## Annex-VIII (b) Documents submitted by Transmission Licensee to RLDCs

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| --- | --- | --- |
| Annexure | Subject | Remarks |
| Annexure A1 | Intimation regarding anticipated charging of the line along with other documents | As per Format I |
| Annexure A2 | List of elements to be charged a n d Element Rating details | As per Format I A |
| Annexure A3 | Single line diagram of the concerned sub stations, along with status of completion of each dia/bus/breakers |  |
| Annexure A4 | List of SCADA points to be made available (as per standard requirement, RLDC would need all MW and MVAr data, voltage and frequency of all the buses, all the breaker and isolator positions, OLTC tap positions, Main‐1/Main‐2 protection operated signals) |  |
| Annexure A5 | Type and Location of Energy meters as per relevant CEA regulations |  |
| Annexure A6 | Connection Agreement, wherever applicable along with all annexures |  |
| Annexure B1 | Request for charging of the new transmission element along with the summary of the undertakings being submitted | As per Format III |
| Annexure B2 | Undertaking in respect of Protective systems | As per Format III A |
| Annexure B3 | Undertaking in respect of Telemetry and communication | As per Format III B |
| Annexure B4 | Undertaking in respect of Energy metering | As per Format III C |
| Annexure B5 | Undertaking in respect of Statutory clearances | As per Format III D |
| Annexure C1 | Request for issuance of successful trial operation certificate | As per Format V |
| Annexure C2 | Values of the concerned line flows and related voltages just before and after charging of the element |  |
| Annexure C3 | Special Energy meter (SEM) Reading for the trial |  |
| Annexure C4 | Output of Disturbance Recorders / Event Loggers |  |

Format I

Annexure A1

Intimation by Transmission Licensee regarding anticipated charging of new elements

<Name of Transmission Licensee>

Name of the transmission element :

Type of Transmission Element : Transmission Line / ICT / Bus Reactor / Line Reactor / Bus

/ Bay/Series Capacitor/Series Reactor

Voltage Level : AC/DC kV

Owner of the Transmission Asset : Likely Date and time of Charging :

Likely Date and time of start of Trial Operation : Place:

Date:

Encl: Please provide full details.

(Name and Designation of the authorized person with official seal)

Annexure A2 : Format IA: List of elements to be charged a n d Element Rating details

Annexure A3 : Single line diagram of the concerned sub stations, alongwith status of completion of each dia/bus/breakers

Annexure A4: List of SCADA points to be made available

Annexure A5: Location of installation of Energy meters as per relevant CEA regulations

Annexure A6: Connection Agreement, if applicable along with all annexures

# Format I A

## List of elements to be charged and Element Rating details

Annexure A2

1. List of Elements to be charged:
2. Element Ratings
   1. Transmission Line

|  |  |  |
| --- | --- | --- |
| 1 | From Substation |  |
| 2 | To Substation |  |
| 3 | Voltage Level (kV) |  |
| 4 | Line Length (km) |  |
| 5 | Conductor Type |  |
| 6 | No of sub Conductors |  |

1. ICT

|  |  |  |
| --- | --- | --- |
| 1 | Voltage (HV kV / LV kV) |  |
| 2 | Capacity (MVA) |  |
| 3 | Transformer Vector group |  |
| 4 | Total no of taps |  |
| 5 | Nominal Tap Position |  |
| 6 | Present Tap Position |  |
| 9 | Tertiary Winding Rating and Ratio |  |
| 10 | % Impedance |  |

1. Shunt / Series Reactor

|  |  |  |
| --- | --- | --- |
| 1 | Substation Name / Line Name |  |
| 2 | Voltage |  |
| 3 | MVAR Rating |  |
| 4 | Switchable / Non Switchable |  |
| 5 | In case of Bus Reactor, whether it can be taken as line reactor |  |

(Name and Designation of the authorized person with official seal)

# Format II

<Name of RLDC> Acknowledgement of Receipt by RLDC

This is to acknowledge that the intimation of likely charging of (Name of the transmission element) has been received from (Name of the owner of the transmission asset) on (Date).

Kindly complete the technical formalities in connection with energy metering, protection and real time data and communication facilities and inform us of the same three (3) days before charging of the above transmission element as per Formats III, IIIA, IIIB, IIIC and IIID.

Or

The intimation is incomplete and the following information may be submitted within three (3) days of issue of this acknowledgment receipt.

1. ‐

2.

3.

……………………………..

Date

Signature

Name: Designation:

RLDC

Format III

<Name of Transmission Licensee>

Request by Transmission Licensee for first time charging and start of Trial Operation

## Annexure B1

Past references: :

Name of the transmission element :

Type of Transmission Element : Transmission Line / ICT / Bus Reactor / Line Reactor / Bus / Bay

Voltage Level :

Owner of the Transmission Asset :

Proposed Date and time of first time Charging :

Proposed Date and time of Trial Operation :

Place: Date:

(Name and Designation of the authorized person with official seal)

Encl:

Annexure B2 : Undertaking in respect of Protective systems as per Format IIIA

Annexure B3 : Undertaking in respect of Telemetry and communication as per Format IIIB

Annexure B4: Undertaking in respect of Energy metering as per Format IIIC

Annexure B5: Undertaking in respect of Statutory clearances as per Format IIID

### Format IIIA

< Name and Address of Transmission Licensee> Undertaking by Transmission Licensee in respect of Protective systems

## Annexure B2

The following transmission element is proposed to be charged on <date> tentatively around hours.

S no and Name of transmission element

1.0 It is certified that a l l the systems as stipulated in Part‐III of the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 (as amended from time to time) have been tested and commissioned and would be in position when the element is taken into service.

2.0 The protective relay settings have been done as per the guidelines of the Regional Power Committee (RPC) as per section 5.2 l of the Indian Electricity Grid Code (IEGC). The necessary changes have also been made/would be made appropriately for the following lines at the following substations:

|  |  |  |
| --- | --- | --- |
| Sl No: | Name of the substation | Name of the line |
|  |  |  |
|  |  |  |
|  |  |  |

Place: Date:

(Name and Designation of the authorized person with official seal)

### Format IIIB

< Name and Address of Transmission Licensee>

## Annexure B3

Undertaking by Transmission Licensee in respect of Telemetry and communication

The following transmission element is proposed to be charged on <date> tentatively around hours.

S no and Name of transmission element:

The list of data points that would be made available to RLDC in real time had been indicated vide communication dated \_. It is certified that the following data points have been mapped and real time data would flow to RLDC immediately as the element is charged and commissioned.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S  no | Name of substation | Data point (analog as well as digital) identified in earlier  Communication dated | Point to point checking  done jointly  with RLDC (Y/N) | Data would be available at RLDC (Y/N) | Remarks (path may be specified) |
| 1 | Sending end | Analog |  |  |  |
|  |  | Digital |  |  |  |
|  |  | SoE |  |  |  |
|  |  | Main Channel |  |  |  |
|  |  | Standby Channel |  |  |  |
|  |  | Voice Communication (Specify: ) |  |  |  |
| 2 | Receiving end | Analog |  |  |  |
|  |  | Digital |  |  |  |
|  |  | SoE |  |  |  |
|  |  | Main Channel |  |  |  |
|  |  | Standby Channel |  |  |  |
|  |  | Voice Communication (Specify: ) |  |  |  |

It is also certified that the data through main channel is made available to RLDC as well as alternate communication channel is available for data transfer to RLDC to ensure reliable and redundant data as per IEGC (as amended from time to time). Also, Voice communication is established as per IEGC. The arrangements are of permanent nature. In case of any interruption in data in real time, the undersigned undertakes to get the same restored at the earliest.

Place: Date:

(Name and Designation of the authorized person with official seal)

### Format IIIC

< Name and Address of Transmission Licensee> Undertaking by Transmission Licensee in respect of Energy metering

The following transmission element is proposed to be charged on <date> tentatively around hours.

S no and Name of transmission element:

Special Energy Meters (SEMs) conforming to CEA (Installation and Operation of Meters) Regulations,

2006 have been installed and commissioned. The SEMs are calibrated in compliance of regulation 9 of Part‐I of CEA (Technical Standard for Grid Connectivity) Regulations 2007 as per the following details:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S  no | Name of substation | Feeder name | Make of meter | Meter no | CT  Ratio | PT/CVT  Ratio |
| 1 | Sending end |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 2 | Receiving end |  |  |  |  |  |
|  |  |  |  |  |  |  |

Data Format Conformity: Yes / No

Polarity as per Convention: Yes / No

Time Drift Correction carried out: Yes/No

The data from the above meters would be forwarded on weekly basis to the RLDC as per section

6.4.21 of the Indian Electricity Grid Code (IEGC) (as amended from time to time) and also as and when requested by the RLDC.

(RLDC to indicate the email ids where the data has to be forwarded).

Place: Date:

(Name and Designation of the authorized person with official seal)

## Format III D

< Name and Address of Transmission Licensee> Undertaking by transmission licensee in respect of statutory clearances

It is hereby certified that all statutory clearances in accordance with relevant CERC Regulations and CEA standards/regulations for charging of have been obtained from the concerned authorities.

Place: Date:

(Name and Designation of the authorized person with official seal)