



**PUNJAB STATE TRANSMISSION CORPORATION LIMITED**  
( Punjab Govt. Undertaking, Regd. Office – PSEB Head office, The Mall, Patiala )

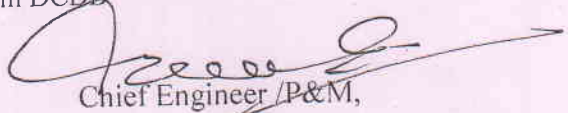
**OFFICE OF THE Engineer in Chief/P&M, Ludhiana**  
**OFFICE ORDER**

O/O No- 172.

Date- 03/7/14.

Keeping in view the safety of sub-stations compliance to the following instructions should be made immediately-


1. In the 3<sup>rd</sup> meeting of Protection Co-ordination Committee of state of Punjab held on 3<sup>rd</sup> June 2014 in the chamber of undersigned, it was decided that since nowadays there is a practice of T-offs from existing 66 KV lines and in some cases 66 KV lines are quite short i.e up to 10 kms or radial. Due to this, it is not possible to make proper settings in distance protection relays. Practically also, it has been observed that distance protection relays are ineffective in fast clearing of faults in such cases. So it was decided that for all 66 KV lines emanating from 220/132 KV S/S's, wherever numerical back up over current relays are installed, the high set unit (HSU) feature shall be activated at four times the normal current. Similarly same settings shall be activated on 11 kV outgoing feeders where ever numerical relays are installed on 11 KV breaker panels for the safety of power transformers, in case of close by faults. Also, rather than replacing defective distance protection relays on 66 KV panels, it should be ensured that all 66 KV lines have numerical backup overcurrent and earth fault relays with HSU feature. The HSU earth fault relays shall be kept at six times the setting of 20%.
2. Sr XEN/P&M and SSE shall be responsible for the condition of DC battery. In case of earth fault leakage of DC all efforts shall be made by them to attend the DC leakage at their own level or with the support of Sr XEN/Protection.
3. Where ever the normal DC load of a sub-station is more than 15 A, separate DC battery source shall be provided for 220 KV panels
4. All the 220 KV panels shall be provided with separate/independent cable and point of supply from DCDB. Similarly not more than three <sup>132 KV</sup> 66 KV panels shall be provided with separate/independent cable and point of supply from DCDB

  
Chief Engineer /P&M,  
PSTCL, Ludhiana.

Date- 03/7/14.

Endst No- 6152/6314

1. All Dy C.E's/S.E's under P&M Zone, PSTCL, Ludhiana
2. All ASE's/Sr Xen's/P&M under P&M Zone, PSTCL, Ludhiana
3. All SSE's/AEE's/P&M under P&M Zone, PSTCL, Ludhiana

  
Addl S.E, Protection Division,  
PSTCL, Ludhiana.

6315  
03/7/14.

CC

Dy Secretary to Director/Technical, PSTCL, Patiala