

HARYANA ELECTRICITY REGULATORY COMMISSION

(Communication System for intra-State transmission of electricity) Regulations, 2019 (Draft)

Sl. No.	Description	Summary
1.	Control Period	N.A.
2.	Applicability	<ol style="list-style-type: none"> 1. These regulations shall apply to the constituent/participants in the State transmission system for installation of the communication infrastructure to be used for data communication and tele -protection for the power system at Intra-State level to work in perfect coordination with the Regional Communication system. 2. All Users, SLDC, STU and intra-state Power Exchanges shall abide by the principles and procedure provided in these regulations as may be applicable to them.
3.	Nodal Agency	SLDC shall be the nodal agency for ensuring integration of communication system at Intra-State level with SCADA, WAMS, Video Conferencing Systems(VCS), Automatic Meter Reading(AMR), EPABX, Tele-protection system and the communication system with State Generating Stations, distribution companies, Intra-State entities, intra-State transmission system, etc.
4.	Role of State Government	<ul style="list-style-type: none"> • Prepare a perspective plan for communication duly considering optimal utilization of transmission assets for communication purposes having regards to the transmission planning carried out by the STU in line with the communication planning criterion and guide lines of CEA as well as technical standards, cyber security requirements in accordance with the cyber security policy of Govt. of India from time to time, protocol for the communication system for power sector with in the country. • Carry out periodic review of the perspective plan.
5.	Role of STU	<ul style="list-style-type: none"> • The STU shall be responsible for planning, coordination and development of reliable communication system for data communication within the State. • This shall include appropriate protection path among State Load Despatch Centre, Area LDC, Sub-LDC and DISCOM LDC including Main and backup as applicable along with STU Sub-Stations, intra-State Generating Stations and intra-state entities, IPPs, renewable energy sources connected to the State Transmission system, Intra-State entities, STU, State distribution companies, Centralized Coordination or Control Centres for generation and transmission. • The STU, shall provide access to its communication node to interface the wideband network being implemented by State Transmission Utilities to have a single interconnected network and shall coordinate with Intra-State Utilities for the interface requirement. • The STU shall provide access to its wideband network for grid management and asset management by all users. • The STU shall extend the required support to Control Centres for integration of communication system at respective ends.
6.	ROLE OF State Load Despatch Centre	<ul style="list-style-type: none"> • SLDC shall issue guidelines with the approval of Commission on "Availability of Communication System" in consultation with intra-state transmission licensees, distribution licensees, State generators, STU and other stakeholders within a period of two months from the date of notification of these regulations. • SLDC shall be nodal agency for integration of Communication System in the intra-State network, distribution system and generating stations at SLDC end for monitoring, supervision and control of Power System and adequate data availability in real time. • SLDC shall prepare and issue guidelines with the approval of the Commission on the "Interfacing Requirements" in respect of terminal equipment, RTUs, SCADA, PMUs, Automatic Generation Control (AGC), Automatic Meter Reading (AMR) Advanced Metering Infrastructure (AMI), etc. and for data communication from the User's point to the respective control centre(s) based on technical standards issued by Central Electricity Authority within 60 days of issuance of technical standards.

7.	Role of Users	<ul style="list-style-type: none"> • The Users as defined in these regulation shall be responsible for provision of compatible equipment along with appropriate interface for un-interrupted communication with the concerned control centres and shall be responsible for successful integration with the communication system provided by CTU or STU for data communication as per guidelines issued by NLDC/RLDC/SLDC. • Users shall also be responsible for expansion /up-gradation as well as operation and maintenance of communication equipment owned by them.
8.	Boundary of the communication system	<p>Intra-State Communication System:</p> <ul style="list-style-type: none"> ➤ SLDC (State Inter-connection) ➤ STU ➤ Distribution Companies ➤ State Generating Stations including renewable generators connected to State network. ➤ Sub-stations of STU and State Transmission licensees
9.	Periodic Testing of the Communication System	<ol style="list-style-type: none"> 1. All users that have provided the communication systems shall facilitate periodic testing of the communication system in accordance with procedure for maintenance and testing to be prepared by STU in consultation with CTU within 120 days of notification of these Regulations and approved by the Commission. 2. Testing process for communication network security should also be included even for third party system if exists in accordance with procedure for maintenance and testing to be prepared by STU in consultation with CTU and approved by Commission.
10.	Periodic Auditing of Communication System	<p>The SLDC shall conduct performance audit of communication system annually as per the procedure laid down for the purpose. An Annual Report on the audit carried out by the SLDC shall be submitted to the Commission within one month of closing of the financial year.</p>
11.	Fault Reporting	<ul style="list-style-type: none"> • SLDC, in case of outage of telemeter data or communication failure, shall inform the respective user so that the user shall ensure healthiness of its communication system. • The communication provider shall explore the possibility for route diversion on the existing facility in close co-ordination with concerned provider in case the fault restoration is prolonged. No separate charges shall be paid for such route diversion or channel re-allocation. However, such re-routing shall be discontinued forthwith once the original channel is restored.
12.	Communication System Availability	<p>All users of SLDCs, STUs shall maintain the communication channel availability at 99.9% annually.</p> <p>Provided that with back up communication system, the availability of communication system should be 100%.</p>
13.	Cyber Security	<ol style="list-style-type: none"> 1. Communication infrastructure shall be planned, designed and executed to address the network security needs as per standard specified by CEA and shall be in conformity with the Cyber Security Policy of the Govt. of India, issued from time to time. 2. SLDC shall ensure that third party cyber security audits shall be conducted periodically (period to be decided at SLDC) and appropriate measures shall be implemented to comply with the findings of the audits. The audits shall be conducted by certified third party auditors.
14.	Guidelines/Procedures to be issued by different entities under these Regulations	<p>All the entities shall post the draft Guidelines/ Procedure on its website and invite comments from the general public and stakeholders and finalise the guidelines after considering the comments received from them.</p>
15.	Dispute Resolution	<p>In case of any dispute in giving effect to these regulations, the affected party may approach the Commission with a proper application in accordance with Haryana State Electricity Regulatory Commission (Conduct of Business) Regulations, 2004 as amended from time to time.</p>