CONTENTS

	PA	
	Foreword	(ii)
1. 2. 3.	Key Note Addresses Shri P.L. Nene Shri M.S. Billore Shri C.L. Acharekar	1 14 29
	Technical Papers	
1.	Latest Trends in Design of Hydro Turbines — S.V. Pandey and N.K. Swarnakar	1
2.	Generator Circuit Breakers in Hydro Electric Power Plant — Roussel L. Myszka,	7
3.	Application of FEM Techniques in the Design of Hydro Turbines — R.K. Girdonia S.V. Pandey and A. Mandal	18
4.	3 Phase Split Transformer — M. Vijayakumaran	34
5.	Micro Processor based Electro Hydraulic Governor for Hydro Turbine — M.P. Shrivastava and A.K. Agrawal	41
6.	Vibrations in Hydro Generators — Causes and measures to overcome them — H.S. Duggal and S. Lomash	51
7.	Vibration Phenomena in Hydraulic turbine Generator sets — Zafar Mehdi	66
8.	Significance of Shaft vibrations in Hydro machines and process of dynamic balancing to reduce them — J.K. Quddusi	83
9.	Vibration in hydro Generators causes, analysis & remedial measures — Ramesh C. Sharma and T.R. Khajuria	96
10.	BHEL experience in modernisation & renovation of Generators in old Hydro Power Station — K.B. Raju and S.R. Awasthi	107
11	Present Scenario for pioneering Trend in R&M and uprating of old HEPs in Karnataka — S.M. Zafrulla, A.S. Vishwanath and P.L. Chaithanya Prabhu	119
12.	Optimisation Studies for Selection of Turbines for hydroelectric Power Stations — KPCL — Muralidhar Rao and T.A. Rangamani	121
13.	Ventilation system in Hydrogenerators with special reference to radial ventilation system — H.C. Shrivastava and S. Lomash	133
14.	Computerised control system of Nathpa Jhakri Hydro Electric Project - Design features B.M. Goswami, M. Subramanian and R.S. Jalta	147