

# CONTENTS

<b>SECTION NO.</b>	<b>PARTICULARS</b>	<b>PAGE NO.</b>
1	INTRODUCTION	1-1 to 1-3
2	DESIGN ENERGY	2-1 to 2-2
3	AUXILIARY CONSUMPTION AND TRANSFORMATION LOSSES	3-1 to 3-4
4	AVAILABILITY	4-1 to 4-3
5	OPERATION AND MAINTENANCE EXPENSES	5-1 to 5-6
6	DEEMED GENERATION	6-1 to 6-4
7	INCENTIVES	7-1 to 7-3
8	WORKING CAPITAL	8-1 to 8-2
9	CONCLUSIONS AND RECOMMENDATIONS	9-1 to 9-3
10	DEFINITIONS	10-1 to 10-2

## ANNEXURES

1	Letter of Award
2	Single Line Diagram of a Typical Hydro Plant
3	Auxiliary Consumption and Transformation Losses in some Hydro Electric Plants (Surface and Semi Underground Power Houses)
4	Auxiliary Consumption and Transformation Losses in some Hydro Electric Plants (Underground Power Houses)

- 5 Power Requirement for Excitation of Generator
- 6 Transformation Losses
- 7 Auxiliary Consumption and Transformation Losses in some Hydro Electric Plants in Uttar Pradesh
- 8 Details of Connected Load of Auxiliaries of Khodri Power Station
- 9 Auxiliary Consumption and Transformation Losses in some NHPC Plants
- 10 Calculation of Excitation Consumption of NHPC Plants
- 11 Calculation of Transformation Losses for NHPC Plants
- 12 Data on Hydro-Electric Projects in Operation in Zimbabwe
- 13 Components of Operation and Maintenance Expenses
- 14 O&M Expenses in some of the Hydro Plants
- 15 O&M Expenses in some Hydro Plants in Uttar Pradesh
- 16 O&M Expenses in some of NHPC Hydro Plants
- 17 Annual Expenses of NHPC Plants
- 18 Norms for Manpower Calculation for Hydro Power Plants