**ANNEXURE B2 / FORMAT IIIA**

**UNDERTAKING BY THE USER IN RESPECT OF PROTECTION SYSTEMS**

**(In compliance to protection code of IEGC 2023 and AEGC 2024 and amendments thereof)**

**< Name of the User >**

**CEA Unique Registration Number (applicable for generating units):**

**Name of the power system element (s):**

**Expected Date and time of first-time energization:**

**Proposed Date and time for commencement of Fresh/Repeat trial run:**

1. It is certified that all the protection systems have been tested a n d commissioned and would be in position when the element is taken into service, in compliance to the Protection Protocol as per IEGC and AEGC 2024 and amendments thereof
2. It is certified that the approval for implementation of new protection system has been obtained from NERPC, vide correspondence dated………………………
3. It is certified that the network data required for performing protection settings study and protection settings implemented for each element mentioned above have been uploaded in the centralized database maintained by NERPC and NERLDC as per Clause 14(3) of IEGC 2023 and amendments thereof.
4. It is confirmed that all protection systems are in service and successful testing of communication signal from sending end to receiving end has been done.

N***ote:*** *The extracted settings from the following listed relay settings\* along with the network data, as applicable need to be uploaded in the aforementioned databases and a copy of listed relay settings shall be enclosed along with Annexure-B2:*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***S.No*** | ***Transmission Line*** | ***Submitted (Yes/No)*** | ***S.No*** | ***Transformers and Reactors*** | ***Submitted (Yes/No)*** |
| 1 | Line /Bus data for updating  network model |  | 1 | Transformer/Reactor data for  updating network model |  |
| 2 | Main-1 and Main-2 Relay  Settings |  | 2 | Differential Relay settings |  |
| 3 | Graded Over-voltage settings |  | 3 | Over-flux settings |  |
| 4 | Back-up Over-current and  Earth Fault settings |  | 4 | Restricted Earth Fault settings |  |
| 5 | STUB Protection and BCU  Settings |  | 5 | Back-up Over-current and  Earth Fault settings |  |
| 6 | Bus Bar relay and LBB protection settings  (also applicable for Bays) |  | 6 | WTI, OTI, PRD, OSR and  Buchholz relay settings |  |

|  |  |  |
| --- | --- | --- |
| ***S.No.*** | ***Generating Unit*** | ***Submitted (Yes/No)*** |
| 1 | Generator/GT/UT data for updating network model |  |
| 2 | Overcurrent/Overload/Unbalance Load Settings |  |
| 3 | Over- and Under Voltage Settings |  |
| 4 | Over- and Under Excitation Settings |  |
| 5 | Over- and Under Frequency Settings |  |
| 6 | Over-fluxing/Over-magnetization and Out of Step settings |  |
| 7 | Stator/Rotor Overload and Stator/Rotor Earth Fault relay settings |  |
| 8 | Impedance Protection Settings |  |

\*The list is not exhaustive and Transmission Licensee/Generating Station may be required to submit and upload additional relay settings, as advised by SLDC /NERLDC/NLDC for requested elements.

\*The settings need to be uploaded in the databases maintained by SPCC and Concerned Testing & Commissioning wing, STU/ other entity in compliance with Reg. 15.6.3 of AEGC, 2024

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

**(not below the rank of Assistant General Manager or equivalent)**

**Place:**

**Date:**