

[Keynote Talk]: Implementation of 5 Level and 7 Level Multilevel Inverter in Local Trains of Mumbai

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Abstract : Local trains are the lifelines of Mumbai city. Earlier 1500 Volt D.C. supply, is now completely and successfully converted into 25 KV A.C. in central, western and harbour routes. This task is the outcome of the advancement in the area of power electronics. Author has already done the comparative study between D.C. and A.C. supply of traction and predicted the serious problem regarding the harmonics. In this paper, the simulation for 5 level as well as 7 level multilevel inverter has been done which is the substitute for the present cascade type inverter. This paper also showed the reduced level of Total Harmonic Distortion (THD) in the traction system.

Keywords : total harmonic distortion (THD), traction sub station (TSS), harmonics, multilevel inverter

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