**Procedure for integration of New Transmission Elements belonging to any transmission licensee in the State for First Time Charging (FTC) under SLDC**

As per Indian Electricity Grid Code, POSOCO vide its Letter dated 26.05.2014 has circulated ‘**Procedure for integration of a new network element of a transmission licensee into the grid and issuance of certificate by RLDC for successful trial operation of a transmission element’**.

In this context, MSLDC has formulated the following procedures for inter-connection of New Transmission Elements belonging to any transmission licensees in the State for **First Time Charging (FTC),** along with requisite formats so as to comply with the above guidelines circulated by POSOCO.

The transmission network in Maharashtra is an integration of CTU network and STU network. Hence, consent of RLDC is required for charging of important grid elements at 400 kV level and some of the elements at 220 kV level connected to CTU network for the first time.

In view of above, the procedure for First Time Charging (FTC) of new elements has been bifurcated in to two parts based on Consent from RLDC and Consent from SLDC.

The detailed procedure is as follows:

**Part –A: Procedure for seeking consent from RLDC:**

1. All the Transmission Licensees intending to commission any Transmission Element for the First Time, which is a part of Inter/ Intra State Transmission System, at 400 kV level or connected to CTU Network, shall intimate the MSLDC, the details in the below mentioned prescribed formats, generally (15) days prior to the anticipated date of FTC. After scrutiny of the proposal received from field office, the same will be forwarded to RLDC.
2. **ANNEXURE A-1:**

Intimation regarding anticipated charging of a New Transmission Element (Line/ICT/Transformer/Bus Reactor/Line Reactor/Bay/Series Capacitor/Series Reactor) along with the list of the desired documents being submitted as per **Format: I**.

1. **ANNEXURE A-2**:

List of Elements to be charged and Element Rating details as per **Format: I-A**.

1. **ANNEXURE A-3**:

Single Line Diagram of the concerned Sub-stations, along with status of completion of each dia/bus/breakers clearly indicating which elements are proposed to be charged.

1. **ANNEXURE A-4**:

List of SCADA points to be made available (as per standard requirement, SLDC would need all MW &MVAr data, voltage & frequency of all the buses, all the breakers& isolator positions, OLTC tap positions, Main-1/Main-2 Protection operated signals)

1. **ANNEXURE A-5**:

Location of Energy meters as per relevant CEA regulations.

1. **ANNEXURE A-6**:

Connection Agreement, wherever applicable along with all annexures.

In additions to above mentioned documents, charging statutory permissions, details of the technical parameters of the transmission elements required for network modeling shall to be made available to MSLDC.

1. Within (3) days of submission of above information by the Transmission Licensee, MSLDC shall acknowledge the receipt of the same, as per **Format: II,** and seek clarifications, if any. The transmission licensee shall submit the desired information/documents to MSLDC within next (3) days.
2. The request for charging of new transmission element and towards start of the trial operation as per **Format: III** shall be submitted by the Transmission Licensee to the MSLDC, generally three (3) days prior to the date of first-time charging.

The Transmission Licensee shall also submit the following documents in this regard:

1. **ANNEXURE B-1:**

Request for charging of the new transmission element along with the summary of the undertakings being submitted as per **Format: III**.

1. **ANNEXURE B-2:**

Undertaking in respect of Protective systems as per **Format: III-A**.

1. **ANNEXURE B-3:**

Undertaking in respect of Telemetry and communication as per **Format: III-B**.

1. **ANNEXURE B-4:**

Undertaking in respect of Energy metering as per **Format: III-C**.

1. **ANNEXURE B-5**:

Undertaking in respect of Statutory clearances as per **Format: III-D**.

1. On satisfying itself with the submitted information, MSLDC in consultation with RLDC (required for critical grid elements) would issue “**a provisional approval for charging**” to the Transmission Licensee as per **Format: IV within two days** of receipt of above documents. On the designated day, the transmission licensee shall charge the transmission line and do trial operation as per the timeline mentioned in **Format: III**, after obtaining the real time code from MSLDC/WRLDC.

All attempts would be made by the real time operating personnel at the MSLDC/WRLDC to facilitate charging and commissioning of the new element at the earliest, subject to availability of real time data and favorable system conditions.

1. Post successful trial operation, following documents shall be submitted by the Transmission Licensee:
2. **ANNEXURE C-1:**

Request for issuance of successful trial operation certificate as per **Format: V** (If applicable).

1. **ANNEXURE C-2:**

Values of the concerned line flows and related voltages as per local SCADA just before and after charging of the element.

1. **ANNEXUREC-3:**

Special Energy meter (SEM) Reading.

1. **ANNEXURE C-4:**

Output of Disturbance Recorders / Event Loggers.

1. Within three (3) working days of submission of the information mentioned above, WRLDC concerned shall issue the certificate (if applicable) for successful completion of trial run of the transmission element as per **Format: VI**.

**Part – B: Procedure for seeking consent from SLDC:**

1. All the Transmission Licensees intending to commission any Transmission Element **other than the Elements as per Part A above,** which is a part of Intra State Transmission System, shall intimate the MSLDC, the details in the below mentioned prescribed formats, generally (15) days prior to the anticipated date of FTC.
2. **ANNEXURE D-1:**

Intimation regarding anticipated charging of a New Transmission Element (Line/ICT/Transformer/Bay) along with the list of the desired documents being submitted.

1. **ANNEXURE D-2**:

List of Elements to be charged and Element Rating details.

1. **ANNEXURE D-3**:

Single Line Diagram of the concerned Sub-stations, along with status of completion of each dia / bus / breakers clearly indicating which elements are proposed to be charged.

1. **ANNEXURE D-4**:

List of SCADA points to be made available (as per standard requirement, SLDC would need all MW &MVAr data, voltage & frequency of all the buses, all the breakers & isolator positions, OLTC tap positions, Main-1 / Main-2 Protection operated signals)

1. **ANNEXURE D-5**:

Location of Energy meters as per relevant CEA regulations.

1. **ANNEXURE D-6**:

Connection Agreement, wherever applicable along with all annexures.

In additions to above mentioned documents, charging statutory permissions, details of the technical parameters of the transmission elements required for network modeling shall to be made available to MSLDC.

Within (3) days of submission of above information by the Transmission Licensee, SLDC shall acknowledge the receipt of the same, as per **Format: II,** and seek clarifications, if any. The transmission licensee shall submit the desired information/documents to MSLDC within next (3) days.

The FTC formats should be sent respective ALDC/SLDC by mail. Mail to be sent at the address at [msldcoutage@gmail.com](mailto:msldcoutage@gmail.com) and [msldc\_outage@mahasldc.in](mailto:msldc_outage@mahasldc.in) to SLDC **prefixing FTC** in the subject.

**Documents to be submitted by the Transmission Licensee to SLDC for First Time Charging (FTC)**

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| **Annexure** | **Particulars** | **Formats** |
| **For Transmission Elements under RLDC Control:** | | |
| ANNEXURE A-1 | Intimation regarding anticipated charging of a New Transmission Element (Line/ICT/Transformer/Bus Reactor/Line Reactor/Bay/Series Capacitor/Series Reactor) | Format: I |
| ANNEXURE A-2 | List of Elements to be charged and Element Rating details | Format: I-A |
| ANNEXURE A-3 | Single Line Diagram of the concerned Sub-stations, along with status of completion of each dia /bus/breakers clearly indicating which elements are proposed to be charged |  |
| ANNEXURE A-4 | List of SCADA points |  |
| ANNEXURE A-5 | Location of Energy meters |  |
| ANNEXURE A-6 | Connection Agreement, wherever applicable |  |
| ANNEXURE B-1 | Request for charging of the new transmission element along with the summary of the undertakings | Format: III |
| ANNEXURE B-2 | Undertaking in respect of Protective systems | Format: III-A |
| ANNEXURE B-3 | Undertaking in respect of Telemetry and communication | Format: III-B |
| ANNEXURE B-4 | Undertaking in respect of Energy metering | Format: III-C |
| ANNEXURE B-5 | Undertaking in respect of Statutory clearances | Format: III-D |
| ANNEXURE C-1 | Request for issuance of successful trial operation certificate | Format: V |
| ANNEXURE C-2 | Values of the concerned line flows and related voltages as per local SCADA just before and after charging of the element |  |
| ANNEXURE C-3 | Special Energy meter (SEM) Reading |  |
| ANNEXURE C-4 | Output of Disturbance Recorders / Event Loggers |  |
| **For Transmission Elements under SLDC Control:** | | |
| ANNEXURE D-1 | Intimation regarding anticipated charging of a New Transmission Element (Line/ICT/Transformer/Bus Reactor/Line Reactor/Bay/Series Capacitor/Series Reactor) | Format: I |
| ANNEXURE D-2 | List of Elements to be charged and Element Rating details | Format: I-A |
| ANNEXURE D-3 | Single Line Diagram of the concerned Sub-stations, along with status of completion of each dia /bus/breakers clearly indicating which elements are proposed to be charged |  |
| ANNEXURE D-4 | List of SCADA points |  |
| ANNEXURE D-5 | Location of Energy meters |  |
| ANNEXURE D-6 | Connection Agreement, wherever applicable |  |
| ANNEXURE D-7 | Undertaking in respect of Protective systems | Format: II-A |
| ANNEXURE D-8 | Undertaking in respect of Telemetry and communication | Format: II-B |
| ANNEXURE D-9 | Undertaking in respect of Energy metering | Format: II-C |
| ANNEXURED-10 | Undertaking in respect of Statutory clearances | Format: II-D |