

**Subject: In the matter of levy of penalty for tripping in excess of agreed numbers on 33KV and 11KV feeders emanating from EHV substations.**

**Petition No.61 of 2007**

**ORDER**

**(Date of Hearing: 24<sup>th</sup> November, 2009)**

**M. P. Power Transmission Company Ltd., Jabalpur - Petitioner**  
**M. P. Paschim Kshetra Vidyut Vitaran Co. Ltd., Indore - Respondent No.1**  
**M. P. Madhya Kshetra Vidyut Vitaran Co. Ltd., Bhopal - Respondent No.2**  
**M. P. Poorv Kshetra Vidyut Vitaran Co. Ltd., Jabalpur - Respondent No.3**

Shri V. DS'ouza, EE and Shri D. Chakraborty, EE appeared on behalf of the Petitioner - M. P. Power Transmission Company Ltd. (MP Transco), Jabalpur.

Shri S. K. Agrawal, ASE of East Discom, Jabalpur, Shri S. S. Tripathi, ASE (Com.) of West Discom, Indore and Shri Rajeev Keskar, AGM (DCE) of Central Discom, Bhopal appeared on behalf of the respondents.

The Petition is in the matter of proposal for levy of penalty filed by MP Transco for trippings in excess of agreed number of trippings on 33KV and 11KV feeders emanating from EHV substations.

2 The last hearing in the matter was held on 30<sup>th</sup> October, 2007 when the petitioner was asked to indicate the provisions of law or Regulation under which the petition was filed. The petitioner had stated in the petition that the proposed penalty may be treated as compensation under section 57 (2) of the Electricity Act, 2003 and the provision may be included in the M. P. Electricity Grid Code for limiting the occurrence of the tripping on EHV substations due to Distribution Licensees' network and the compliance to it may be made part of the Standard of Performance. The Discoms were made respondents in the matter and asked to file their response on the issues raised by the petitioner.

3 The Commission, in order to gather the status of tripping with the reasons along with the existing protection systems in the sub-transmission network, called the old proceedings of the Protection Coordination Committee (PCC) from the petitioner. The Commission had observed the following from the minutes of the proceedings of PCC:-

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- (i) In the meeting held on 16<sup>th</sup> July, 2005, it was decided that in case of 33KV feeders, the function of backup protection shall be performed by incoming breaker and no separate relay shall be provided on each 33KV feeder. There were also a proposal for arranging high set over current relay on 5MVA transformers. There is no mention in subsequent meetings, whether such relays were provided.
- (ii) In the meeting held on 29<sup>th</sup> March, 2006, it was proposed to limit the number of trippings on 33KV feeders. This proposal was to be sent to Grid Code Review Committee.
- (iii) In the meeting held on 8<sup>th</sup> June, 2006, no issue related to excessive tripping of Discom was discussed.
- (iv) In the meeting held on 21<sup>st</sup> November, 2006, it was proposed to connect balance 33KV feeders at new EHV sub-stations to reduce the line length of 33KV feeders for reduction in fault trippings.
- (v) In the meeting held on 28<sup>th</sup> March, 2007, details of number of trippings were distributed amongst members and it was advised to take immediate action to reduce fault trippings.
- (vi) In the meeting held on 23<sup>rd</sup> June, 2007, the issue regarding excessive trippings came up during discussion and Central and East Discoms were advised for necessary action.
- (vii) In the meeting held on 29<sup>th</sup> October, 2007, the Discoms were advised to ensure proper maintenance of respective feeders.
- (viii) The issue of excessive tripping was not discussed in the meetings held on 11<sup>th</sup> February, 2008 and 23<sup>rd</sup> June, 2008.

4 Meanwhile, it was proposed by the petitioner during the course of one review meeting held on 2<sup>nd</sup> July, 2008 that an officer from the Commission may also be deputed to attend the next meeting of PCC, which was to be held at Jabalpur on 16<sup>th</sup> October, 2008. The meeting on 16<sup>th</sup> October, 2008 was attended by the officer of the Commission wherein it was observed that the analysis of the trippings is not undertaken in greater technical details with remedial measures. It was proposed that the reasons for excessive tripping be segregated on the following lines :-

- (i) Poor maintenance of lines
- (ii) Inadequate facilities at Discom's Sub-stations
- (iii) Requirement of reconfiguration and bifurcation of line
- (iv) Protection coordination
- (v) Mal-operation of protection coordination system at Transco sub-station

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5 The proposal with respect to top 10 feeders from each Discom was sought in the meeting on the following account :-

- (i) Short term and Long term low investment measures
- (ii) Short term and Long term high investment measures

6 The Commission received written response from Central Discom, Bhopal only. The two other Discoms did not submit their response. During the course of hearing today, the representative of the petitioner has submitted before the Commission that the position of the trippings at Transco sub-stations has now improved significantly and it is indicating a decreasing trend as compared to past years in East and West Discoms. The status of trippings has also improved in Bhopal region of Central Discom. But the sub-transmission network at Gwalior region needs attention of the Central Discom for improvement. The petitioner has further submitted that the petitioner has now no intention of imposing penalty on the Discoms but wishes that the trippings of 33 and 11 KV feeders emanating from EHV sub-stations be reduced. The representative of the petitioner has shown a rising trend of trippings in almost 4 feeders out of 10 identified feeders of Gwalior region under Central Discom.

7 The Commission observed from the status of trippings placed before the Commission by the petitioner that there is still rising trend in 4 feeders out of the 10 feeders in Gwalior region. The representative of the Central Discom did not concur with the status of trippings submitted by the petitioner during the course of hearing. The representative of the Central Discom submitted that the status of trippings being informed by the petitioner on regular basis does not match with the number of trippings placed before the Commission by the petitioner.

8 The Commission directs the petitioner and the Central Discom to reconcile the status of trippings of all 10 identified feeders and the Central Discom should draw a comprehensive time bound action plan within two months for reduction of trippings on the feeders having excessive tripping.

9 The Commission directs that the West and East Discoms should also draw a similar comprehensive action plan for reduction of trippings on all such feeders emanating from EHV sub-stations which have excessive trippings. These action plans should be submitted to PCC and PCC should review the implementation of this action plan in light of the reduction in trippings on the feeders. These action plans along with monitoring mechanism should be submitted in the next PCC meeting and the status of implementation of this action plan in each Discom along with the reduction in number of trippings on each 33 and 11 KV feeder emanating from EHV sub-stations be submitted to the Commission after 3 months along with the minutes of the Protection Coordination Committee meetings.

**Dated : 8<sup>th</sup> December, 2009**

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10 With the above directions, this petition stands disposed off.

**(C. S. Sharma )  
Member (Eco.)**

**(K. K. Garg)  
Member (Engg)**

**(Dr. J. L. Bose)  
Chairman**