



KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

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Encl:



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No. CEE/SLDC/SEE-SCADA/EE-TCD(S)/AEE-VSAT/2022-23 / cys-52 Date: 13.09.2023

To,

The Chief Engineer (Electy.)
Transmission Zone, KPTCL
Bengaluru/Tumkur/Bagalkot
Kalaburagi/Hassan/Mysuru

The Chief Engineer (Electy.)
Operations,
BESCOM,CESCOM,
MESCOM, HESCOM, GESCOM

Sir,

Sub: Integration of Main & Check Tariff Energy Meters and Individual Generators (as applicable) of all the IPP bays to SLDC, KPTCL for AMR Solution.

Preamble:

SLDC, KPTCL is proposing to implement AMR solutions, as per the directives of KERC, for all the generators to avoid manual meter reading options for generators and submission of meter data with existing available communication infrastructure and through GPRS technology wherever communication is not available.

Hence, for effective implementation of AMR solutions in the field, following guidelines are issued for the field officers for their understanding.

GUIDELINES

1) Case -1 (Tariff Meters at KPTCL station):

The IPPs injecting radially to KPTCL Sub-stations and Tariff Energy meters located at KPTCL sub-station end has to make following arrangements;

a) Bulk meter Integration:

The firm has to provide and install Data Concentrator Unit (DCU).The make of the DCU shall be KPTCL approved vendor and integrate to KPTCL VSAT communication network.

b) Individual generator meters located at pooling station:

The IPPs having multiple generators at his pooling station, needs to provide data of all the individual generators to SLDC for AMR through GPRS Technology to SLDC.

- i. DCU/ GPRS-modem for individual meters to be procured and installed to integrate the meters
- ii. Integrate generator meters (with RS 232 or RS 485 communication port) to SLDC, KPTCL through GPRS network.

2) Case -2 (Tariff Meters at pooling station):

For the IPPs, where in Tariff Energy meters are located at pooling station end, they have to provide infrastructure for GPRS communication network to integrate bulk meter and individual generator meters to SLDC.

a) Bulk meter and Individual generator meter Integration:

- i. DCU/GPRS-modem for each generators to be procured and installed in respective metering cubicle to integrate the meters.
- ii. Integrate Bulk meter and generators Energy Meters with RS 232 or RS 485 communication port for AMR through GPRS Technology to SLDC.

3) Case-3 : IPPs injecting at 33kV Sub-stations

IPPs interconnected to 33kV sub-stations, have to provide infrastructure for GPRS communication network to integrate bulk meter at ESCOM station/pooling station and individual generator meters at the pooling station end to SLDC.

- i. DCU/GPRS-modem for each generators to be procured and installed in respective metering cubicle to integrate the meters.
- ii. Integrate Bulk meter at ESCOM station/pooling station and generators Energy Meters (with RS 232 or RS 485 communication port) for AMR through GPRS Technology to SLDC.

4) Case-4: Multiple generators injecting at same KPTCL station/ESCOM Station.


Each IPP/generator has to provide and maintain the DCU(as stated in case-1) for integrating the respective meters to SLDC.

General Conditions:

- a) Installation of the DCU and meter integration work should be carried out in coordination with concerned TL&SS, RT/MT, TCD/SCADA officials. On completion of work, Meter integration report (as per the annexure-1) duly signed by the officials, IPP representative and the agency to be furnished to SCADA-SLDC.
- b) The firm has to maintain the DCU/GPRS Modem and its accessories to provide data to SLDC for AMR solution.

- c) In case of replacement of Energy meters due to non-functionality should be reported to SLDC along with the meter reports. Released and replaced meters details including the initial and final readings of the meters duly signed by the concerned officials has to be furnished to SLDC.
- d) Any change with respect to CT ratio or Meter constant should also be intimated to SLDC along with necessary reports.
- e) Specification of Energy Meter, DCU specifications and Modem specifications is mailed to all TL&SS divisions.
- f) SAMAST New web-portal” <https://mdas.kasamast.in>” to upload the Energy meters data.

Yours Faithfully


13/1/23
Chief Engineer (Electy.,)
SLDC, KPTCL Bengaluru

Copy for information to:

1. SEE SCADA, KPTCL, Bengaluru,
2. EE SCADA-MIS, KPTCL, Bengaluru,
3. MF/OC