CONTENTS

				Page
Foreword				(iii)
1.	Introduction			
2.	Objective			4
3.	Scope of Study			5
4.	Review			6
5.	Mathematical Model/Research Proceedings			11
	5.1 Mathematical model of power transmission line taking into account the effect of earth wire and ground resistivity			11
	5.2 Transformation of line model into modal components			12
	5.3	.3 Development of excitation function for corona generated noise and application to desired lines		
	5.4 Development of software for the computation of corona noise			20
	 5.5 Measurement of corona noise 5.6 Procedure for computations of corona noise 5.7 Computations of corona noise of selected lines/numerical results 5.8 Power line carrier communication model 			21
				24
				24
				37
	5.9	Developmer	nt of software for PLCC and application to desired lines	39
	5.10	Remedial measure suggestions for corona noise reduction		
	Annex	ure i :	Series - Impedance	40
	Annexure II :		Source Code of the Programme	44
	Annex	are III :	Line Data	135
	Apper	ndix I :	Detailed computed/measured results - Comparison of Measurements and Computations of Corona Noise	138

6. Conclusion

142