

## FREQUENCY PARTICULARS

S. No.	Particulars	Apr-16		May-16	
<b>1 INTEGRATED OVER AN-HOUR</b>					
1.1	Maximum Frequency	50.11 Hz	Between 13.00 hrs & 14.00 Hrs on 21.04.16	50.2 Hz	Between 17.00 hrs & 18.00 Hrs on 08.05.16
1.2	Minimum Frequency	49.8 Hz	Between 14.00 hrs & 15.00 Hrs on 26.04.16	49.78 Hz	Between 18.00 hrs & 19.00 Hrs on 14.05.16
1.3	Average Frequency	49.98 Hz		50 Hz	
<b>2 INSTANTANEOUS FREQUENCY</b>					
2.1	Maximum Frequency	50.32 Hz	AT 18.02 HRS ON 01.04.16	50.44 Hz	AT 17.31 HRS ON 18.05.16
2.2	Minimum Frequency	49.64 Hz	AT 12.18 HRS ON 26.04.16	49.56 Hz	AT 22.12. HRS ON 26.05.16

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

	%age of time when frequency was	Apr-16	May-16
3.1	Below 48.5 Hz	0.00	0
3.2	Between 48.50 Hz and 48.8 Hz	0.00	0
3.3	Between 48.80 Hz and 49.2 Hz	0.00	0
3.4	Between 49.20 Hz and 49.5 Hz	0.00	0
3.5	Between 49.50 Hz and 49.7 Hz	0.16	0.14
3.6	Between 49.70 Hz and 49.9 Hz	12.91	6.96
3.7	Between 49.9 Hz and 50.05 Hz	69.94	69.78
3.8	Between 50.05 Hz AND 51.5 Hz	16.98	23.12
3.9	Above 51.5 Hz	0.00	0.00
4	No. of times frquency touched 48.80 Hz	0	0
4.1	No. of times frquency touched 48.60 Hz	0	0
4.2	No. of times frquency touched 51.0 Hz	0	0

ANNEXURE -2.3.4(i)				
M.P. POWER TRANSMISSION COMPANY LIMITED				
TRANSMISSION WORKS COMPLETED DURING 2016-17 (UP TO 31.05.2016)				
<b>I</b>	<b>EHV TRANSMISSION LINES</b>			
<b>S. No.</b>	<b>NAME OF THE TRANSMISSION LINE / (FINANCED BY)</b>	<b>TYPE OF CIRCUITS</b>	<b>DATE OF COMPLETION</b>	<b>DATE OF COMMISSIONING</b>
<b>A.</b>	<b>400 KV TRANSMISSION LINES</b>			
	NIL			
<b>B.</b>	<b>220 KV TRANSMISSION LINES</b>			
1	LILO of 220 KV Katni - Satna line at PGCIL, Satna	220KV	April'16	09.04.2016
<b>C.</b>	<b>132 KV TRANSMISSION LINES</b>			
1	2nd Circuit of 132 Kv Gudgaon - Kukru Wind Power Ltd. Betul (Contributory work)	132Kv	Aprilo'16	07.04.2016
2	LILO of one circuit of Mandideep - Hoshangabad for 132 KV Sub-Station Tamot(2x1.686) (Priority)	132Kv	Aprilo'16	30.04.2016
3	2nd Ckt. Of 132 Kv DCSS Gairatganj- Vidisha line (48.30) ADB-III	132Kv	May'16	10.05.2016
4	132Kv 2phase 2wire S/c line from 132Kv s/s Amla to GSS Bordehi of RVNL(1x23.5) Contrib	132Kv	May'16	06.05.2016
5	132Kv DCSS line from 132Kv S/s Madhotal to 11.5 MW Processing Plant of M/s Essel Jabalpur MSW Pvt.Ltd. at Kathonda Dist- Jabalpur Contrib.	132Kv	May'16	02.05.2016
<b>II.</b>	<b>EHV SUB - STATIONS</b>			
<b>S. No.</b>	<b>NAME OF SUBSTATION / (DISTRICT) / (FINANCED BY)</b>	<b>VOLTAGE RATIO (KV)</b>	<b>DATE OF COMPLETION</b>	<b>DATE OF COMMISSIONING</b>
<b>A.</b>	<b>400 KV SUBSTATIONS</b>			
	Nil			
<b>B.</b>	<b>220 KV SUBSTATIONS</b>			
<b>a.</b>	<b>220 KV NEW SUBSTATIONS</b>			
1	220kv switching S/s at Nagra Dist- Ratlam Contrib.	220	May'16	30.05.2016
<b>C.</b>	<b>132 KV SUBSTATIONS</b>			
<b>a.</b>	<b>132KV NEW SUBSTATIONS</b>			
1	Pratappura 132 KV New S/s (1x40) ADB-III (Dist-Bhind)	132/33KV	April'16	12.04.2016 (fom 33 KV side)
2	Tamot 132kv s/s (Distt. Raisen ) 1x50MVA (Transco)	132/33KV	May'16	05.05.2016

**TRANSMISSION WORKS UNDER PROGRESS (AS ON 31.05.2016)**

**Annexure-2.3.4.ii**

S. No.	NAME OF THE TRANSMISSION LINE	CKT. KMS.	PROGRESS IN %	Target for commissioning
<b>A.</b>	<b>400 KV TRANSMISSION LINES</b>			
1	LILO of both Ckt of 400kv DCDS Nagda - Rajgarh line at 400kv S/S Badnawar (DCDS)(4x6.112)	24.448	3%	2017-18
<b>B.</b>	<b>220 KV TRANSMISSION LINES</b>			
1	LILO of one Ckt of 220kv DCDS Bhopal - Ashta line at 220kv S/S Mugaliya chhap. (DCDS)	52.84	89%	2016-17
2	2nd Ckt of 220kv Satna - Chhatarpur line (152)	160	8%	2016-17
3	Upgradation of 132KV D/C Indore-II (Jaitpura) - Indore(N/Z) line on composite multi circuit monopole & LILO of one Ckt of 220kv Indore-II (Jaitpura) - Indore(400KV) line at 220kv S/S Indore(N/Z) (2x0.5+2x4+4x6.7)	35.8	31%	2018-19
4	LILO of one Ckt of 220kv DCDS Ashta - Dewas line at 220kv S/S Chapda (DCDS) (2x32.782)	66	2%	2017-18
5	220Kv DCDS line from Pithampur-Depalpur line (2X31)	62	36%	2017-18
6	220Kv FCFS line for LILO of both Ckt. Of Badnagar -Ratlam D/C line at 400Kv S/s Badnawar (2x1+4x8)	34	4%	2017-18
7	220Kv DCDS Julwaniya- Kukshi (2X58)	116	14%	2017-18
8	220Kv DCSS Shujalpur- Narsingharh line (1X43.6)	44	13%	2017-18
9	220Kv DCDS line from Gwalior(Malanpur)- Morena (2X29.25)	58.5	13%	2016-17
10	LILO of Indore 400 -Pithampur 220Kv line at Pithampur-II 220Kv S/s in Indore (1x7.38)	7.38	87%	2016-17
11	220Kv DCDS line from 400Kv S/s Bina to plant of M/s Bharat Oman Refineries Ltd. Agasod, Bina (2x18.24)	36.48	67%	
<b>C.</b>	<b>132 KV TRANSMISSION LINES</b>			
1	132kv Birsinghpur -Shahdol DCSS line (1x48)	48	4%	2018-19
2	132kv Ichhawar -Sehore DCSS line (1x35.298)	35.298	16%	2017-18
3	132 kv DCDS Ujjain(220 kv) -Chandrawatiganj line (2x35.42)	70.84	79%	2016-17
4	132 kv DCSS Dewas-Barotha line (1x23)	23	60%	2016-17
5	132 kv DCSS Ghatabillod-Betama line (1x18)	18	29%	2016-17
6	132kv Jeerapur -Susner DCSS line (1x32)	32	71%	2017-18
7	132kv DCSS Gautampur -Depalpur line (1x19)	19	20%	2016-17
8	132kv Nagda(220kv)- Kachrod-Jaora DCSS line (1x64)	64	18%	2016-17
9	132kv DCSS Shujalpur( 220kv) -Pachhore DCSS line (1x35.5)	35.5	48%	2017-18
10	132kv Mugaliya Chaap - Sehore DCSS line (1x24)	24	5%	2016-17
11	132 kv DCSS line between 132Kv S/s Nasrullaganj & 220KV Itarsi s/s(1x53.209)	53.209	33%	2017-18
12	LILO of S/C ckt of 132 KV Seoni-Lakhnadon line at 220kv S/S Seoni (2x20)	40	5%	2017-18
13	132 kv DCSS Line from 220Kv S/s Shivpuri-132Kv Bairad (1x32.859)	32.859	32%	2017-18
14	132 kv DCSS from 220Kv S/s Datiya-132kv S/s Indergarh (1x27.1)	27.1	49%	2017-18
15	2nd ckt of Chhatarput- Khajuraho line upto location no. 73(1x8.31)	8.31	16%	
16	2nd ckt of 132Kv Chhatarpur- Khajuraho line (1x0.5+33.2)	33.7	58%	2016-17
17	132 kv Ashoknagar - Eshagarh DCSS line (1x37) (Est.Sanc.-0281dtd. 17.03.2015 for Rs.1895.67)	37	76%	2016-17

18	LILO of Both circuit of 132 kv DCDS Gwalior(Mahalgaon) - Dabra/Karera line at 220 KV S/s Gwalior II) (2x2x7.87)	55.09	39%	2016-17
19	132 kv DCSS line from 132Kv S/s Kymore-132Kv S/s Barhi (1x35)	35	4%	2017-18
20	132 kv Sirmour - Katra DCDS line (2x37.67)	75.34	18%	2017-18
21	132 kv DCSS Guna-Eshagarh line (1x72)	72	26%	2017-18
22	132 kv Sagar-Rahatgarh DCSS line (1x55)	55	13%	2016-17
23	132 kv DCSS Dewas-Agrod line (1x20.76)	20.76	6%	2017-18
24	2nd Ckt. Of 132 Kv DCSS Tikamgarh- Budhera line (32.46)	32.46	83%	2016-17
25	132 kv DCSS Datiya- Bhandar line (1x23.45)	23.45	71%	2016-17
26	132 kv DCSS Khurai- Khimlasa line (1x20.937)	20.937	17%	2017-18
27	2nd Ckt.of 132Kv DCSS Katangi tap line tapped to one ckt. Of 132Kv Balaghat-Seoni line (1x0.5+35.8)	36.3	75%	2016-17
28	132 kv DCSS line from 220Kv S/s Chichli - 132Kv Karapgaon (1x31.059)	31.059	3%	2017-18
29	132 kv DCSS line Mehgaon - Pratappura (1x28.542)	28.542	59%	2016-17
30	LILO of 132Kv Mungaoli Traction feeder at 132Kv S/s Mungaoli (4x7.8+2x0.7) <b>Note:</b> (4x7.8ckt.km line charged on 30.12.2015 by tapping )	32.6	96%	2017-18
31	132 kv DCSS Ashoknagar - Kothiya line (1x27.5+4x2.5)	37.5	81%	2016-17
32	LILO of 132Kv Vidisha- Bairasiya line at salamatpurr (2x0.162)	0.324	46%	2016-17
33	132 kv DCDS Line Chichli - Udaypura (2x47) (On 220Kv Tower)	94	25%	2018-19
34	2nd ckt of 132kv Bairagarh - Shyampur line (1x0.5+4x1.9+19)	27.1	88%	2017-18
35	132 kv DCSS line from 132Kv S/s Porsa - 132Kv S/s Ambah (1x23.059)	23.059	56%	2016-17
36	132 kv DCSS line from 132Kv S/s Lahar - 132Kv S/s Seondha (1x15.5)	15.5	90%	2016-17
37	132 kv DCSS line Datiya - Dabra (1x30)	30	70%	2016-17
38	132 kv DCSS Line from 220Kv S/s Barwaha - 132Kv S/s Kishangarh (1x57.139)	57.139	53%	2016-17
39	132Kv DCSS line from 220Kv S/s Rajgarh to 132Kv S/s Jhabua (1x50)	50	17%	2016-17
40	132 kv DCSS Panagar - Patan line (1x22.749)	22.749	5%	2017-18
41	132Kv DCSDS line from 220Kv S/s Panagar to 132Kv S/s Katangi (2x27.96)	55.92	73%	2016-17
42	132Kv DCDS line for LILO of both circuit of 132Kv Banmore - Morena/Hetampur DCDS line for 220Kv S/s Morena(2x0.616+2x3.122)	7.476	21%	2016-17
43	132 kv DCSS Badnagar - Chhayan Line (1x31)	31	8%	2016-17
44	2nd ckt of 132kv Kukshi - Alirajpur line (1x1+36)	37	89%	2018-19
45	132 kv DCSS Dhar - Teesgaon line (1x15.35)	15.35	13%	2017-18
46	LILO of 132 kv Chhegaon - Nepanagar Line at 132Kv S/s Pandhana(1x1.895) (This line is proposed in place of Chhegaon - Pandhana Estt. Sanc.no. 0121dtd.06.08.2014)	3.79	33%	2016-17
47	LILO of 132 kv Manawar - Kukshi Line at 132Kv S/s Singhana(2x3.1)	6.2	52%	2016-17
48	LILO of Kargone - Julwaniya DP line(132Kv) at Talakpura (2x1.1+1x0.8)(This line is proposed in place of Julwaniya- Talakpura line Rev. Estt. Sanc.no. 0245 dtd.15.01.2016 for Rs.185.40lac.)	3	20%	2017-18
49	132 kv DCDS Beragarh - Intkhedi (2x8.7+4x1.5)	23.4	41%	2017-18
50	132 kv DCSS Udaipura - Silvani line (1x25.8)	25.8	28%	2017-18
51	132 kv DCSS Narsinghpur - Devnagar (1x23)	23	13%	2017-18
52	132 kv DCSS Karakbel - Belkheda (1x24.445)	24.445	10%	2017-18
53	132 kv DCDS Narsinghpur - Karakbel line (2x23)	46	14%	2017-18
54	2nd ckt of Betul - Gudgaon line (1x57)	57	90%	2017-18
55	2nd ckt of 132kv RTS Mangliyaogaon line	8.852	96%	
56	132Kv 2 phase 2wire line from 132Kv s/s Semri-Harchan for PS to RTS Bagegaon (2x4.3)	4.3	97%	

S. No.	NAME OF THE SUBSTATION	EFFECTIVE CAPACITY MVA	PROGRESS IN %	
<b>A.</b>	<b>400 KV SUBSTATIONS</b>			
1	400 KV sub-station Balaghat/Kirnapur with 2x100MVA 400/220 kv x-MER+ 1X40 MVA X-mer (Distt.Balaghat)	200	2%	2017-18
2	400 KV sub-station Badnawar with 2x315MVA 400/220 KV X-mer (Distt.Balaghat)	630	2%	2017-18
3	Bhopal (Sukhi Sewaniya) 400/220 kv s/s Addl. 315 MVA X-mer (Distt.Bhopal)	315	10%	2016-17
4	Chhegaon 400/220 kv s/s Addl. 315 MVA X-mer (Distt.Khandwa)	315	24%	2016-17
5	1x125 MVAR 400 Kv Bus Reactor at existing 400Kv S/s Nagda	0	47%	2016-17
<b>B. a</b>	<b>220 KV SUBSTATIONS</b>			
1	Julwaniya 220/132kv S/s at 400kv s/s (Distt. Badwani) (2x160+40 MVA) (1No. 160MVA Charged on 21.08.2015)	320	79%	2016-17
2	Mugaliachhap(Bhopal) 220kv (New S/s)(1x160+40)	160	85%	2016-17
3	Gwalior-II 220kv (New S/s)(2x160+40) (1x160 charged on31.3.2015)	160	95%	2016-17
4	Upgradation of Chapda 132Kv S/s to 220kv with 1x160MVA (Distt. )	160	2%	2017-18
5	Upgradation of Depalpur 132Kv S/s to 220kv with 1x160MVA(Distt. )	160	9%	2017-18
6	Adampur 220/33kv S/s 2x50MVA	100	2%	2017-18
7	Upgradation of Kukshi 132Kv S/s to 220kv with 1x160MVA (Distt. )	160	6%	2017-18
8	Morena 220/132kv S/s 1x160 +1x63 MVA +2No.220Kv FB +4No.132Kv FB+6No.33Kv FB+BC +Capacitor Bank	160	32%	2016-17
<b>C.</b>	<b>132 KV SUBSTATIONS</b>			
<b>(a)</b>	<b>NEW SUBSTATIONS</b>			
1	Bairad 132kv s/s(Dist.-Shivpuri )	40	13%	2017-18
2	Barahi 132kv s/s (Distt.Katni)	40	11%	2017-18
3	Karapgaon 132kv s/s (Distt-Narsinghpur)	40	14%	2017-18
4	Rahatgarh132kv s/s (Distt.Sagar)	40	28%	2016-17
5	Indergarh 132kv s/s (Distt.Datia)	40	25%	2017-18
6	Biston 132kv s/s (Distt. ) 1x40 MVA	40	9%	2017-18

7	Agrod 132kv s/s (Distt. ) 1x40 MVA	40	14%	2017-18
8	Chhayan 132kv s/s (Distt. ) 1x40 MVA	40	9%	2016-17
9	Singhana 132kv s/s (Distt. ) 1x40 MVA	40	18%	2016-17
10	Talakpura 132kv s/s (Distt.) 1x40 MVA	40	7%	2017-18
11	Devnagar 132kv s/s (Distt. Narsighpur ) 1x40 MVA	40	15%	2017-18
12	Belkheda 132kv s/s (Distt. Jabalpur ) 1x40 MVA	40	1%	2017-18
13	Khimlasa 132kv s/s (Distt. ) 1x40 MVA	40	3%	2017-18
14	Karakbel 132kv s/s (Distt. Narsinghpur) 1x40 MVA	40	5%	2017-18
15	Chinaur 132kv s/s (Distt.) 1x40 MVA	40	7%	2016-17
16	Bhander 132kv s/s (Distt. Datia) 1x63	63	90%	2016-17
17	Kothiya 132kv s/s (Distt. Guna ) 1x40 MVA	40	90%	2016-17
18	Salamatpur 132kv s/s with 1x40 MVA (Distt.)	40	3%	2016-17
19	Intkhedi 132kv s/s (Distt. ) 1x63 MVA	63	48%	2017-18
20	Silvani 132kv s/s with 1x40 MVA (Distt.)	40	3%	2017-18
21	Katangi 132kv s/s with 1 no. 132 kv feeder bay & 1x40 MVA (Distt. - Jabalpur)	40	75%	2016-17
22	Kishangarh 132kv s/s with 1 no. 132 kv feeder bay & 1x40 MVA (Distt. Dewash)	40	42%	2016-17
23	Pithampur SEZ- II 132kv s/s 1x63 MVA (Distt.Dhar)	63	23%	2016-17

### Discoms wise Average Supply Hours

PARTICULARS	East Zone		Central Zone	
	Apr-16	May-16	Apr-16	May-16
Commissinary HQ	23:52	23:43	23:42	23:27
District HQ	23:54	23:52	23:48	23:31
Tehsil HQ	23:51	23:44	23:33	23:07
Rural -Mixed	23:39	23:26	23:04	22:02
Rural -DLF	23:39	23:25	23:17	22:37
Rural -Irrigation	9:58	9:57	9:43	9:11
PARTICULARS	West Zone		MP	
	Apr-16	May-16	Apr-16	May-16
Commissinary HQ	23:49	23:44	23:47	23:37
District HQ	23:51	23:45	23:52	23:44
Tehsil HQ	23:46	23:40	23:44	23:31
Rural -3Phase	23:33	23:16	23:25	22:52
Rural -1Phase	23:40	23:22	23:32	23:09
Total Rural	9:51	9:42	9:51	9:37

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

(For which group to be allocated)

**JABALPUR REGION**

Name of EHV Substation	Name of 33KV feeder	Date of commission-ing of feeder bay	Date of commission-ing of feeder
<b>220KV</b>			
220KV Chhindwara	33KV Kundali	27.07.2015	21.11.2015
	33KV Bangaon	27.07.2015	----
<b>132KV</b>			
132KV Lalbarra	33KV Lalbarra	29.12.2015	27.01.2016
132KV Seoni	33KV Kurai	15.09.2012	16.12.2015
132KV Umreth	33KV Umreth	03.03.2016	04.05.2016
	33KV Khirsadoh	03.03.2016	05.03.2016
132KV Borgaon	33KV FS-II	26.02.2013	12.04.2016

**SAGAR REGION**

Name of EHV Substation	Name of 33KV feeder	Date of commission-ing of feeder bay	Date of commission-ing of feeder
<b>132KV</b>			
132KV Batiagarh	33KV Batiagarh	09.09.2015	09.09.2015
	33KV Kerbana	-	09.09.2015
	33KV Bhakswa	-	09.09.2015
	33KV Magron	-	09.09.2015
132KV Digoda	33KV Mohangarh	27.02.2016	27.02.2016
	33KV Kurrai	05.03.2016	05.03.2016
132KV Budera	33KV Ghuwara	01.01.2016	13.01.2016
	33KV Baldeogarh		15.02.2016
	33KV Khargapur		15.02.2016
	33KV Budera		15.02.2016
132KV Loundi	33KV Dumra	09.01.2016	09.01.2016
	33KV Loundi	09.01.2016	09.01.2016
	33KV Basantpura	09.01.2016	09.02.2016

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

(For which group to be allocated)

**INDORE REGION**

Name of EHV Substation	Name of 33KV feeder	Date of commission-ing of feeder bay	Date of commission-ing of feeder
<b>220KV</b>			
220KV Indore (Jetpura)-II	33KV PGCIL-II feeder		24.08.2014
220KV Nimrani	33KV Maral Overseas		08.06.2015
<b>132KV</b>			
132KV Raukhedi	33KV DLF-I		01.03.2014
	33KV DLF-II		01.03.2014
	33KV Exep.Panther-IV		09.07.2015
132KV Chandrawatiganj	33KV Feeder No.2		31.12.2014
	33KV Feeder No.3		31.12.2014
	33KV Feeder No.4		31.12.2014
132KV Badgaon	33KV Discom Bay	29.11.2014	25.09.2015
132KV Anjad	33KV Discom Bay	08.12.2014	26.11.2015



<b>UJJAIN REGION</b>			
Name of EHV Substation	Name of 33KV feeder	Date of commission-ing of feeder bay	Date of commission-ing of feeder
<b>220KV</b>			
220KV Barod	33KV M&B-I&II		
<b>132KV</b>			
132KV Susner	33KV Evershine		21.05.2014
132KV Maxi	Sudheer Project		18.02.2015
132KV Agar	33KV Enercon-I		
	33KV Enercon-II		
	33KV M&B-I		
	33KV M&B-II		
132KV Ratadia	33KV Chintaman Ganesh		
132KV Nalkheda	33KV Kachnariya		
	33KV Lasuldiya Kelwa		
132KV Sonkatch	33KV Industrial (MPAKVN)		

**LIST OF 33KV FEEDERS UNDER MPPKVVCL,BHOPAL**

(For which group to be allocated)

**BHOPAL REGION**

Name of EHV Substation	Name of 33KV feeder	Date of charging of feeder
<b>220 KV</b>		
220 KV Betul	33 KV Industrial	13.06.2014
220 KV Vidisha	33 KV ISanchi	30.01.2015
<b>132 KV</b>		
132 KV Bareli	33 KV Barna	19.02.2014
	33 KV Boras	19.02.2014
132 KV Khilchipur	33 KV Khajla	29.10.2014
132 KV Biora	33 KV Nagar Palika	09.03.2014
	33 KV Water Works	09.03.2014
132 KV Shyampur	33 KV Jatkheda-I	07.05.2014
	33 KV Jatkheda-II	07.05.2014
132 KV Runaha	33 KV Runaha	15.04.2015
	33 KV Nazirabad	18.09.2015
	33 KV Ramgarh	19.09.2015
132 KV MACT Bhopal	33 KV Bairagarh chichli-2	15.11.2014
132 KV Gopalpur	33 KV AE, PHE	27.02.2015
132 KV Amrawad Khurd	33 KV AIIMS Hospital	29.02.2016
	33 KV AIIMS Residence	29.02.2016

**GWALIOR REGION**

Name of EHV Substation	Name of 33KV feeder	Date of charging of feeder
<b>220 KV</b>		
220 KV Sagalgarh	33 KV Mangrol	30.05.2014
<b>132 KV</b>		
132 KV Morena	33 KV Bagchini	02.02.2015
132 KV Datia	33 KV Karapura	17.05.2014
132 KV Ron	33 KV Mangarh	21.11.2013
132 KV Morar	33 KV Readymade Garment	22.08.2014

PROPOSED SHUT DOWN PROGRAMME OF 400 KV/220 KV TRANSFORMER UNDER T & C FROM 01.07.16 TO 31.08.2016.									
S-NO-	NAME OF 400 KV/220 KV SUBSTATION	NAME OF 400 /220KV EQUIPMENT/FEEDER/LINE	CIRCUIT NO-	DATE	PERIOD OF SHUTDOWN		DURATION IN HRS-	MAINTAINANCE WORK PROPOSED	REMARKS
					FROM	TO			
<b>TRANSFORMERS /FEEDER BAYS OF 400KV/220 KV SUBSTAION</b>									
1	220/33KV Indore East	100 MVA X-mer	-	03.07.2016	09:00	17:00	08:00	PRE MONSOON MAINTENANCE & TESTINGWORK	
2	220 KV S/S Rajgarh	220 KV PGCIL	CKT-I	5.07.2016	09:00	17:00	08:00	PRE MONSOON MAINTENANCE & TESTINGWORK	
3	220 KV S/S Rajgarh	220 KV PGCIL	CKT-II	6.07.2016	09:00	17:00	08:00	PRE MONSOON MAINTENANCE & TESTINGWORK	
4	400 KV S/S BINA	220 KV PGCIL BINA	-	29/08/2016	09:00	17:00	08:00	MAINTAINANCE & TESTING WORK PROPOSED	
5	400 KV S/S BINA	400 KV BUS REACTOR	-	31/08/2016	09:00	17:00	08:00	MAINTAINANCE & TESTING WORK PROPOSED	
6	220 KV SUKHA	220 KV ICT - 1	1	20/07/2016	09:00	17:00	08:00	MAINTAINANCE & TESTING WORK PROPOSED	
7	220 KV SUKHA	220 KV ICT - 1	1	21/07/2016	09:00	17:00	08:00	MAINTAINANCE & TESTING WORK PROPOSED	
8	220 KV SUKHA	220 KV ICT - 2	2	26/07/2016	09:00	17:00	08:00	MAINTAINANCE & TESTING WORK PROPOSED	
9	220 KV SUKHA	220 KV ICT - 2	2	27/07/2016	09:00	17:00	08:00	MAINTAINANCE & TESTING WORK PROPOSED	

<b>Unitwise / Stationwise Generation in MU</b>				
<b>A. Thermal</b>		<b>Ann 4.1</b>		
Strn. Name	UNIT No.	Capacity MW	April-16	May-16
<b>AMARKANTAK</b>	3	120	0.00	0.00
	4	120	0.00	0.00
	<b>PH II</b>	<b>240</b>	<b>0.00</b>	<b>0.00</b>
	5	210	<b>152.30</b>	<b>147.29</b>
	<b>PH III</b>	<b>210</b>	<b>152.30</b>	<b>147.29</b>
	<b>TOT</b>	<b>210</b>	<b>152.30</b>	<b>147.29</b>
<b>SATPURA</b>	6	200	96.75	10.85
	7	210	114.66	4.68
	<b>PH II</b>	<b>410</b>	<b>211.41</b>	<b>15.52</b>
	8	210	104.82	13.14
	9	210	77.03	31.86
	<b>PH III</b>	<b>420</b>	<b>181.86</b>	<b>45.00</b>
	10	<b>250</b>	<b>145.45</b>	<b>63.95</b>
	11	<b>250</b>	<b>153.84</b>	<b>106.21</b>
<b>PH IV</b>	<b>500</b>	<b>299.28</b>	<b>170.16</b>	
<b>TOT</b>	<b>1330</b>	<b>692.55</b>	<b>230.68</b>	
<b>SANJAY GANDHI</b>	1	210	106.42	76.91
	2	210	107.57	60.57
	<b>PH I</b>	<b>420</b>	<b>213.99</b>	<b>137.49</b>
	3	210	106.02	67.58
	4	210	108.69	107.29
	<b>PH II</b>	<b>420</b>	<b>214.71</b>	<b>174.86</b>
	5	<b>500</b>	<b>345.01</b>	<b>301.62</b>
	<b>PH III</b>	<b>500</b>	345.01	301.62
<b>TOT</b>	<b>1340</b>	<b>773.71</b>	<b>613.98</b>	
<b>SSTPS</b>	1	<b>600</b>	<b>78.60</b>	<b>180.03</b>
	2	<b>600</b>	<b>0.00</b>	<b>0.00</b>
	<b>PH1</b>	<b>1200</b>	<b>78.60</b>	<b>180.03</b>
<b>MPPGCL THERMAL</b>		<b>4080</b>	<b>1697.16</b>	<b>1171.98</b>
Note : 1. Amarkantak Thermal Power Station-II Unit # 4 De-commissioned wef 01-May-2014.				
2. Amarkantak Thermal Power Station-II Unit # 3 De-commissioned wef 13-Jan-2015.				
<b>B. Hydel</b>				
Station Name	Capacity MW	April-16	May-16	
GANDHISAGAR	<b>115.0</b>	4.02	18.67	
R.P.SAGAR	<b>172.0</b>	0.02	0.82	
J.SAGAR	<b>99.0</b>	0.40	1.16	
CHAMBAL	<b>386.0</b>	<b>4.44</b>	<b>20.64</b>	
M.P.CHAMBAL	<b>193.0</b>	<b>2.22</b>	<b>10.32</b>	
PENCH	<b>160.0</b>	10.85	4.14	
M.P.PENCH	<b>107.0</b>	<b>7.23</b>	<b>2.76</b>	
BARGI	<b>90.0</b>	26.71	27.79	
TONS	<b>315.0</b>	30.36	28.31	
BIRSINGHPUR	<b>20.0</b>	0.00	0.00	
B.SGR(DEOLONDH)	<b>60.0</b>	0.00	0.00	
B.SGR(SILPARA)	<b>30.0</b>	3.26	3.18	
RAJGHAT	<b>45.0</b>	0.00	0.00	
M.P.RAJGHAT	<b>22.5</b>	<b>0.00</b>	<b>0.00</b>	
B.SGR(JINHA)	<b>20.0</b>	2.65	2.81	
MADIKHEDA	<b>60.0</b>	0.00	0.00	
TOTAL HYDEL	<b>1186.0</b>	<b>78.28</b>	<b>86.86</b>	
MPPGCL Hydel	<b>915.0</b>	<b>77.85</b>	<b>84.89</b>	
MPSEB HYDEL Share	<b>917.5</b>	<b>72.44</b>	<b>75.16</b>	
<b>C. NHDC (Ex-Bus)</b>				
Station Name	Capacity MW	April-16	May-16	
Indira Sagar Hydel Project	1000	122.805	148.665	
Omkareshwar Hydel Project	520	65.887	75.813	

**ENERGY BALANCE SHEET**  
Year : 2016 - 17

All figures in Million Unit

S No.	Source	Apr-16	May-16	Total
<b>A.</b>	<b>M.P. Availability</b>			
1	Thermal	1534.26	1058.71	<b>2592.97</b>
2	Hydel	71.27	73.63	<b>144.91</b>
3	Total	1605.53	1132.35	<b>2737.88</b>
<b>B.</b>	<b>Exchange with other States / Systems</b>			
1	Indira Sagar	120.81	146.45	<b>267.26</b>
2	Omkareshwar	65.89	75.81	<b>141.70</b>
3	MPPMCL Schedule from Central Sector of WR	1753.12	1394.10	<b>3147.22</b>
4	MPPMCL Schedule from Central Sector ER	47.17	31.17	<b>78.34</b>
5	Total MPPMCL Schedule from Central Sector (WR+ER)	1800.29	1425.27	<b>3225.56</b>
6	Deviation Energy of (WR+ER)	-47.47	-70.17	<b>-117.65</b>
7	Schedule From DVC ER	232.92	202.40	<b>435.32</b>
8	Schedule From Sugan	0.00	0.00	<b>0.00</b>
9	LANCO Amk	195.30	186.44	<b>381.74</b>
10	SASAN	988.04	886.52	<b>1874.56</b>
11	ESSAR	0.00	0.00	<b>0.00</b>
12	J P Nigri	278.92	323.20	<b>602.12</b>
13	MB Power	63.53	131.56	<b>195.09</b>
14	JHABUA Power	0.00	20.41	<b>20.41</b>
15	Himachal Pradesh HYDAL	0.00	0.00	<b>0.00</b>
16	BARH	0.00	0.00	<b>0.00</b>
17	Schedule from Sardar Sarovar	8.89	19.97	<b>28.86</b>
18	SCH to Railway from RGPPL_ebid	144.00	148.02	<b>292.02</b>
19	Schedule from SEZ	0.00	0.00	<b>0.00</b>
20	Schedule from Rihand+Matatila	2.37	3.07	<b>5.44</b>
21	Medium Term Power Purchase from CSPDCL through PTC against PPA CSPDCCL dtd. 18.09.2012	0.00	0.00	<b>0.00</b>
22	Medium Term Power Purchase from Balco through PTC against PPA Balco dtd. 18.09.2012 Including Short term purchase against MTOA	0.00	0.00	<b>0.00</b>
23	Additional Power Purchase	6.53	0.00	<b>6.53</b>
24	Energy Exchange	0.00	0.00	<b>0.00</b>
25	Banking of Energy	-145.84	-11.74	<b>-157.58</b>
26	Sale of Power	-321.72	-171.39	<b>-493.10</b>
<b>27</b>	<b>Total MP Schedule (Including Railway)</b>	<b>3253.22</b>	<b>3163.74</b>	<b>6416.96</b>
<b>28</b>	<b>Total MP Drawal (Including Railway)</b>	<b>3205.75</b>	<b>3093.57</b>	<b>6299.32</b>
29	Wheeled Energy of Tawa HEG	0.00	0.00	<b>0.00</b>
30	Wheeled Energy of Wind Farm	18.13	9.25	<b>27.38</b>
31	Wheeled Energy of Solar Plant	16.07	15.81	<b>31.88</b>
32	Wheeled Energy of Ascent Hydro	1.39	1.16	<b>2.55</b>
33	<b>POWER PURCHASE by MPPMCL from BLA Power + JP BINA (Intra State STOA)</b>	0.00	0.00	<b>0.00</b>
34	Deviation Energy of MPPGCL Thermal	11.36	0.36	<b>11.72</b>
35	Sale of Power to SEZ by MPPMCL (Not Included in State Supply)	0.00	0.00	<b>0.00</b>
36	Energy Purchased by MP from Wind Farm	227.92	447.95	<b>675.87</b>
37	Energy Purchased by MP from Solar Plant	87.17	87.65	<b>174.83</b>
38	Firm / Infirm Energy of HEG Mandideep+Hindalco+HEG Tawa +Trimula Ind. purchase by MP +Wheeled enrgy of CPP / IPP	20.37	8.23	<b>28.60</b>
39	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)	10.35	8.46	<b>18.81</b>
40	Deviation Energy of ISP	1.99	2.22	<b>4.21</b>
41	Schedule Energy of BLA Power against LTOA	7.85	1.92	<b>9.76</b>
42	Schedule Energy of JP BINA Power against LTOA	0.00	3.86	<b>3.86</b>
43	Import from bargi Left Bank Canal Power House + ISP NVDA	0.01	0.01	<b>0.02</b>
44	Chambal Complex Excess / less Overshare by MP	-3.19	3.46	<b>0.28</b>
45	Rajghat Hydel Power Station Excess / Less Overshare by MP	-0.03	0.01	<b>-0.02</b>
<b>46</b>	<b>State Supply (Ex-Power st. Bus)</b>	<b>5397.37</b>	<b>5038.53</b>	<b>10435.90</b>
47	AVERAGE DAILY (Ex-Bus)	179.91	162.53	171.08
48	MINIMUM DAILY (MP Periphery)	167.37	137.08	137.08
49	MAXIMUM DAILY (MP Periphery)	177.75	174.97	177.75
<b>50</b>	<b>State Supply (Ex-Power st. Bus):- YEAR : 2015-16</b>	<b>4281.50</b>	<b>4822.95</b>	<b>9104.45</b>
51	Year ((16-17)-(15-16))*100/Year (15-16)	<b>26.06</b>	<b>4.47</b>	<b>14.62</b>
52	Unshedule L/S : Year-2016-17	0.00	5.37	<b>5.37</b>
53	Frequency Correction	3.92	1.95	<b>5.87</b>
<b>54</b>	<b>Restricted Requirement : Year-2016-17</b>	<b>5401.30</b>	<b>5045.84</b>	<b>10447.14</b>
55	Shedule L/S : Year-2016-17	0.00	0.00	<b>0.00</b>
<b>56</b>	<b>Un-Restricted Requirement : Year-2016-17</b>	<b>5401.30</b>	<b>5045.84</b>	<b>10447.14</b>

**Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand**  
**Month :- April 2016**

**FIGURES IN MW**

Hrs.	FREQ.	Own Generation								Schedule from																Total Avl.	Act. Dri	Deviatio	DEMAND MET	Load Shedding			REST DEMAND	UNREST. DEMAND		
		Ther. Incl Aux	Ther. Excl Aux	HYD.	ISP	OSP	Total IPPs injection	Total CPPs+RES injection	Total	CSS	DVCE	Sugen	Lanco	Sasan	Essar	JP Nigri	MB Power	SSP	SCH to Railway	SEZ	Banking	Sale	Pur	Total MTOA at MP	STOA					Rihand-Matla-Rajghat	Total	SCH			UN SCH	TOTAL
1:00	49.97	2396	2181	90	143	101	33	422	2969	2502	341	0	262	1320	0	377	104	12	200	0	-203	-366	4	0	-5	3	4553	7522	4497	-56	7466	0	0	0	7473	7473
2:00	49.99	2360	2148	69	134	87	32	417	2888	2474	296	0	262	1321	0	377	92	12	200	0	-203	-354	5	0	-5	3	4481	7368	4310	-170	7198	0	0	0	7203	7203
3:00	50.00	2317	2108	52	123	72	31	406	2792	2450	276	0	262	1322	0	377	89	12	200	0	-203	-335	8	0	-4	3	4457	7249	4338	-120	7130	0	0	0	7133	7133
4:00	50.00	2302	2095	50	127	66	31	398	2767	2451	299	0	259	1322	0	377	79	12	200	0	-203	-427	10	0	-3	3	4379	7146	4282	-96	7049	0	0	0	7052	7052
5:00	49.97	2289	2083	53	150	72	31	372	2761	2431	289	0	262	1322	0	377	82	12	200	0	-203	-421	10	0	-3	3	4360	7121	4301	-59	7062	0	0	0	7070	7070
6:00	50.00	2307	2099	80	176	93	32	341	2821	2410	313	0	262	1322	0	377	82	12	200	0	-203	-384	10	0	-3	3	4401	7222	4348	-54	7169	0	0	0	7171	7171
7:00	50.04	2312	2104	132	179	91	29	361	2895	2319	338	0	262	1323	0	377	83	12	200	0	-203	-121	10	0	63	3	4666	7561	4667	1	7562	0	0	0	7562	7562
8:00	50.01	2316	2108	136	176	93	29	386	2928	2317	337	0	262	1328	0	377	79	12	200	0	-203	-135	10	0	45	3	4633	7561	4565	-68	7493	0	0	0	7494	7494
9:00	49.99	2327	2117	140	180	97	29	488	3050	2371	320	0	262	1321	0	377	75	12	200	0	-203	-234	10	0	-18	3	4496	7547	4362	-134	7412	0	0	0	7417	7417
10:00	50.00	2347	2136	88	154	93	31	576	3077	2414	299	0	262	1321	0	377	82	12	200	0	-203	-413	10	0	-56	3	4308	7385	4178	-130	7255	0	0	0	7259	7259
11:00	50.00	2332	2122	90	154	83	31	615	3095	2393	294	0	262	1322	0	380	85	13	200	0	-203	-483	10	0	-74	3	4202	7298	4158	-44	7253	0	0	0	7257	7257
12:00	49.97	2320	2111	67	146	75	31	628	3058	2351	285	0	262	1322	0	374	81	13	200	0	-203	-574	10	0	-88	3	4036	7094	3761	-275	6819	0	0	0	6827	6827
13:00	49.99	2298	2091	63	153	79	31	634	3052	2345	273	0	262	1321	0	374	84	13	200	0	-203	-676	10	0	-86	3	3920	6972	3933	13	6985	0	0	0	6991	6991
14:00	49.97	2291	2085	54	154	85	31	611	3020	2365	279	0	259	1324	0	373	85	13	200	0	-203	-674	10	0	-80	3	3955	6975	3865	-90	6884	0	0	0	6892	6892
15:00	49.94	2299	2092	56	146	81	31	575	2981	2365	281	0	255	1320	0	360	88	13	200	0	-203	-728	10	0	-71	3	3893	6874	3890	-3	6871	0	0	0	6886	6886
16:00	49.97	2315	2107	78	168	85	32	479	2949	2370	310	0	255	1326	0	359	77	13	200	0	-203	-764	10	0	-52	3	3905	6854	3887	-19	6835	0	0	0	6842	6842
17:00	49.99	2309	2102	92	184	97	32	356	2861	2390	303	0	255	1326	0	359	76	14	200	0	-203	-741	10	0	-22	3	3971	6832	4066	96	6927	0	0	0	6931	6931
18:00	50.02	2256	2053	85	165	85	33	244	2664	2285	256	0	252	1320	0	360	68	14	200	0	-203	-700	10	0	6	3	3870	6534	3712	-158	6376	0	0	0	6378	6378
19:00	50.01	2360	2148	162	222	93	35	210	2871	2333	368	0	262	1320	0	369	82	13	200	0	-203	-343	10	0	26	3	4440	7310	4360	-80	7231	0	0	0	7233	7233
20:00	49.99	2439	2220	254	267	130	37	251	3158	2508	403	0	262	1320	0	379	91	13	200	0	-203	-381	10	0	5	3	4611	7769	4557	-54	7715	0	0	0	7720	7720
21:00	49.95	2419	2201	167	216	120	37	306	3047	2493	385	0	262	1320	0	384	90	13	200	0	-203	-390	10	0	-6	3	4561	7609	4495	-66	7542	0	0	0	7554	7554
22:00	50.02	2431	2212	140	195	112	36	364	3059	2477	362	0	262	1321	0	388	89	13	200	0	-203	-361	10	0	-7	3	4554	7613	4386	-168	7444	0	0	0	7446	7446
23:00	49.95	2436	2217	170	238	129	35	395	3183	2542	381	0	262	1321	0	383	95	12	200	0	-203	-334	10	0	-7	3	4666	7850	4660	-7	7843	0	0	0	7855	7855
24:00	50.00	2424	2206	142	199	115	34	416	3112	2523	352	0	262	1321	0	383	95	12	200	0	-203	-283	10	0	-6	3	4670	7782	4538	-131	7650	0	0	0	7654	7654
Avg.	49.99	2342	2131	105	173	93	32	427	2961	2412	318	0	261	1322	0	375	85	12	200	0	-203	-442	9	0	-19	3	4333	7294	4255	-78	7216	0	0	0	7221	7221
00 TO 06 HRS.	49.99	2329	2119	66	142	82	32	393	2833	2453	302	0	262	1322	0	377	88	12	200	0	-203	-381	8	0	-4	3	4438	7271	4346	-93	7179	0	0	0	7184	7184
06 TO 12 HRS.	50.00	2326	2116	109	165	89	30	509	3017	2361	312	0	262	1323	0	377	81	12	200	0	-203	-327	10	0	-21	3	4390	7408	4282	-108	7299	0	0	0	7303	7303
12 TO 18 HRS.	49.98	2295	2088	71	162	85	31	483	2921	2353	284	0	256	1323	0	364	80	13	200	0	-203	-714	10	0	-51	3	3919	6840	3892	-27	6813	0	0	0	6820	6820
06 TO 18 HRS.	49.99	2310	2102	90	163	87	31	496	2969	2357	298	0	259	1323	0	370	80	13	200	0	-203	-520	10	0	-36	3	4155	7124	4087	-68	7056	0	0	0	7061	7061
18 TO 24 HRS.	49.99	2418	2201	173	223	116	36	324	3072	2479	375	0	262	1320	0	381	90	13	200	0	-203	-349	10	0	1	3	4584	7655	4499	-84	7571	0	0	0	7577	7577

**Hourly Average Own Generation, Schedule Drawal , Actual Drawal & Demand**  
**Month :- May 2016**

**FIGURES IN MW**

Hrs.	FREQ.	Own Generation											Schedule from																		Load Shedding			REST. DEMAND	UNREST. DEMAND		
		Ther. Incl Aux	Ther. Excl Aux	HYD.	ISP	OSP	Total IPPs Injection	Total CPPs+ RES Injection	Total	CSS	DV/ER	Surgen	Lanco	Sasan	Essar	JP Nigri	MB Power	Jhabua Power	SSP	SCH to Railway	SEZ	Banking	Sale	Pur	Total MTO At MP	STOA	Riharda- Matatila- Rajghat	Total	Tot Avl.	Act. Drl	Deviation	DEMAND MET	SCH			UN SCH	TOTAL
1:00	50.02	1664	1514	137	187	101	14	614	2567	2180	259	0	253	1180	0	406	202	28	21	197	0	-8	-305	0	0	18	4	4436	7003	4343	-93	6910	0	7	7	6918	6918
2:00	50.03	1614	1469	96	179	97	14	649	2505	2072	224	0	253	1183	0	410	173	25	21	197	0	-8	-170	0	0	27	4	4410	6915	4195	-215	6700	0	8	8	6708	6708
3:00	50.03	1562	1421	89	166	93	14	643	2426	1901	211	0	250	1175	0	409	155	25	21	197	0	-8	-112	0	0	40	4	4267	6693	4188	-80	6614	0	7	7	6622	6622
4:00	50.04	1538	1399	76	176	93	14	638	2397	1819	254	0	243	1169	0	416	152	25	21	199	0	-11	-93	0	0	47	4	4244	6640	4149	-94	6546	0	7	7	6554	6554
5:00	50.00	1526	1389	69	179	93	13	627	2370	1809	248	0	240	1169	0	409	147	25	21	200	0	-11	-96	0	0	59	4	4224	6594	4136	-88	6506	0	7	7	6516	6516
6:00	50.04	1529	1391	80	189	99	14	590	2363	1739	256	0	240	1165	0	409	147	25	21	200	0	-11	-70	0	0	82	4	4207	6569	4095	-111	6458	0	7	7	6465	6465
7:00	50.04	1519	1383	83	189	103	15	640	2412	1650	256	0	240	1174	0	425	150	25	21	200	0	-15	-42	0	0	154	4	4243	6654	4212	-31	6623	0	5	5	6629	6629
8:00	50.06	1524	1387	86	178	97	18	687	2452	1649	257	0	247	1158	0	426	152	25	23	200	0	-20	-39	0	0	128	4	4210	6663	4099	-112	6551	0	7	7	6558	6558
9:00	50.01	1532	1394	82	175	97	18	786	2552	1661	257	0	243	1151	0	427	147	25	23	200	0	-25	-89	0	0	94	4	4118	6670	3974	-144	6526	0	7	7	6536	6536
10:00	50.01	1539	1400	89	179	95	18	865	2647	1693	264	0	230	1138	0	426	155	25	38	200	0	-26	-202	0	0	49	4	3994	6641	3857	-137	6504	0	8	8	6514	6514
11:00	50.00	1550	1411	85	196	97	18	879	2685	1712	265	0	230	1132	0	428	152	25	41	200	0	-29	-300	0	0	20	4	3881	6566	3887	6	6572	0	7	7	6581	6581
12:00	49.98	1553	1413	90	217	105	18	860	2702	1701	266	0	233	1128	0	429	155	25	41	200	0	-27	-317	0	0	11	4	3848	6551	3724	-124	6427	0	8	8	6440	6440
13:00	49.99	1563	1423	89	217	105	18	826	2677	1692	265	0	233	1138	0	428	167	25	27	200	0	-23	-254	0	0	14	4	3915	6592	3919	4	6597	0	8	8	6608	6608
14:00	49.98	1583	1441	105	223	106	18	792	2686	1769	273	0	237	1121	0	414	166	25	27	200	0	-23	-273	0	0	12	4	3952	6638	3889	-63	6575	0	7	7	6587	6587
15:00	49.96	1589	1446	126	227	114	18	712	2643	1916	273	0	240	1120	0	414	179	28	24	200	0	-23	-476	0	0	4	4	3903	6546	3888	-16	6530	0	8	8	6548	6548
16:00	50.01	1589	1446	124	216	112	18	621	2536	1928	268	0	237	1131	0	414	181	28	24	200	0	-22	-444	0	0	25	4	3973	6510	3863	-110	6399	0	7	7	6409	6409
17:00	50.03	1546	1407	94	209	112	18	540	2380	1792	257	0	237	1120	0	417	172	28	25	200	0	-21	-282	0	0	66	4	4014	6395	3885	-129	6266	0	7	7	6274	6274
18:00	50.05	1513	1377	76	191	106	18	464	2232	1381	242	0	213	1053	0	420	155	28	25	200	0	-24	-149	0	0	117	4	3665	5897	3515	-150	5747	0	8	8	5756	5756
19:00	50.01	1513	1376	110	200	106	18	466	2277	1574	253	0	223	1082	0	425	162	28	25	200	0	-25	-218	0	0	109	4	3842	6119	3820	-22	6097	0	9	9	6108	6108
20:00	49.96	1612	1467	223	230	116	19	486	2541	2066	319	0	243	1147	0	427	198	28	25	200	0	0	-522	0	0	74	4	4209	6750	4338	129	6880	0	8	8	6898	6898
21:00	50.00	1634	1487	204	223	110	19	523	2566	2164	316	0	247	1174	0	429	201	28	25	197	0	0	-506	0	0	64	4	4342	6909	4308	-34	6875	0	6	6	6885	6885
22:00	50.04	1624	1478	158	218	101	20	546	2521	2070	301	0	250	1162	0	415	203	28	25	197	0	0	-264	0	0	48	4	4441	6962	4329	-112	6849	0	7	7	6857	6857
23:00	50.00	1639	1491	195	243	103	20	570	2622	2162	321	0	250	1177	0	414	204	31	26	197	0	0	-272	0	0	10	4	4523	7145	4547	24	7169	0	6	6	7178	7178
24:00	50.03	1634	1487	151	206	101	19	607	2571	2138	307	0	250	1167	0	413	205	28	24	197	0	0	-119	0	0	17	4	4630	7200	4463	-166	7034	0	6	6	7042	7042
Avg.	50.01	1570	1429	113	200	103	17	651	2514	1843	267	0	240	1147	0	419	170	27	26	199	0	-15	-234	0	0	54	4	4145	6659	4068	-78	6581	0	7	7	6591	6591
00 TO 06 HRS.	50.03	1572	1431	91	179	96	14	627	2438	1920	242	0	247	1174	0	410	162	25	21	198	0	-10	-141	0	0	45	4	4298	6736	4184	-114	6622	0	7	7	6631	6631
06 TO 12 HRS.	50.02	1536	1398	86	189	99	17	786	2575	1678	261	0	237	1147	0	427	152	25	31	200	0	-23	-165	0	0	76	4	4049	6624	3959	-90	6534	0	7	7	6543	6543
12 TO 18 HRS.	50.00	1564	1423	102	214	109	18	659	2526	1746	263	0	233	1114	0	418	170	27	25	200	0	-23	-313	0	0	39	4	3904	6430	3826	-77	6352	0	8	8	6364	6364
06 TO 18 HRS.	50.01	1550	1411	94	201	104	18	723	2550	1712	262	0	235	1131	0	422	161	26	28	200	0	-23	-239	0	0	58	4	3976	6527	3893	-84	6443	0	7	7	6453	6453
18 TO 24 HRS.	50.01	1609	1465	174	220	106	19	533	2516	2029	303	0	244	1151	0	421	196	29	25	198	0	-4	-317	0	0	54	4	4331	6848	4301	-30	6817	0	7	7	6828	6828

**Discomwise Hourly Average Schedule Drawal , Actual Drawal & Over(+)/Under(-) Drawal**  
**Month :- April 2016**

**FIGURES IN MW**

Hrs.	FREQ.	EZONE							CZONE							WZONE							Railway	
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrictd Demand	Unrestrictd Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrictd Demand	Unrestrictd Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrictd Demand	Unrestrictd Demand	Total Sch	Total Drawal
1:00	49.97	2561	2645	84	0	0	2648	2648	2315	2316	1	0	0	2319	2319	2399	2281	-118	0	0	2283	2283	200	224
2:00	49.99	2544	2574	29	0	0	2576	2576	2275	2203	-72	0	0	2204	2204	2358	2201	-156	0	0	2203	2203	200	220
3:00	50.00	2508	2522	14	0	0	2523	2523	2219	2170	-48	0	0	2171	2171	2368	2214	-154	0	0	2215	2215	200	223
4:00	50.00	2466	2480	14	0	0	2481	2481	2179	2136	-43	0	0	2137	2137	2374	2213	-161	0	0	2214	2214	200	221
5:00	49.97	2449	2458	9	0	0	2461	2461	2167	2123	-44	0	0	2125	2125	2407	2256	-151	0	0	2259	2259	200	225
6:00	50.00	2411	2448	37	0	0	2449	2449	2140	2129	-11	0	0	2130	2130	2427	2370	-57	0	0	2371	2371	200	222
7:00	50.04	2404	2437	34	0	0	2438	2438	2120	2154	34	0	0	2154	2154	2717	2734	17	0	0	2734	2734	200	237
8:00	50.01	2387	2314	-72	0	0	2315	2315	2174	2151	-23	0	0	2152	2152	2776	2794	18	0	0	2795	2795	200	233
9:00	49.99	2319	2256	-63	0	0	2257	2257	2149	2113	-36	0	0	2114	2114	2823	2810	-13	0	0	2812	2812	200	233
10:00	50.00	2288	2235	-54	0	0	2236	2236	2108	2043	-65	0	0	2044	2044	2754	2735	-19	0	0	2737	2737	200	242
11:00	50.00	2274	2267	-6	0	0	2269	2269	2045	2016	-29	0	0	2017	2017	2735	2748	13	0	0	2749	2749	200	222
12:00	49.97	2275	2159	-116	0	0	2161	2161	1976	1859	-117	0	0	1860	1860	2645	2590	-55	0	0	2593	2593	200	212
13:00	49.99	2216	2169	-47	0	0	2171	2171	1881	1903	22	0	0	1905	1905	2698	2710	12	0	0	2712	2712	200	203
14:00	49.97	2172	2091	-81	0	0	2093	2093	1921	1921	0	0	0	1923	1923	2696	2674	-21	0	0	2677	2677	200	198
15:00	49.94	2138	2073	-64	0	0	2077	2077	1904	1927	23	0	0	1931	1931	2676	2664	-12	0	0	2669	2669	200	207
16:00	49.97	2135	2064	-71	0	0	2066	2066	1901	1888	-13	0	0	1890	1890	2646	2659	13	0	0	2662	2662	200	225
17:00	49.99	2146	2083	-63	0	0	2085	2085	1928	1904	-25	0	0	1905	1905	2679	2719	40	0	0	2721	2721	200	221
18:00	50.02	2137	1978	-159	0	0	1979	1979	1953	1770	-183	0	0	1771	1771	2548	2393	-155	0	0	2394	2394	200	234
19:00	50.01	2215	2401	186	0	0	2402	2402	1949	2000	51	0	0	2000	2000	2641	2590	-51	0	0	2591	2591	200	240
20:00	49.99	2554	2643	89	0	0	2645	2645	2211	2247	36	0	0	2248	2248	2652	2589	-64	0	0	2591	2591	200	236
21:00	49.95	2612	2636	24	0	0	2641	2641	2300	2243	-58	0	0	2246	2246	2502	2433	-69	0	0	2437	2437	200	230
22:00	50.02	2611	2599	-11	0	0	2600	2600	2294	2210	-84	0	0	2211	2211	2481	2397	-83	0	0	2398	2398	200	237
23:00	49.95	2682	2754	71	0	0	2758	2758	2358	2407	48	0	0	2411	2411	2510	2449	-60	0	0	2453	2453	200	233
24:00	50.00	2705	2693	-11	0	0	2695	2695	2417	2382	-36	0	0	2383	2383	2445	2352	-93	0	0	2353	2353	200	223
<b>Avg.</b>	<b>49.99</b>	<b>2384</b>	<b>2374</b>	<b>-9</b>	<b>0</b>	<b>0</b>	<b>2376</b>	<b>2376</b>	<b>2120</b>	<b>2092</b>	<b>-28</b>	<b>0</b>	<b>0</b>	<b>2094</b>	<b>2094</b>	<b>2582</b>	<b>2524</b>	<b>-58</b>	<b>0</b>	<b>0</b>	<b>2526</b>	<b>2526</b>	<b>200</b>	<b>225</b>
<b>00 TO 06 HRS.</b>	49.99	2490	2521	31	0	0	2523	2523	2216	2179	-36	0	0	2181	2181	2389	2256	-133	0	0	2257	2257	200	223
<b>06 TO 12 HRS.</b>	50.00	2324	2278	-46	0	0	2279	2279	2095	2056	-39	0	0	2057	2057	2742	2735	-6	0	0	2737	2737	200	230
<b>12 TO 18 HRS.</b>	49.98	2157	2076	-81	0	0	2079	2079	1915	1885	-29	0	0	1887	1887	2657	2637	-21	0	0	2639	2639	200	215
<b>06 TO 18 HRS.</b>	49.99	2241	2177	-64	0	0	2179	2179	2005	1971	-34	0	0	1972	1972	2699	2686	-13	0	0	2688	2688	200	222
<b>18 TO 24 HRS.</b>	49.99	2563	2621	58	0	0	2623	2623	2255	2248	-7	0	0	2250	2250	2538	2468	-70	0	0	2470	2470	200	233

**Discomwise Hourly Average Schedule Drawal , Actual Drawal & Over(+)/Under(-) Drawal**  
**Month :- May 2016**

FIGURES IN MW

Hrs.	FREQ.	EZONE							CZONE							WZONE							Railway	
		SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand	SCH	Demand Met	O/U DRL	SCH LS	Unsch LS	Restrict ed Demand	Unrestrict ed Demand	Total Sch	Total Drawal
1:00	50.02	2284	2326	42	0	0	2326	2326	2188	2161	-27	0	7	2168	2168	2331	2203	-129	0	0	2203	2203	197	220
2:00	50.03	2243	2267	24	0	0	2267	2267	2137	2095	-41	0	8	2103	2103	2295	2128	-167	0	0	2129	2129	197	209
3:00	50.03	2195	2218	23	0	0	2218	2218	2089	2065	-24	0	7	2073	2073	2287	2116	-170	0	0	2116	2116	197	214
4:00	50.04	2192	2184	-8	0	0	2184	2184	2080	2034	-46	0	7	2041	2041	2318	2115	-203	0	0	2115	2115	199	213
5:00	50.00	2177	2143	-34	0	0	2144	2144	2059	2026	-34	0	7	2034	2034	2322	2120	-202	0	0	2121	2121	200	217
6:00	50.04	2103	2031	-72	0	0	2031	2031	2017	1983	-34	0	7	1990	1990	2360	2224	-136	0	0	2225	2225	200	219
7:00	50.04	2023	2012	-11	0	0	2012	2012	1962	1973	10	0	5	1978	1978	2535	2413	-122	0	0	2413	2413	200	226
8:00	50.06	1970	1921	-49	0	0	1921	1921	1951	1975	24	0	7	1982	1982	2542	2428	-115	0	0	2428	2428	200	227
9:00	50.01	1966	1886	-79	0	0	1887	1887	1969	1942	-26	0	7	1950	1950	2576	2467	-108	0	0	2468	2468	200	231
10:00	50.01	1974	1909	-65	0	0	1910	1910	1960	1918	-42	0	8	1927	1927	2538	2448	-89	0	0	2449	2449	200	228
11:00	50.00	1952	1942	-9	0	0	1943	1943	1960	1936	-24	0	7	1944	1944	2550	2477	-73	0	0	2478	2478	200	217
12:00	49.98	1996	1927	-70	0	0	1928	1928	1985	1877	-109	0	8	1886	1886	2530	2420	-109	0	0	2422	2422	200	203
13:00	49.99	2002	1957	-46	0	0	1958	1958	1985	1944	-41	0	8	1953	1953	2579	2486	-93	0	0	2487	2487	200	210
14:00	49.98	1995	1922	-73	0	0	1924	1924	1999	1963	-36	0	7	1971	1971	2538	2487	-51	0	0	2489	2489	200	203
15:00	49.96	1991	1895	-96	0	0	1898	1898	1989	1928	-61	0	8	1939	1939	2508	2499	-9	0	0	2503	2503	200	208
16:00	50.01	2012	1843	-169	0	0	1844	1844	1968	1888	-80	0	7	1896	1896	2493	2455	-38	0	0	2456	2456	200	214
17:00	50.03	1963	1738	-225	0	0	1739	1739	1998	1878	-121	0	7	1885	1885	2515	2426	-89	0	0	2426	2426	200	224
18:00	50.05	1857	1596	-261	0	0	1596	1596	1910	1737	-173	0	8	1746	1746	2391	2181	-210	0	0	2181	2181	200	233
19:00	50.01	1840	1838	-2	0	0	1839	1839	1812	1824	12	0	9	1833	1833	2355	2197	-158	0	0	2198	2198	200	238
20:00	49.96	2127	2241	114	0	0	2244	2244	2004	2112	109	0	8	2124	2124	2357	2289	-68	0	0	2292	2292	200	238
21:00	50.00	2238	2297	58	0	0	2298	2298	2118	2124	6	0	6	2131	2131	2333	2224	-109	0	0	2226	2226	197	230
22:00	50.04	2270	2268	-2	0	0	2268	2268	2163	2110	-53	0	7	2117	2117	2366	2239	-127	0	0	2239	2239	197	233
23:00	50.00	2302	2417	114	0	0	2418	2418	2195	2230	35	0	6	2236	2236	2401	2296	-105	0	0	2297	2297	197	228
24:00	50.03	2345	2377	32	0	0	2377	2377	2263	2205	-59	0	6	2211	2211	2393	2230	-164	0	0	2230	2230	197	223
<b>Avg.</b>	<b>50.01</b>	<b>2084</b>	<b>2048</b>	<b>-36</b>	<b>0</b>	<b>0</b>	<b>2049</b>	<b>2049</b>	<b>2032</b>	<b>1997</b>	<b>-35</b>	<b>0</b>	<b>7</b>	<b>2005</b>	<b>2005</b>	<b>2434</b>	<b>2315</b>	<b>-119</b>	<b>0</b>	<b>0</b>	<b>2316</b>	<b>2316</b>	<b>199</b>	<b>221</b>
<b>00 TO 06 HRS.</b>	50.03	2199	2195	-4	0	0	2195	2195	2095	2061	-34	0	7	2068	2068	2319	2151	-168	0	0	2151	2151	198	215
<b>06 TO 12 HRS.</b>	50.02	1980	1933	-47	0	0	1934	1934	1965	1937	-28	0	7	1944	1944	2545	2442	-103	0	0	2443	2443	200	222
<b>12 TO 18 HRS.</b>	50.00	1970	1825	-145	0	0	1826	1826	1975	1890	-85	0	8	1898	1898	2504	2422	-82	0	0	2424	2424	200	215
<b>06 TO 18 HRS.</b>	50.01	1975	1879	-96	0	0	1880	1880	1970	1913	-56	0	7	1921	1921	2525	2432	-92	0	0	2433	2433	200	219
<b>18 TO 24 HRS.</b>	50.01	2187	2240	53	0	0	2241	2241	2092	2101	8	0	7	2109	2109	2367	2246	-122	0	0	2247	2247	198	232



**System Disturbance / System Incidence :**

**1. System Disturbance on 05.04.2016 at 220 KV S/s Bina:** On dated 05.04.2016 at around 05:35 Hrs. M.P system was normal and frequency of National Grid was 50.01Hz. At 05:41 Hrs. 220 KV 'B'-Phase CT of 220 KV Bina Interconnector – I burst at 220 KV S/s Bina causing 220 KV Bus fault. Consequently 220 KV Bus Bar Protection operated at 220 KV S/s Bina resulting in tripping of all connected 220 KV feeders and 220/132 KV X'mer at 220 KV S/s Bina which are as follows:-

- 220 KV Bina Interconnector – II.
- 220 KV Bina – Ganjbasoda Ckt.
- 220 KV Bina – Vidisha Ckt.
- 220/132 KV, 160 MVA (TELK) X'mer – I.
- 220/132 KV, 160 MVA (BHEL) X'mer – II.
- 220/132 KV, 3X40 MVA (BHEL) X'mer – III.

Due to the above tripping there was no load loss in any area. There was no generation loss and System was normalized in due course of time.

**2. System Disturbance on 06.04.2016 at STPS:** On dated 06.04.2016 at around 20:55 Hrs. M.P system was normal and frequency of National Grid was 49.86Hz. Prior to fault on 06.04.2016, STPS unit No # 9 tripped at 19:50 Hrs. due to Generator CB air pressure very low. Remaining all 400 KV and 220 KV lines were in charged condition and normally loaded and STPS Unit # 7, 8, 10 & 11 were On Bar. At around, 21:00 Hrs. while synchronizing Unit # 9 at STPS, relay sensed REF protection and trip command got initiated to circuit breaker. However, the C.B failed to trip and LBB protection got initiated. Consequently Bus Bar Protection of 400 KV Main Bus – I at STPS operated, resulting in tripping of following feeders and transformers:-

- 400 KV Sarni – ISP Ckt.
- 400 KV STPS – Seoni (PGCIL) Ckt.
- 400 KV STPS – Astha Ckt – I.
- Bus Reactor – I.
- STPS Unit # 10.
- STPS Unit # 11.
- Stn Transformer – 11

Due to the above tripping there was no load loss in any area. There was generation loss of about 457 MW, 2576.8 MWH and System was normalized in due course of time.

**3. System Disturbance on 07.04.2016 at 220 KV S/s Malanpur:** On dated 07.04.2016 at around 22:25 Hrs. M.P system was normal and frequency of National Grid was 50.04Hz. Prior to fault 132 KV Motijheel – Banmore Ckt – II was open and 220 KV Malanpur – Gwalior (PGCIL) Ckt – I was charged through 220 KV Bus Coupler Breaker – II at 220 KV S/s Malanpur. At 22:30 Hrs. 220 KV 'R'- Phase CT of 220 KV Malanpur – Gwalior (PGCIL) Ckt – I (which was charged through Bus Couplat Breaker – II) burst at 220 KV S/s Malanpur resulting in 220 KV Bus Fault and consequently 220 KV Bus Bar Protection Operated at 220 KV S/s Malanpur which resulted in tripping of following feeders and transformers:-

220 KV Malanpur – Gwalior (PGCIL) Ckt – I.  
220 KV Malanpur – Gwalior (PGCIL) Ckt – II.  
220 KV Malanpur – Auraiya Ckt.  
220 KV Malanpur – Mehgaon Ckt.  
220/132 KV, 160 MVA (BHEL) X'mer – I at 220 KV S/s Malanpur.  
220/132 KV, 160 MVA (CGL) X'mer – II at 220 KV S/s Malanpur.  
132 KV Banmore – Motijheel Ckt – I

Due to the above tripping interruption occurred at 220 KV S/s Malanpur, 132 KV S/s Ambha, 132 KV S/s Banmore, 132 KV S/s Morena, 132 KV S/s Morar, 132 KV S/s Badgaon, 132 KV Railway Traction Hetampur at 132 KV S/s Banmore – I & II and there was load loss of about 179MW, 74.98MWH. There was no generation loss and System was normalized in due course of time.

- 4. System Disturbance on 10.04.2016 at 220 KV S/s Maihar:** On dated 10.04.2016 at around 20:00 Hrs. M.P system was normal and frequency of National Grid was 50.01 Hz. Prior to fault 132 Kv Satna – Maihar Ckt and 132 KV Amarpatan – Jhinna Ckt was open for load management and 220 KV Maihar – Satna (PGCIL) Ckt tripped at 18:35 Hrs. due to pole discrepancy at 220 KV S/s Maihar end. At around 20:02 Hrs. after attending the fault/rectification of breaker of 220 KV Maihar – Satna(PGCIL) Ckt at 220 KV S/s Maihar end the Ckt was test charged but the feeder did not hold and again tripped due to pole discrepancy, consequently following feeders also tripped due to jerk:-

220 KV Katni – Maihar Ckt.  
132 KV Maihar – Kymore Ckt.

Due to the above tripping interruption occurred at 220 KV S/s Maihar, 132 KV Amarpatan, 132 KV Maihar cement, 132 KV Reliance cement & 132 KV KJS cement and there was load loss of about 119 MW, 23.8 MWH. There was no generation loss and System was normalized in due course of time.

- 5. System Disturbance on 15.04.2016 at 220 KV S/s Rewa & Sidhi :** On dated 15.04.2016 at around 09:30 Hrs. M.P system was normal and frequency of National Grid was 49.88 Hz. At around 09:41Hrs. 220 KV Rewa – Birsinghpur (SGTPS) ckt tripped on transient fault from SGTPS end only. Thereafter complete load of 220 KV S/s Rewa shifted on 220 KV Sidhi – Rewa Ckt and 220/132 KV, 160 MVA X'mer at 220 KV S/s Sidhi, resulting in overloading and tripping of

220 KV Rewa – Sidhi Ckt.  
220/132 KV, 160 MVA X'mer at 220 KV S/s Sidhi.

Due to the above tripping interruption occurred at 220 KV S/s Rewa, 220 KV S/s Sidhi, 132 KV Rampur Naiken, 132 KV S/s Beohari, 132 KV S/s Sidhi, 132 KV S/s Deosar, 132 KV S/s Mauganj, 132 KV S/s Katra, 132 KV S/s Mangawan, 132 KV S/s Sagar and there was load loss of about 233MW, 58.25 MWH. There was no generation loss and System was normalized in due course of time.

- 6. System Disturbance on 18.05.2016 at ISP HPS:** On dated 18.05.2016 at around 02:15 Hrs. M.P system was normal and frequency of National Grid was 50.03Hz. Prior to fault Unit No # 1 & Unit No. # 8 of ISP HPS were on Bar. At around 02:19 Hrs. 400 KV 'R'- Phase CVT of 400 KV Main Bus – B at ISP Burst creating bus fault at 400 KV Main Bus – B at ISP. 400 KV Bus Bar Protection operated resulting in tripping of following connected feeders and unit at ISP HPS:-

400 KV ISP – Nagda Ckt.  
400 KV ISP – Sarni Ckt.  
400 KV ISP – Indore Ckt – I.  
400 KV ISP – Indore Ckt – II.  
ISP HPS Unit No. # 1.  
ISP HPS Unit No. # 8.

Due to the above tripping there was no load loss in any area. There was generation loss of about 215 MW or 361.16 MWH and System was normalized in due course of time.

**7. System Disturbance on 18.05.2016 at 220 KV S/s Birsinghpur :** On dated 18.05.2016 at around 14:50 Hrs. M.P system was normal and frequency of National Grid was 49.94Hz. Prior to fault 220 KV Bar Protection, 220 KV Bus Coupler Breaker and 220 KV Bus Tie Breaker at 220 KV S/s Birsinghpur was out of service, hence 200 KV Main Bus – I and 220 KV Main Bus – II was made as Rigid Bus by closing the Main Bus – I isolator and Main Bus – II isolator of 220 KV Birsinghpur – Jabalpur Ckt – I at 220 KV S/s Birsinghpur. At around 14:56 Hrs. on Date 18.05.2016, it is suspected that a transient fault occurred on 220 KV Birsinghpur – Jabalpur Ckt – II close to or at 220 KV S/s Birsinghpur and Ckt tripped from 220 KV S/s Jabalpur only, as the protection cable of the Ckt was out due to theft (as informed by A.E S/s telephonically) at 220 KV S/s Birsinghpur, hence fault persisted and Bus fault occurred at 220 KV S/s Birsinghpur resulting in tripping of all connected feeders from Far end as follows:-

220 KV Jabalpur – Birsinghpur Ckt – I.  
220 KV Jabalpur – Birsinghpur Ckt – II.  
220 KV Birsinghpur Interconnectot – II, III & IV.  
220 KV Railway Traction-I & II.

Due to the above tripping interruption occurred at 220 KV S/s Birsinghpur and 132 KV S/s Umaria and there was load loss of about 37MW or 21.58MWH. There was no generation loss and System was normalized in due course of time.

**8. System Disturbance on 18.05.2016 at 400 KV S/s Chhegaon :** On dated 18.05.2016 at around 17:15 Hrs. M.P system was normal and frequency of National Grid was 49.94Hz. At around 17:20 Hrs., 'Y'-Phase CT of 220 KV Chhegaon – Napanagar Ckt burst at 400 KV S/s Chhegaon resulting in 220 KV bus fault. Consequently bus bar protection of 220 KV Main Bus – I operated at 400 KV S/s Chhegaon and resulted in tripping of following feeders and transformers:-

220 KV Chhegaon – Omkareshwar Ckt.  
220 KV Chhegaon – Napanagra Ckt.  
220 KV Chhegaon – Khandwa Ckt – I.  
220 KV Chhegaon – Nimrani Ckt – I.  
220 KV Chhegaon – SSTPS Ckt – I.  
220/132 KV, 160 MVA X'mer – I, at 400 KV S/s Chhegaon.

220 Incomer of 400/220 KV, 315 MVA X'mer at 400 KV S/s Chhegaon.

Due to above tripping there was no interruption in any are and there was no load loss. There was no generation loss and system was normalized in due course of time.

**9. System Disturbance on 20.05.2016 at 220 KV S/s Mahalgaon:** On dated 20.05.2016 at around 05:00 Hrs. M.P system was normal and frequency of National Grid was 50.03Hz. Prior to fault 132 KV Motijheel – Banmore Ckt – II, 132 KV Jora – Sabalgarh Ckt, 220 KV Bina – Mahalgaon Ckt and 220 KV Bina – Datia was open for load management. At 08:15 Hrs., ‘Y’-Phase CT of 220 KV Bina – Mahalgaon Ckt (which was ideally charged from 220 KV S/s Mahalgaon end) burst at 220 KV S/s Mahalgaon, resulting in 220 KV Bus Fault and 220 KV Bus Bar Protection operated at 220 KV S/s Mahalgaon. Consequently following feeders and X’mer tripped:-

220 KV Mahalgaon – Bina Ckt.

220 KV Mahagaon – Datiya Ckt.

220 KV Mahalgaon – Gwalior (PGCIL) – I.

220 KV Mahalgaon – Gwalior (PGCIL) – II.

220/132 KV, 160 MVA X’mer – I & II at 220 KV Mahalgaon.

220/132 KV, 120 MVA X’mer – III at 220 KV Mahalgaon

Due to above tripping there was no interruption in any area and there was no load loss.

There was no generation loss and System was normalized in due course of time.

**10. System Disturbance on 23.05.2016 at Tons HPS :** On dated 23.05.2016 at around 14:20 Hrs. M.P system was normal and frequency of National Grid was 50.06 Hz. Prior to fault Tons Unit # 1 was on bar and 220 KV Tons – Kotar Ckt tripped at 14:22 Hrs. as earth was broken at Loc. No. 49-56 and was declared faulty. At around 14:50Hrs. Lighting cable of tower lighting of switchyard fallen on 220 KV Main Bus – 2 due to heavy storm and rain. Consequently 220 KV Bus fault occurred at Tons HPS and following feeders and transformer tripped:-

221 KV Tons – Rewa Ckt – I & II.

220 KV Tons – Satna Ckt.

Unit No. # 1 at Tons HPS.

Due to above tripping there was interruption at Tons HPS but there was no load loss. There was generation loss of about 105 MW and System was normalized in due course of time.

**11. System Disturbance on 25.05.2016 at 220 KV S/s Maihar:** On dated 25.05.2016 at around 12:20 Hrs. M.P system was normal and frequency of National Grid was 49.98 Hz. Prior to fault 220 KV Maihar – Satna (PGCIL) Ckt, 132 Kv Satna – Maihar Ckt, 132 KV Kymore – Satna Ckt and 132 KV Amarpatan – Jhinna Ckt was open for load management. At 12:23 Hrs., 220 KV Katni – Maihar Ckt tripped on transient fault due to adverse/bad weather. Consequently complete load of 220 KV S/s Maihar was fed through/shifted on 132 KV Maihar – Kymore Ckt. thereafter at 12:25 Hrs. 132 KV Maihar – Kymore Ckt also tripped due to disk puncher at tower Loc. No.17. Further due to heavy rain & storm 132 KV Katni – Kymore Ckt – I & II tripped at 12:32 Hrs. Due to the above tripping there was interruption at 220 KV S/s Maihar, 132 KV S/s Amarpatan & 132 KV S/s Kymore and there was load loss of about 56.8 MW, 13.41MWH. There was no generation loss and System was normalized in due course of time.

**12. System Disturbance on 25.05.2016 at Tons HPS:** On dated 25.05.2016 at around 11:50 Hrs. M.P system was normal and frequency of National Grid was 50.05 Hz. Prior to fault 220 KV Birsinghpur – Jabalpur Ckt – I & II, 220 KV SGTPS – Amarkantak Ckt – III, 220 KV Sidhi

– Amarkanta Ckt & 220 KV SGTPS – Rewa Ckt were faulty, 132 KV Amarpatan – Jhinna Ckt was open for load management and 132 KV Rewa – Rampur Bhagelan & 220 KV Main Bus – II was under shut down. After the above arrangement complete load of 220 KV S/s Rewa & 220 KV S/s Sidhi was being fed radially through 220 KV Tons – Rewa Ckt – I & 220 KV Tons – Rewas (tap Sirmour) Ckt – II. At 11:59 Hrs. on 25.05.2016, transient flasover occurred in B-Phase wave trap of 220 KV Kotar – Satna Ckt at 220 KV S/s Kotar due to heavy storm & rain, resulting in tripping of 220 KV Satna – Kotar Ckt & 220 KV Tons – Kotar Ckt from both ends respectively. Simultaneously in 220 KV Bus Bar Protection operated at Tons HPS resulting in tripping of all 220 KV connected feeders and transformers as below:-

220 KV Tons – Kotar Ckt.

220KV Tons – Satna Ckt.

220 KV Tons – Rewa Ckt – I.

220 KV Tons – Rewa Ckt – II (tap Sirmour).

Due to the above tripping interruption occurred at Tons HPS, 220 KV S/s Rewa, 20 KV S/s Sidhi, 220 KV S/s Sirmour, 132 KV S/s Rewa, 132 KV S/s Sidhi, 132 KV S/s Sagra, 132 KV S/s Katra, 132 KV S/s Mangawan, 132 KV S/s Mauganj, 132 KV S/s Deosar, 132 KV Beohari, 132 KV S/s Rampur Naiken, Jhinna HPS, Silpara HPS & Devlond HPS and there was load loss of about 128MW & 85.33MWH. There was no generation loss and System was normalized in due course of time.

**LIST OF RTUS WHERE TELEMETRY OF RENEWABLE FEEDERS IS TO BE INTEGRATED**

Sr. No	Station Name	Feeders are to be connected
1	220 kV S/s Badod	132 kV ILFS feeder.
2	220Kv Shajapur	220KV Inox feeders 132KV Gamesha feeders
3	220 kV S/s Daloda	<b>220 kV DJ energy I</b> : Correct data is not showing (37 MW against 67 MW of field value) <b>220 kV DJ energy II</b> : Telemetry data to be through. 33 kV Suzlon I & II are to be connected for telemetry. 33 kV Wind world I & II are to be connected for telemetry.
4	220 kV S/s Dewas	33 kV Jamgodarani I & II are to be connected for telemetry. 132 kV Gamesh Fatanpur I & II are to be connected for telemetry.
5	132 kV S/s Ghonsla	33 kV Kshema Power I & II are to be connected for telemetry.
6	220kV S/s Rajgarh(Dhar)	220 kV Clean Wind is to be connected for telemetry.
7	132 kV S/s Kukshi	132 kV Alfa solar, all readiness has been done except PLCC link to be through.

<b>SATPURA T P S</b>				
1	GEN 6 GT	MW/MVAR	76/4	0
2	GEN 7 GT	MW/MVAR	152/4	0
3	GEN 6 GT	CB	FAULTY	OPEN
4	GEN 7 GT	CB	FAULTY	OPEN
5	220 KV TRB	CB	FAULTY	CLOSE
<b>A T P S T P S</b>				
1	220 KV SGTPS 3	CB	TRANSIT	CLOSE
<b>SINGHAJI S T P S</b>				
1	400/220 KV TR 1 & 2 (315MVA)	OLTC	N/C	
<b>S G T P S</b>				
1	220 KV PANAGAR	CB	FAULTY	CLOSE
<b>RAJGHAT H P S RTU OUT</b>				
<b>DEOLOAN HPS RTU OUT DUE TO COMM LINK PROBLEM</b>				
<b>TONS H P S</b>				
1	220 KV SIRMORE	CB	FAULTY	CLOSE
2	GEN 3	CB	TRANSIT	CLOSE
<b>GANDHISAGAR H P S</b>				
1	132KV BC	CB	FAULTY	CLOSE
2	132/33 TR	CB	OPEN	CLOSE

**TELEMETRY DISCRIPIENCY**

<b>ISP H P S</b>				
1	GEN 7	MVAR	N/C	

## DATA OUT FROM LONG TIME

1 SAGAR 220 KV S/S

2 MORWA 132 KV S/S

3 SIDHI 220 KV S/S

### LIST OF TELEMETRY DISCRIPIENCY AND NOT CONNECTED PARAMETER

Sr.no.	DESCRIPTION	Status	telemetry value at SLDC	actual value at site
<b>BIRSINGHPUR 220 KV S/S</b>				
1	220 KV INTERCONNECTOR 1	MW/MVAR	N/C	115/15
<b>SATNA220 KV S/S</b>				
1	220 KV KOTOR	CB	FAULTY	CLOSE
<b>NARSINGHPUR 220 KV S/S</b>				
1	220/132 TR 2	CB	FAULTY	CLOSE
2	220 KV SUKHA 1 & 2	CB	FAULTY	CLOSE
3	220 KV JBP 1 ,2	CB	FAULTY	CLOSE
4	133/32 KV TR 2	CB,MW/MVAR/OLTC	N/A	PROCESSES
5	132 KV BARMAN 2	CB,MW/MVAR	N/A	CONNECTION
6	220 KV PIPARIA	CB	FAULTY	CLOSE
<b>BINA 400 KV S/S</b>				
1	400/200/33 KV TERTIARY REACTOR 1 &	MVAR	N/A	
<b>DAMOH 220 KV S/S</b>				
2	220 KV PGCIL 2	CB	FAULTY	CLOSE
<b>TIKAMGRAH 220 KV S/S</b>				
1	220 KV BUS TIE	CB	FAULTY	CLOSE
3	132 KV DIGORA	MW/MVAR	N/A	
4	220 /132 KV TR 2	MVAR	N/A	
5	132/33 KV TR 2	MW /MVAR /CB/OLT	N/A	
<b>SIDHI 220 KV S/S</b>				
2	220 KV REWA	MW/MVAR	N/C	
3	220 KV HINDALCO	MW/MVAR	N/C	
<b>REWA 220 KV S/S</b>				
1	132 KV JP NIGRI	CB/MW/MVAR	N/C	PROCESSES CONNECTION REQUIRED
<b>KOTAR 220 KV S/S</b>				
1	220 KV TONS PH	MW /MVAR	N/C	50 /5
				Annexure-II(A)
<b>ANUPPUR 220 KV S/S</b>				
1	132 KV KOTMA	CB	N/A	
2	220/132 KV TR 2 (160 MVA) PRI & SEC	CB	N/A	CLOSE
3	132 KV SHAHDOL	CB ,MW,MVAR	N/A	PROCESSES
4	132 KV KOTMA 2	CB ,MW,MVAR	N/A	CONNECTION
<b>PANDURNA 220 KV S/S</b>				
1	220 KV SATPURA T P S	CB /MW/MVAR	N/C	
<b>BINA 220 KV S/S</b>				
1	132 KV GANJBASODA	CB	FAULTY	
2	220/132 KV TR 3 PRI	CB	FAULTY	



<b>CHINDWARA 220 KV S/S</b>				
1	220 /132 KV TR 1	MW/MVAR	0	60/15
2	220 /132 TR 1 SEC	CB	FAULTY	CLOSE
3	220 KV PGCIL 1	MW/MVAR	N/C	75/10
4	220 /132 KV TR 2	MW/MVAR	40/10	60/15
5	132 KV BUS	VOLTAGE/FREQ	N/C	
3	132/33 kv TR 63 MVA	CB /MW/MVAR/OLTC	N/A	PROCESSES CONNECTION REQUIRED
<b>SEONI 132 KV S/S</b>				
1	132 KV BALAGHAT 1	CB	FAULTY	CLOSE
2	132 KV PENCH 2	CB	FAULTY	CLOSE
3	132/33 TR 1 & 2	CB	FAULTY	CLOSE
4	132 KV I /C 1 & 2	CB	FAULTY	CLOSE
5	132 KV MANDLA	CB	FAULTY	CLOSE
6	132 KV LAKHNADON	CB	FAULTY	CLOSE
7	132 KV BUS COUPLER	CB	FAULTY	CLOSE
<b>JABALPUR 220 KV S/S</b>				
1	132 KV VFJ 1	CB	FAULTY	CLOSE
<b>KOTMA 132 KV S/S</b>				
1	132 KV ANUPPUR 2	CB /MW/MVAR	N/A	
<b>CHICHLI 220 KV S/S</b>				
<b>ALL CB DATA NOT AVIALABLE</b>				

## Telemetry Discrepancies -

Element	Parameter	Telemetered / Actual	Remarks
<b>1. Rajgarh 220 -</b>			
1. 132Kv Raghogarh	Cb, Mw, Mvar	Nc	Process connection required.
2. 132Kv Maksudangarh	Cb, Mw, Mvar	Nc	Process connection required.
3. 220/132Kv Xmer-2	Cb	Nc	Process connection required.
4. 220/132Kv Xmer-2	Cb, Mw, Mvar	Nc	Process connection required.
5. 220Kv Main Bus-1&2	Volt	Nc	Process connection required.
<b>2. Ashta 400 -</b>			
1. 400Kv Bus	Freq	Na	
<b>3. Sabalgarh 220 -</b>			
1. 132Kv Vijaypur	Cb	Faulty	
<b>4. Handia 220 -</b>			
1. 220/132Kv Xmer-2	Mw	Nc	
2. 220/132Kv Xmer-2, Pri	Cb	Faulty / Close	
3. 220/132Kv Xmer-2, Sec	Cb	Faulty / Close	
4. 132Kv Nasrullaganj	Cb, Mw, Mvar	Nc	Process connection required.
5. 132Kv Satwas	Cb, Mw, Mvar	Nc	Process connection required.
6. 132Kv Gopalpur	Cb, Mw, Mvar	Nc	Process connection required.
7. 132Kv Sultanpur	Cb, Mw, Mvar	Nc	Process connection required.
8. 220Kv Itarsi	Cb	Faulty / Close	
9. 220Kv Barwaha	Cb	Faulty / Close	
<b>5. Vidisha 220 -</b>			
1. 220/132Kv Xmer-2, Sec	Cb	Nc	Process connection required.
2. 132Kv Sanchi Rly-1	Mw, Mvar	Nc	
<b>6. Guna 220 -</b>			
1. 132/33Kv Xmer-1	Cb	Faulty / Close	
2. 132Kv Bus Coupler	Cb	Faulty	
<b>7. Gwalior 220 -</b>			
1. 132Kv Bus Coupler	Cb	Faulty	
2. 132Kv Dabra	Mw	13/28	
<b>8. Bhopal 400 -</b>			
1. 400Kv 80Mvar Reactor	Cb	Nc	
<b>9. Sarni 220 -</b>			
1. 220Kv Bus Transfer	Cb	Faulty	
2. 220Kv Sarni PH-1	Cb	Faulty / Close	
3. 220Kv Betul	Cb, Mw, Mvar	Nc	
4. 220Kv Sarni PH-2	Cb, Mw, Mvar	Nc	
5. 220 Kv Pandhurna	Cb, Mw, Mvar	Nc	CPU database updated. Database in Alstom system to be updated.
<b>10. Bairagarh 220 -</b>			
1. 220Kv Main Bus-2	Volt	Nc	
2. 132Kv Bhopal-2	Cb	Faulty	
3. 220/132Kv Xmer-1, Sec	Cb	Faulty	

4. 220/132Kv Xmer-2, Pri	Cb	Nc	Process connection required.
5. 220/132Kv Xmer-2, Sec	Cb, Mw, Mvar	Nc	Process connection required.
6. 132/33Kv Xmer-4	Cb, Mw, Mvar	Nc	Process connection required.
<b>11. Ashta 132 -</b>			
1. 132/33Kv Xmer-1	Cb	Open / Close	
2. 132Kv Interconnector-2	Cb	Faulty	
3. 132Kv Sehore	Cb	Faulty	
<b>12. Itarsi 220 -</b>			
1. 132/33Kv Xmer-4			
<b>13. Piparia 220 -</b>			
1. 220Kv Chichli	Cb	Faulty / Close	
2. 220/132Kv Xmer-2, Pri	Cb	Nc	Process connection required.
3. 220/132Kv Xmer-2, Sec	Cb, Mw, Mvar	Nc	Process connection required.
<b>14. Harda 132 -</b>			
1. All Cb's except Handia-1	Cb	Faulty / Close	
<b>15. Mandideep 220 -</b>			
1. 132Kv P&G	Cb	Nc	Process connection required.
<b>16. Malanpur 220 -</b>			
1. 220Kv Main Bus	Freq	Na	
2. 132Kv Banmore-2	Cb	Faulty / Close	
3. 132Kv Main Bus	Volt	112 / 130	
4. 132/33Kv Xmer-2	Mvar	Na	
5. 132Kv Morar	Mw, Mvar	Na	
6. 220/132Kv Xmer-2, Sec	Mw, Mvar	Na	
<b>17. Pichhore 132 -</b>			
1. 132Kv Chanderi	Cb	Open / Close	
2. 132Kv Datia	Cb	Faulty / Close	
3. 132Kv Karera	Cb	Open / Close	
4. 132/33Kv Xmer-3	Cb	Faulty / Close	
<b>18. Satpura TPS -</b>			
1. Gen-6 GT	Cb	Faulty	

Nc - Not connected, Na - Not available

**LIST OF TELEMETRY DISCRIPIENCY AND NOT CONNECTED PARAMETER**

Sr.no.	DESCRIPTION	Status	telemetry value at SLDC	actual value at site
<b>JULWANIA 400 KV S/S</b>				
1	400KV BUS-2	VOLTAGE	N/C	
2	400KV BUS-2	FREQUENCY	N/C	
3	220/132 TRF-2	MW	N/C	
4	220/132 TRF-2	MVAR	N/C	
5	220/132 TRF-2	OLTC	N/C	
5	220/132 TRF-2	CB	N/C	
6	220KV BUS-2	VOLTAGE	N/C	
7	220KV BUS-2	FREQUENCY	N/C	
<b>JULWANIA 220 KV S/S</b>				
1	220/132 KV TR	OLTC	N/A	
2	132/33 KV TR	OLTC	N/A	PROCESSES CONNECTION REQUIRED
3	132/33 TRF-1 40MVA	CB	FAULTY	CLOSE
4	132KV NIMRANI-1	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>BARWAHA 220 KV S/S</b>				
1	220/132 TR 2 4*40 MVA	MW	Direction wrong	Need to be reverse from field
2	220/132KV TRF1	OLTC	N/C	
3	220/132KV TRF2	OLTC	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>NEPANAGAR 220 KV S/S</b>				
1	220 KV BUS COUPLER	CB	FAULTY	CLOSE
2	220/132 KV TR 3X40MVA	CB	FAULTY	CLOSE
3	220/132 KV TR 160 MVA (SEC)	CB	FAULTY	CLOSE
4	220KV BUSCOUPLER	CB	FAULTY	CLOSE
5	132/33 KV 12.5 MVA XMER	CB,MW,MVAR	N/C	
6	132KV BUS	VOLTAGE	N/C	
7	132KV BUS	FREQUENCY	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>DEWAS 220 KV S/S</b>				
NOTE:- CPU FAULTY.				
<b>CHEGAON 400 KV S/S</b>				
1	400KV BUS COUPLER	CB	FAULTY	CLOSE
3	400 KV REACTOR	CB	FAULTY	
3	400/220KV XMER	OLTC	N/C	
3	220/132KV XMER-1	OLTC	N/C	
3	220/132KV XMER-2	OLTC	N/C	
3	132/33KV XMER	MW,MVAR,OLTC	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>NEEMUCH 220 KV S/S</b>				
1	132 KV I/C 2	MW	N/C	10
2	132KV BUS	FREQUENCY	N/C	
2	220/132KV TRF-1	OLTC	N/C	
2	220/132KV TRF-2	OLTC	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>SHUJALPUR 220 KV S/S</b>				
1	132 KV KURAWAR	CB	FAULTY	CLOSE
2	220KV BUS COUPLER	CB	FAULTY	CLOSE
3	132KV CAP BANK	CB	FAULTY	CLOSE
2	132KV BUS	FREQUENCY	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				

<b>BADOD 220 KV S/S</b>				
1	220/132 KV TR (160 MVA) 2 PRIMAR	CB	N/A	CLOSE
2	132 KV IFLS	MW,MVAR,CB	N/A	
3	220/132 KV TR (160 MVA) 2 SEC	CB	N/A	CLOSE
4	220KV BUS 1	VOLTAGE	100	223
5	220KV BUS 1	FREQUENCY	0	49.9
6	220KV BUS 2	VOLTAGE	100	221
7	220KV BUS 2	FREQUENCY	0	49.9
8	132KV BUS	VOLTAGE	59.9	34
9	132KV BUS	FREQUENCY	45	49.97
NOTE:-CB OF ALL FEEDERS ARE NOT COMING				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>NAGDA 220 KV S/S</b>				
1	132 KV BUS COUPLER	CB	FAULTY	CLOSE
2	132 KV GRASIM	CB	FAULTY	CLOSE
3	132 KV CAP BANK	MVAR	N/C	
4	132KV BUS	FREQUENCY	N/C	
4	132KVMAHIDPUR-2	MW,MVAR	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>NAGDA 400 KV S/S</b>				
1	400/220 ICT-1	TIE CB	FAULTY	CLOSE
2	220KV BUS-2	FREQUENCY	N/C	
<b>SHAJAPUR 220 KV S/S</b>				
1	132 KV SIDTUBE	CB /MW/MVAR	N/A	
2	132 KV INOX CKT (RE)	CB /MW/MVAR	N/A	
3	220KV ASTHA 1	CB	FAULTY	CLOSE
4	220KV ASTHA 2	CB	FAULTY	CLOSE
5	220KV BUS COUPLER	CB	FAULTY	CLOSE
6	220KV BUS 1	KV,HZ	N/A	
7	132KV BUS 1	KV,HZ	N/A	
8	ALL BREAKERS OF 132 SIDE ARE FAULTY EXCEPT 220/132 KV X-MAR II (HV DIDE)			
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>INDORE EAST 220 KV S/S</b>				
1	220KV INDORE	CB	FAULTY	CLOSE
2	220KV BUSCOUPLER	CB	FAULTY	CLOSE
<b>NIMRANI 220 KV S/S</b>				
1	220/132 TR 1 & 2	OLTC	N/A	
2	132/33 TR	OLTC	N/A	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>RAJGRAH (DHAR) 220 KV S/S</b>				
1	220/132 KV TR 2 SEC	CB	FAULTY	CLOSE
2	220KV BUSTIE	CB	FAULTY	CLOSE
3	220KV BUS COUPLER	CB	FAULTY	CLOSE
4	132 KV BUS COUPLER	CB	FAULTY	CLOSE
5	132KV JHABUA	CB	FAULTY	CLOSE
6	220/132 TR 1 & 2	OLTC	N/A	
1	220KV BUS-1	FREQUENCY	N/C	
2	220KV BUS-2	VOLTAGE	N/C	
3	220KV BUS-2	FREQUENCY	N/C	
6	220/132KV TRF-1 SECONDARY SIDE	CB	FAULTY	CLOSE
7	220/132KV TRF-1 SECONDARY SIDE	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>RATLAM 220 KV S/S</b>				
1	220 /132 KV TR 3	MW/MVAR	N/A	
2	132KV KACHROD	CB	FAULTY	CLOSE
<b>PITAMPUR 220 KV S/S</b>				
1	220 KV MAHESHWAR 2	CB	FAULTY	OPEN
2	220/132 TR1	OLTC	N/C	
3	132/33 TR3	OLTC	N/C	

4	220/132 TR3	MW,MVAR,OLTC	N/C	
5	132KV CAP BANK	MVAR	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>BADNAGAR 220KV S/S</b>				
1	220/132KV XMER-3	MW	N/C	
2	220/132KV XMER-3	MVAR	N/C	
3	220/132KV XMER-3	OLTC	N/C	
4	132/33KV TRF	CB	FAULTY	CLOSE
NOTE:-ALL SOE DATA NEED TO BE VERIFIED.				
<b>INDORE SZ 220KV S/S</b>				
1	220/132 TR1 & TR2	OLTC	N/C	
2	132KV BUS-1	FREQUENCY	N/C	
3	132KV BUS-2	FREQUENCY	N/C	
4	132KV BUS COUPLER	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
<b>INDORE NZ (JETPURA) 220KV S/S</b>				
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				

<b>BHANPURA 220KV S/S</b>				
1	220KV BUS	FREQUENCY	100	49.99
2	132KV BUS COUPLER	CB	FAULTY	
3	132KV FDR-1	CB	FAULTY	
4	132KV FDR-1	MVAR	N/C	
5	132KV FDR-1	MW	N/C	
5	132KV BUS	VOLTAGE	N/C	
5	132KV BUS	FREQUENCY	N/C	
NOTE:-CB OF ALL FEEDERS ARE FAULTY				

<b>DALODA 220KV S/S</b>				
1	220KV DJ ENERGY -2	MW	NOT COMING	

<b>INDORE CHAMBAL 132 KV S/S</b>				
1	132KV INDNZ-1	MW	24	-24
2	132KV INDNZ-1	MVAR	7	-7
3	132KV INDNZ-2	MW	21	-21
4	132KV INDNZ-2	MVAR	7	-7
5	13233KV TRF2	MW	N/C	
6	13233KV TRF2	MVAR	N/C	
7	132KV BUS	FREQUENCY	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				

<b>GANDHISAGAR HPS</b>				
1	132/33KV TRF1	CB	OPEN	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				

<b>INDORE 400KV SS</b>				
1	400/220KV ICT-2	CB	OPEN	CLOSE
2	220KV PITAMPUR	MW	N/C	
3	220KV PITAMPUR	MVAR	N/C	
4	220KV BUS-2	FREQUENCY	N/C	
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				

<b>OMKARESHWER HPS</b>				
1	132KV MAKSI	CB	OPEN	CLOSE
2	220KV BUS 2	FREQUENCY	N/C	
3	132KV BUS 2	FREQUENCY	N/C	
4	132KV BUSTIE	CB	FAULTY	CLOSE
SOE DATA NOT RECEIVED CONNECTIONS FOR ALL FEDEERS HAVE TO BE VERIFIED				
NOTE:-CB OF ALL FEEDERS ARE NOT COMING				