

## **ITEM NO. 08: AVAILABILITY BASED TARIFF (ABT) RELATED ISSUES**

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

1. SLDC has already requested CE(T&C) office in previous OCCMs to conduct testing / calibration of meters installed at the interface points under their jurisdiction as per Regulations 10 and 18 of Central Electricity Authority (Installation and operation of meter) Regulation 2010. CE(T&C) office is requested apprise status of testing & callibration.
2. SLDC has sent the list of ABT meters installed at the interface points of T-D having time drift to CE(T&C) Office vide email dated 16.03.2020 and requested to take up the matter with M/s Secure Meters Ltd. for time synchronization with GPS. However, till date meters are not time synchronized with GPS. CE(T&C) office is requested to apprise the status of time synchronization of meters.
3. Around 35 Nos. ABT meters are installed at the interface points of newly commissioned substation / Xmers as shown in **Annexure-8.1**. CE(T&C) office is requested to include the newly installed meters under AMC contract (Extension order No. 04-04/ TC-AMR/ SII/ 2031/ Extn./1553 dated 17/09/2020 for AMC of 800 Nos interface points) so as to ensure complete data availability of meters.

**[Action : CE(T&C) MPPTCL]**

### **8.2 Review of Interface Points & meters installed between Generation / Transmission / Distribution boundaries:-**

Since implementation of ABT mechanism in the State of MP, SLDC is preparing and issuing SEA, DSM, Reactive Energy charges Accounts and computing State Transmission losses. The Interface meters have been provided at G-T, T-D, D-D boundaries in accordance with MPEGC and CEA regulations. At present, total 1180 Interface meters upto 31.03.2020 have been provided at various interface points in the MP Grid based on the basis of information received from licensee / generators regarding addition / modification in any grid element vis-à-vis interface meters, SLDC updates the same in ABT accounting system. In order to have further check of existing configuration, it is proposed to have consolidated review of location, adequacy and healthiness of meters.

A list of interface meters has already been made available to O/o CE (Planning & Design), O/o CE (T&C) and O/o ED (O&M:Gen) for comments / update if any. It is requested to expedite and be completed by end of Oct 2020.

**[Action:SLDC/Planning/Design/T&C/O&M Gen]**

### **8.3 Issuance of State Deviation Account, Reactive Energy Account on weekly basis and Computation of weekly Transmission Losses from Febuary-2020:**

As decided in the in the workshop held at MPPMCL, Bhopal on 06<sup>th</sup> Dec 2019, SLDC has started issuing Intra-State Deviation account, Reactive energy account on weekly basis and computation of weekly transmission losses from 1<sup>st</sup> Febuary-2020. However, difficulty is being faced in issuance of accounts due to non receipt of JMR data on

weekly basis from Transco and Discoms. CE(T&C) office and Discoms are requested to issue instructions to concerned officers for timely submission of weekly missing meter data and JMR data to SLDC.

**[Action : MPPTCL & Discoms]**

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

Railways was already requested in the previous OCC meeting to ensure timely receipt of meter data / JMR data by SLDC on weekly 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 basis

1. Issue instructions to concerned officials for providing the weekly JMR data of TSS end meters to SLDC.
2. In case of missing meter data and JMR data, Nodal officer shall send weekly meter data / JMR data through email within two days on request of SLDC.
3. 23 Nos. ABT meters installed at TSS end are not communicating with SLDC AMR system. Also, manually downloaded meter data of these TSS is not received by SLDC despite repeated requests from SLDC.
4. Include ABT meters installed at TSS and GSS end in the AMC contract of MPPTCL for successful downloading of meter data.

Committee may like to issue suitable directives to Railways.

**[Action :Railway]**

#### **8.5 Testing & Callibration of interface meters and Mismatch generation of outgoing feeders & actual generation:**

1. SLDC has requested in previous OCCMs to MPPGCL to conduct testing / calibration of main, check and standby meters installed at the interface points of power stations as per Regulations 10 and 18 of Central Electricity Authority (Installation and operation of meter) Regulation 2010. MPPGCL is requested to apprise the Committee about the status of Testing / Calibration as per regulatory provisions. Further, MPPGCL is requested to ensure that meters installed at the interface points are time synchronized with GPS.
2. In the Thermal power station and Hydel power station of MPPGCL, the injection recorded by the ABT meters installed at the outgoing feeders generally do not match with the generation recorded at Generator end. MPPGCL is requested to advise the site officials for monthly checking / verification of feeder wise data with Generator and Station Xmer wise.

**[Action : MPPGCL ]**

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

The ABT meters installed at the following Pooling Stations of Wind and Solar Power Project has time drift and thus not recording the correct data. SLDC has requested to QCA / Generators with copy to concerned licensee vide letter no. 809 & 810 dated 03/06/2020 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 NAME	SUBSTATION	ABT METER	ZONE	TIME DRIFT (in minutes)
1	33KV UJAAS-2 ICHHAWAR	132KV S/S ICHHAWAR	MPC59975	WZONE	278.26
2	33 KV UJAAS-1 BERCHHA	132 KV S/S BERCHHA	XB571652	WZONE	261.08
3	33 KV UJAAS 1 SUSNER	132 KV SUSNER	XB571653	WZONE	225.00
4	33 KV SHANKHESWAR WIND WORLD	220KV S/s DALODA	XC525575	WZONE	180.00
5	33 KV SHANKHESWAR WIND WORLD(NAGRI)	220KV S/s DALODA	XC525573	WZONE	180.00
6	33 KVGIRIRAJ ENTERPRISES,	33/11KV S/s AFJALPUR	XC502289	WZONE	180.00
7	33 KV SUDHEER PROJECTS PVT LTD,	132KV S/S BERCHHA	XC529837 XC529839	WZONE	180.00
8	33 KV SUDHEER PROJECTS PVT LTD	132KV S/S MAXI	XC529834 XC529832	WZONE	180.00
9	33 KV RENEW WIND ENERGY (MP TWO) PVT	220KV S/s DALODA	XB593636	WZONE	54.00
10	132 KV GLOBUS STEEL_N_ POWER PVT	132KV S/s SITAMOU	XC562469	WZONE	45.00
11	132 KV RENEW SOLAR ENERGY (TN) PVT. LTD.	132KV S/S VIJAYPUR	MPC68357	WZONE	26.00
12	33 KV DELIGENTIA CKT-I	132KV S/S RATANGARH	MPC72366	WZONE	25.00
13	33 KV DELIGENTIA CKT-II	132KV S/S RATANGARH	MPC72365	WZONE	21.00
14	33 KV INOX WIND INFRA BETUL	132KV S/S GUDGAON	XB570699	CZONE	19.00
15	220KV INOX LAHORI FEEDER II	220KV S/S SHAJAPUR	MPC73530	WZONE	18.00
16	132 KV ORANGE BERCHA WIND POWER PVT LTD	220KV S/S BARNAGAR	XC576471	WZONE	17.00
17	33 KV VIVAAN SOLAR -2 MAKDON	132KV S/S MAKDON	XC529587	WZONE	17.00
18	132 KV WIND WORLD (INDIA) LTD., RATADIA	132 KV JAORA	MPE53467	WZONE	17.00
19	220KV MARUTSHAKTI FEEDER-I	220KV S/S NIPANIYA	MPC70479	WZONE	16.00
20	132KVGAMESA WIND FATANPUR-II	220KV S/S DEWAS	XC548502	WZONE	14.00
21	132 KV M/s WAANEEP Solar Pvt. Ltd	132KV S/S ICHHAWAR	XC502683	WZONE	14.00
22	132KV GAMESA FEEDER I	220KV S/S SHAJAPUR	XB587800	WZONE	13.00
23	33 KV FINSURYA SOLAR ENERGY (10MW)	132KV S/S MAKDON	XB581186	WZONE	12.00
24	220KV INOX_LAHORI FEEDER I	220KV S/S SHAJAPUR	MPC73532	WZONE	12.00
25	132KV GAMESA WIND FATANPUR-I	220KV S/S DEWAS	XC548500	WZONE	12.00
26	220KV MARUTSHAKTI FEEDER-II	220KV S/S NIPANIYA	MPC70481	WZONE	11.00
27	33 KV UJAAS-1 SITAMAU	132KV S/s SITAMOU	XC562299	WZONE	11.00

28	33 KV TIRUPATI DHAR RENEWABLE POWER	33/11KV S/S _JETPURA_DHAR	XD500605	WZONE	10.00
29	33KV KSHEMA_BHERUGARH	132KV S/S BHERUGARH	XD500608	WZONE	10.00
30	33KV DHAR_WIND FEEDER	33/11KV S/S _DUSSERA_DHAR	XD500602	WZONE	10.00
31	33KV KSHEMA_BHERUGARH	132KV S/S BHERUGARH	Y0056943	WZONE	9.00
32	132 KV KUKRU WIND	132KV S/S GUDGAON	XC579525	CZONE	9.00
33	33 KV CHOKSI ENERGY & INFRA P L RINGDOD	132 KV JAORA	Y0056961	WZONE	8.00
34	220 KV CLEAN WIND POWER (RATLAM) PVT	220KV S/S RAJGARH	MPC74061	WZONE	8.00
35	33KV TODAY CLEAN ENERGY FEEDER-1	220KV S/S BAROD	Y0116481	WZONE	7.00
36	33KV CHOKSI ENERGY MAMATHKHEDA	132KV S/S JAORA	Y0056963	WZONE	6.05
37	BETUL WIND FARM	132KV S/S	MPC62876	CZONE	5.53
38	UJAAS-2 RAJGARH (BIORA)	132KV S/S	XC595281	CZONE	5.28
39	33KV DURGA KHANDSARI	132KV S/S PANSEMAL	XD520954	WZONE	5.15
40	132KV RAJKOT_GUJRAT	220KV S/S BAROD	XD537568	WZONE	3.80
41	33KV AVP POWER INFRA FEEDER-II	132KV S/S SONKATCH	XD595994	WZONE	3.52
42	UJAAS-1 RAJGARH (BIORA)	220KV S/S RAJGARH BIAORA	Y0356649	CZONE	3.48
43	ACME SOLAR ENERGY PVT. LTD	132KV S/S KHILCHIPUR	MPC60957	WZONE	3.40
44	NTPC-1	220KV S/S RAJGARH BIAORA	XC510612	CZONE	3.32
45	NTPC-2	220KV S/S RAJGARH BIAORA	XC510614	CZONE	2.93
46	SKY POWER SOLAR INDIA PVT LTD	400KV S/S CHHEGAON	Y0322111	WZONE	2.78
47	33 KV FREEWINGS POWER & INFRA LTD	132KV S/S MAKDON	Y0505422	WZONE	2.57
48	BHARAT ELECTRONICS LTD OFI	220KV S/S ITARSI	Y0510858	CZONE	2.37
49	33KV RENEW_WIND AP4 FEEDER-I	132KV S/S KHACHROD	XD500612	WZONE	2.33
50	33KV RENEW_WIND AP4 FEEDER-II	132KV S/S KHACHROD	XD500615	WZONE	2.27
51	33KV M P WIND FARM NAGDA HILL	220 KV DEWAS	XE525393	WZONE	2.07
52	FOCAL ENERGY SOLAR ONE INDIA PVT LTD.	132KV S/s SITAMOU	XA110207	WZONE	2.03
53	33KV G.I. POWER	220 KV DEWAS	X1071843	WZONE	1.82
54	33KV RENEW WIND ENERGY (MP TWO)	220 KV S/s DALODA	XC522563	WZONE	1.82
55	AVENGERS SOLAR PVT LTD	132KV S/S SUWASARA	Y0357689	WZONE	2.12
56	132KV GAMESA FEEDER II	220KV S/S SHAJAPUR	XE565677	WZONE	2.12
57	SUNPHARMA POWER BLOCK-6	132KV S/S TARANA	Q0287970	WZONE	2.00

58	220KV DJ ENERGY FEEDER_I	220KV S/S DALODA	XB587788	WZONE	1.47
59	SIMCON FEEDER -2	132KV S/S GANJBASODA	Y0327309	CZONE	1.47
60	33KV UJAAS SAI SABURI	132KV S/S MAKDON	X0888531	WZONE	1.42
61	33KV DESIGNCO	132KV S/S ARNIAKALA	Y0351366	WZONE	1.42
62	33 KV UJAAS-1 BAROD	220KV S/S BAROD	XE525398	WZONE	1.32
63	33 KV SUZLON INFRA BEHAPUR-1	220 KV S/s DALODA	XE479862	WZONE	1.32
64	33KV BHARAT ELECTRONICS LTD VFJ	132KV S/S VFJ	Q0238278	EZONE	1.32
65	33 KVBHARAT ELECTRONICS LTD	33KV SATPULA	Q0289517	EZONE	1.30
66	SEI SUNSHINE FEEDER-1	220KV S/S SHIVPURI	Q0289279	CZONE	1.30
67	33 KV UJAAS-2 BAROD	220KV S/S BAROD	XE525399	WZONE	1.27
68	33 KV WIND WORLD-III AGAR	132KV S/S AGAR	Q0293698	WZONE	1.27
69	SUZLON DEV 1 NAGDA HILL DEWAS	220 KV DEWAS	XE479868	WZONE	1.20
70	SUNPHARMA POWER BLOCK-1 (Inter)	132KV S/S TARANA	Q0287966	WZONE	1.20
71	33 KV WELSPUN CKT-I	132KV S/S RATANGARH	Q0234478	WZONE	1.17
72	33 KV WIND WORLD-I AGAR	132KV S/S AGAR	Q0287979	WZONE	1.17
73	220KV DJ ENERGY FEEDER_I	220KV S/S DALODA	XB587789	WZONE	1.15
74	33 KV WIND WORLD-II AGAR	132KV S/S AGAR	Q0287980	WZONE	1.15
75	SUNPHARMA POWER BLOCK-2 (Inter)	132KV S/S TARANA	Q0287960	WZONE	1.12
76	SUNPHARMA POWER BLOCK-4	132KV S/S TARANA	Q0287964	WZONE	1.10
77	SUNPHARMA POWER BLOCK-5	132KV S/S TARANA	Q0287968	WZONE	1.08
78	33 KV SUZLON IV RATLAM	132KV S/S JAORA	XE479859	WZONE	1.02
79	33 KV SUZLON III SAILANA 14.1MW	132 KV SAILANA	XE479855	WZONE	1.00

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

Sr.No.	FEEDER NAME	SUBSTATION	ABT METER No.	ZONE	QCA NAME
1	33KV SUZLON-I SAILANA	132 KV SAILANA	XE479853	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
2	33KV SUZLON-II SAILANA	132 KV SAILANA	XE479854	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
3	33KV SUZLON-III SAILANA	132 KV SAILANA	XE479855	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
4	33KV SUZLON-I RATLAM	132KV S/S JAORA	XE479856	WZONE	RECONNECT ENERGY SOLUTION PVT LTD

5	33KV SUZLON- IV RATLAM	132KV S/S JAORA	XE479859	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
6	33KV SUZLON- V RATLAM	132KV S/S JAORA	XE479860	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
7	33KV SUZLON-IV AGAR	132KV S/S AGAR	XE479864	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
8	33KV SUZLON-V (SUSNER-III)	132KV S/S SUSNER	XE479867	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
9	33KV SUZLON-III (AGAR- I),	132KV S/S AGAR	XE479863	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
10	33KV SUZLON BEHAPUR DALODA-	220 KV S/s DALODA	XE479862	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
11	33KV SUZLON BEHPUR DALODA-II	220 KV S/s DALODA	XE479861	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
12	33KV SUZLON I (SUSNER-I),	132KV S/S SUSNER	XE479866	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
13	33KV SUZLON I (SUSNER-II),	132KV S/S SUSNER	XE479865	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
14	33 KV M P WIND FARM NAGDA HILL	220 KV DEWAS	XE525393	WZONE	MANIKARAN ANALYTICS LTD..
15	33 KV SUZLON GUJRAT WIND	220 KV BAROD	XD595984 XD595980	WZONE	MANIKARAN ANALYTICS LTD...
16	33KV FREEWING POWER PVT. LTD.	132KV S/s MAKDON	Y0505422	WZONE	FREEWING POWER LTD.
17	33KV AVP POWER PVT. LTD.	132 S/s SONKATCH	XD595991, XD595994	WZONE	MANIKARAN ANALYTICS LTD..
18.	33KV BADONI PVT LTD.	132KV S/s MAXI	XD522128	WZONE	MANIKARAN ANALYTICS LTD..
19.	33KV GI POWER PVT. LTD.	220KV S/s MAKDON	X1071843	WZONE	KREATE TECHNOLOGY PVT LTD
20.	33KV SAI SABURI MAKDON	132KV MAKDON	X0888531	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
21.	33KV UJAAS-I RAJGARH	220KV RAJGARH	Y0356649	CZONE	MANIKARAN ANALYTICS LTD..
22.	33KV UJAAS –I BAROD	220KV BAROD	XE525398	WZONE	MANIKARAN ANALYTICS LTD..
23.	33KV UJAAS –II BAROD	220KV BAROD	XE525399	WZONE	MANIKARAN ANALYTICS LTD..
24.	33KV FRIEND SALT SUSNER	132KV SUSNER	X0888530	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
25	SUZLON DEV 1 NAGDA HILL	220 KV DEWAS	XE479868	WZONE	RECONNECT ENERGY SOLUTION PVT LTD
26.	33KV EASTMAN INTERNATIONAL	132KV TARANA	X1305766 X1305767	WZONE	MANIKARAN ANALYTICS LTD..
27.	33KV UJAAS-I RAJGARH	220KV RAJGARH	Y0356649	CZONE	MANIKARAN ANALYTICS LTD..
28.	SIMCON FEEDER - 2	220KV GANJBASODA	Y0327309	CZONE	KREATE TECHNOLOGIES LLP

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

**[Action : West & Central Discoms]**

### 8.7 Testing & Calibration of interface meters:

Discoms are requested to conduct testing / calibration of meters installed at the interface points of Renewable Energy Generators and Inter Discom feeders under their jurisdiction as per Regulations 10 and 18 of Central Electricity Authority (Installation and operation of meter) Regulation 2010.

**[Action : Discoms]**

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

**9.1 ARRANGEMENT OF TELEMETRY OF IMPORTANT 220KV SUB STATIONS & 132KV S/S HAVING INJECTION FROM RENEWABLES/CAPTIVE POWER PLANTS OR HAVING INTERDISCOM FEEDERS /TRACTION FEEDERS-** The telemetry of **220KV Sheopurkalan S/s** has been integrated with SLDC SCADA system, however the telemetry of SOE is not yet provided. MPPTCL is requested to provide the same.

The telemetry of Birsingpur HPS and Zinna HPS is also not available and same needs to be provided by MPPGCL. In last OCCM, MPPGCL informed that order for RTU & cables has been placed & RTU has been delivered but commissioning is pending. MPPGCL is requested to provide the current progress in the matter.

**[Action: - CE (T&C)/CE (Procurement), MPPTCL, ED(O&M :Gen), MPPGCL]**

**9.2 TELEMETRY OF BUS VOLTAGE IN DFE RTUS :-** In substations having DFE RTUs, the telemetry of Bus voltage is extended through MFM provided for transformer telemetry. This arrangement results in wrong Bus voltage at the time of outage of transformer & causes inconvenience in grid monitoring & operation. In this reference, it is to mention that it is a standard practice to provide Bus voltage through separate MFM/transducer.

The matter has already been discussed in last various OCCM meetings in which T&C representatives informed that instructions in the matter has already been issued to field offices for providing telemetry of Bus voltage. However the extension of Bus Voltage through separate MFM is still pending **for 400 KV Badnawar, 400 KV Chhegaon, 400 KV Kirnapur, 400 Katni, 400 KV Pithampur & 400 KV Nagda** . MPPTCL is requested to provide current progress in the matter.

MPPTCL is thus again requested to arrange separate bus voltage for the above 400KV Substations and also requested to work out the requirement of MFM required for 220KV Sub Stations which need to be taken up in second phase.

**[Action: - MPPTCL]**

**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-9.3**. The list of major telemetry discrepancies is as given below :-

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

#### **1. Satpura TPS :-**

<b>Sr. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Pending since</b>	<b>MPPGCL response in meeting dtd.30.10.18</b>	<b>MPPGCL response in 74<sup>rd</sup> OCCM</b>
1	<b>400 KV Satpura -</b>	MW	8 months	-	MPPGCL informed that Transducers of all the three

	<b>Itarsi</b>				circuits have been replaced and also checked the ports of analog I/P card and now planning to purchase high precision transducer but SLDC vide letter No SE/LD:E&T/04 Dtd 02.01.2020 requested to investigate the issue and arrange to rectify the issue as transducers have already been replaced and then how the replacement by another transducer would resolve the issue. MPPGCL is requested to update the progress in this matter.
2	<b>400 KV Satpura-Koradi</b>	MW	8 months	-	
3	<b>400 KV Satpura-Seoni</b>	MW	8 months	-	

## 2. SGTPS :-

Sr. No.	Description	Unit	Pending since	MPPGCL response in meeting dtd.30.10.18	MPPGCL response in 73 <sup>rd</sup> OCC
1	220/33 KV Transformer	MW/M VAR	More than one year	MPPGCL informed that it shall be provided <u>within one month</u> .	Still pending. Kindly provide the telemetry.

## 3. Gandhi Sagar HPS :-

**Restoration of the telemetry of Gandhi Sagar HPS through wideband equipment:-**The wideband communication equipment installed at Gandhi Sagar HPS was tested by M/s Fibcom engineer in coordination with concern officer at Gandhi Sagar HPS, and it was informed that the wideband equipment are healthy & in working condition. Further voice communication through wideband equipment is also restored but telemetry of GS HPS is pending due to fault in RTU. RTU replacement work is still pending.

MPPGCL is requested to arrange restoration of fault in RTU so that telemetry of GS HPS may be available for grid monitoring.

Sr. No.	Description	Unit	Pending since	MPPGCL response in meeting dtd.30.10.18	MPPGCL response in 73 <sup>rd</sup> OCC
1.	33 KV Rajasthan(Kuakheda) feeder	MW/M VAR	Commissioning	SLDC informed that the telemetry of this feeder is of utmost importance as it is an inter-regional feeder. MPPGCL informed that they will arrange for the telemetry of this feeder on priority.	MPPGCL informed that these discrepancies shall be rectified after upgradation of RTUs.



2.	132 KV Bus 1	Voltage	4 months	Wrong Values	No response from MPPGCL
3.	132 KV Bus 2	Voltage	4 months	Wrong Values	No response from MPPGCL

#### 4. Nomination of Coordinators for telemetry work :-

As discussed in 73<sup>rd</sup> OCCM & on meeting dtd. 09.12.19, two officers at each power house were to be nominated for telemetry work & the order in this regard shall be issued by CE(O&M;Hydel) and copy shall be provided to SLDC for necessary coordination. However no such nomination of the officers has yet been done by MPPGCL. MPPGCL is requested to provide current progress in the matter.

As discussed in 73<sup>rd</sup> OCCM & on meeting dtd. 09.12.19, MPPGCL informed that they will build a common team of engineers who will look after telemetry & communication works of Satpura Power House 2, 3 & 4. However no progress in the matter has been observed so far. MPPGCL is requested to provide current progress in the matter.

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

Sl No.	Name of Substation	Name of feeders/transformers
01	400 ISP	<i>(i) Isolator data is not available. (ii) Telemetry of your power plant are not updating properly/update with time delay. The Generation values stops updating properly and while non updation, no non update tag is appeared some time.</i>
02	400 KV Julwaniya	CB status of 132/33 KV Xmer is showing open. This problem is persisting since last 8 months. No action in the matter has been taken.
03	400 KV Katni	Wrong CB status of 125 MVAR Bus Reactor
04	220 KV Nimrani	Telemetry of 33 KV Maral is to be provided
05	220 KV Ujjain	Faulty CB status of 132 KV Bus Coupler
06	220 KV Ratlam	220 KV TBC CB faulty

[Action: - MPPTCL, MPPGCL,NHDC]

**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 three 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 1 year period.
2	BARGI HPS	2	MPPGCL informed in last four OCC meetings that integration of RGMO/FGMO signal shall be done during AOH of units in 2019. However the AOH of Bargi HPS units have been done but the integration of RGMO/FGMO signal is still pending.
3.	Singha ji Phase 2	3, 4	Pending

### 9.5 Replacement of RTUs in Thermal Power Stations:-

The matter regarding replacement of RTUs in Thermal Power Stations was discussed in the 2<sup>nd</sup> Telemetry & Voice Communication meeting & last OCCM. Generating Station wise status of replacement of RTUS is as below:-

- a. **Satpura TPS:-** As informed by MPPGCL on meeting dtd.09.12.19, MPPGCL is exploring the possibility of integrating the telemetry of Satpura Power House 2 & 3 with existing SCADA system at Satpura Power House 4 or providing telemetry by installing new RTUs. The decision regarding the same will be taken depending upon financial implications. In last OCCM, SLDC enquired MPPGCL regarding the final decision of the same in which MPPGCL stated that no decision in the matter has yet been taken. MPPGCL is requested to provide current status in the matter.
- b. **SGTPS:** As informed by MPPGCL on meeting dtd. 09.12.19, case for replacement of RTU shall be initiated. However no progress in the matter has been observed. MPPGCL is requested to provide current status in the matter.
- c. **ATPS:-** The status of replacement of RTUs was not provided by MPPGCL in 2<sup>nd</sup> Telemetry & Voice Communication meeting & 74<sup>th</sup> OCCM. MPPGCL is requested to provide current status in the matter.

### 9.6 NON AVAILABILITY/ UNRELIABLE VOICE COMMUNICATION BETWEEN SLDC TO THERMAL/ HYDEL POWER STATIONS :-

It is to inform that as per CERC communication regulation 2017, availability of communication channel is required to be ensured more than 99.9%. However, despite constant pursuance, presently most of the PLCC voice communication of various power stations to SLDC is out since long time and detailed of non-availability as here under: -

Sr. No	Name of HPS/TPS	2 wire PLCC channel	MPPGCL response in meeting dtd.30.10.18	Remark
1.	Bansagar- IV	PLCC voice communication is not established	AE, Tons HPS informed that he will visit Bansagar-IV for restoration of voice communication of Bansagar-IV at the earliest.	<b>Restoration of PLCC channel is still pending.</b> In last meeting it was informed that MPPGCL arranging the PLCC panel.
2.	Madikheda	PLCC voice channel is not working since long time.		Restoration of PLCC channel is still pending due HF bypass on all 3 No LILO location viz Karera, Chinnor & Dabra. MPPTCL is requested to arrange for extension of voice channel utilizing Mahalgaon wideband node in coordination with Madikheda HPS.
3	Birsinghpur HPS /TPS	PLCC voice channel is not working since long time due to faulty PLCC exchange at Birsinghpur.	AE Birsinghpur informed that presently voice communication between SLDC to thermal power house is proper & the commissioning of EPAX at site is under progress. AE Birsinghpur assured that the voice channel of Birsinghpur HPS shall be restored <b><u>within one month.</u></b>	In last meeting it was informed that the restoration completed by a month however restoration of voice channel is still pending.

The matter regarding Non Availability/ Unreliable voice communication Between SLDC to Thermal/ Hydel Power Stations was discussed in various OCC meeting however 2 wire voice facility extension of Singhaji 1 & 2 TPS, Madikheda HPS, is still pending.

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

### 9.7 DUAL DATA CHANNEL CONNECTIVITY FOR POWER STATIONS:-

Presently of most of the MPPGCL power stations to SLDC/Backup SLDC is functioning through single channel. In view of the poor availability of telemetry, importance of telemetry of power stations and recently implemented CERC new DSM regulation w.e.f. 1<sup>st</sup> January,

2019 it is required that each Power Station shall have dual data channel to avoid any outage/discrepancy in real time data of Generation Station. Therefore to reduce outage due to single data channel failure, MPPGCL & IPPs are being continuously requested to arrange / ensure dual data channel from each Power Stations so that continuity of real time data to SLDC/Backup SLDC SCADA all the time may be achieved. In last OCCM, MPPGCL informed that the matter shall be discussed in a separate meeting with MPPGCL field offices. However no such meeting has been arranged. SLDC further pursued the matter vide UO dtd. 12.09.19 but no response in the matter has been received from MPPGCL. MPPGCL is thus requested to provide the current status in the matter.

[Action: - MPPGCL]

### **9.8 NON AVAILABILITY & WRONG TIME STAMPING OF SOE AT SLDC**

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

After long pursuance, the matter was investigated and it was found that the settings “inf code 2” & “inf code 4” were not correct in Dongfeng make RTUs. These settings have now verified and changed in some of the RTUs and SOE with correct time stamping from RTUS where settings were modified is now receipt in SLDC SCADA/EMS system. However, the verification of the same in most of the RTUs is still pending. The matter regarding verification of SOE in all Dongfeng make RTUS was also discussed in last three OCCM meetings and it was confirmed to arrange the same by end of August 2018. However no significant progress in the matter has been observed.

**Out of 175 RTUs, SOE verification of 171 RTUs has been completed & the list of RTUs where SOE verification is pending is enclosed herewith as Annexure-9.8.** MPPTCL is requested to provide schedule of SOE verification and arrange SOE verification of balance RTUs on top most priority.

[Action: - MPPTCL, MPPGCL,NHDC]

### **9.9 Rectification of OPGW Link between 220 KV S/s Satna –Katni and 400 KV Bhopal -220 KV Bhopal**

220 KV Satna OPGW is not functioning since 17.09.2020 due to problem in OPGW Link. From this link around 20 telemetry are routed which are presently routed PGCIL Network on request on temporarily basis.

No work has been initiated so far for restoration of above link. Further In 400 KV -220 KV Bhopal OPGW Link out of 24 Fiber 18 Fiber are found faulty.The restoration of this fiber is requested. SLDC further pursued the matter vide Letter no SE/LD:E&T/657/486 dtd. 29.09.20 but no response in the matter has been received so far.

[Action: - MPPTCL]

### **9.10 LONG OUTAGE OF RTUS, PROBLEM IN DATA AND VOICE CHANNELS & INTERMITTENT TELEMETRY DUE TO NOISE IN COMMUNICATION CHANNEL :-**

The long outage of telemetry & substations having intermittent telemetry due to heavy noise in communication channel is discussed in detail:-

SI No.	Name of Sub Station	Out from /Remark
01	GandhiSagar HPS	Out More than 6 months

**MPERC vide Letter dated 09-08-2017 has directed to submit reason for long outage for RTU & also directed to ensure proper functioning of RTUs.**

MPPTCL, MPPGCL are requested to sort out rectification of above RTU/data channel on top most priority & arrange for alignment of PLCC Channel & identify/replace the outdoor equipments which injects the noise in the channel/system. **[Action :- MPPGCL, MPPTCL]**

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

The telemetry of existing 38 Nos Railway Traction Sub Stations & upcoming 25 new Railways TSS is required to be provided by railway for monitoring of drawl by each TSS and also monitoring of demand of railway in MP. Hence telemetry of 22 Nos Railway Traction Sub Stations out of 63 has been commissioned and are reporting to SLDC, Jabalpur .Please provide the status of remaining 41 Nos Railway Traction Sub Stations.

Railway is thus requested to expedite the matter of remaining 41 Nos and provide the current status.