI	48.80	1.00	FUNCTIONAL	-	-
1666	SHRINAGAR 132	33KV GOTEGAON-1	49.00	13.50	FUNCTIONAL	-	-
1667	SHRINAGAR 132	33KV GOTEGAON-2	49.00	9.50	FUNCTIONAL	-	-
1668	SHRINAGAR 132	33KV BAGASPUR	49.00	7.50	FUNCTIONAL	-	-
1669	SHRINAGAR 132	33KV PARAMHANSI	49.00	8.40	FUNCTIONAL	-	-
1670	SHRINAGAR 132	33KV SHRINAGAR	49.00	9.50	FUNCTIONAL	-	-
1671	SHRINAGAR 132	33KV GUNDARAI	49.00	10.50	FUNCTIONAL	-	-
1672	SHAHPURA 132	33KV BELKHEDA-1	48.80	3.00	FUNCTIONAL	-	-
1673	SHAHPURA 132	33KV PGCL	48.80	1.50	FUNCTIONAL	-	-
1674	SHAHPURA 132	33KV BELKHEDA-2	49.20	12.50	FUNCTIONAL	-	-
1675	SHAHPURA 132	33KV BELKHEDA-3	49.20	12.50	FUNCTIONAL	-	-
1676	SHAHPURA 132	33KV SHP	49.20	15.50	FUNCTIONAL	-	-
1677	SHAHPURA 132	33KV NONI PATAAN	49.20	10.20	FUNCTIONAL	-	-
1678	VINOBA BHAVE 132	33KV UKHARI -1	48.80	10.50	FUNCTIONAL	-	-
1679	VINOBA BHAVE 132	33KV UKHARI -2	48.80	10.50	FUNCTIONAL	-	-
1680	VINOBA BHAVE 132	33KV VINOBA BHAVE	48.80	8.40	FUNCTIONAL	-	-
1681	VINOBA BHAVE 132	33KV SATPULA	48.80	7.40	FUNCTIONAL	-	-
1682	VINOBA BHAVE 132	33KV GORABAJAR-1	48.80	8.60	FUNCTIONAL	-	-
1683	VINOBA BHAVE 132	33KV GORABAJAR-2	48.80	10.00	FUNCTIONAL	-	-
1684	VINOBA BHAVE 132	33KV GHANTAGHAR	48.80	11.20	FUNCTIONAL	-	-
1685	VINOBA BHAVE 132	33KV BHANTALAIYA	48.80	15.40	FUNCTIONAL	-	-
1686	MANDLA 132	33KV PONDI	49.00	8.50	FUNCTIONAL	-	-
1687	MANDLA 132	33KV NAINPUR	49.00	10.20	FUNCTIONAL	-	-
1688	MANDLA 132	33KV MANDLA	49.00	12.50	FUNCTIONAL	-	-
1689	MANDLA 132	33KV BICHHIYA	49.00	13.50	FUNCTIONAL	-	-
1690	MANERI 132	33KV NIWAS	49.00	9.80	FUNCTIONAL	-	-
1691	MANERI 132	33KV BARELA-1	49.00	15.05	FUNCTIONAL	-	-
1692	MANERI 132	33KV BARELA--2	49.00	11.95	FUNCTIONAL	-	-
1693	BELKHEDA 132	33KV BELKHEDA	48.80	15.00	FUNCTIONAL	-	-
1694	BELKHEDA 132	33KV PIPARIYA	48.80	2.00	FUNCTIONAL	-	-
1695	BELKHEDA 132	33KV KARIYA	48.80	4.50	FUNCTIONAL	-	-
1696	BELKHEDA 132	33KV MERAGOAN	48.80	7.60	FUNCTIONAL	-	-
1697	BICHHIYA 132	33KV BICHHIYA	48.80	7.50	FUNCTIONAL	-	-
1698	JABALPUR 220	33KV JABALPUR 1	48.80	15.10	FUNCTIONAL	-	-
1699	JABALPUR 220	33KV JABALPUR 2	48.80	17.00	FUNCTIONAL	-	-
1700	JABALPUR 220	33KV JABALPUR 3	48.80	14.60	FUNCTIONAL	-	-
1701	JABALPUR 220	33KV JABALPUR 4	48.80	13.40	FUNCTIONAL	-	-
1702	JABALPUR 220	33KV JABALPUR 5	48.80	15.00	FUNCTIONAL	-	-

1703	JABALPUR 220	33KV JABALPUR 6	48.80	12.80	FUNCTIONAL	-	-
1704	JABALPUR 220	33KV JABALPUR 7	48.80	9.80	FUNCTIONAL	-	-
1705	JABALPUR 220	33KV JABALPUR 8	48.80	13.30	FUNCTIONAL	-	-
1706	JABALPUR 220	33KV COMPLEX 1	48.80	7.60	FUNCTIONAL	-	-
1707	JABALPUR 220	33KV COMPLEX 2	48.80	6.60	FUNCTIONAL	-	-
1708	JABALPUR 220	33KV RAMNAGRA 2	48.80	1.10	FUNCTIONAL	-	-
1709	PATAN 132	33KV PATAN	49.20	12.10	FUNCTIONAL	-	-
1710	PATAN 132	33KV NONI	49.20	9.20	FUNCTIONAL	-	-
1711	PATAN 132	33KV KATRA BELKHEDA	49.20	15.70	FUNCTIONAL	-	-
1712	PATAN 132	33KV RONSARA	49.20	11.90	FUNCTIONAL	-	-
1713	PATAN 132	33KV PATHORI	49.20	10.00	FUNCTIONAL	-	-
1714	PATAN 132	33KV KYMORI	49.20	6.90	FUNCTIONAL	-	-
1715	VFJ 132	33KV GCF	48.80	9.80	FUNCTIONAL	-	-
1716	VFJ 132	33KV O F K	48.80	5.00	FUNCTIONAL	-	-
1717	VFJ 132	33KV ADHARTAL	48.80	14.80	FUNCTIONAL	-	-
1718	VFJ 132	33KV RICHHAI	48.80	13.40	FUNCTIONAL	-	-
1719	VFJ 132	33KV GOKALPUR	48.80	12.70	FUNCTIONAL	-	-
1720	VFJ 132	33KV SIHORA	49.20	12.60	FUNCTIONAL	-	-
1721	MARHOTAL 132	33KV MARHOTAL	48.80	12.40	FUNCTIONAL	-	-
1722	MARHOTAL 132	33KV KATANGI	48.80	9.40	FUNCTIONAL	-	-
1723	MARHOTAL 132	33KV LEMA GARDEN	48.80	11.80	FUNCTIONAL	-	-
1724	MARHOTAL 132	33KV JP NAGAR	48.80	10.80	FUNCTIONAL	-	-
1725	MARHOTAL 132	33KV RAMESWARAM	48.80	11.00	FUNCTIONAL	-	-
1726	KATANGI 132	33KV BORIYA	49.20	13.30	FUNCTIONAL	-	-
1727	KATANGI 132	33KV KYMORI	49.20	8.20	FUNCTIONAL	-	-
1728	KATANGI 132	33KV POLA	49.20	15.80	FUNCTIONAL	-	-
1729	KATANGI 132	33KV KATANGI	49.20	10.50	FUNCTIONAL	-	-
1730	TEJGARH 132	33KV NOHTA	48.80	5.20	FUNCTIONAL	-	-
1731	TEJGARH 132	33KV HARRAI	48.80	7.90	FUNCTIONAL	-	-
1732	TEJGARH 132	33KV TENDUKHEDA	48.80	6.30	FUNCTIONAL	-	-
1733	TEJGARH 132	33KV JABERA	48.80	8.40	FUNCTIONAL	-	-
1734	GHANSORE 132	33KV GHANSORE	48.80	6.40	FUNCTIONAL	-	-
1735	KATNI 400	33KV KATNI-1	48.80	10.00	FUNCTIONAL	-	-
1736	KATNI 400	33KV SHAHNAGAR-1	49.20	5.00	FUNCTIONAL	-	-
1737	KATNI 400	33KV PURENA	48.80	5.00	FUNCTIONAL	-	-
1738	KATNI 400	33KV KATNI-2	49.20	8.00	FUNCTIONAL	-	-
1739	KATNI 400	33KV SHAHNAGAR-2	49.20	15.00	FUNCTIONAL	-	-
1740	KATNI 400	33KV DEVGAON	49.20	5.00	FUNCTIONAL	-	-
1741	KATNI 400	33KV CHAKA	48.80	2.00	FUNCTIONAL	-	-
1742	KATNI 132	33KV BADWARA	49.20	5.00	FUNCTIONAL	-	-
1743	KATNI 132	33KV BILHARI	49.20	5.00	FUNCTIONAL	-	-
1744	KATNI 132	33KV PAHARUA	48.80	4.00	FUNCTIONAL	-	-
1745	KATNI 132	33KV SLEEMNABAD	48.80	10.00	FUNCTIONAL	-	-
1746	KATNI 132	33KV ACC	48.80	2.00	FUNCTIONAL	-	-
1747	KATNI 132	33KV BURN & CO.	48.80	2.00	FUNCTIONAL	-	-
1748	KATNI 132	33KV ORD-1	48.80	1.00	FUNCTIONAL	-	-
1749	KATNI 132	33KV ORD-2	48.80	1.00	FUNCTIONAL	-	-
1750	KATNI 132	33KV DABUR	48.80	4.00	FUNCTIONAL	-	-
1751	KATNI 132	33KV KATAIGHAT	48.80	5.00	FUNCTIONAL	-	-
1752	KATNI 132	33KV NKJ	48.80	10.00	FUNCTIONAL	-	-
1753	KYMORE 132	33KV BARHII	49.20	5.00	FUNCTIONAL	-	-
1754	KYMORE 132	33KV IC KATNI	49.20	8.00	FUNCTIONAL	-	-
1755	KYMORE 132	33KV SINGOUDI	49.20	10.00	FUNCTIONAL	-	-
1756	KYMORE 132	33KV ESBESTOS	48.80	1.00	FUNCTIONAL	-	-
1757	KYMORE 132	33KV BAMANGAON	48.80	4.00	FUNCTIONAL	-	-
1758	SLEEMNABAD 132	33KV BAHORIBAND-1	49.20	13.00	FUNCTIONAL	-	-
1759	SLEEMNABAD 132	33KV BAHORIBAND-2	49.20	10.00	FUNCTIONAL	-	-
1760	SLEEMNABAD 132	33KV SLEEMNABAD	49.20	7.00	FUNCTIONAL	-	-
1761	SLEEMNABAD 132	33KV PANUMARIYA-1	49.20	5.00	FUNCTIONAL	-	-
1762	SLEEMNABAD 132	33KV PANUMARIYA-2	49.20	3.00	FUNCTIONAL	-	-
1763	SLEEMNABAD 132	33KV COSTEL POWER	48.80	1.00	FUNCTIONAL	-	-
1764	SLEEMNABAD 132	33KV INDUSTRIAL	48.80	1.00	FUNCTIONAL	-	-
1765	MANSAKRA 132	33KV SIHORA-1	49.20	6.00	FUNCTIONAL	-	-
1766	MANSAKRA 132	33KV SIHORA -2	49.20	6.00	FUNCTIONAL	-	-
1767	MANSAKRA 132	33KV MAJHOLI-1	49.20	2.00	FUNCTIONAL	-	-
1768	MANSAKRA 132	33KV MAJHOLI-2	49.20	7.00	FUNCTIONAL	-	-
1769	MANSAKRA 132	33KV MAJHGAWAN	49.00	15.00	FUNCTIONAL	-	-
1770	MANSAKRA 132	33KV SLEEMNABAD	49.20	8.00	FUNCTIONAL	-	-
1771	MANSAKRA 132	33KV HARGARH	49.20	4.00	FUNCTIONAL	-	-
1772	MANSAKRA 132	33KV FANWANI	49.00	4.00	FUNCTIONAL	-	-
1773	MANSAKRA 132	33KV URO BOND	48.80	2.00	FUNCTIONAL	-	-
1774	BARHI 132	33KV KUWA	49.20	2.00	FUNCTIONAL	-	-
1775	BARHI 132	33KV BARHI	49.20	7.00	FUNCTIONAL	-	-
1776	BARHI 132	33KV GERTALAI	49.20	2.00	FUNCTIONAL	-	-
1777	BARHI 132	33KV PIPARIYA	49.20	12.00	FUNCTIONAL	-	-
1778	DHEEMARKHEDA 132	33KV DASHARMAN	49.20	9.10	FUNCTIONAL	-	-
1779	SHAHDOL 220	33KV JASINGHNAGAR	48.80	2.34	FUNCTIONAL	-	-
1780	SHAHDOL 220	33KV SHAHDOL	48.80	7.49	FUNCTIONAL	-	-
1781	SHAHDOL 220	33KV UMARIYA NO. I	48.80	3.46	FUNCTIONAL	-	-
1782	ANUPPUR 220	33KV ANUPPUR	48.80	4.45	FUNCTIONAL	-	-
1783	ANUPPUR 220	33KV CHACHAI	48.80	2.64	FUNCTIONAL	-	-
1784	ANUPPUR 220	33KV KESHWAHLI	48.80	3.87	FUNCTIONAL	-	-
1785	ANUPPUR 220	33KV SHAHDOL-II	48.80	10.52	FUNCTIONAL	-	-
1786	BIRSINGHPUR 220	33KV PALI TOWN	48.80	4.28	FUNCTIONAL	-	-
1787	BIRSINGHPUR 220	33KV SGTP COLONY	49.40	1.00	FUNCTIONAL	-	-
1788	UMARIYA 132	33KV CHANDIA-I	48.80	7.60	FUNCTIONAL	-	-
1789	UMARIYA 132	33KV MANPUR-I	48.80	12.60	FUNCTIONAL	-	-
1790	KOTMA 132	33KV KOTMA NEW	48.80	5.18	FUNCTIONAL	-	-
1791	DINDORI 132	33KV SAHPURA	48.80	9.10	FUNCTIONAL	-	-
1792	DINDORI 132	33KV DINDORI	48.80	6.00	FUNCTIONAL	-	-
1793	BEOHARI 132	33KV BEOHARI	49.40	5.50	FUNCTIONAL	-	-
1794	BEOHARI 132	33KV JAISINGH NAGAR	49.40	9.80	FUNCTIONAL	-	-
1795	GORAKHPUR 132	33KV GORAKHPUR	48.80	5.94	FUNCTIONAL	-	-
1796	PANDHURNA 220	33KV LINGA	49.40	7.14	FUNCTIONAL	-	-
1797	PANDHURNA 220	33KV PANDHURNA	49.40	4.54	FUNCTIONAL	-	-
1798	PANDHURNA 220	33KV RAJNA	49.40	4.39	FUNCTIONAL	-	-
1799	PANDHURNA 220	33KV BADCHICHLI	49.40	3.06	FUNCTIONAL	-	-
1800	PANDHURNA 220	33KV TEEGAON	49.40	4.93	FUNCTIONAL	-	-
1801	PANDHURNA 220	33KV JUNEWANI	49.40	3.28	FUNCTIONAL	-	-
1802	PANDHURNA 220	33KV NANDANWADI	49.40	6.20	FUNCTIONAL	-	-
1803	PANDHURNA 220	33KV SWEN PLASTIC	49.40	3.94	FUNCTIONAL	-	-
1804	CHHINDWARA 220	33KV PINDRA	49.40	12.60	FUNCTIONAL	-	-
1805	CHHINDWARA 220	33KV SONAKHAR	48.80	9.00	FUNCTIONAL	-	-
1806	CHHINDWARA 220	33KV ROHANA	49.40	8.50	FUNCTIONAL	-	-
1807	CHHINDWARA 220	33KV CHAND I	49.40	12.70	FUNCTIONAL	-	-
1808	CHHINDWARA 220	33KV CHAND II	49.40	10.00	FUNCTIONAL	-	-
1809	CHHINDWARA 220	33KV SIDHIVINAIK	49.40	10.10	FUNCTIONAL	-	-

1810	CHHINDWARA 220	33KV BANGAON	49.40	13.00	FUNCTIONAL	-	-
1811	CHHINDWARA 220	33KV KUNDALIKALA	49.40	1.00	FUNCTIONAL	-	-
1812	CHHINDWARA 220	33KV BHAIASHADAND	49.40	9.30	FUNCTIONAL	-	-
1813	CHOURAI 132	33KV CHOURAI	49.40	8.10	FUNCTIONAL	-	-
1814	CHOURAI 132	33KV PANJARA II	49.40	10.60	FUNCTIONAL	-	-
1815	CHOURAI 132	33KV KUNDA	49.40	9.60	FUNCTIONAL	-	-
1816	CHOURAI 132	33KV PANJRA II	49.40	7.20	FUNCTIONAL	-	-
1817	CHOURAI 132	33KV SANKH	49.40	6.10	FUNCTIONAL	-	-
1818	CHOURAI 132	33KV SAMASWARA	49.40	6.10	FUNCTIONAL	-	-
1819	CHOURAI 132	33KV JAMJUNIYA	49.40	3.20	FUNCTIONAL	-	-
1820	KHAPASWAMI 132	33KV NAVERGAON	49.40	6.89	FUNCTIONAL	-	-
1821	KHAPASWAMI 132	33KV JUNNARDEO	49.40	3.92	FUNCTIONAL	-	-
1822	KHAPASWAMI 132	33KV UMRETH	49.40	3.32	FUNCTIONAL	-	-
1823	KHAPASWAMI 132	33KV CHANDAMETA	49.40	7.57	FUNCTIONAL	-	-
1824	KHAPASWAMI 132	33KV PAGARA	49.40	3.41	FUNCTIONAL	-	-
1825	UMRETH 132	33KV KANHARGAON	49.40	2.49	FUNCTIONAL	-	-
1826	UMRETH 132	33KV UMRETH	49.40	2.70	FUNCTIONAL	-	-
1827	UMRETH 132	33KV GAJANDOH	49.40	2.40	FUNCTIONAL	-	-
1828	UMRETH 132	33KV KHRSADOH	49.40	6.60	FUNCTIONAL	-	-
1829	CHHINDWARA 132	33KV CHHINDWARA I	48.80	11.70	FUNCTIONAL	-	-
1830	CHHINDWARA 132	33KV CHHINDWARA II	48.80	12.60	FUNCTIONAL	-	-
1831	CHHINDWARA 132	33KV SONAKHAR	48.80	19.30	FUNCTIONAL	-	-
1832	CHHINDWARA 132	33KV BANGAON	49.40	9.60	FUNCTIONAL	-	-
1833	CHHINDWARA 132	33KV AMARAWARA	49.40	16.30	FUNCTIONAL	-	-
1834	CHHINDWARA 132	33KV SAUSAR	49.40	14.30	FUNCTIONAL	-	-
1835	CHHINDWARA 132	33KV UMRANALA I	49.40	10.90	FUNCTIONAL	-	-
1836	CHHINDWARA 132	33KV UMRANALA II	49.40	13.30	FUNCTIONAL	-	-
1837	CHHINDWARA 132	33KVS AORI I	49.40	16.30	FUNCTIONAL	-	-
1838	CHHINDWARA 132	33KVS AORI II	49.40	0.60	FUNCTIONAL	-	-
1839	AMARWARA 132	33KV GHOGRI	49.40	9.80	FUNCTIONAL	-	-
1840	AMARWARA 132	33KV HARRAI	49.40	9.60	FUNCTIONAL	-	-
1841	AMARWARA 132	33KV SURLAKHAPA	49.40	7.10	FUNCTIONAL	-	-
1842	AMARWARA 132	33KV CHHUI	49.40	7.80	FUNCTIONAL	-	-
1843	AMARWARA 132	33KV SINGOD	49.40	10.80	FUNCTIONAL	-	-
1844	AMARWARA 132	33KV AMARAWARA	49.40	4.70	FUNCTIONAL	-	-
1845	SAORI 132	33KV SAORI	49.40	8.90	FUNCTIONAL	-	-
1846	SAORI 132	33KV LAWAGHOGARI	49.40	10.00	FUNCTIONAL	-	-
1847	SAORI 132	33KV MUJAWAR	49.40	7.80	FUNCTIONAL	-	-
1848	SAORI 132	33KV BHUTAI	49.40	9.20	FUNCTIONAL	-	-
1849	BORGAO 132	33KV SAUSAR	49.40	7.50	FUNCTIONAL	-	-
1850	BORGAO 132	33KV PIPLA	49.40	7.05	FUNCTIONAL	-	-
1851	BORGAO 132	33KV BICHHUA	49.20	11.50	FUNCTIONAL	-	-
1852	BORGAO 132	33KV KHAMRA	49.40	5.00	FUNCTIONAL	-	-
1853	BORGAO 132	33KV KHAMARPANI	49.40	6.00	FUNCTIONAL	-	-
1854	BORGAO 132	33KV SAGR	49.40	8.20	FUNCTIONAL	-	-
1855	NARSINGHPUR 220	33KV SINGHPU	49.40	4.70	FUNCTIONAL	-	-
1856	NARSINGHPUR 220	33KV NIWARI	49.40	3.60	FUNCTIONAL	-	-
1857	NARSINGHPUR 220	33KV DEONAGAR	49.40	6.30	FUNCTIONAL	-	-
1858	CHICHU 220	33KV CHICHLI	49.40	5.90	FUNCTIONAL	-	-
1859	CHICHU 220	33KV TENDUKHEDA	49.40	7.50	FUNCTIONAL	-	-
1860	CHICHU 220	33KV RAYPUR	49.40	6.30	FUNCTIONAL	-	-
1861	KIRNPUR 400	33KV HATTA	49.20	5.70	FUNCTIONAL	-	-
1862	KIRNPUR 400	33KV KIRNAPUR	49.20	5.10	FUNCTIONAL	-	-
1863	KIRNPUR 400	33KV MATTE	49.20	1.15	FUNCTIONAL	-	-
1864	KIRNPUR 400	33KV RAJEGAON	49.20	6.40	FUNCTIONAL	-	-
1865	SEONI 220	33KV KMUNGWANI	49.20	1.50	FUNCTIONAL	-	-
1866	SEONI 220	33KV CHHAPARA	49.20	2.50	FUNCTIONAL	-	-
1867	SEONI 220	33KV KARIRAT	49.20	1.50	FUNCTIONAL	-	-
1868	SEONI 220	33KV KALARBAKI	49.20	2.00	FUNCTIONAL	-	-
1869	SEONI 220	33KV GOPALGANJ	49.20	2.50	FUNCTIONAL	-	-
1870	SEONI 132	33KV KARIRAT	49.20	3.10	FUNCTIONAL	-	-
1871	SEONI 132	33KV CHOURAI	49.20	2.47	FUNCTIONAL	-	-
1872	SEONI 132	33KV KEOLARI	49.20	5.78	FUNCTIONAL	-	-
1873	SEONI 132	33KV BARGHAT	49.20	6.70	FUNCTIONAL	-	-
1874	SEONI 132	33KV ARI	49.20	5.44	FUNCTIONAL	-	-
1875	SEONI 132	33KV KURAI	49.20	6.40	FUNCTIONAL	-	-
1876	BALAGHAT 132	33KV RAJEGAON	49.20	7.80	FUNCTIONAL	-	-
1877	BALAGHAT 132	33KV LALBARA	49.20	4.00	FUNCTIONAL	-	-
1878	BALAGHAT 132	33KV LANJU	49.20	10.00	FUNCTIONAL	-	-
1879	BALAGHAT 132	33KV WARASEONI	49.20	3.00	FUNCTIONAL	-	-
1880	BALAGHAT 132	33KV KHAIRLANJI	49.20	6.00	FUNCTIONAL	-	-
1881	KATANGI 132	33KV TIRODI	49.20	7.00	FUNCTIONAL	-	-
1882	KATANGI 132	33KV WARASEONI	49.20	5.70	FUNCTIONAL	-	-
1883	KATANGI 132	33KV KATANGI	49.20	3.40	FUNCTIONAL	-	-
1884	KATANGI 132	33KV ARI	49.20	4.30	FUNCTIONAL	-	-
1885	KATANGI 132	33KV KATEDHARA	49.20	6.40	FUNCTIONAL	-	-
1886	BENEGAON 132	33KV LANJU	49.20	7.20	FUNCTIONAL	-	-
1887	BENEGAON 132	33KV KIRNAPUR	49.20	1.20	FUNCTIONAL	-	-
1888	BENEGAON 132	33KV BHANEGAON	49.20	5.50	FUNCTIONAL	-	-
1889	BENEGAON 132	33KV KARANJA	49.20	3.10	FUNCTIONAL	-	-
1890	BAIHAR 132	33KV BAIHAR	49.20	3.70	FUNCTIONAL	-	-
1891	BAIHAR 132	33KV PARASWADA	49.20	3.40	FUNCTIONAL	-	-
1892	BAIHAR 132	33KV MOHGAON	49.20	8.10	FUNCTIONAL	-	-
1893	NAINPUR 132	33KV NAINPUR	49.20	0.50	FUNCTIONAL	-	-
1894	NAINPUR 132	33KV PINDRALI	49.20	1.50	FUNCTIONAL	-	-
1895	NAINPUR 132	33KV KANHARGAON	49.20	1.00	FUNCTIONAL	-	-
1896	NAINPUR 132	33KV CHRAIDONGRI	49.20	2.50	FUNCTIONAL	-	-
1897	LAKHNADON 132	33KV GHANSOUR	49.20	1.42	FUNCTIONAL	-	-
1898	LAKHNADON 132	33KV GHANSOUR-II	49.20	1.88	FUNCTIONAL	-	-
1899	LAKHNADON 132	33KV DHOOMA	49.20	2.50	FUNCTIONAL	-	-
1900	LAKHNADON 132	33KV LAKHNADON	49.20	2.20	FUNCTIONAL	-	-
1901	LAKHNADON 132	33KV ADEGAON	49.20	3.08	FUNCTIONAL	-	-
1902	LAKHNADON 132	33KV DHANORA	49.20	2.20	FUNCTIONAL	-	-
1903	LALBURRA 132	33KV LALBRRRA	49.20	6.10	FUNCTIONAL	-	-
1904	LALBURRA 132	33KV LAMTA	49.20	6.10	FUNCTIONAL	-	-
1905	LALBURRA 132	33KV NEVERGAON	49.20	3.01	FUNCTIONAL	-	-
1906	WARASEONI 132	33KV KHAIRLANJI	49.20	3.80	FUNCTIONAL	-	-
1907	WARASEONI 132	33KV KOCHEWALI	49.20	4.10	FUNCTIONAL	-	-
1908	WARASEONI 132	33KV WARASEONI	49.20	4.20	FUNCTIONAL	-	-
1909	WARASEONI 132	33KV DONGARMALI	49.20	6.40	FUNCTIONAL	-	-
1910	UJJAIN 220	33KV GHATIYA	49.40	2.00	FUNCTIONAL	-	-
1911	UJJAIN 220	33KV GARHKALIKA-I	48.80	6.00	FUNCTIONAL	-	-
1912	UJJAIN 220	33KV GARHKALIKA-II	48.80	10.00	FUNCTIONAL	-	-
1913	UJJAIN 220	33KV VIJAYGANJ MANDI	49.40	10.00	FUNCTIONAL	-	-
1914	UJJAIN 220	33KV NARWAR	49.40	8.00	FUNCTIONAL	-	-
1915	UJJAIN 220	33KV KSHIPRA VIHAR	48.80	7.00	FUNCTIONAL	-	-
1916	UJJAIN 220	33KV INTERCONNECTOR-II	48.80	7.00	FUNCTIONAL	-	-

1917	UJJAIN 220	33KV RES	49.40	9.00	FUNCTIONAL	-	-
1918	UJJAIN 220	33KV LO.C.L.	48.80	1.00	FUNCTIONAL	-	-
1919	UJJAIN 220	33KV KAITHA	49.40	7.00	FUNCTIONAL	-	-
1920	UJJAIN 220	33KV MAHASWETA NAGAR -I	48.80	9.00	FUNCTIONAL	-	-
1921	UJJAIN 220	33KV INTERCONNECTOR-I	48.80	6.00	FUNCTIONAL	-	-
1922	UJJAIN 220	33KV MAHESWETA NAGAR -II	48.80	9.00	FUNCTIONAL	-	-
1923	UJJAIN 220	33KV JETHAL	49.40	6.00	FUNCTIONAL	-	-
1924	UJJAIN 132	33KV WATER WORKS	48.80	9.00	FUNCTIONAL	-	-
1925	UJJAIN 132	33KV SIMHASTHA	48.80	4.00	FUNCTIONAL	-	-
1926	UJJAIN 132	33KV MAXI ROAD	48.80	3.00	FUNCTIONAL	-	-
1927	UJJAIN 132	33KV VIKRAM KIRTI MANDIR	48.80	7.00	FUNCTIONAL	-	-
1928	UJJAIN 132	33KV INT./CONN. I	48.80	3.00	FUNCTIONAL	-	-
1929	UJJAIN 132	33KV INT./CONN. II	48.80	10.00	FUNCTIONAL	-	-
1930	UJJAIN 132	33KV KHEDAPATI	48.80	9.00	FUNCTIONAL	-	-
1931	UJJAIN 132	33KV JYOTI NAGAR- I	48.80	4.00	FUNCTIONAL	-	-
1932	UJJAIN 132	33KV JYOTI NAGAR- II	48.80	3.00	FUNCTIONAL	-	-
1933	UJJAIN 132	33KV MUKHYALAY	48.80	1.00	FUNCTIONAL	-	-
1934	UJJAIN 132	33KV BARNAGAR	49.40	1.00	FUNCTIONAL	-	-
1935	AGAR 132	33KV AGAR	48.80	3.00	FUNCTIONAL	-	-
1936	AGAR 132	33KV KANAD	49.40	12.00	FUNCTIONAL	-	-
1937	AGAR 132	33KV NALKHEDA	49.40	2.00	FUNCTIONAL	-	-
1938	AGAR 132	33KV NIPNYA BAJNATH	48.80	5.00	FUNCTIONAL	-	-
1939	AGAR 132	33KV MADKOTA	49.40	7.00	FUNCTIONAL	-	-
1940	AGAR 132	33KV TANODIYA	49.40	12.00	FUNCTIONAL	-	-
1941	AGAR 132	33KV JHARDA	49.40	7.00	FUNCTIONAL	-	-
1942	AGAR 132	33KV AGAR TOWN	48.80	4.00	FUNCTIONAL	-	-
1943	AGAR 132	33KV MOYA KHEDA	49.40	12.00	FUNCTIONAL	-	-
1944	SUSNER 132	33KV SUSNER	49.40	9.00	FUNCTIONAL	-	-
1945	SUSNER 132	33KV NALKHEDA	49.40	3.00	FUNCTIONAL	-	-
1946	SUSNER 132	33KV AMLA	49.40	5.00	FUNCTIONAL	-	-
1947	SUSNER 132	33KV SOYAT	49.40	7.00	FUNCTIONAL	-	-
1948	SUSNER 132	33KV MODI	49.40	11.00	FUNCTIONAL	-	-
1949	SUSNER 132	33KV SOYAT-II	49.40	12.00	FUNCTIONAL	-	-
1950	RATIDYA 132	33KV PAN BIHAR	49.40	1.00	FUNCTIONAL	-	-
1951	RATIDYA 132	33KV DATTA AKHADA-I	48.80	6.00	FUNCTIONAL	-	-
1952	RATIDYA 132	33KV DATTA AKHADA-II	48.80	5.00	FUNCTIONAL	-	-
1953	RATIDYA 132	33KV CHANDU KHEDI	48.80	9.00	FUNCTIONAL	-	-
1954	RATIDYA 132	33KV RATDIYA	48.80	3.00	FUNCTIONAL	-	-
1955	RATIDYA 132	33KV CHAKRAWADA	48.80	8.00	FUNCTIONAL	-	-
1956	RATIDYA 132	33KV CHINTAMAN GANESH	48.80	9.00	FUNCTIONAL	-	-
1957	RATIDYA 132	33KV TRIVANIBIHAR	48.80	8.00	FUNCTIONAL	-	-
1958	RATIDYA 132	33KV DATTA AKHADA-III	48.80	6.00	FUNCTIONAL	-	-
1959	RATIDYA 132	33KV KARTIK MELA I	48.80	7.00	FUNCTIONAL	-	-
1960	RATIDYA 132	33KV KARTIK MELA -II	48.80	8.00	FUNCTIONAL	-	-
1961	RATIDYA 132	33KV VALLABH NAGAR	48.80	7.00	FUNCTIONAL	-	-
1962	RATIDYA 132	33KV AMBODIYA	48.80	5.00	FUNCTIONAL	-	-
1963	GHONSLA 132	33KV JAGOTTI	49.40	12.00	FUNCTIONAL	-	-
1964	GHONSLA 132	33KV GHONSLA	49.40	10.00	FUNCTIONAL	-	-
1965	GHONSLA 132	33KV GHATIYA	49.40	8.00	FUNCTIONAL	-	-
1966	GHONSLA 132	33KV BICHHOD	49.40	10.00	FUNCTIONAL	-	-
1967	GHONSLA 132	33KV NAVODAY	48.80	3.00	FUNCTIONAL	-	-
1968	GHONSLA 132	33KV KHEDA KHAJURIYA	49.40	12.00	FUNCTIONAL	-	-
1969	GHONSLA 132	33KV DHABLA GORI	49.40	4.00	FUNCTIONAL	-	-
1970	BAROD 220	33KV BAROD	49.40	9.00	FUNCTIONAL	-	-
1971	BAROD 220	33KV BAPCHA	49.40	7.00	FUNCTIONAL	-	-
1972	BAROD 220	33KV 33KV MADKOTA	49.40	9.00	FUNCTIONAL	-	-
1973	BAROD 220	33KV GURADIYA	49.40	6.00	FUNCTIONAL	-	-
1974	BHERUGARH 132	33KV PAN BIHAR	49.40	6.00	FUNCTIONAL	-	-
1975	BHERUGARH 132	33KV GARHKALIKA	48.80	10.00	FUNCTIONAL	-	-
1976	BHERUGARH 132	33KV KAMED	49.40	11.00	FUNCTIONAL	-	-
1977	BHERUGARH 132	33KV RAM GARH	49.40	7.00	FUNCTIONAL	-	-
1978	BHERUGARH 132	33KV JETHAL	48.80	8.00	FUNCTIONAL	-	-
1979	BHERUGARH 132	33KV SIDHBHATT	48.80	3.00	FUNCTIONAL	-	-
1980	BHERUGARH 132	33KV AMOBIDIYA	48.80	5.00	FUNCTIONAL	-	-
1981	NALKHEDA 132	33KV KACHNARIYA	49.40	12.00	FUNCTIONAL	-	-
1982	NALKHEDA 132	33KV LASULDIYA	49.40	6.00	FUNCTIONAL	-	-
1983	NALKHEDA 132	33KV NALKHEDA	49.40	9.00	FUNCTIONAL	-	-
1984	NALKHEDA 132	33KV DHAROLA	49.40	7.00	FUNCTIONAL	-	-
1985	AGROD 132	33KV AGROD	49.40	8.00	FUNCTIONAL	-	-
1986	AGROD 132	33KV LOHANA	49.40	5.70	FUNCTIONAL	-	-
1987	AGROD 132	33KV VIJAYAGANJ MANDI	49.40	7.40	FUNCTIONAL	-	-
1988	AGROD 132	33KV MADHOPUR	49.40	6.50	FUNCTIONAL	-	-
1989	TARANA 132	33KV TARANA-T	49.20	8.90	FUNCTIONAL	-	-
1990	TARANA 132	33KV KAITHA	49.20	16.90	FUNCTIONAL	-	-
1991	TARANA 132	33KV KHPARPA	49.20	13.90	FUNCTIONAL	-	-
1992	TARANA 132	33KV TARANA-R	49.20	11.90	FUNCTIONAL	-	-
1993	TARANA 132	33KV RUPAKHEDI	49.20	8.60	FUNCTIONAL	-	-
1994	VIKRAM UDHYOGPUR 132	33KV NEW MADHOPUR	49.20	12.40	FUNCTIONAL	-	-
1995	MAKDON 132	33KV MAKDON	49.20	16.70	FUNCTIONAL	-	-
1996	MAKDON 132	33KV NANDED	49.20	5.50	FUNCTIONAL	-	-
1997	MAKDON 132	33KV RAMDI	49.20	3.50	FUNCTIONAL	-	-
1998	MAKDON 132	33KV RUPAKHEDI	49.20	15.20	FUNCTIONAL	-	-
1999	MAKDON 132	33KV GATA	49.20	3.20	FUNCTIONAL	-	-
2000	DEWAS 220	33KV MAA CHAMUNDA	48.80	4.10	FUNCTIONAL	-	-
2001	DEWAS 220	33KV BALGARKH	48.80	5.10	FUNCTIONAL	-	-
2002	DEWAS 220	33KV BHOPAL ROAD	48.80	1.80	FUNCTIONAL	-	-
2003	DEWAS 220	33KV DEWAS VIKAS PRADHIKARAN	48.80	1.60	FUNCTIONAL	-	-
2004	CHAPDA 220	33KV CHAPDA	49.40	3.00	FUNCTIONAL	-	-
2005	CHAPDA 220	33KV BAGLI	49.40	3.00	FUNCTIONAL	-	-
2006	CHAPDA 220	33KV DEVGARH	49.40	6.00	FUNCTIONAL	-	-
2007	CHAPDA 220	33KV NEORY	49.40	3.00	FUNCTIONAL	-	-
2008	CHAPDA 220	33KV BORKHALIYA	49.40	5.00	FUNCTIONAL	-	-
2009	CHAPDA 220	33KV KAMLAPUR	49.40	7.00	FUNCTIONAL	-	-
2010	CHAPDA 220	33KV DOUBLE CHOUKI	49.40	4.00	FUNCTIONAL	-	-
2011	CHAPDA 220	33KV KARNAWAD	49.40	5.00	FUNCTIONAL	-	-
2012	CHAPDA 220	33KV NHDC	49.40	5.00	FUNCTIONAL	-	-
2013	CHAPDA 220	33KV HATRIPILIYA	49.40	3.00	FUNCTIONAL	-	-
2014	BNP DEWAS 132	33KV DEWAS TOWN	48.80	4.50	FUNCTIONAL	-	-
2015	BNP DEWAS 132	33KV DRP	48.80	2.00	FUNCTIONAL	-	-
2016	BNP DEWAS 132	33KV BHOURASA	48.80	1.00	FUNCTIONAL	-	-
2017	BNP DEWAS 132	33KV TONK KHURD	49.40	7.00	FUNCTIONAL	-	-
2018	MSP DEWAS 132	33KV BERAGARH	49.40	3.50	FUNCTIONAL	-	-
2019	MSP DEWAS 132	33KV SINGAVDA	49.40	3.00	FUNCTIONAL	-	-
2020	MSP DEWAS 132	33KV KSHIPRA	49.00	5.00	FUNCTIONAL	-	-
2021	MSP DEWAS 132	33KV CIVIL LINE	49.00	On	FUNCTIONAL	-	-
2022	MSP DEWAS 132	33KV MENDHKI CHAK	49.00	2.50	FUNCTIONAL	-	-
2023	SHANKARGARH 132	33KV BARKHEDA	49.40	3.50	FUNCTIONAL	-	-

2024	SHANKARGARH 132	33KV KELOD	49.40	2.20	FUNCTIONAL	-	-
2025	SHANKARGARH 132	33KV NAGJHIRI	49.40	2.80	FUNCTIONAL	-	-
2026	MAXI 132	33KV JHOKAR	49.00	2.00	FUNCTIONAL	-	-
2027	MAXI 132	33KV MAXI	49.00	4.00	FUNCTIONAL	-	-
2028	MAXI 132	33KV DEVLI	49.40	3.50	FUNCTIONAL	-	-
2029	MAXI 132	33KV PIPILIYA SADAK	49.40	8.00	FUNCTIONAL	-	-
2030	SONKATCHH 132	33KV SONKATCHH	49.00	2.50	FUNCTIONAL	-	-
2031	SONKATCHH 132	33KV TALOD	49.40	5.00	FUNCTIONAL	-	-
2032	SONKATCHH 132	33KV GANDGARVPURI	49.40	3.50	FUNCTIONAL	-	-
2033	SONKATCHH 132	32KV FAWDA	49.40	3.50	FUNCTIONAL	-	-
2034	SONKATCHH 132	33KV EKLERA MATAJI	49.40	5.50	FUNCTIONAL	-	-
2035	BAROTHA 132	33KV BAROTHA	49.40	3.50	FUNCTIONAL	-	-
2036	BAROTHA 132	33KV SIROLIYA	49.40	4.00	FUNCTIONAL	-	-
2037	BAROTHA 132	33KV NEORI	49.40	7.00	FUNCTIONAL	-	-
2038	BAROTHA 132	33KV SANNOD	49.40	6.00	FUNCTIONAL	-	-
2039	KISANGAD 132	33KV UDAYNAGAR	49.40	2.50	FUNCTIONAL	-	-
2040	KISANGAD 132	33KV RATATALAI	49.40	2.00	FUNCTIONAL	-	-
2041	KISANGAD 132	33KV PUNJAPURA	49.40	2.00	FUNCTIONAL	-	-
2042	KISANGAD 132	33KV PIPRI	49.40	3.00	FUNCTIONAL	-	-
2043	KALAPIPAL 132	33KV NANDNI	49.00	13.98	FUNCTIONAL	-	-
2044	KALAPIPAL 132	33KV KALAPIPAL	49.00	11.58	FUNCTIONAL	-	-
2045	KALAPIPAL 132	33KV GHATTI	49.00	3.52	FUNCTIONAL	-	-
2046	KALAPIPAL 132	33KV LASURIYA GORI	49.00	6.89	FUNCTIONAL	-	-
2047	MOMAN BARODIYA 132	33KV BARODIYA	49.00	8.10	FUNCTIONAL	-	-
2048	MOMAN BARODIYA 132	33KV SADIPURA	49.00	5.30	FUNCTIONAL	-	-
2049	MOMAN BARODIYA 132	33KV MOHNA	49.00	18.10	FUNCTIONAL	-	-
2050	MOMAN BARODIYA 132	33KV MONDODA	49.00	6.70	FUNCTIONAL	-	-
2051	MOMAN BARODIYA 132	33KV NAGZIRI	49.00	4.30	FUNCTIONAL	-	-
2052	SHUJALPUR 132	33KV JAMNER	49.00	9.70	FUNCTIONAL	-	-
2053	SHUJALPUR 132	33KV BERAWAL	49.00	10.90	FUNCTIONAL	-	-
2054	SHUJALPUR 132	33KV TOWN	49.00	7.75	FUNCTIONAL	-	-
2055	SHUJALPUR 132	33KV PIPILIYA	49.00	5.20	FUNCTIONAL	-	-
2056	SHUJALPUR 132	33KV AKODIYA	49.00	11.00	FUNCTIONAL	-	-
2057	SHUJALPUR 132	33KV INDUSTRIAL-I	48.80	2.50	FUNCTIONAL	-	-
2058	PANWADI 132	33KV PANWADI	49.00	11.20	FUNCTIONAL	-	-
2059	PANWADI 132	33KV MADANA	49.00	7.50	FUNCTIONAL	-	-
2060	PANWADI 132	33KV SARANGPUR	49.00	3.40	FUNCTIONAL	-	-
2061	PANWADI 132	33KV NICHMA	49.00	1.60	FUNCTIONAL	-	-
2062	PANWADI 132	33KV SILSSALAI	49.00	1.60	FUNCTIONAL	-	-
2063	BERCHHA 132	33KV SHETKHEDI	49.00	2.00	FUNCTIONAL	-	-
2064	BERCHHA 132	33KV SUDERSHI	49.00	12.20	FUNCTIONAL	-	-
2065	BERCHHA 132	33KV LAHORI	49.00	14.00	FUNCTIONAL	-	-
2066	BERCHHA 132	33KV BERCCHA	49.00	8.65	FUNCTIONAL	-	-
2067	BERCHHA 132	33KV M&B SWITCHGEAR	48.80	31.00	FUNCTIONAL	-	-
2068	SHUJALPUR 220	33KV NANDNI	49.00	6.00	FUNCTIONAL	-	-
2069	SHUJALPUR 220	33KV RAIPUR	49.00	9.00	FUNCTIONAL	-	-
2070	SHUJALPUR 220	33KV HALDAI	49.00	9.00	FUNCTIONAL	-	-
2071	SHUJALPUR 220	33KV JETHDA	49.00	9.00	FUNCTIONAL	-	-
2072	SHUJALPUR 220	33KV SHUJALPUR	49.00	11.00	FUNCTIONAL	-	-
2073	SHAJAPUR 220	33KV COLONY	48.80	3.30	FUNCTIONAL	-	-
2074	SHAJAPUR 220	33KV BERCCHA ROAD	48.80	8.30	FUNCTIONAL	-	-
2075	SHAJAPUR 220	33KV AKIYA CHOUHANI	49.00	3.60	FUNCTIONAL	-	-
2076	SHAJAPUR 132	33KV MULLAKHEDI	49.00	5.30	FUNCTIONAL	-	-
2077	SHAJAPUR 132	33KV HEERPURTEKA	49.00	12.30	FUNCTIONAL	-	-
2078	SHAJAPUR 132	33KV DUPADA	49.00	8.10	FUNCTIONAL	-	-
2079	SHAJAPUR 132	33KV SANKERPURE	49.00	4.90	FUNCTIONAL	-	-
2080	SHAJAPUR 132	33KV KANASIYA	49.00	17.00	FUNCTIONAL	-	-
2081	SHAJAPUR 132	33KV LALGHATI SHAJAPUR	48.80	3.20	FUNCTIONAL	-	-
2082	SHAJAPUR 132	33KV MURADPURA	48.80	8.90	FUNCTIONAL	-	-

## SUMMARY OF PROPOSAL

### For Official Use - To be filled by the Nodal Agency of PSDF

Project Proposal Number : \_\_\_\_\_ Date of Receipt : \_\_\_\_\_

### To be filled by the Applicant Organization / Utility

1. Name of the requesting Organization / Utility :	State Load Despatch Centre, Madhya Pradesh Power Transmission Co. Ltd. (MPPTCL)
2. Short Summary of Project / Scheme / Activity	
a. Name of the Project / Scheme / Activity :	Detailed Project Report for implementation of Jabalpur Islanding Scheme.
b. Objective of the Project / Scheme / Activity :	The purpose of this project is that in case of any instability in the grid, major loads of Jabalpur City could be fed through 210 MW Amarkantak TPS by creating the island and the power flow will be retained for the critical loads which are identified at different substations. The island may also facilitate start up supply during total blackout in remaining system.
c. Authorized Person For this Project / Scheme / Activity	Name : Mr. S. S.Patel, Chief Engineer (SLDC) E-mail ID: <a href="mailto:ce.sldc@mptransco.nic.in">ce.sldc@mptransco.nic.in</a> , <a href="mailto:sspatel_2261@yahoo.com">sspatel_2261@yahoo.com</a>  Land line No : 0761-2702740, 2938806 Mobile No. : 9425805270 Fax No : 0761-2970119
d. Nature of the Project / Scheme / Activity: Inter – State / Intra – State	Intra – State
e. Identified Beneficiaries	Madhya Pradesh State Important Grid users, defence establishments, hospitals, STU, SLDC, Genco for restoration of State Grid and Distribution Companies, shall be beneficiaries of the project.
f. Merits of the scheme	<p>The proposed scheme is having following advantage:-</p> <ul style="list-style-type: none"> <li>(i) Isolate a part of Jabalpur Area which is rich with defence establishment from the Grid during major grid disturbance to form the island.</li> <li>(ii) Continue to supply the power in the island and maintain load generation balance in the island by monitoring and control of the island based on PMU based monitoring and control system</li> <li>(iii) Avoid tripping of generator in the island during major system disturbance</li> <li>(iv) Quick restoration of remaining system by</li> </ul>

	facilitating start-up supply during black out in the remaining system.
	(V) PMU based islanding scheme shall provide faster communication of data through PMU, flexibility for incorporating any kind of analytics in controller unit and expandability to accommodate future islanding schemes.
g. limitations, if any	No limitation envisaged.
h. Time frame for Implementation	The scheme shall be implemented in two years after approval.
i. Estimated Cost of Project / Scheme / Activity	Rs. 6.00 Crore
j. Category under which the project is classified	As per guidelines issued by MoP, GoI on dated 18.09.2014 read with POSOCO letter dated NLDC-PSDF/18 <sup>th</sup> MoCO/2022-23 dated 17-08-2022, this project for implementation of Jabalpur Islanding scheme eligible for 90% grant through PSDF.

**S.S. Patel**  
Chief Engineer (SLDC)  
MPPTCL, Jabalpur

## DETAILED PROPOSAL (DP)

### **1. Details of the Requesting Organization / Entity**

#### **1.1 Details of Organization / Entity**

Name of Organization / Entity	Madhya Pradesh Power Transmission Co. Ltd. (MPPTCL)
Acronym or Abbreviation (if applicable)	MPPTCL

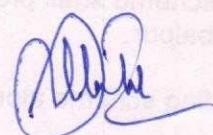
#### **1.2 Details of Head of the Organization**

Name (Mr / Ms / Mrs)	Mr. S.S.Patel
Designation	Chief Engineer (SLDC)
E-mail Address	<a href="mailto:ce.sldc@mptransco.nic.in">ce.sldc@mptransco.nic.in</a> , <a href="mailto:sspatel_2261@yahoo.com">sspatel_2261@yahoo.com</a>
Landline No.	0761-2702740, 2938806
Fax No.	0761-2970119
Address	State Load Despatch Centre, Madhya Pradesh Power Transmission Company Ltd, Nayagaon, Rampur, Jabalpur 482008.
City	Jabalpur
Postal Code	482008

#### **1.3 Details of Project Incharge / Project Manager (Authorized Person) for this project/ scheme/ activity**

**(Not below the rank of Dy. General Manager / Superintending Engineer)**

Name (Mr / Ms / Mrs)	Mr. R.K.Gupta
Designation	S.E.(Operation), SLDC, MPPTCL
E-mail Address	<a href="mailto:rkgupta@mptransco.nic.in">rkgupta@mptransco.nic.in</a> , <a href="mailto:rajeshgupta@yahoo.co.in">rajeshgupta@yahoo.co.in</a>
Landline No.	07612702744,
Mobile No.	9425805182
Fax No.	0761-2970119
Address	State Load Despatch Centre, Madhya Pradesh Power Transmission Company Ltd, Nayagaon, Rampur, Jabalpur 482008
City	Jabalpur
Postal Code	482008



**S. S. Patel**  
**Chief Engineer (SLDC)**  
**MPPTCL, Jabalpur**

## **2. Justification of the Proposal**

The necessity of Islanding Scheme is provided in the Clause-10 of Central Electricity Authority (Grid Standards) regulations, 2010, which is reproduced hereunder:-

*"Islanding Schemes:- (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance.*

*(2) The Entities shall ensure proper implementation of the Schemes referred to in sub-regulation (1).*

*Explanation- For the purpose of this regulation, 'Islanding Scheme' means a scheme for the separation of the Grid into two or more independent systems as a last resort, with a view to save healthy portion of the Grid at the time of grid disturbance".*

As such, the islanding scheme are required to be implemented for survival of some predefined generation and supply of loads at the time of Grid disturbance to avoid total blackout. The Islanding Scheme shall also be useful for restoration of failed grid. Primarily the Islanding schemes are designed to ensure supply to the area having strategic importance such as major cities having loads of VIP areas, Defence, Space, Airport, Metro ports, Hospitals, important industries.

Accordingly, the Islanding Schemes for Jabalpur having defence establishments, Bhopal the State Capital, Indore the Industrial City and Gwalior having defence and industrial load were prepared and discussed at WRPC Forum. Finally, the Islanding Scheme for Jabalpur was found to be feasible.

Initially, the architecture of Jabalpur Islanding Scheme was prepared on the basis of available telemetry infrastructure at Jabalpur 220 KV S/s, Gorabazar 220KV S/s and Amarkantak Thermal Power Station and only a small quantum of hardware i.e. U/F relay and control cables were required. This proposed Scheme did not require much expenditure and hence proposal for PSDF grant was not submitted earlier. However, while reviewing the Jabalpur islanding scheme by WRPC, it was advised to review the scheme for incorporating SCADA visibility and suitable control system for frequency , generation and load.

Accordingly, the matter was discussed with agencies known to have expertise in Power System controls namely M/s Solvina, M/s Tata Power, M/s Siemens Ltd and M/s GE Energy India Ltd, and Islanding scheme based on Installation on Phasor Measurement Units (PMU) at Jabalpur 220 KV S/s, Gorabazar 220KV S/s, Amarkantak Thermal Power Station and Controller unit at SLDC, Jabalpur is found appropriate. The PMU based islanding scheme shall provide faster communication of data through PMU and control from SLDC, Jabalpur.

The islanding scheme along with proposed architecture is enclosed herewith as annexure-I.

## **2.1 Analysis of the Objective**

The Jabalpur islanding scheme is prepared in pursuance with Clause-10 of Central Electricity Authority (Grid Standards) regulations, 2010 and as per Standard Operating Procedure for islanding scheme issued by CEA. The scheme is developed using latest State of the Art technology and faster communication capabilities. The Scheme shall have independent Data Acquisition and Remote Control facility having provisions for future expandability to incorporate Islanding Scheme for other cities.

The Objective of Jabalpur Islanding scheme are as follows:-

1. Monitoring of frequency, power flow on feeders at 220KV Jabalpur S/s , 220KV Gorabazar Sub-Station, 132KV VFJ S/s, 132 KV Vinova Bhave Sub-Stations and generation at Amarkantak Thermal Power Station.
2. Continuous monitoring of pre-defined grid disturbance conditions using the data at Centralized Control Unit at SLDC and generating control signal for sub-stations and power stations.
3. Isolate a part of Jabalpur area which is rich with defence establishment from the Grid during major grid disturbance and Amarkantak Thermal Power Station to feed this islanded area.
4. Continue to supply the power in the island and maintain load generation balance in the island by monitoring and control of the island based on PMU based monitoring and control system.
5. Avoid tripping of generator in the island during major system disturbance.
6. Quick restoration of remaining system by facilitating start-up supply during black out in the remaining system.

## **2.2 Identified Beneficiaries of the Project**

Madhya Pradesh State Important Grid users, defence establishments, hospitals, STU, SLDC, Genco for restoration of State Grid and Distribution Companies, shall be beneficiaries of the project.

## **2.3 Identified Source of Funding**

It is proposed to implement the project through 90% grant from PSDF and balance 10% from internal resources. The project is eligible for 90% grant from PSDF as per POSOCO letter dated NLDC-PSDF/18<sup>th</sup> MoCO/2022-23 dated 17-08-2022.

<b>Sl. No.</b>	<b>Particulars</b>	<b>Amount (in Rs. Crore)</b>
1	Grant from PSDF (90%)	Rs. 5.40 Crore
2	SLDC, MPPTCL Share (10%)	Rs. 0.6 Crore
	<b>Total Project Cost</b>	<b>Rs. 6.00 Crore</b>

#### **2.4 Details of Activities for Project / Scheme / Activity**

After getting approval of the project through PSDF funding, the following activities will be undertaken:

- Preparation of technical specification of various equipment's considered in the PMU based Jabalpur islanding system.
- Issuance of NIT.
- Tendering activities – Issue of Tenders for procurement, supply installation and commissioning of PMU based Jabalpur islanding system.
- Evaluation of Tender and Award of Contract for "supply installation and commissioning of PMU based Jabalpur islanding system".
- Engineering of the Project and Drawing and other specifications approvals.
- Site Survey for installation of PMU at field locations and Centralized Control Unit at SLDC.
- Factory Acceptance Test.
- Arrangement of shutdown for installation & commissioning of various equipment's under scheme.
- Site Acceptance Testing of complete scheme.
- Time to time inspection of the project by NLDC/CEA representatives.
- Taking over of the project.
- AMC for five years.

## **2.5 Executing Agency**

Shall be finalised based on open tender

## **2.6 Time line for Implementation of Project / Scheme / Activity**

The Project shall be implemented in TWO years during 2022-23 & 2023-24

<b>Timeline of the Project / Scheme / Activity</b>	
Likely Duration of Project (in Months)	24 Months
Start Date	01.01.2023
Likely Completion Date	31.12.2024



**S.S. Patel**  
Chief Engineer (SLDC)  
MPPTCL, Jabalpur

Sl. No.	Description	Year	Timeline of Activities												From 01.01.2024 to 31.12.2024										
			From 01.01.2023 to 31.12.2023																						
1	Project Approval																								
2	Bid Preparation	2																							
3	Bidding Period	2																							
4	Evaluation, Contract Award and Mobilization	3																							
5	First Disbursement	6																							
6	Project Status Report	3																							
7	Second Disbursement																								
8	Project Status Report																								
9	Third Disbursement																								
10	Project Status Report																								

S.S. Patel  
Chief Engineer (SLDC)  
MPPTCL, Jabalpur

## Summary of Detailed Project Report (DPR)

Summary of DPR given - Yes	Copy of the DPR attached. – Yes
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### **Abstract of Cost for implementation of Jabalpur Islanding Scheme**

S.No.	Item	Amount in Rs.
1.	Total Cost Estimate	Rs 6.00 Cr capital cost
2.	Funding Proposed from PSDF	5.4 crores
3.	Contribution from Internal Sources	0.60 crores
4.	External Borrowings	nil

Sl.No.	Particulars	Total Quantity (In Nos.)	Amount (In Rs. Crore)
1	Implementation of Jabalpur Islanding Scheme	01	6.00
	<b>Total Cost</b>		<b>6.00</b>

### **Implementation Schedule / Milestones**

#### Target for physical milestones

Particular	Total Qty (Nos.)	Qtr-1	Qtr-2	Qtr-3	Qtr-4	Qtr-5	Qtr-6
		Jan-Mar 2023	Apr-June 2023	Jul-Sep 2023	Oct-Dec 2023	Jan-Mar 2024	Apr-June 2024
Implementation of Jabalpur islanding Scheme	LS	00	08 PMUS	08 PMUs	CC equipments+ 5 PMUs	Integration and commissioning	-



**S.S. Patel**  
**Chief Engineer (SLDC)**  
**MPPTCL, Jabalpur**

### Target for Financial milestones (Rs. Crore)

Description of amount required	Total Cost (Rs. Crore)	Quarter-1	Quarter-2	Quarter-3	Quarter-4	Quarter-5	Quarter-6
		Jan-Mar 2023	Apr-June 2023	Jul-Sep 2023	Oct-Dec 2023	Jan-Mar 2024	Apr-June 2024
6.00 Crores	6.00	0	0	1	2	2	1

### Financial Implication of the Scheme

#### 1. Summary

Sl. No.	Item	Amount (In Rs. Crore)
1.	Total Estimated Cost of the Project	Rs. 6.00 Crore
2.	Funding Proposed from PSDF (90%)	Rs. 5.40 Crore
3.	Contribution from Internal Sources (10%)	Rs. 0.60 Crore
4.	External Borrowings	NIL

#### 2. Details

##### 2.1 Cost Estimate

The detailed cost estimate for implementing the project work covered under the report is prepared based on the current market rates. Based on that calculation of cost for installation of various equipment is enclosed as "Annexure-II".

#### 3. Funding

##### 3.1 Funding Proposed from PSDF as grant

The estimated cost of 90 % i.e. Rs. 5.40 crores expenditure is proposed to be funded from PSDF as a grant.

##### 3.2 Contribution from Internal Sources

The estimated cost of 10 % i.e. Rs. 0.60 crores expenditure is proposed to be funded from internal resources i.e. Capex fund of SLDC.

##### 3.3 External Borrowings

Nil

**S.S. Patel**  
Chief Engineer (SLDC)  
MPPTCL, Jabalpur



मध्य प्रदेश MADHYA PRADESH

BG 948737

9452  
30/9/22

UNDERTAKING

I S.S. Patel Son of Late Shri K.S.Patel resident of Quarter No. NBD-01, MPSEB Colony, Nayagaon, Jabalpur -482008(M.P.) and presently working as Chief Engineer (SLDC) in the M.P. Power Transmission Company Limited (MPPTCL) hereby undertake to comply with the following terms and conditions with regard to funding of the Detailed Project Report for Implementation of Jabalpur islanding Scheme with disbursement from PSDF:

- No tariff shall be claimed for the portion of the scheme funded from PSDF
- Amount of grant shall be refunded in case of transfer/disposal of the facility being created under this proposal to any other scheme for funding.
- Shall specifically mention if for the scheme under the proposal, the grant from any other agency is being taken / proposed to be taken.
- The grant shall be refunded back to PSDF in case of non-utilisation of the grant within one year of release of installment.

Attested

Date 30 SEP 2022

Signature:  
Name :Er. S.S. Patel

Attested

Uttam Chand Gupta  
30/09/22

Notary  
Jabalpur District  
M.P. INDIA

Notarial Register II  
Sr. No. 2452 Dt. 30/09/22

2716  
2819122

S.S. Patel Son of Late Shri K.S.Patel resident of Quarter No. NBD-01, MPSEB Colony, Nayagaon, Jabalpur

आलोक शुप्ता  
स्टाम्प विक्रेता  
मदबा महल वार्ड, जबलपुर  
कोड नं. 0062



**ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED**

SABURO

Minutes of 83rd MP OCCM

## DETAILED PROJECT REPORT ON JABALPUR ISLANDING SCHEME

The Jabalpur islanding scheme is prepared in pursuance with Clause-10 of Central Electricity Authority (Grid Standards) regulations, 2010 and as per Standard Operating Procedure for islanding scheme issued by CEA. The scheme is developed using latest State of the Art technology and faster communication capabilities. The Scheme shall have independent Data Acquisition and Remote Control facility having provisions for future expandability to incorporate Islanding Scheme for other cities.

The proposed Jabalpur Islanding Schemes would ensure early restoration of the grid/system on one hand and on the other hand, the Jabalpur cities would survive and keep feeding the important loads during the blackouts. Jabalpur Islanding scheme is proposed to isolate Jabalpur City Load from rest of the grid at Islanding frequency of 48 Hz and 210 MW ATPS generation will feed the entire load of Jabalpur City. Jabalpur is one of the major cities of MP as a major part of defense load is connected with 220 KV Jabalpur/Gorabazar. It is proposed that during the sinking system the major loads of Jabalpur could be fed through Amarkantak TPS by creating the island. In the islanding scheme 33 KV loads of 220 KV S/s Jabalpur, 132 KV S/s VFJ, 132 KV S/s Vinoba Bhave & 220 KV S/s Gorabazar is proposed to be fed through the Amarkantak TPS Generation of 210MW.

The details of Bus bar arrangement at Jabalpur and Amarkantak Thermal Power Station is detailed hereunder:-

- 220 KV S/s Jabalpur consists of Double Main Transfer Bus Scheme at 220 KV and Single Main Transfer Bus Scheme at 132 KV.
- 220 KV S/s Jabalpur it connected with 220 KV S/s Sukha through 2 no. 220 KV circuits, with 220 KV S/s Narsinghpur through 2 no. 220 KV circuits, with 220 KV S/s Birsinghpur through 2 no. 220 KV circuits, with 220 KV S/s Gorabazar through 1 no. 220 KV circuits, with 220 KV ATPS through 1 no. 220 KV circuits and consists of 4 no. 220/132 KV X'mers.
- 220 KV S/s Jabalpur is connected through 132 KV S/s Tejgarh, Shahpura, Madhotal, Panagar, Maneri, VFJ & Vinoba bhave, Bargi HPS , Bargi S/s 132 KV Circuits through 1 no. 132 KV circuits.
- 132 KV Bus Section breaker is also available at 220 KV S/s Jabalpur.

The 220 KV feeder arrangement at 220 KV S/s Jabalpur is as follows:-

<b>220 KV MAIN BUS - 1</b>	<b>220 KV MAIN BUS – 2</b>
220 KV JABALPUR – SUKHA CKT - 1	220 KV JABALPUR – SUKHA CKT - 2
220 KV JABALPUR – BIRISINGHPUR CKT - 1	220 KV JABALPUR – BIRISINGHPUR CKT - 2
220 KV JABALPUR – NARSINGHPUR CKT – 1	220 KV JABALPUR – AMARKANTAK CKT
220 KV JABALPUR – NARSINGHPUR CKT - 2	220 KV JABALPUR – GORABAZAR CKT
220/132 160 MVA (GEC) X'MER - 1	220/132 160 MVA (BBL) X'MER - 3
220/132 120 MVA (MTSB) X'MER - 2	220/132 160 MVA (BHEL) X'MER - 4

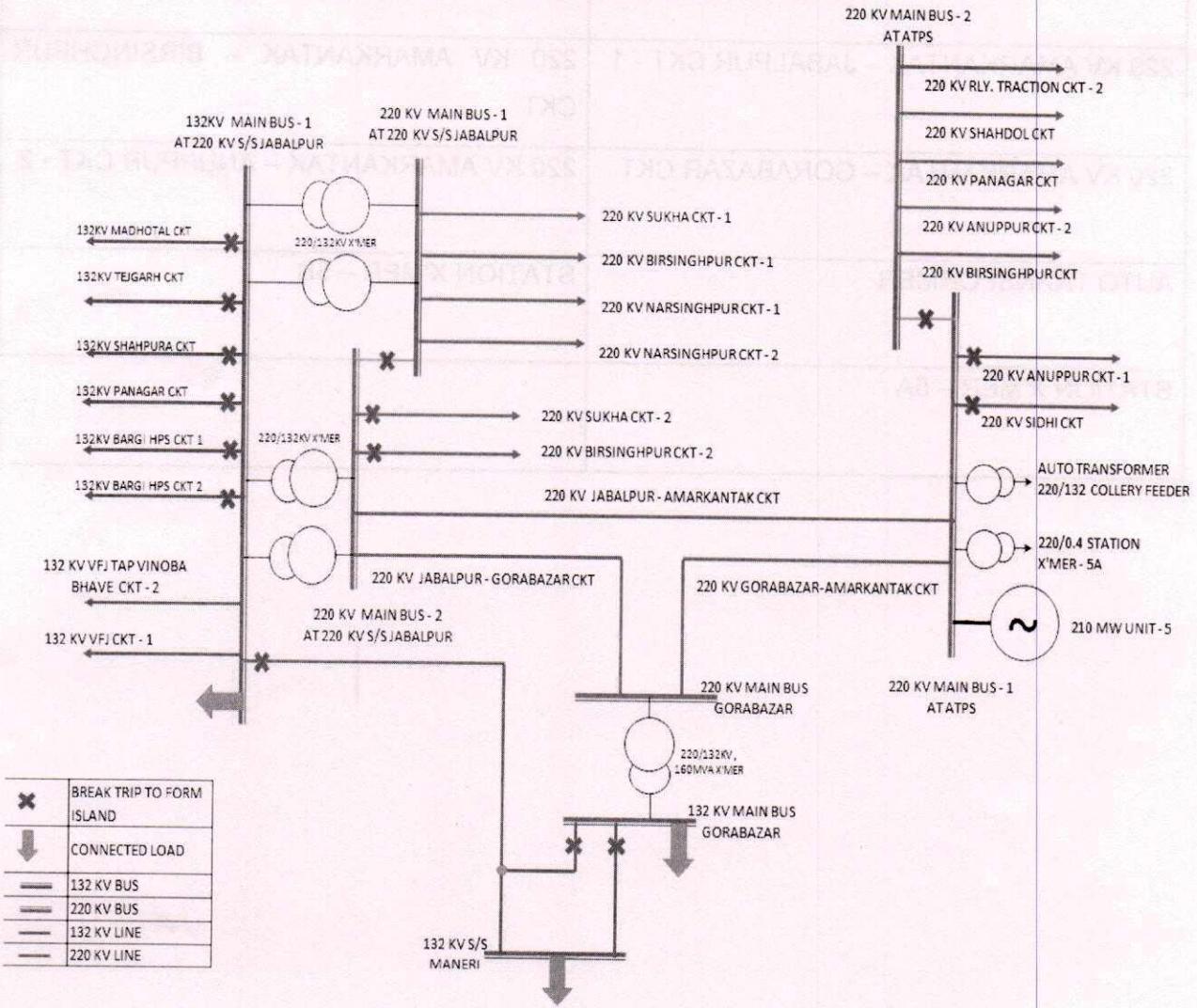
#### ARRANGEMENT AT 220 KV AMARKANTAK TPS:-

220 KV Amarkantak is a coal based Thermal Power Plant with the installed capacity of 210MW. Double Main transfer bus scheme exists at ATPS with 600/1 Amp Bus Coupler CT & the feeder arrangement is as detailed below :-

<b>220 KV MAIN BUS - 1</b>	<b>220 KV MAIN BUS – 2</b>
Unit No # 5 ( 210 MW )	220 KV AMARKANTAK – RLY. TRACTION CKT - 2

220 KV AMARKANTAK – ANUPPUR CKT - 1	220 KV AMARKANTAK – SHAHDOL CKT
220 KV AMARKANTAK – SIDHI CKT - 1	220 KV AMARKANTAK – PANAGAR CKT
220 KV AMARKANTAK – JABALPUR CKT - 1	220 KV AMARKANTAK – BIRISINGHPUR CKT
220 KV AMARKANTAK – GORABAZAR CKT	220 KV AMARKANTAK – ANUPPUR CKT - 2
AUTO TRANSFORMER	STATION X'MER – 5B
STATION X'MER – 5A	

## SINGLE LINE DIAGRAM OF ISLANDING SCHEME OF JABALPUR AREA



It may be seen that at Jabalpur s/s 220kv Bus no II and at Amarkatank PH Bus no I shall be utilized for forming islanding scheme. Following shall be features of islanding scheme:-

- Islanding scheme shall be initiated below 48.0Hz using Under Frequency Relay (UFR).
  - At Jabalpur s/s , after initiation of formation of islanding scheme, 220 kv Sukha ckt no 2, 220kv Birsingpur ckt no 2 and bus tie shall trip from Bus no II . It is mentioned here that there is only one 132 kv Bus at 220 KV Jabalpur with sectionalizing breaker.

- In islanding scheme, at Jabalpur on 132 KV Bus, breaker of 2 no 160 MVA Transformer, 132 KV VFJ Ckt no I and II shall on bar , other ckt shall be tripped. Load of 132 KV Maneri shall be disconnected through Islanding Scheme.
- At Amarkantak PH after initiation of formation of islanding scheme, 220kv Sidhi , 220 KV Annupur circuit 1 and Bus tie shall be tripped as shown in diagram.
- The above arrangement shall facilitate uninterrupted supply arrangement to important load of Jabalpur including defense load during total blackout.
- The Ex-Bus Generation of Unit#5 of ATPS is 191MW and under and over frequency setting of Unit#5 is 47.4 & 54.2 Hz respectively along with time delay of 2 Sec in each and RGMO of Unit #5 is in service with gradient of +/- 2 MW per minute.
- The over voltage settings on 220KV Jabalpur- Amarkantak and 220KV Amarkantak-Gora Bazaar circuit with time discrimination will be implemented so that Amarkantak- 220KV Gora Bazar circuit shall trip first.
- The above arrangement shall facilitate uninterrupted supply arrangement to important load of Jabalpur including defense load during the total blackout.
- After formation of Island, the load generation balance in the island is required to be maintained for which the breaker status, the flow on the isolation point feeders (being EHV feeders) is required at SLDC Control room screen on 24x7 Hrs. To facilitate this, a system is required which would continuously monitor the Embedded Generation (in MW), the sum of flows at isolation point (in MW) of Island and the quantum of load (in MW) in the Island to be shed if such Island situation arises. For successful Islanding, an automatic load supervision and control in the Island at distribution level (33/22/11 kV) is essential. By using PMUS based SCADA, the load in the Island could be shed through automatic control action. Even Priority wise load shedding as per critical/non critical criteria could also be identified in Island and enabled through PMUS based system with fast response

Avni bix da Gto resaend and VV S/S no jugedst. is ameros ghatwali m  
et here hik karo. tsd ne hikka II bns i on 33KV LRV VV S/S no jwadewal  
gatwali. It's sot betwennoset od hikka hikka VV S/S to bsc. begon  
gatwali.

<b>Prioritywise Tripping of 33KV feeder in various substation to obtained desired load relief.</b>			
	Name of s/s	Name of feeder	Load (MW)
<b>Tripping Priority- I (Rural/ un important Rural/City area City area)</b>			
		J-1	17
		J-2	17.9
		J-6	14.3
		J-7	8.8
	220 KV S/S Jabalpur	Rampur-1	11.6
		Rampur-2	11.5
		Ukhari-1	12.8
		Ukhari-2	15.6
	132 KV s/s Vinova Bhave	Bhan Talaiya	12.6
	132 KV VFJ	33KV Sihora	10.1
		33KV Gokalpur	15.6

		<b>33KV Adhartal</b>	<b>19</b>
<b>Gora Bazar</b>		<b>33KV GB-3</b>	<b>9.2</b>
		<b>33KV GB-5</b>	<b>11.5</b>
<b>A</b>		<b>Total relief</b>	<b>187.5</b>

	<b>Industrial area</b>		
		<b>33KV NTPC-1</b>	<b>1</b>
		<b>33KV NTPC-2</b>	<b>12.1</b>
	<b>220 KV Jabalpur</b>	<b>33KV IT Park</b>	<b>1</b>
	<b>132 KV VFJ</b>	<b>33KV Richhai</b>	<b>10.9</b>
	<b>132KV Vinova Bhave</b>	<b>33KV Ghanta Ghar</b>	<b>11.2</b>
	<b>B</b>	<b>Load Relief</b>	<b>36.2</b>
<b>Priority-III (VIP area)</b>	<b>VIP area</b>		

<b>Priority-IV (Defence load)</b>	<b>220 KV Jabalpur</b>	<b>Complex-1</b>	<b>4.1</b>	
	<b>220 KV Jabalpur</b>	<b>Complex-2</b>	<b>10.2</b>	
	<b>33KV Vinova Bhave</b>	<b>Vinova Bhave</b>	<b>6.9</b>	
	<b>Vinova Bhave</b>	<b>Load Relief</b>	<b>21.2</b>	
	<b>Defence load</b>			
		<b>33KV GCF</b>	<b>11.4</b>	
		<b>33KV OFK</b>	<b>4.7</b>	
		<b>5 MVA X-mer1</b>	<b>2.3</b>	
	<b>132 KV VFJ</b>	<b>5 MVA X-mer1</b>	<b>2.4</b>	
	<b>Vinova Bhave</b>	<b>33KV Satpula</b>	<b>7.4</b>	
<b>Gora Bazar</b>	<b>33KV Ridge Town</b>	<b>Ridge Town</b>	<b>8.4</b>	
	<b>33KV HR Town</b>	<b>HR Town</b>	<b>11.9</b>	
	<b>Total Load</b>		<b>48.5</b>	

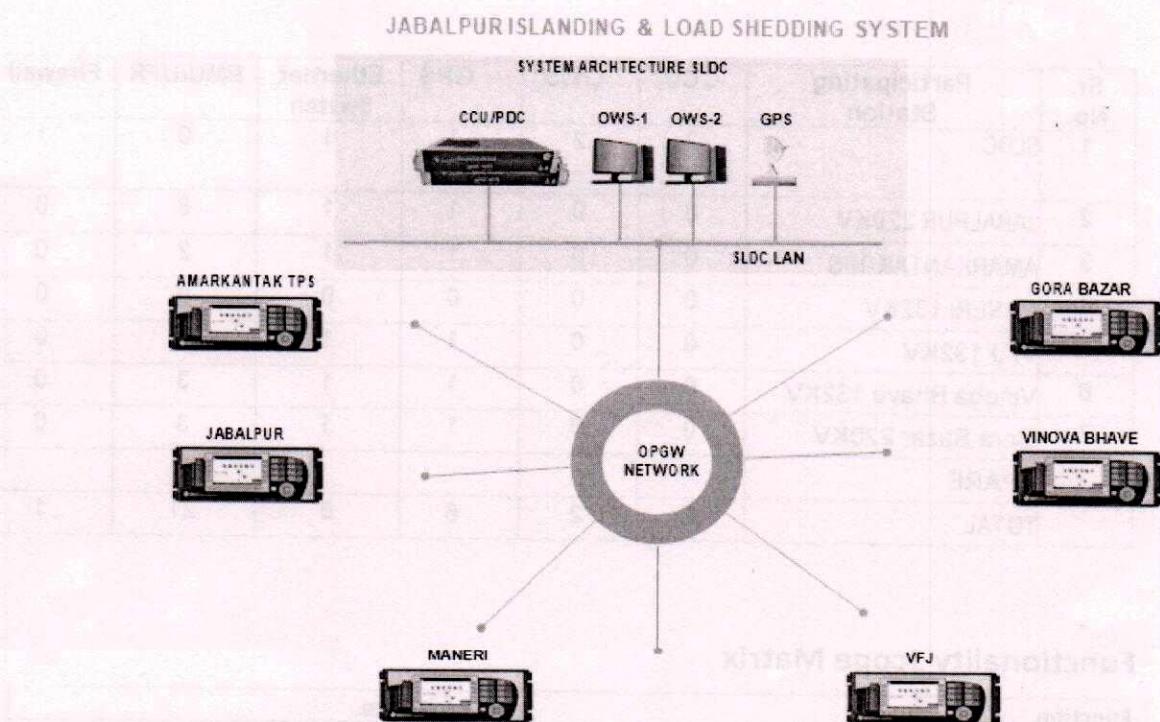
There are three stages during islanding: separation, survival and resynchronisation. The isolation of the identified Island will be achieved with operation of UFRs on other lines required to be disconnected at the boundary of control area. However, this separation should involve 02 out of 03 logic i.e. provision of 03 UFRs at a location to confirm separation logic from the grid with minimum 02 UFRs successful operation to ensure robustness (Alternately, one out of two logic could also be implemented). The survival

after isolation requires dynamic control of load to meet the available generation in the Island. For achieving this, smooth load control by using PMUs based SCADA load monitoring (upto 33KV level also) & control is proposed to be implemented. In islanding scheme a very minor difference in load generation variation would cause huge change in frequency, hence smooth control is required. Accordingly, PMUs based system having high data acquisition rate is proposed.

Accordingly, a PMU based system as detailed below is proposed.

### **Proposed System Architecture**

As per the requirement of the Islanding & Load Shedding System, the following System Architecture is proposed :-



As shown in the system architecture, an islanding central controller unit (CCU) and OWS system will be provided in redundant mode at the SLDC level to execute the islanding and loadshedding logics from the central level.

An islanding panel with PMU, and Ethernet Switch will be installed at different substations/generating stations which will be participating in the scheme and all these participating stations will be integrated with the gateway system at SLDC

of loadshedding logic will be sent to load shedding primary equipment installed at each generating station. Subsequent to receiving the load shedding & load level VOICE circuit generation logic will be issued by the PMU. These parameters will be exchanged between the participating stations through the communication network.

The PMUs will be exchanging the islanding & loadshedding I/O datapoints with the CCU installed at the SLDC through IEEE C37.118 Protocol.

Using the data collected from the load shedding I/Os and combination of the advanced automation applications in CCU, the CCU will send the control commands to the PMU installed at the participating stations to achieve the desired islanding and load shedding function.

### **Bill of Material**

Sr. No.	Participating Station	CCU	OWS	GPS	Ethernet Switch	PMU/UFR	Firewall
1	SLDC	2	2	1	1	0	1
2	JABALPUR 220KV	0	0	1	1	8	0
3	AMARKANTAK TPS	0	0	1	1	2	0
4	MANERI 132KV	0	0	0	0	0	0
5	VFJ 132KV	0	0	1	1	3	0
6	Vinoba Bhave 132KV	0	0	1	1	3	0
7	Gora Bazar 220KV	0	0	1	1	3	0
	SPARE					2	
	TOTAL	2	2	6	6	21	1

### **Functionality Scope Matrix**

Function	Device
Collection of the real time generation and frequency data at all stages	PMU/UFR
Islanding & Load shedding logics and Trip control command through the PMU	CCU at SLDC
Group setting commands to PMU	CCU at SLDC
Generation ramp-up and down based on frequency conditions	Generation Management System at each generating station
Communication Network connecting all participating stations	Existing OPGW/FO based network with necessary communication equipment (SDH, FOTE)

This scheme will utilise the fiber optical Network of MPPTCL which is under implementation under reliable communication Plan. Further, All necessary measures to ensure cyber security of Sub Station, Power Station as well as well as Control Centre equipment shall be taken. The PMUs based scheme is proposed in view of fast response time of PMUs as well as its capability to implement logical functions, Further this



**S.S. Patel**  
Chief Engineer (SLDC)  
MPPTCL, Jabalpur



**MADHYA PRADESH POWER TRANSMISSION COMPANY LIMITED  
STATE LOAD DESPATCH CENTRE, Nayagaon, Rampur, Jabalpur**

Telephone: (0761) 2970601 Fax: (0761) 2664343/2970119 e-mail [sldcmpjbp@gmail.com](mailto:sldcmpjbp@gmail.com)



ISO 9001:2015

No. 07-05/RPC-35A-1/ *1604*

Jabalpur,dtd:18.08.22

To,

**The Chief Engineer (T&C),  
MPPTCL,Jabalpur**

**The Chief Engineer(P&D),  
MPPTCL, Jabalpur**

**Sub: Minutes of meeting regarding finalization of ATC/TTC for Rabi Season 2022 held at SLDC on dtd.17.08.2**

...

A meeting regarding finalisation of Available Transfer Capability (ATC) & Total Transfer Capability(TTC) for Madhya Pradesh for Rabi Season 2022 and to discuss measures for mitigating the constraints observed in the study was held at SLDC on 17.08.22 in which participants from MPPTCL (T&C, P&D) & SLDC attended the meeting. The minutes of the meeting is enclosed herewith, for information & necessary action in the matter please.

Encl:- As above

Chief Engineer  
SLDC, MPPTCL, Jabalpur

### **Minutes of meeting**

1. In the meeting, SLDC informed that a simulation study has been conducted by MP SLDC for meeting the demand of approx 17000MW during ensuing Rabi Season. For Meeting the demand of about 17000MW, the total internal generation has been considered as 5863 MW and around 11000 MW shall be required to be drawn through regional grid. The ATC/TTC calculated by MP SLDC is about 11331 MW / 11671 MW respectively and the most credible contingency noticed is at 400/220KV ICT at 400 KV Julwania & 400 KV Satna PGCIL. A note has also been sent vide No.189 dtd. 18.07.22.
2. SLDC informed that the simulation study has been conducted after considering the new elements planned to be commissioned upto December 2022, the plan as received from STU/ P&D. WRLDC has provided the approval for ATC subjected to availability of all the future elements considered in the study. In the matter, T&C was requested to provide the current status to which T&C informed that all the future elements mentioned in the list (enclosed as Annexure-A) shall be commissioned by Dec-22.
3. SLDC MP informed that commissioning of 220 KV Rewa-RUMS Ckt 1&2 on load & 160 MVA Xmer-2 at 220 KV Kukshi prior to Rabi season is extremely crucial looking into the heavy loadings in that area. T&C confirmed that these elements shall be commissioned before Rabi Season.
4. SLDC informed that load-trimming scheme (LTS) is required to be implemented at following locations:-
  - (i) 400/220 KV ICTs of Julwania:- It was agreed by the participants that 132 KV Pati & 132 KV Anjad feeders at 400 KV Julwania shall be considered for the load trimming scheme. Further the 33 KV feeders of 220 KV Julwania identified for LTS at 220 KV Julwania shall also be extended for LTS of 400/220 KV ICTs at 400 KV Julwania.
  - (ii) 500 MVA ICT-3 at Satna PGCIL:- SLDC informed that LTS has been implemented for 400/220 KV ICT-1 & 2 only and remains pending for ICT-3 due to want of control cable to supplied from MPPTCL to PGCIL. T&C informed that the control cables shall be provided to Satna PGCIL at the earliest. Functioning of LTS for ICT-1 & ICT-2 at Satna PG is also required to be ensured.
  - (iii) 220/132 KV ICTs at 220 KV Rajgarh MP:- T&C informed that LTS logic and its operation shall be confirmed & intimated to SLDC.
  - (iv) 220/132 KV ICTs at 220 KV Kukshi:- T&C informed that the feeders for LTS shall be identified by them & accordingly LTS shall be implemented after commissioning of additional 220/132 KV Xmer.
  - (v) 220/132 KV ICTs at 220 KV Bhopal:- T&C informed that the feeders for LTS shall be identified by them & accordingly LTS shall be implemented.

5. SLDC informed that the existing & proposed load trimming scheme are required to be tested in the month of Sep-22 to ensure the healthiness/ operation of the Load trimming schemes during Rabi Season & the LTS status report may be provided to SLDC. T&C agreed to ensure testing of LTS by Sep-22.

6. SLDC informed that the higher loading is observed on some 132 KV Circuits in the studies & MPPTCL was requested to increase the plug setting to 1.25 for following circuits:-

- a. 132 KV Seoni-Chourai
- b. 132 KV Pithampur(Sec-I)- Pithampur(SecIII) Ckt
- c. 132 KV Damoh-Hatta Ckt
- d. 132 KV Sagar-Bina Ckt
- e. 132 KV Bina-Khurai Ckt
- f. 132 KV Pithampur-Jamli Ckt
- g. 132 KV Bhonra-Raghogarh Ckt
- h. 132 KV Ujjain-Ratadiya Ckt

MPPTCL agreed to implement the same.

SLDC enquired regarding the thermal loading permissible for 132 KV Circuit to which T&C & P&D representatives informed that as during the Rabi season ambient temperature is on lower side, 500 Ampere at 132 KV Circuits could be permitted.

7. SLDC informed that Member Secretary, WPRC in 148<sup>th</sup> PCM held on dtd. 20.04.22 requested all the constituents of Western Region to submit the details of feeder wise expected load relief through AUFLS (for 4 stages of frequency 49.4, 49.2, 49, 48.8 Hz) in a specified format (enclosed as Annexure-B). SLDC again requested MPPTCL to provide the details. MPPTCL agreed to provide the required details at the earliest.

8. SLDC informed that a group has been formed by Forum of Load Despatchers (FOLD), NLDC, for the Disturbance recorder (DR) parameter standardization at national level . The purpose of the group is to compile international practices and standards regarding DR standardization, health monitoring and DR reader application software adopted in different areas and prepare recommendations as per the TOR( Term of Reference). After which a report is to be prepared based on the inputs by different entities.

Following inputs are required for compilation of this report.( Details are also mailed previously)

1. Practices and suggestions as per TOR (Term of Reference).
2. The Questionnaire consists of a generalized analog and digital signal list for DR standardization.
3. Signals configured in DR.

SLDC requested T&C MPPTCL to provide the details. MPPTCL agreed to provide the required details at the earliest.

<b>Ongoing 400kV &amp; 220kV Transmission works required to meet ATC requirement in Rabi Season 2022</b>			Annexure-A
S. No.	Name of Transmission work	Expected CoD	
[A]	<b>Transmission work through TBCB</b>		
(a)	<b>New 400/220kV Substation</b>		
1	Guna 400kV (TBCB)	Aug-22	
(b)	<b>New 400kV Transmission Line</b>		
1	Bina (MP) - Guna 400 DCDS (Quad Moose) line	Aug-22	
(c)	<b>New 220kV EHV S/s</b>		
1	Bhind 220kV (TBCB)	Aug-22	
(d)	<b>New 220kV Transmission Line</b>		
1	Guna (TBCB) - Guna DCDS line (under TBCB)	Aug-22	
2	Guna (TBCB) - Shivpuri DCDS line (under TBCB)	Aug-22	
3	Morena (Adani)- Bhind DCDS line (under TBCB)	Aug-22	
[B]	<b>Transmission work through MPPTCL</b>		
(a)	<b>New 400kV Transmission Line</b>		
1	LILO of one circuit of Khandwa-Rajgarh 400kV line at Chhegaon	Sept-22 (98%)	
2	Ashta 400kV - Ujjain 400kV DCDS line	Commissioned	
(b)	<b>Additional 400/220kV Transformer by CTU</b>		
1	Morena (Adani) 400kV Substation – (500 MVA, 3 <sup>rd</sup> )	Commissioned	
2	Shujalpur (PGCIL) 400kV Substation – (500 MVA, 3 <sup>rd</sup> )	Oct-22	
(c)	<b>Additional 400/220kV Transformer by MPPTCL</b>		
1	Ashta 400kV Substation – (315 MVA, 3 <sup>rd</sup> )	Aug-22	
2	Kirnapur 400kV Substation – (100 MVA, 3 <sup>rd</sup> )	Dec-22	
(d)	<b>New 220kV Transmission Line</b>		
1	Extension of LILO portion of Indore (400) - Indore (Jetpura) line up to Indore (PGCIL) S/s.	Commissioned	
2	LILO of 220kV Bina – Ganjbasoda line at Bina 400kV S/s	Aug -22 (99%)	
3	Rewa (RUMS) – Rewa DCDS line	Commissioned	
5	LILO of one circuit of Nagda - Daloda line at Nagda 220kV S/s	Commissioned	
6	LILO of 220kV Bhopal - Ashta line at Bairagarh S/s	Sep-22	
(e)	<b>Additional 220/132kV Transformer</b>		
1	Katni 400kV Substation (160 MVA, 3 <sup>rd</sup> )	Commissioned	
2	Barwaha 220kV Substation (160 MVA, 3 <sup>rd</sup> )	Sep-22	
3	Chhegaon 400kV Substation (160 MVA, 4 <sup>th</sup> )	Sep-22	
4	Guna 220kV Substation (160 MVA, 3 <sup>rd</sup> )	Oct-22	
5	Seoni 220kV Substation (200 MVA, 3 <sup>rd</sup> )	Sep-22	
6	Kukshi 220kV Substation (160 MVA, 2nd)	Nov-22	
(f)	<b>Augmentation of 220/132kV Transformers</b>		
1	Rewa 220kV Substation ( 160 MVA with 200 MVA )	Aug-22	
2	Chhegaon 400kV Substation ( 160 MVA with 200 MVA )	Aug-22	
3	Bhopal 220kV Substation ( 160 MVA with 200 MVA )	Aug-22	
4	Bina 220kV Substation ( 3x40 MVA with 160 MVA )	Aug-22	

## Annexure -B

**DETAILS OF FEEDERWISE EXPECTED LOAD RELIEF THROUGH AUTOMATIC UNDER-FREQUENCY RELAYS BASED LOAD-SHEDDING SCHEME IN DIFFERENT STATES**

REGION 1					
Under-frequency Relay setting : 49.2 Hz.		Load Relief (MW)		Remarks / constraints, if any, in implementation	
S.No.	Particulars of feeder	Peak	Average	URF (functional or Non-functional)	URF functional if not yet functional
	<b>State 1:</b> <small>(maximum load relief from state 1)</small>				
1					
2					
3					
4					
5					
6					
n					
<b>Total load relief (State 1)</b>					
<b>Required load relief from state 1</b>					
	<b>State 2:</b> <small>(maximum load relief from state 2)</small>				
1					
2					
3					
4					
5					
6					
n					
<b>Total (State 2)</b>					
<b>Required load relief from state 2</b>					

Meeting held on 17.08.22 at SLDC to discuss constraints observed in ATC/TTC studies for Rabi Season 2022



## 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



आई एस ओ : 9001-2008

ISO: 9001-2008

No.07-05/RPC-42/1043

Jabalpur, dtd: 23.06.2021

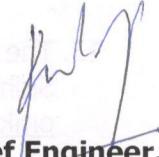
To

### As per Distribution List.

Sub: Detailed Procedure for Planned Outages of Generating Units and Planned / Emergency Outages of Transmission Elements.

As directed by Managing Director, M.P. Power Transmission Co. Ltd., Detailed Procedure for Planned Outages of Generating Units and Planned / Emergency Outages of Transmission Elements of State Transmission network is prepared by SLDC and enclosed with this letter. This Procedure shall be implemented w.e.f. 1<sup>st</sup> July, 2021.

Encl: as above.

  
Chief Engineer,  
SLDC, MPPTCL, Jabalpur.

## **Distribution List**

1. The Executive Director (O&M:Gen.), M.P. Power Generating Co. Ltd., Jabalpur.
2. The Chief Engineer (O&M:Hydel), M.P. Power Generating Co. Ltd., Jabalpur.
3. The Chief Engineer (T&C), M.P. Power Transmission Co. Ltd., Jabalpur.
4. The Chief Engineer (EHT:Maint.), M.P. Power Transmission Co. Ltd., Jabalpur.
5. The Chief Engineer (EHT:Constn.), M.P. Power Transmission Co. Ltd., Jabalpur.
6. The Suptdg. Engineer (GCC), M.P. Power Generating Co. Ltd., Jabalpur.
7. The Shift Incharge, SLDC Control Room, M.P. Power Transmission Co. Ltd., Jabalpur.
8. The Executive Engineer, Sub LDC, M.P. Power Transmission Co. Ltd., Bhopal/Indore.
9. The P.S. to Managing Director, M.P. Power Transmission Co. Ltd., Jabalpur.
10. The P.S. to Director Technical, M.P. Power Transmission Co. Ltd., Jabalpur.
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## **OUTAGE PLANNING PROCEDURE**

### **INTRODUCTION**

This document sets out the procedure for planning of planned / emergency outage on generating units and transmission elements of the State in coordinated and optimal manner keeping in view the State Transmission System in operating conditions and maintaining load generation balance in the Grid.

Particularly it is important that the planned outages of Generators and transmission elements in the important flow-gates shall be properly coordinated as detailed in IEGC clause 5.7 and Section-11 of MPEGC.

The annual outage planning is reviewed on yearly and bi - monthly basis in the OCC forum of MP.

As per Clause-6.1.3 of MPEGC –

No part of the State Transmission System shall be deliberately Isolated from the integrated Grid, except

- (a) Under an emergency and conditions in which such isolation would prevent a total Grid collapse and/or enable early restoration of power supply.
- (b) When serious damage to a costly equipment is imminent and such isolation would prevent it.
- (c) For safety of Human Life.
- (d) When such isolation is specifically advised by SLDC and
- (e) On operation of under frequency/islanding scheme as approved by WRPC/MPERC.

All such isolations shall be either as per standing guidelines approved by WRPC/MPERC or shall be put up in the Grid Code Review Committee for ratification. Complete synchronization of integrated Grid shall be restored as soon as the conditions again permit it. The restoration process shall be supervised by SLDC and no transmission elements shall be synchronized without prior consent and real time code of SLDC / Sub-LDC.

All operational instructions given by RLDC and SLDC shall have unique codes which shall be recorded and maintained as specified in Central Electricity Authority (Grid Standards) Regulations, 2010 and subsequent amendment thereof.

## **2.OBJECTIVE**

- a) To formulate a coordinated outage programme of transmission elements and generating units for the State Grid, considering all the available Regional / State resources and taking into account transmission constraints as well as other requirements.
- b) To minimize surplus or deficit, if any, in the requirement of power and energy and help to operate system within system standards.
- c) To maintain adequate generation and transmission availability after taking into account the outages and to achieve the security standards.

## **3.GENERAL**

- a) Stipulations in this document are applicable to all generating units (thermal, hydel) and transmission elements of MP State grid or as specified in the List of Important Grid Elements of Western Region-2020.
- b) Annual outage plan shall be prepared in advance for the financial year by Generating Companies and Transmission Licensees and submitted to SLDC. This plan shall be submitted to CEA through WRPC for Load Generation Planning.
- c) Annual outage plan shall be finalized in OCC forum of MP.
- d) Transmission Licensees and Generating Companies shall adhere to the proposed Annual outage plan except emergency outages.

## **4. OUTAGE PLANNING PROCESS**

### **4.1 INTER STATE ELEMENTS: -**

**4.1.1** As per standard procedure of WRPC, all proposed outages of interstate 400 / 220 / 132 KV transmission lines emanating from PGCIL sub-stations / NTPC, all the planned shutdown proposed to be availed in next month should be got approved in the OCC forum of WRPC in the current month.

State Grid entities shall intimate in the first week of the current month details of the outages proposed to be availed in the next month for getting approval in OCC forum of WRPC.

State Grid entities shall inform to the SLDC readiness for availing WR OCC approved shutdowns on **D-3** basis i.e. 3 days before the date of approved outage.

Readiness of availing WR OCC forum approved shutdown shall be communicated to WRLDC on the same day by SLDC. Reliability Group of WRLDC shall study for secure operation of the Grid without the proposed outage of transmission element.

After ensuring Grid security in all respects, Reliability Group of WRLDC forwards outage message to the Control Room of WRLDC for issuing code during the real time of operation. If the outage on the proposed transmission element is not possible, WRLDC shall intimate the SLDC in advance with a request to postpone it.

If this procedure is followed strictly by the entity seeking outage on 400 / 220 / 132 KV transmission lines evacuating from PGCIL / NTPC and Inter-state / Inter-regional lines, there shall not be any unusual delay in availing the outage at the designated time.

**4.1.2** WRLDC and WRPC always discourage outages which have not been approved by the OCC forum of WRPC.

If any important / urgent outage is required by the State Grid entity on critical 400 KV lines / transmission lines connecting STU network with network of other agencies, the request of such outage shall be forwarded by the concerned Chief Engineer indicating nature of urgency along with contingency plan to the SLDC.

This proposal has to be forwarded prior to **5** working days of proposed outage to WRLDC through WRPC by the SLDC. Thus such type of outage proposal should be submitted to SLDC prior to **6** working days before the proposed outage date.

**4.1.3** Emergency outage proposal shall be submitted to the SLDC along with the photographs of the location and temperature, if applicable, clearly indicating the nature of emergency. WRLDC does not approve emergency outages without photographs.

**4.1.4** Charging of transmission line after outage which involves modification in tower / augmentation of element-

- (i) Approval of Electrical Inspector under the CEA (Safety & Electric Supply Regulations) is a necessary requirement and it has to be submitted by all entity to WRLDC through SLDC for charging any new or altered installation.
- (ii) Submission of PTCC route approval after any modification in transmission line and charging of new line.
- (iii) Protection settings should be revised in coordination with PGCIL / other agencies.

**4.1.5** 400 KV and 220 KV transmission element which are not included in the important grid elements list of WRLDC for the year 2021, outage on these transmission elements shall be approved by the SLDC in consultation with WRLDC.

The agency seeking outage on these elements shall submit request through Eltrix portal on **D-4** basis so that these outages could be got approved from WRLDC before the proposed date of availing outages. These messages are to be sent to WRLDC on **D-3** basis.

## **4.2 INTRA STATE ELEMENTS: -**

**4.2.1** Outage proposal for Intra-state transmission elements should be submitted on Eltrix Portal of SLDC on **D-3** basis i.e. three working days prior to the proposed date of outage. If due to one or the other reason site officials

are unable to submit application for outage through Eltrix Portal, same can be sent to SLDC on email Id-sldcmpjbp@gmail.com if there is some problem in Eltrix portal.

**4.2.2** In case of supply interruption to Discoms / HT Consumers or non-compliance of N-1 contingency and probability of interruption to consumer supply, consent of Discoms / HT Consumer for outage shall also be submitted to the SLDC along with request for availing outage.

**4.2.3** If generation of any Generating Station including RE Generators is affected, consent of Generator is necessarily submitted to SLDC along with proposal for outage of transmission element.

**4.2.4** SLDC after ensuring reliability of Grid Operation under N-1 contingency, shall convey the approval at 18:00 Hrs. of the day prior to proposed date of outage, on Eltrix Portal. If outage is not approved, reason for not approving it on the proposed date shall also be intimated by the SLDC.

**4.2.5** Long outages shall be proposed after discussions with Reliability Group of SLDC.

**4.2.6** Emergency outage proposal shall be submitted to the SLDC along with the photographs of the location clearly indicating the nature of emergency. Control Room of SLDC shall immediately process the request of emergency outage and try to give permission as early as possible after ensuring Grid security / Load Management, if required. Any other information sought by SLDC shall also be furnished to SLDC by the agency proposing the outage.

**4.2.7** Outage on transmission elements of 132 KV voltage level within the geographical areas of West Discom and Central Discom shall be approved by the Sub LDC Indore and Sub LDC Bhopal, respectively.

- 4.2.8** If any outage of 132 KV transmission element involves the outage of generation, shall be approved by the SLDC Control Room, Jabalpur.
- 4.2.9** If site officials are unable to avail any proposed outage of transmission element, SLDC should be intimated on **D-1** basis so that outage request on other transmission element could be considered.
- 4.2.10** Opportunity shut down can be availed by the other department for carrying out the maintenance work, but agency availing the opportunity shut down shall complete the work within the time period for which original shutdown of transmission element is approved by the SLDC.
- 4.2.11** For rescheduling of outage of transmission element, a fresh / new request shall be made by the entity / agency on **D-3** basis through Eltrix portal.
- 4.2.12** Authorized user can view the status of outage request on online web based Eltrix portal.
- 4.2.13** Respective department / agency should check the status of proposed outage on Eltrix portal before moving the staff, if the outage is at distant location.
- 4.2.14** All efforts shall be made for timely completion of work. Delay, if any in restoration of transmission element, should be intimated to the SLDC / Sub LDC, Control Room immediately along with the reason and likely time of completion of work.
- 4.2.15** Electrical system is very volatile, switching off code shall be issued by SLDC / Sub LDC Control Room as the case may be, after ensuring Grid security during the real time of operation.
- 4.2.16** SLDC / Sub LDC Control Room shall issue the switching code to the MPPTCL, MPPGCL, IPPs and NHDC officials only.

## **5. PROCEDURE FOR INTEGRATION OF NEW NETWORK ELEMENT TO A TRANSMISSION LICENSEE INTO THE GRID AND ISSUANCE OF CERTIFICATE BY REGIONAL LOAD DESPATCH CENTRE FOR SUCCESSFUL TRIAL OPERATION OF A TRANSMISSION ELEMENT.**

The utility seeking approval of WRLDC for integration of new element with Regional Grid is required to upload data in prescribed formats of WRLDC in FTC software i.e. A1, A2, A3, A5, B1, B2, B3, B4, B5, CEA approval, nameplate details, SLD, CEIG approval, PTCC approval etc. generally 10 days prior to the anticipated date of first test charging. After uploading desired data /document by utility, SLDC shall take up the matter with WRLDC for processing the case and all requisite support provided to State agency to complete the FTC formalities.

All the above formalities shall also be submitted by the State agency to SLDC for integration of new transmission element with the State Grid prior to request for integration of new transmission element. Charging code for this shall be issued by the SLDC Control Room.

The authority submitting FTC document should ensure compliance of protection/ metering issue in coordination with T&C officials. It is also desired that all necessary data should be made available to all adjacent S/s for relay coordination well before the date of integration with Regional/State Grid.

## **6. AOH OF GENERATING UNITS-**

**6.1** MPPGCL, NHDC and IPPs shall submit the proposed Annual Overhaul / Capital Overhaul Plan of their Generating Units / Machines for the next financial year in the month of January of previous year.

**6.2** The AOH / COH plan of all generating units shall be discussed and approved in the OCC Meeting of MP.

**6.3** Generating Units / Machines shall be allowed for AOH / COH from the dates approved by the OCC Forum.

**6.4** If there shall be any change in date of taking unit / machine under AOH / COH, the same shall be intimated to the SLDC at least 10 days in advance.

**6.5** Readiness of taking unit / machine under AOH / COH shall be communicated to SLDC **3 days in advance** else permission for taking unit / machine for AOH / COH shall be given 3 days after receipt of communication from the Generating Station.

**6.6** If any Generating Unit is required to be taken under Planned Outage, the intimation in this regard and expected time of synchronization shall be given to the SLDC **7 days in advance**.

6.7 Generating Units / Machines shall be allowed for AOH / COH from the dates approved by the OCC Forum. If there shall be any change in date of taking unit / machine under AOH / COH, the same shall be intimated to SLDC at least 10 days in advance. Readiness of taking unit / machine under AOH / COH shall be communicated to SLDC **3 days in advance** else permission for taking unit / machine for AOH / COH shall be given 3 days after receipt of communication from the Generating Station.

6.8 Generating Units / Machines shall be allowed for AOH / COH from the dates approved by the OCC Forum. If there shall be any change in date of taking unit / machine under AOH / COH, the same shall be intimated to SLDC at least 10 days in advance. Readiness of taking unit / machine under AOH / COH shall be communicated to SLDC **3 days in advance** else permission for taking unit / machine for AOH / COH shall be given 3 days after receipt of communication from the Generating Station.

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6.9 Generating Units / Machines shall be allowed for AOH / COH from the dates approved by the OCC Forum. If there shall be any change in date of taking unit / machine under AOH / COH, the same shall be intimated to SLDC at least 10 days in advance. Readiness of taking unit / machine under AOH / COH shall be communicated to SLDC **3 days in advance** else permission for taking unit / machine for AOH / COH shall be given 3 days after receipt of communication from the Generating Station.

6.10 Generating Units / Machines shall be allowed for AOH / COH from the dates approved by the OCC Forum. If there shall be any change in date of taking unit / machine under AOH / COH, the same shall be intimated to SLDC at least 10 days in advance. Readiness of taking unit / machine under AOH / COH shall be communicated to SLDC **3 days in advance** else permission for taking unit / machine for AOH / COH shall be given 3 days after receipt of communication from the Generating Station.