

PUNJAB STATE TRANSMISSION CORPORATION LTD.

GUIDELINES FOR INSTALLATION OF METERING EQUIPMENTS AND ARRANGEMENTS AT THE PREMISES OF OPEN ACCESS CUSTOMERS.

The following guidelines are to be strictly implemented for installation of metering equipments including ABT compliant special energy meters (SEM) of accuracy class 0.2S/0.2 and connecting arrangements for metering of open access customers.

A) Open Access Customer's Premises (To be complied by OA Customer)

- i) Open Access Customers injecting power in to PSPCL/PSTCL system shall provide separate line bay with line protection scheme at both ends to take care of any fault on line.
- ii) Meters are to be installed directly on line without any isolator in between line and metering CTs/PTs.
- iii) Metering CTs/PTs should be exclusively for PSPCL metering. Customers may install any additional meter with separate CT/PT.
- iv) CTs of 0.2S and 0.2 accuracy class is to be installed where CT output is 5A (in case of 11 kV) and 1A (in case of 66/132/220 kV) respectively. However PTs of accuracy class 0.2 are to be used.
- v) Metering CT/PT should be exclusive for metering purpose. These will not be allowed for protection purpose. However metering CT/PT are to be provided with minimum two metering cores, one core to be used for main ABT meter & 2nd core to be used for check meter & TPT meter.
- vi) The meter should be installed nearest to the CT/PT in separate room, with easy/free access by PSPCL/PSTCL staff.

- vii) All connecting cables from CT/PT to meters should be routed through conduit pipe duly welded.
- viii) Un-climbable fencing around metering, CT, PT area is to be provided which will be sealed by PSPCL.
- ix) Use of only single ratio metering CTs will be allowed. Multi ratio CTs are not to be used in any case.
- x) Metering CTs/PTs, bottom plate needs to be welded after testing/installation at site.
- xi) Open access customer (non-consumer of PSPCL) is required to provide two communication channels at his own cost for communication of metering data to SLDC control room.
- xii) Consumers who have already installed CT/PT without witness/checking of PSPCL shall get the same tested in the presence of PSPCL representative. The CT/PT may be got tested from PSPCL or NABL accredited lab.
- xiii) Meter is not to be installed in the control room of consumer's substation.

B) Compliance by PSPCL

At Consumer end:

- i) Installation of check Meter
- ii) TPT meter installed for consumers injecting & drawing power to be import/export type of accuracy class 0.2S.

At PSPCL/PSTCL Sub Station end

- i) Supply should not be tapped from Bus PT. Exclusive line CTs and PTs are to be installed for metering at Sub Station end. CT/PTs provided shall have two metering cores.
- ii) Meters are to be installed near line bay in Sub Station Yard.