

**GUIDELINES FOR PROVIDING TELEMETRY DATA AND COMMUNICATION  
SYSTEM AT SLDC, HEERAPURA, JAIPUR**

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The following guidelines shall be adopted by those who are applying for Grid connectivity to provide telemetry data and communication system to SLDC, Heerapura, Jaipur:

DOCUMENTS TO BE FURNISHED WHILE APPLYING:

- a) Single line Diagram
- b) Block diagram indicating information flow with brief details of each element

INFORMATION TO BE PROVIDED AT ACTUAL PORT:

*(Data to be provided on two communication channels on real time basis)*

- a) Meter readings:
  - 1) Power flow (both active and reactive)
  - 2) Voltage
  - 3) Frequency
- b) Status of Circuit Breaker
- c) Status of Isolator (Optional)

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**INFORMATION REQUIRED FOR PREPRATION OF DATA BASE**

1. Details of Lines: -
  - (a) Line Length
  - (b) conductor type
  - (c) % R, %X of lines
  - (d) Line Name
2. Details of Transformer
  - (a) MVA capacity of All Transformer of your Stations.
  - (b) Normal Tap Position/Tape type
  - (c) %X
3. Details of your Generator/Unit:-
  - (a) MVAR Minimum/Maximum,
  - (b) Inertia constant (MW-sec. /MVA),
  - (c) Maximum/Minimum/ Base MW of unit,
  - (d) Upward and Downward Ramp rate MW/Min.
  - (e) Rated MVA of unit.
4. Normal load (i.e. of radial feeders) and power factor
5. Connected CT ratio of all feeders, all generators and transformers.
6. The RTU & Protocol (i.e RTU Make, MF, Baud rate, data bits, link address max-min ASDU size, Raw Low-Raw High, Engg. Low-Engg-High)
7. The addressing pattern for all Analogs voltage, frequency, MW, MVAR & OLTC (i.e 220/132KV lines, all Transformers & generators) & Measured Value float.
8. The addressing pattern for all digital data (CB all feeders, transformers & reactors) & double point with mili seconds.
9. The addressing pattern for all digital data (Isolators of all feeders, transformers, reactors and bus couplers) & single point with mili seconds.
10. Latest Single line diagram of station.