ORISSA ELECTRICITY REGULATORY COMMISSION

BIDYUT NIYAMAK BHAWAN, UNIT - VIII, BHUBANESWAR - 751 012.

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Present: Shri D. C. Sahoo, Chairman

Shri H. S. Sahu, Member Shri B. C. Jena, Member

CASE No. 64 / 2002

DATE OF HEARING : **04.04.2003**

DATE OF ORDER : 28.06.2003

IN THE MATTER OF

An application for approval of Revenue Requirement

and Retail Supply Tariff and charges under Section 26 of the Orissa Electricity Reform Act 1995, for the

financial year 2003-04

ORDER

Order on Retail Supply Tariff, FY 2003-04 for WESCO (Case No.64/2002)

TABLE OF CONTENTS

SL. NO.	Para. No.	Particulars
1	1	Introduction
2	2	Procedural History
3	2.8	Legal Objections as to the maintainability of the Cases
4	3	WESCO's Proposal
5	4	Objections during hearing
6	4.8	Clarification from WESCO by the Commission
7	5	WESCO's rejoinder to objections
8	5.6	WESCO's response to issues raised by the Commission
9	6	Commission's observation and analysis of licensee's proposal
10	6.1	Scenario of the power sector reform in Orissa
11	6.2	Restructuring of the Power Sector
12	6.3	Strategies for improvement of power sector

13	6.4	Recommendations of Deepak S. Parekh Committee
14	6.5	Decision of Govt. of Orissa on recommendations of Kanungo Committee and on suggestions of OERC
15	6.6	Implementation of multi -year tariff strategy
16	6.7	Implementation of Availability Based Tariff (ABT)
17	6.8	Securitisation of Power Purchase Dues
18	6.9	Reasonable Return
19	6.10	Treatment of Working Capital
20	6.11	Swapping of dues receivable from the Govt.
21	6.12	T & D Loss
22	6.13	AT&C loss (Aggregate Technical and Commercial Loss)
23	6.14	Method of Determination of Power Purchase
24	6.15	Determination of expected revenue
25	6.16	Collection efficiency of DISTCOs
26	6.17	Overdrawal of Power
27	6.18	Operating Expenses
28	6.18.1	Employees Cost
29	6.18.2	Repair & Maintenance Expenses
30	6.18.3	Administration & General Expenses
31	6.19	Interest on Loan
32	6.19.7	World Bank Loan
33	6.19.8	NTPC Bond
34	6.19.9	APDRP Assistance
35	6.19.10	Interest Capitalised
36	6.19.11	Interest on Working Capital as proposed
37	6.20	Depreciation
38	6.21	Assumption Methodology adopted to comply with the orders of Hon'ble High Court
39	6.22	Bad & Doubtful Debt
40	6.23	Previous Loss
41	6.24	Contribution to contingency reserve
42	6.25	Capital Base
43	6.25.2	Receipts against consumers contribution
44	6.25.3	Original cost of Work in Progress
45	6.25.4	Compulsory Investment under Para IV
		2

46	6.25.	Working Capital
47	6.25.6	Average Cost of Stores
48	6.26	Average Cash and Bank Balance
49	6.26.2	Accumulated Depreciation
50	6.26.3	Loans and Bonds
51	6.26.4	Consumers' Security Deposit
52	6.26.5	Reasonable Return
53	6.27	Miscellaneous Receipt
54	6.28	REVENUE REQUIREMENT
55	6.29	Tariff Issues
56	6.30	Multi-year Tariff
57	6.31	Implementation of Long TermTariff Framework
58	6.32	Performance Target
59	6.32.3	Uniform Retail Tariff
60	6.32.4	Cross Subsidy
61	6.33	Industrial Policy Framed by Government of Orissa
62	6.34	Charging of Security Deposit by Licensee
63	6.35	Demand charges during statutory power cut
64	6.36	Quality of supply and service
65	6.37	Unauthorised and Illegal abstractio of electricity
66	7	Determination of Tariff
67	7.2	Kutir Jyoti Consumers
68	7.2.2.	Load Factor Billing
69	7.3	Incentive for maintaining high power factor
70	7.4	Incentive for prompt payment
71	7.5	Industrial Colony Consumption
72		madstrar colony consumption
, _	7.6	Railway Traction Tariff
73		
	7.6	Railway Traction Tariff
73	7.6 7.7	Railway Traction Tariff Construction Power
73 74	7.6 7.7 7.8	Railway Traction Tariff Construction Power Penality for Overdrawal of Power
73 74 75	7.6 7.7 7.8 7.9	Railway Traction Tariff Construction Power Penality for Overdrawal of Power Observation for incentive for higher consumption
73 74 75 76	7.6 7.7 7.8 7.9 7.10	Railway Traction Tariff Construction Power Penality for Overdrawal of Power Observation for incentive for higher consumption Meter Rent

80	7.14	Reconnection Charge	
81	7.21	Disposal of the Tariff Application	
83		Annex- A Revenue Requirement for FY 200	3-04
84		Annex -B Calculation of Clear Profit for FY	7-2003-04
85		Annex – C Tariff effective from	2003
86		Annex – (C-1) Tariff effective from	2003

1 INTRODUCTION

M/s. Western Electricity Supply Company of Orissa Limited, Burla, Sambalpur (in short WESCO), the holder of The Orissa Distribution and Retail Supply Licence, 1999 (No.4/1999) has submitted an application u/s 26 of the Orissa Electricity Reform Act, 1995 (in short Reform Act, 1995) in respect of its Revenue Requirement and Tariff for Retail Supply of electricity for different categories of consumers. Its application for determination of Retail Supply Tariff for the financial year 2003-2004 has been registered as Case No. 64 / 2002. This case has been heard on 4th April, 2003 and is being disposed off by this order of the Commission.

2 PROCEDURAL HISTORY

- 2.1 On examination of WESCO's application, it was noticed that information and analysis with regard to a number of items, which are extremely relevant for determination of Retail Supply Tariff and Revenue Requirement had not been furnished. The Commission forwarded its comments/queries to WESCO calling for clarifications as well as additional information/particulars.
- 2.2 Subsequently, the licensee furnished the same and thereafter, filing of the application was treated as complete and the application admitted for hearing. The Commission has always essayed to render transparent, participatory and consultative approach to the entire process of the utility's Revenue Requirement and Tariff setting.
- 2.3 In order to invite objections from the public, the licensee was directed to publish public notices on the proposed Retail Supply Tariffs in the format approved by the Commission.
 - 2.3.1 Notices were published in different leading English and Oriya daily newspapers having wide circulation in the licensee's area of supply and in the Commission's website www.orierc.org indicating the broad features of the licensee's proposed Revenue Requirement & Tariffs.
 - 2.3.2 The intending objectors had exercised their right to inspect/peruse the licensee's application and to obtain the salient features of the applications / full set of applications on payment of the prescribed fees from the specified offices of the licensee.
 - 2.3.3 In response to the above notices, objections were received from different quarters. The Commission received as many as 30 objections from the following persons/associations/bodies:
 - (1) Orissa Young Entrepreneurs Association, District Chapter, Sambalpur; (2) Sambalpur Petroleum Dealers Association, HPCL Petrol Pump, Sambalpur; (3) M/s Orissa Cement Ltd., Rajgangpur, Dist. Sundargarh; (4) Orissa Consumers' Association, Biswanath lane, Cuttack; (5) M/s IDCOL Cement Ltd., P.O. Bardol, Dist. Bargarh; (6) Sri R.C. Padhi, Brit Colony, Nayapalli, Bhubaneswar; (7) Kalahandi Consumers' Welfare Organisation, Bhawanipatna; (8) Aditya Aluminium, 333, Sahid Nagar, Bhubaneswar; (9) M/s Shrishti Ispat Ltd., Rajgangpur; (10) M/s Shivam Steel Corporation, Kalunga, Dist. Sundargarh; (11) M/s Scan Steels Ltd., Rajgangpur; (12) M/s Ashoka Re-rolling Mills (P) Ltd., Udit Nagar, Rourkela; (13) M/s Pareek Ferro Pvt. Ltd., Kacheri Road, Rourkela; (14) M/s Utkal Alloys Pvt. Ltd., Udit Nagar, Rourkela; (15) M/s Utkal Steel Ltd., Udit Nagar, Rourkela; (16) Rourkela Chamber of Commerce & Industries, By-pass Road, Rourkela; (17) S.E. Railway, Calcutta; (18) M/s Maa Laxmi Steels (P) Ltd., Chikitamati, Kalunga; (19)

Rourkela Steel Plant, Rourkela; (20) Shri R.P. Mohapatra, 775, Jayadev Bihar, Bhubaneswar; (21) M/s Utkal Chamber of Commerce & Industry Ltd., Jayadev Bihar, Bhubaneswar; (22) M/s Larsen & Toubro Ltd., Kansbahal, Dist. Sundargarh; (23) M/s Omkar Steel Pvt. Ltd., Civil Township, Rourkela; (24) M/s Mahanadi Coalfields Ltd., Jagruti Vihar, Burla; (25) M/s Scan Sponge Iron Ltd. (Rolling Mill Unit), Bijabahal, Kumjharia, Dist. Sundargarh; (26) M/s Scan Sponge Iron Ltd. (Induction Unit), Bijabahal, Kumjharia, Dist. Sundargarh; (27) M/s Refulgent Ispat Pvt. Ltd., Civil Township, Rourkela; (28) M/s Indian Aluminium Company (INDAL), Hirakud, Dist. Sambalpur; (29) M/s Sreeram Sponge Steels (P) Ltd., Rajgangpur, Dist. Sundargarh; (30) Orissa Small Scale Industries Association, Industrial Estate, Cuttack-10. These objections were scrutinised found valid and admitted for hearing.

- 2.4 The licensee was given chance to file rejoinders, if any, to the objections filed by the objectors and the licensee filed its rejoinders serving copies to the objectors.
- 2.5 The date of hearing was fixed on 4 April 2003. Notices were published in leading English and Oriya daily newspapers and also made available in the Commission's website www.orierc.org requiring the licensee and the objectors to appear personally or through their authorised representatives or duly constituted attorneys to take part in the hearing. The Commission also issued notice to the State Government to appear as an interested party. The Commission has neither received any response from the state government nor any representative on behalf of the State Government was present during the hearing. Some objectors also raised this issue during hearing and expressed their concern on the indifference and callousness on the part of the State Government on such a sensitive and important issue.
- 2.6 The case was heard on 4 April 2003. WESCO's case was presented by the Managing Director, WESCO, who supported the application and prayed for approval of the Revenue Requirement as well as the new tariff proposal. Objectors present were heard in person or through their authorised representatives or duly constituted attorneys. The Chairman of the Commission as well as the members raised certain queries to the licensee by way of clarification. Subsequently, the licensee submitted required clarifications to these queries.
- 2.7 In its consultative process, the Commission convened the Commission Advisory Committee (CAC) meeting on 9 April 2003 and consulted its constituent members about the proposed tariff and revenue requirement proposal of the licensee.

2.8 Legal Objections as to the maintainability of the Cases

- 2.8.1 During the hearing, some of the objectors including the Orissa Consumers' Association, Cuttack and the Orissa Small Scale Industries Association, Cuttack raised objections regarding the maintainability and tenability of the cases and requested for rejection of the same on the ground that OERC has not framed any regulation, by notification in the official Gazette, to determine terms and conditions for fixation of the tariff under Sec 29 of ERC Act and Sec 26 of the Reform Act, in the absence of which, the Commission cannot proceed with the application. The Commission has not prescribed any methodology or procedure for calculating the expected revenue from charges, which the licensee may be permitted to recover pursuant to the terms of its licensee and for determination of tariff to collect these revenues.
- 2.8.2 They further added that as the Commission is going to pass final orders in this case without following the procedures laid down in Sec 29 of the Orissa Reform Act, 1995, the proceedings are vitiated.

- 2.8.3 As per the provisions of Sec 57 and 57 A of the Electricity (Supply) Act, 1948 read with the Sixth Schedule of the Electricity (Supply) Act, 1948, no application for the revision of tariff can be made within three years.
- 2.8.4 The Hon'ble High Court, Orissa, in its order dated 3 February 2003 and 14 March 2003, has directed this Commission to make necessary calculations for determination of tariff for the financial year 2002-'03 taking into account the Govt. of Orissa Energy Department Notification No. 1068/E dated 29 January 2003. Some of the objectors raised that till the base year tariff, i.e., for FY 2002-2003 is determined, any attempts to determine the tariff for the ensuing year, i.e., FY 2003-2004 is infructuous.
- 2.8.5 Issues at paras 2.8.1 and 2.8.3 were raised during the tariff proceedings in Case No. 12/1000 and again in Case No. 65/2001 & 4/2002 and had been dealt with by the Commission giving clear findings that such objections were invalid. The Hon'ble High Court of Orissa were pleased to deal with these objections and did not find validity in any of them as per their order dated 22 December 2000 passed in M.A. No. 51/2000. The Commission finds no reason to depart from its earlier findings and hence, such objections are to be over-ruled. As regards the objection raised in para 2.8.2 above, Sub-Section (1) of Sec 28 of the Reforms Act, 1995 contemplates that where the Commission is satisfied that a licensee is contravening, or is likely to contravene any relevant conditions of its license, it shall by final order under Sec 29 and, if it thinks it appropriate with Sub-Section (2) by interim order under this Section, issue such directions as it deems proper for securing compliance. Final order, as envisaged u/s 29 of the Reform Act, 1995 must relate to the contravention of a condition of license by the licensee. But the present proceedings relate to the determination of tariff and revenue requirement and do not contravene any condition of the licence by the licensee. Therefore, we are of the considered opinion that Sec 29 of the Reform Act, 1995 has no relevance to the present proceedings and the contentions raised on this score are not tenable in the eyes of the law.
- 2.8.6 The Commission also has taken note of the order dated 14 March 2003 of the Hon'ble High Court of Orissa in Miscellaneous Cases 414 and 560 arising out of OJC 6731, wherein the court had directed that "though the OERC can continue the exercise for determination of the tariff, the same shall not be given effect to without leave of this court". Hence, this tariff order can be published only after taking leave of the Court.
- 2.8.7 The Commission, therefore feels that none of the legal objections raised by the various objectors has any force in the eyes of the law and that the Commission has to proceed according to the procedure and principles established by us in the last five sets of tariff orders as well as follow the principles governing the LTTS. We now proceed to examine the present tariff filing of WESCO and record our findings on the same.

3 WESCO'S PROPOSAL

- 3.1 The Western Electricity Supply Company of Orissa Ltd. (WESCO) has been carrying out the business of distribution and retail supply of electricity in nine districts of State of Orissa, namely, Sambalpur, Sundargarh, Bolangir, Bargarh, Deogarh, Nuapara, Kalahandi, Sonepur and Jharsuguda. The company receives bulk supply from GRIDCO at fifty seven interface points at EHT and HT.
- 3.2 The profile of the company as on 31st March, 2003 gives an overview of its current activities.

Total consumer strength - 4,09,804 nos.

Total input in MU - 3353.720 (April 02 to Mar'03)

Total billing in MU - 2069.272 (April 02 to Mar'03)

Total billing to consumers in (Rs. in lakhs) - 61902.17 (April 02 to Mar'03)

33 KV lines (in Kms.) - 2625.59

11KV lines (in Kms.) - 17167.4

LT lines (in Kms.) - 13616.31

33/11KV Transformers - 199 nos.

No. of Distribution Transformers - 10775nos.

3.3 The comparative figure of consumption at different voltage levels as well as energy purchase in MU has been taken from various filings with the Commission and tabulated to serve as indicators about the trend & pattern of consumption in the area of the licensee.

Table-1
Energy Sale & Purchase

(ALL FIGS. IN MU)

						1001111110)
Sagmant	FY 99	FY 00	FY 01	FY 02	FY 03	FY 03-04
Segment	Г 1 99	F I 00				(Proposed)
LT Category	524	656.846	716.058	692.531	773.626	845
HT Category	347	352.406	347.262	291.770	307.939	319
EHT Category	603	491.579	565.672	611.48	987.707	1116
Total Sales	1474	1500.831	1628.892	1595.781	2069.272	2280
Energy Purchase	2671	2688.429	2867.767	2979.287	3353.720	3500

3.4 Sale Mix Analysis

The voltage-wise sale mix of consumers which indicates that the consumption is loaded in favour of EHT category, slab-wise energy sales and category-wise consumer growth during 2002-2004 have been given in Table-2, Table-3 and Table-4 respectively.

Table-2
Sale mix variation (% of Total)

Segment	FY 99	FY 00	FY 01	FY 02	FY 03	FY 03-04 (Proposed)
LT category	35.55	43.76	43.95	43.40	37.39	37.06
HT category	23.54	23.48	21.32	18.28	14.88	13.99
EHT category	40.91	32.76	34.73	38.32	47.73	48.95
Total	100.00	100.00	100.00	100.00	100.00	100.00

Table-3
Slab Wise Energy Sales (for Domestic & Commercial category)

	2002-03 (pro	oposed)	2003-04 (pr	oposed)
	MU	% of Total	MU	% of Total
Domestic	499.21	100	571.06	100
Kutir Jyoti	4.936	0.99	2.016	0.35
Others				
0 <=100 KWH	310.51	62.20	357.482	62.60
> 100<=200 KWH	115.561	23.15	133.042	23.30
> 200 KWH	68.203	13.66	78.52	13.75
Commercial	105.00	100	115.00	100
0 <=100 KWH	43.31	41.25	47.435	41.25
> 100<=300 KWH	26.448	25.19	28.967	25.19
> 300 KWH	35.242	33.5	38.598	33.56

Table-4
Category Wise Consumer Growth (ALL FIGS. IN NUMBERS)

	Category Wise Con	sumer Growth (11	EE I I GO: II \ I \	CIVIDLINS	
	FY 01 (As on Ist	FY 02 (As on Ist	FY 03 (As on	FY 04	FY 04 (As
Segment	April2000)	April2001)	Ist April2002)	(Proposed)	on Ist
					April2003)
LT (Nos)	322662	343699	379004	400065	409531
% Rise		6.52	10.27	5.56	8.05
HT (Nos)	244	240	243	254	259
% Rise		-1.64	1.25	4.53	6.58
EHT (Nos)	11	13	14	14	14
% Rise		18.18	7.69	0.00	0.00
Total nos.	322807	343952	379261	400333	409804
% Rise		6.55	10.27	5.56	8.05

3.5 It expects a growth rate of 14.38% in consumption in the domestic category for the year 2003-04 based on the expected increase in number of consumers due to regularisation of hooking as well as new consumers.

- 3.6 It estimates a growth of 9.52% in consumption in respect of commercial category for the year 2003-04 due to increase in consumption of existing consumers and expected growth in number of new consumers. It also estimates a growth rate of 13.64% in consumption in respect of irrigation consumers for the year 2003-04 due to intensification of lift irrigation programme in 2003-04.
- 3.7 In respect of HT consumers, it estimates a growth rate of 3.4% in consumption based on the trend of first half of the ensuing year and specific load growth expected from the existing consumers.
- 3.8 The estimated growth rate in consumption is 15.65% in respect of EHT consumers based on the consumption trend of the existing consumers and expected growth in Traction load.
- 3.9 WESCO has stated that during 2003-04, M/s INDAL will consume 394 MU considering full 50 MW at a load factor of 90%.
- 3.10 Further, WESCO in its submission dated 25.01.2003 and 05.02.2003 through affidavit has indicated additional sale of 270 MU to M/S INDAL, Hirakud, Rourkela Steel Plant and some HT Industries.

Table-5
Category Wise Load Growth (In MW/MVA)

Segment	FY 02	FY 03	% Rise over	FY 04	% Rise over
Segment		(Proposed)	Previous Year	(Proposed)	Previous Year
Domestic	316.935	339.269	7.05	353.08	4.07
Commercial	43.624	49.077	12.50	53	7.99
Irrigation	50.292	44.016	-12.48	55	24.95
Other LT	76.59	85.566	11.72	89.12	4.15
HT Consumer	117.771	118.773	0.85	126.588	6.58
EHT Consumer	242.3	294.8	21.67	299.3	1.53
TOTAL	847.512	931.501	9.91	976.088	4.79

Table-6
Category Wise Growth (In MU)

Category wise Growth (In MO)					
Carmont	FY 02	FY 03	% Rise over	FY 04	% Rise over
Segment		(Proposed)	Previous Year	(Proposed)	Previous Year
Domestic	456.527	499.56	9	571.41	14.38
Commercial	94.808	105	11	115	9.52
Irrigation	53.474	55	3	62.5	13.64
Other LT	87.722	91.94	5	96.09	4.51
HT Consumer	291.77	308.5	6	319	3.4
EHT Consumer	611.48	965	58	1116	15.65
TOTAL	1595.781	2025	27	2280	12.59

Table-7
Metering Position at the end of Mar, 2003

Consumer	Total no. of	Total nos.	Total nos. of	Total nos. of	Total nos.
Category	consumers	of meters	un-metered	defective	of working
			consumers	meters	meters
LT	409531	325649	83882	48193	277456
HT	259	262	Nil	5	257
EHT	14	14	Nil	Nil	14
TOTAL	409804	325925	83882	48198	277727

Table: 8 TARGET DATE FOR 100% METERING

(As per filing of WESCO through affidavit in connection with the Business Plan & tariff 03-04)

Sl.No.	Items	Target for 100% metering
1	All consumers	30 th June, 2004
2	33 kv feeders	October, 2003
3	11 kv feeders	October, 2003
4	33/11 kv transformer	October, 2003
5	11/0.4 kv transformer	31st March,2004

3.11 **REVENUE REQUIREMENT**

- 3.11.1 The licensee is required to meet the cost of power to be purchased from GRIDCO, the cost of distribution, covering expenses on account of employees, administration and general expenses, repair and maintenance expenses, depreciation, interest on loan, appropriation to contingency reserve and provision for bad and doubtful debts. In addition to this, the licensee is expected to earn a reasonable return on its capital base based on the methodology prescribed in the Sixth Schedule to the Supply Act, 1948. The cost of power purchase covers not only the cost of power required to meet the demand of the end users but also it covers the cost of energy lost on account of technical and commercial losses of the distribution system. The licensee is also required to meet the cost of capital of new investments needed to improve system reliability and quality of power supply.
- 3.11.2 The licensee earns its revenue through retail supply tariff from the consumers of electricity within its area of license. A summary of proposals of its revenue requirement and the expected revenue at the present tariff for the year 2003-04 as per the filings before the Commission is given in the table below.

Table: 9

(Rs. in Crore)

Power Purchase Cost	471.11
Distribution cost	205.78
Contribution to contingency reserve	1.48
Previous Loss	70.86
Total revenue requirement	749.23
Less Misc. receipt	6.41
Reasonable return	1.51
Net revenue requirement	744.33
Net revenue receipt from sale of power	743.59
Deficit	0.74

3.11.3 WESCO in its application of 2003-04 has stated that the increase granted by OERC in earlier RST order on 30 December 1999 and 19 January 2001 were found to be notional as certain concessions allowed to industrial consumers by the Commission had completely nullified the effect of RST revision. The Hon'ble Commission in its latest RST order of 19-04-02 did not sanction any Retail Supply Tariff revision consequent upon acceptance of certain recommendations of High Power Committee. The Hon'ble Commission, however, disallowed certain legitimate and reasonable expenses and underestimated power purchase expenses. Under the above circumstances, WESCO has not only continued to incur losses from 01.04.1999 onwards but also losses have mounted up during 1999-2003.

3.12 **Distribution loss**

- 3.12.1 WESCO has stated that, the Hon'ble Commission has fixed a target of loss reduction by 5% during 2002-03 and it has achieved 7% reduction in distribution loss during 2002-03 so far. For the year 2003-04, WESCO has targeted reduction of the distribution loss of 4% to achieve a system loss of 35% during the year. Accordingly, WESCO has requested OERC to accept the distribution loss level of 35% for calculating the revenue requirement of WESCO for the year 2003-04.
- 3.12.2 WESCO in its clarification to queries has stated that pursuant to completion of PMU works, effect on loss reduction is expected to be about 1.6%. The expected number of detection of unauthorised abstraction of electricity for the ensuing year is shown as 75000 owing to strengthening of vigilance activities and deployment of Ex-army personnel. The effect of loss reduction is expected to be 2.4% on account of meter replacement, checking of meters and use of AB cables. Thus the cumulative loss reduction on implementation of the above measures is expected to be 4%.

3.13 **Tariff Revision Proposal**

- 3.13.1 WESCO has proposed an overall tariff rise of 15% to compensate for the shortfall in revenue requirement for the year 2003-04. It has also requested to carry forward past losses incurred by them for recovery in future tariffs.
- 3.13.2 WESCO has proposed to move towards a cost based tariff structure in keeping with the direction of tariff reforms and voltage based cost of supply. It envisages a minimum increase of 30 paise per unit in EHT/HT category and between 50-80 paise per unit for different consumers in LT category. However, no change has been suggested in the tariff for Kutir Jyoti consumers. For domestic consumers, the rate

proposed for first slab of 100units is 220 paise per unit, while the rate for LT irrigation connections is 160 paise per unit.

3.14 Cross-subsidy

- 3.14.1 WESCO has submitted that in order to avoid sharp increases in tariff for LT consumers, the cross subsidies would continue to exist for some more time until LT consumers are in a position to pay economic price at the cost of supply. WESCO further has submitted that if the Commission feels that either the cross subsidy is to be phased out faster or the pace of transfer of economic price to LT consumer is to be slower due to socio-economic considerations, it can ask the State Government for requisite subsidy to compensate WESCO for the financial loss arising out of the proposed measure.
- 3.14.2 WESCO also has stated that, the State Government has significant role to play in balancing the varying interests of different classes of consumers and facilitating the reform process and payment of subsidy to the utility for achieving social objectives. WESCO has requested OERC for appropriate directions in this regard.

3.15 Prayer of WESCO

WESCO has requested for:

- Confirmation of its proposed revenue requirement for the year 2003-04 by the Commission.
- Approval of the proposed retail tariff and charges.
- Confirmation of expected revenue from proposed tariff for WESCO

4 OBJECTIONS RAISED DURING THE HEARING PROCESS

The Commission has considered all the objections raised by the various objectors in their written petitions as well as the oral submissions during the public hearing process. Some of the objections were found to be of general nature whereas others were specific to the proposed Revenue Requirement and Tariff filing of WESCO for the financial year 2003-'04. Based on their nature and type, these objections have been categorised broadly as indicated below:

4.1 Availability and Reliability of Information

4.1.1 Sri R P Mohapatra took exception to the licensee's inconsistent information on transmission and distribution losses. The licensee neither has put any effort to determine losses in sample feeders nor taken any steps to meter the feeders, which would have provided raison d'etre for information relating to the billing and loss of energy. INDAL also objected to the fixation of the T&D losses based on weak and un-reliable data furnished by the licensee. Sri D Pujari representing M/s Shrishti Ispata Ltd., Rajgangpur, M/s Scan Steels Ltd., Rajgangpur and Rourkela Steel Plant stated that figures furnished by WESCO on T&D loss are imaginary.

4.2 T & D Losses, Efficiency Improvement and Customer Service

- 4.2.1 Orissa Consumers' Association, Cuttack and Utkal Chamber of Commerce and Industry, Cuttack objected to the licensee's inability to reduce T&D losses. Orissa Young Entrepreneurs' Association requested the Commission to direct the licensee to submit the sub-division wise break up of the transmission and distribution losses.
- 4.2.2 M/s Orissa Cement Ltd., Rajgangpur submitted that the licensee's calculation of the power purchase cost based on a loss level higher than the benchmark should not be allowed. Sri R P Mohapatra objected to the licensee's proposal to pass on the inefficiency of the licensee to reduce T&D losses to the consumers.
- 4.2.3 Sri R P Mohapatra submitted that since the licensee operates at HT and LT voltages only, the losses should be based taking into account its operations on these voltage levels only and consumption at EHT should not be reflected.
- 4.2.4 Orissa Consumers' Association, Cuttack objected to the licensee's failure to improve efficiency and standards of service. Rourkela Steel Plant and L&T, Kansbahal objected to the licensee's failure to control power system disturbances relating to frequency and voltage. Hence, WESCO should not be entitled to any further enhancement of tariff. Ms. Orissa Cement Ltd., Rajgangpur submitted that the tariff application of the licensee should be considered along with its performance in metering, its ability to effectively address consumer complaints and service quality. Orissa Small Scale Industries Association, Cuttack stated that the inability of the licensee to maintain frequency and voltage of supply as per the standards laid down had affected production in all small industries.
- 4.2.5 Sri D Pujari stated that everybody has expressed their concern on high T & D loss presented by WESCO. WESCO's statement that they are having 39% loss was not correct, thereby misleads the state as a whole. It is trying to mislead the entire state. WESCO is not operating in the manner, a private operator should operate in its area of licence. He further stated that as long as monopoly exists, cost of power can not be cheaper. Therefore, competition within the area should be encouraged to bring down the cost.

4.3 Load Growth, Contract Demand and Sales & Revenue Forecast

- 4.3.1 Sri R C Padhi submitted that the load growth proposed by the licensee, especially in the categories of domestic, commercial and irrigation consumers had been highly inflated and unrealistic and had been intentionally done to present higher losses.
- 4.3.2 Sri R P Mohapatra submitted that the licensee had shown higher cost towards procurement of power by projecting higher than normal sales and losses. This should be scrutinised by the Commission with reference to the trend of the past years, by the Commission while fixing its revenue requirement. He also submitted that the contract demand for small and medium industries should be based upon their maximum demand recorded in the meters and not on their connected load. Utkal Chamber of Commerce and Industry (UCCI), Cuttack submitted that the sale volume projected by the licensee does not reflect the growth of industrial consumers, since it has remained almost static in the last five years.
- 4.3.3 Sri D Pujari stated that Commission should encourage setting up of more captive power plants in the state to meet the demand for power and avoid power cut.

4.4 Metering and Meter Rent

- 4.4.1 Orissa Young Entrepreneurs' Association objected to the bills being raised on load factor basis in the case of defective meters. It also added that in these cases, the reliability of the past bills could be questioned.
- 4.4.2 Sri R C Padhi submitted that all the Kutir Jyoti consumers should be metered. He also proposed that accounts of the meter rent and the cost of metering / lease should be maintained separately from the general revenue and expenses of the licensee.
- 4.4.3 Orissa Young Entrepreneurs' Association also stressed the importance of installing meters at each transformer. Sri R C Padhi stated that the licensee's proposal did not mention its programme for feeder metering, as directed by the Commission in its previous orders.
- 4.4.4 INDAL proposed that the Commission should make it mandatory for all the distribution licensees to carry out energy audits of the 11 kV system and below prior to filing any tariff revision proposal.
- 4.4.5 Sri D Pujari stated that WESCO in this filing had not disclosed the number of unmetered consumers thereby adopting the technique of withholding information. Sri Pujari objected that lease rent on meters should not be allowed because the licensee had been collecting meter rent, though the meters had outlived their usual life.

4.5 **Revenue Requirement**

Sambalpur Petrol Dealers' Association requested the Commission to seek clarifications from the State Govt. as well as the generating company as to whether the Sovan Kanungo recommendations had been implemented or not. Sri R C Padhi and Utkal Chamber of Commerce and Industry (UCCI) sought clarification from the licensee as to whether the revenue requirement proposed by the licensee had taken into account the correctives approved by the State Govt.

4.5.1 Audited Accounts

4.5.1.1 Orissa Consumers' Association, Cuttack objected to the licensees' inability to put in place the audited accounts for FY 2000-'01 and FY 2001-'02

4.5.2 Bulk Supply Tariffs and Cost of Power Purchase

4.5.2.1 Sri D Pujari representing Rourkela Steel Plant objected to the procurement of high cost NTPC power by GRIDCO, which creates adverse impact on tariff. WESCO proposed higher tariff whereas all generating stations are in the WESCO's operating area. This will lead to regional imbalances. Further, he added that the Commission's earlier decision for higher BST for WESCO was not justifiable.

4.5.3 **Depreciation and Asset Register**

- 4.5.3.1 Sri R P Mohapatra objected to the failure of the licensee in building its asset register by August 2002 as set by the Commission. He also submitted that the depreciation should be computed on the basis of pre-1992 norms as per the orders of the Commission.
- 4.5.3.2 Sri D Pujari stated that Hon'ble Commission had specifically directed the distribution company to maintain asset register within a stipulated date. As it had not complied with the orders of the Commission for which they should be penalised. As such, it would be difficult to calculate depreciation without any asset register.

4.5.4 Network Costs

- 4.5.4.1 Sri R C Padhi proposed that the licensee should cut down its O&M expenses. Utkal Chamber of Commerce and Industry, Cuttack said that there had been an abnormal rise in O&M Costs due to imprudent practices.
- 4.5.4.2 Orissa Young Entrepreneurs' Association stressed that the necessary investments for the modernisation of the network had not been forthcoming from the licensee. L&T Kansbahal objected that the licensee was not making any effort to maintain the feeders, as a result of which, the frequency of interruptions had increased thereby affecting industrial production. The Rourkela Steel Plant Retired Employees Association proposed that the licensee should make provision towards insurance of its assets to meet losses out of *force majeure* conditions.

4.5.5 **Provisioning for Bad & Doubtful Debts**

- 4.5.5.1 Sri R C Padhi submitted that the provision for bad and doubtful debts of the licensee should not be allowed as part of its revenue requirement as long as the licensee does not take any concrete step to collect the outstanding dues. Sri R P Mohapatra submitted that the Commission's norm of allowing 15% of the incremental debtors towards provisions for Bad & Doubtful debt would be a premium on its inefficiency. Thus, provisioning in this respect should be limited only to a token amount.
- 4.5.5.2 Sri D Pujari stated that WESCO should disclose as to whether they had written off any bad debt or not. He further stated that bad debt which had been accumulated in the current years should be taken into consideration instead of back log of outstanding arrears of yester years. In case WESCO could realise any amount towards old outstanding arrears, then that amount should be appropriated to its profit.

4.5.6 Interest and Financing Costs

- 4.5.6.1 **Power Bonds** Sri R C Padhi and Sri R P Mohapatra objected to the licensee's claim to allow pass-through of the interest costs on the power bonds. Sri D Pujari stated that as WESCO had not been paying its dues in time, allowing interest on interest would be burden on the consumer as such, the same is not justifiable.
- 4.5.6.2 **Working Capital** Orissa Young Entrepreneurs' Association submitted that the licensee had failed to bring in working capital to meet its cash gap. It also submitted that the licensee has not been able to obtain counter guarantee from its parent company.
- 4.5.6.3 **Delayed Payment Surcharge (DPS)** Sri R C Padhi, Sri R P Mohapatra and M/s Orissa Cement Limited, Rajgangpur submitted that the licensee's claim to recover the DPS through ARR should be rejected and consumers should not be burdened with this element.

4.5.7 Past Losses

4.5.7.1 Orissa Young Entrepreneurs' Association, Sri R P Mohapatra and Sri D Pujari pleaded that the past losses of the licensee, a consequence of its past inefficiencies, should not be passed on through tariff to be borne by the consumers.

4.5.8 **Shareholders Returns**

4.5.8.1 Sri R P Mohapatra submitted that the licensee's capital base is currently negative because of the huge liabilities arising out of its inefficiencies. The licensee has raised these liabilities in order to fund its past inefficiencies and the Commission allowing 0.5% on these as a return to the licensee is not justified. Sri D Pujari stated that 16% return being very high should at pegged down to 12% of the capital base.

4.6 Cost of Supply and Tariff Design

4.6.1 Cross Subsidisation and Cost of Supply

- 4.6.1.1 Utkal Chamber of Commerce and Industry (UCCI) submitted that the consumers' capacity to pay was not being considered at all while determining tariff. Orissa Small Scale Industries Association, Cuttack said that the hike proposed by the licensee was not in line with the prevailing rates of inflation.
- 4.6.1.2 M/s Orissa Cement Limited, Rajgangpur submitted that the concept of HT / EHT consumers cross-subsidising consumers in the LT category was highly un-justified.
- 4.6.1.3 Aditya Aluminium objected to the subsidised supply to the Kutir Jyoti consumers, which militates against the objectives of Reform Act. The cross-subsidies should be removed and the benefit be given to the HT and EHT consumers. Subsidies required for the domestic and LT consumers should be funded by the State Government.
- 4.6.1.4 Sri R P Mohapatra submitted that the concept of average tariffs should be extended to the entire distribution set-up as decided by the WBERC. HT & EHT consumers being connected to the same system have to equitably share losses with LT consumers. No concessional or preferential tariff should be

given to them because they take supply at HT/EHT. Utkal Chamber of Commerce and Industry (UCCI), Cuttack and the Rourkela Steel Plant Retired Employees Association submitted that there should be uniform retail tariff across the state.

4.6.1.5 Sri D Pujari stated that cross-subsidy if at all to be given by the State Govt. should be reimbursed directly to the affected company.

4.6.2 Tariff Structure Design

- 4.6.2.1 Aditya Aluminium suggested that the tariffs for all the categories should be fixed for at least 5 years, with actual increases commensurate with increase in the variable component of the bulk supply tariff. The Rourkela Steel Plant Retired Employees Association proposed that the increase in RST should be linked to increase in the BST.
- 4.6.2.2 Orissa Young Entrepreneurs' Association submitted that the fixed component of the tariffs should be limited to a maximum of 50% in all categories.
- 4.6.2.3 M/s Orissa Cement Limited, Rajgangpur pleaded that there should be no increase in the tariffs for the EHT category, because any increase in the tariffs would result in setting up of CPPs.

4.6.3 **Special Category Tariffs**

- 4.6.3.1 Orissa Consumers' Association, Cuttack submitted that the proposal of the special category tariff mooted by the licensee is highly irregular. Sri R C Padhi objected to the licensee's proposed special tariffs to industries when it has been incurring losses.
- 4.6.3.2 M/s Orissa Cement Limited, Rajgangpur submitted that the licensee's proposal for a special tariff to consumers having 50 MW load and above, with a guaranteed load factor of 90% and above should be extended to other EHT consumers as well. Aditya Aluminium pleaded for the construction industry to be classified as a separate category, and the demand charges be withdrawn.
- 4.6.3.3 M/s Rourkela Chamber of Commerce and Industries, along with the induction furnaces and re-rolling mills including M/s Shristi Ispat Limited, Rajgangpur, M/s Shivam Steel Corporation, Sundergarh, M/s Scan Steels Limited, Rjagangpur, M/s Ashoka Re-rolling Mills Pvt. Ltd. Rourkela, Pareek Ferro Pvt. Ltd. Rourkela, Utkal Alloys Pvt. Ltd.' Maa Laxmi Steels Pvt. Ltd., Kalunga, Omkar Steels Pvt. Ltd., Shree Ram Sponge Steel Pvt. Ltd., Scan Sponge Iron Limited, Refulgent Ispat Pvt. Ltd., and M/s Utkal Steels Pvt. Ltd. pleaded for a special category tariff for induction furnaces and re-rolling mills, and to be categorised as a separate category. It pleaded for a single rate tariff at a guaranteed load factor of 30%.
- 4.6.3.4 Sri D Pujari stated that industries who are taking power directly at EHT should be given special treatment.
- 4.6.3.5 South Eastern Railway, Kolkata pleaded for a single part tariff with reasonable energy charges, keeping in view the verdict of the Hon'ble Supreme Court on cross-subsidisation while determining tariffs.

4.6.4 Tariff for back-up supply to CPPs

4.6.5 Time of Use Tariffs

- 4.6.5.1 M/s Orissa Cement Limited, Rajgangpur submitted that consumption during off-peak hours should be slightly higher than the BST to encourage consumers to effectively manage their load and hence contribute to the management of the peak load demand.
- 4.6.5.2 M/s Shristi Ispat Limited, Rajgangpur and M/s Rourkela Chamber of Commerce and Industries, submitted that neighbouring states have a huge variation in tariffs between peak and off-peak tariffs, which are beneficial to large consumers, and also contribute to managing the peak load. It pleaded for a time of use tariff to be built into the tariff structure by the Commission.

4.6.6 **Penalties and Rebates**

- 4.6.6.1 M/s Orissa Cement Limited, Rajgangpur and MCL Burla submitted that the licensee should not be allowed to charge any over-drawal penalty from the EHT consumers. It also proposed that the Power Factor (PF) penalty / incentive that currently exists at 0.5% for 1% decrease/increase should be enhanced to 1% for every 1% decrease/increase and that the threshold should be fixed at 95% instead of the present 97 % PF.
- 4.6.6.2 M/s IDCOL Cement Limited, Bargarh pleaded to lower the over-drawl penalties. For incentives based on PF, the lag should be taken as 90% rather than 97.5%. South Eastern Railway, Kolkata and Utkal Chamber of Commerce and Industry (UCCI) proposed for restoration of incentives for improvement of Power Factor beyond 90%.
- 4.6.6.3 Many industries proposed restoration of the rebate for the industrial and HT/EHT consumers for payment within due date. MCL Burla prayed before the Commission to increase the period for availing the rebate for prompt payment as well as the time period for normal payments.

4.7 Other Issues

4.7.1 **Process of Tariff Hearing**

4.7.2 Un-scheduled Rationing of Power and Planned Outages

- 4.7.2.1 Orissa Young Entrepreneurs' Association submitted that the Commission may kindly direct the licensee to publish notices for planned maintenance well in advance so as not to inconvenience consumers. Sambalpur Petrol Dealers' Association stressed on the importance of regular and uninterrupted power supply.
- 4.7.2.2 M/s Orissa Cement Ltd., Rajgangpur showed concern on the increasing number of outages at higher voltages. MCL Burla requested the Commission to set into the tariff schedule penalties for load shedding, excursions in voltage and frequency of supply and power failures.

4.7.3 Consumers' Security Deposits

4.7.3.1 Orissa Young Entrepreneurs' Association pleaded that the licensee should be directed by this Commission not to ask for Security Deposits from the consumers

- 4.7.3.2 South Eastern Railway submitted that they should be exempted from payment of extra/additional security deposit and to direct the licensee to either adjust or refund the amount already deposited.
- 4.7.3.3 L&T, Kansbahal objected to the huge amount being collected by the licensee under the name of security deposits, which is illegal.

4.7.4 Third Party Sale

- 4.7.4.1 M/s Orissa Cement Limited, Rajgangpur proposed that the Commission should allow third party sale to EHT consumers, which would incentivise them to procure cheaper power and in turn encourage competition.
- 4.7.4.2 Aditya Aluminium submitted that the industries owning CPPs should be allowed to enter into agreement on fair and equitable basis with either GRIDCO or WESCO.

4.7.5 **Anti-Theft Legislation**

4.7.5.1 INDAL submitted that the Commission should recommend to the State Govt. to enact necessary laws to provide legal powers to the DISTCOs, as in West Bengal to tackle theft and stealing more efficiently.

4.8 Clarification from WESCO by the Commission

- 4.8.1 During hearing, the Commission sought certain clarifications from WESCO on the following issues.
- 4.8.2 The WESCO has shown an increase of 12.6% consumption in FY 2002-03 as compared to FY 2001-02. WESCO has to clarify whether this increase is attributable to additional drawl by INDAL and RSP.
- 4.8.3 When WESCO will complete LV side metering of distribution transformers and feeder metering.
- 4.8.4 WESCO proposes withdrawal of differential of BST reasons for which have not been elaborated. WESCO has to elaborate and enlighten the Commission why they are proposing withdrawal of differential BST.
- 4.8.5 WESCO has already set up village committees and initiated experimental franchisee in rural areas. WESCO has to submit cost-benefit analysis of such an arrangement. WESCO has to justify whether the setting of village committee system is better than the present arrangement.

5 WESCO'S REPLIES TO OBJECTIONS RAISED

In reply to the various objections filed by the consumers against WESCO's application for the approval of the Revenue Requirement for FY 2003-04 and revised tariff and in response to the queries raised by the Commission, WESCO had filed its rejoinders with this Commission on 10 March 2003 and subsequently filed its clarification on 7th April 2003 to the objections raised during the public hearing on 4 April 2003. A summary of the replies based on the issues raised are presented below:

5.1 **T&D Losses and Efficiency Improvement**

5.1.1 Replying to numerous objections on the licensee's inability to reduce losses, WESCO submitted that it had been taking various steps for the reduction of distribution losses, such as Counter Metering, Feeder Metering and System Improvement Work, Regularisation of unauthorized consumers detected through vigilance checking. The licensee also submitted that there were various other factors responsible for the distribution losses of the licensee. The licensee stated that because of the commissioning of various grid substations in the licensee's area of operations, there had been improvement in quality of supply by corresponding improvement in the voltage profile, reduction in 33/11 kV network faults. The licensee, based on its past experiences, had therefore proposed an overall distribution loss reduction target of 4% for FY 2003-2004.

5.2 Performance Improvement, Quality of Supply and Consumer Service

- 5.2.1 Replying to the specific objections of Larsen & Toubro on frequent interruptions, the licensee submitted that since L&T draws power from the existing 33 kV network, it is not possible to completely eliminate the problem of tripping. In addition, many of the trippings are on account of general grid failure.
- 5.2.2 Replying to objections by consumers on the poor level of consumer service by the licensee, WESCO submitted that it has high regard for its consumers and it has been in endeavours to keep its consumers satisfied. The complaints of the consumers are promptly attended and redressed within reasonable time. The performance of the company in this regard is also being reviewed by OERC at regular intervals.

5.3 Metering and Consumer Billing

5.4 Revenue Requirement

The licensee submitted that it has proposed its revenue requirement for FY 2003-2004 based on the audited accounts of FY 1999-2000 and the accounts for FY 2000-2001 and FY 2001-2002 submitted to the Income Tax authorities. The licensee submitted that the proposal was based on reasonably accurate estimate. It also submitted that the proposal for revision of tariff is balanced one, protecting its consumers from a stiff tariff hike.

5.4.1 Audited Accounts

5.4.1.1 Replying to objections on the licensee's absence of Audited Accounts, the licensee submitted that it had submitted its accounts for FY 1999-2000, duly audited by its statutory auditors to the Commission. Apart from this, the accounts for the financial years FY 2000-2001 and FY 2001-2002 had been prepared and audited by its auditors for submission to the income tax authorities. The proposal for approval of the licensee's revenue requirement for FY 2003-2004 has been based on these accounts and is reasonably accurate.

5.4.2 Power Purchase Costs

5.4.2.1 The licensee clarified that the power purchased by it is based on the demand of its consumers and is procured from GRIDCO, being the only bulk supplier in the state. The licensee pays to GRIDCO on the basis of a Bulk Supply Tariff (BST), determined by the Commission, and to that extent the distribution licensee has no role to play in power procurement planning.

5.4.3 Delayed Payment Surcharge (DPS)

5.4.3.1 The licensee submitted that no financial institution had been coming forward to finance them working capital due to their poor financial health. As such, they have no other alternative except to make payment of DPS to GRIDCO. Thus, WESCO had prayed the Commission for allowing the DPS to be record through its revenue requirement.

5.5 Tariff Design, Tariff Determination and other Regulatory Issues

5.5.1 Proposal for Annual Revenue Requirement and Revision of Tariffs

- 5.5.1.1 The licensee submitted that its proposal for the approval of its Revenue Requirement for FY 2003-2004 and the adjustment of the retails supply tariffs to meet its Revenue Requirement is within the provisions of the Orissa Electricity Reform Act 1995 and Schedule VI of the Electricity Supply Act, 1948 and the license conditions of the license
- 5.5.1.2 In replying to the validity of the proposal of the licensee for the revision of tariffs, the licensee submitted that it had filed its proposal for approval of revenue requirement and the revision of tariffs to balance the revenue requirement of the licensee for the financial year FY 2003-2004. In the absence of tariff revision, the distribution business cannot be made viable and sick distribution company cannot provide proper customer service.

5.5.2 **Tariff Design**

- 5.5.2.1 Replying to suggestions made by some industrial consumers like steel, cement, food processing, fabrication, etc, the licensee submitted that the categories and the tariff are to be decided by the Commission and the licensee cannot decide the same. However, the licensee cannot bear notional loss, if any, due to a concessional tariff and as such, the same has to appear in the tariff schedule.
- 5.5.2.2 Replying to MCL's submission to extend the consumption limit for its colony, the licensee submitted that this cannot be extended beyond a certain limit. It further stated that the procedure of allowing only 10% of the total consumption by HT industry for colony consumption at a reduced tariff is itself a liberal concession, since the primary use of electricity in HT industry is for commercial or industrial uses and not for domestic purposes.
- 5.5.2.3 Replying to Rourkela Chamber of Commerce and Industry to build separate tariffs for the time of use of energy, the licensee replied that this is not possible within the framework of the current metering arrangements because the present meters not technically suitable to record the required information in different time blocks of peak and off-peak separately.

5.5.3 Cost of Supply and Cross-Subsidisation

- 5.5.3.1 Replying to the submission of some objectors on the lower tariffs charged by neighbouring states, the licensee submitted that this is not acceptable since the tariff is decided basing on the cost of power, other expenses, reasonable return, etc., and is also largely dependant on the amount of subsidy that the concerned State Govt. contributes, which may vary from one geographical area / area of operation to another. As the cost structures and sales & consumer mix being different across four distribution licensees in the State, the cost of supply for the four distribution utilities are also not the same.
- 5.5.3.2 In replying to many objections on the removal of cross-subsidisation, the licensee submitted that a large number of LT consumers pay tariffs much lower than the cost of supply. It also stated that the socio-economic conditions of the people in the state do not allow for immediate removal in cross-subsidisation, since it would result in sharp increases in tariff particularly in domestic and irrigation category. The licensee also stated that the Commission had already initiated several steps for rationalisation of tariffs to reflect categorisation according to voltage of supply, including the clear demarcation between demand and energy charges. The licensee has also followed these principles while proposing the revised tariffs in its application.
- 5.5.3.3 Some objectors objected to the proposed increase in tariffs for the EHT consumers, saying that the proposed tariff is higher than the cost of power procured by the licensee. The licensee submitted that the cost of supply at any category includes, apart from the cost of purchase of power, other costs of the licensee, the details of which have been furnished in Format F-13 by the licensee. Hence, the cost of supply cannot be the same as the cost of power purchase for the consumers.

5.5.4 Special Category Tariffs

5.5.4.1 Replying to various demands by consumers for special tariffs, the licensee submitted that the formulation of special tariff requires a mutual agreement between the licensee and the consumer after due examination and approval of the OERC and hence is not covered in the normal tariff revision proposal.

5.5.5 **Penalties and Rebates**

- 5.5.5.1 The licensee has submitted that the Commission has already introduced load factor incentives for HT and EHT consumers since the last two tariff orders, i.e., for FY 1999-2000 and 2000-2001. Hence, it is felt that the incentives provided to consumers availing power at load factor above 50% is adequate.
- 5.5.5.2 In reply to objections against the over-drawal penalties for maximum demand, the licensee has submitted that the existing provisions regarding over-drawal penalties is required to be maintained primarily to guard against the under-statement of contract demand by consumers. Over-drawal places additional burden on system stability and reliability thereby affecting all other consumers, apart from distorting power procurement planning. Thus, the levy of over-drawal charges is essential to discourage consumers from over-drawing specially during peak hours. The licensee stated that incentives for the load management to the extent of waiving penalty for maximum demand exceeding up to 20% of contract demand during off-peak hours

- already exists and a large number of industries are already availing of this benefit.
- 5.5.5.3 Replying to the objections raised against the penalties for power factor, the licensee has replied that in order to achieve unity power factor, some industrial consumers over compensate the system, there by injecting VAR in the GRID and hence requires provisions for imposition of penalties in these cases.

5.6 WESCO's response to issues raised by the Commission

- 5.6.1 Increase in consumption during the year 2002-03 over 2001-02 is basically due to additional drawl by INDAL & RSP.
- 5.6.2 WESCO has already submitted its metering programme to the Hon'ble Commission vide this office letter No.WESCO-Com-47 dated 13.01.2003. However, the programme got delayed due to delay in release of World Bank funds. The revised target date for Feeder metering has been fixed as October 2003 both for 11 KV and 33 KV feeders, as per filing of WESCO.
- 5.6.3 The BST tariff fixed for WESCO is highest among all four companies on the ground that EHT consumption of WESCO was higher. Higher EHT consumption does not call for higher power purchase cost. There is no power purchase agreement with any of the generators where GRIDCO has to pay the demand charges for its drawal. Hence, higher drawl by EHT consumers does not put GRIDCO in higher financial pressure for payment to the generators, whereas drawl of 95% of requirement of WESCO from the generating stations situated in the WESCO area will no doubt be an advantage for GRIDCO on account of lower transmission loss. Hence, it is requested that lower bulk supply rates may be considered for WESCO as compared to other distribution companies which in turn will lower retail supply tariff in WESCO area.
- 5.6.4 At present, three type of franchisee are operating in WESCO area as under.
- 5.6.5 Franchisee in Deograh division is functioning since April 2002 and it gets incentive @ 9.5% of collection. Franchisee in Godabhanga area in Baragarh division is in operation since December 2000 covering 16 villages with 28 distribution transformers and having 1735 consumers. The incentive of the franchisee is based on AT&C loss concepts and remuneration is as under.
 - Below 35% efficiency Nil incentive
 - At 35% efficiency, 1% incentive on collection.
 - Between 35% to 50% efficiency, incentive is 7% of increased collection from 35% efficiency in addition to (ii) above.
 - 50% to 60% efficiency, 8% increased collection from 50% efficiency in addition to (ii) and (iii) above.
- 5.6.6 Another franchaise is working in Atabira Sub-division of Baragarh division since April 2002 with an incentive of 7.5% of the collection.
- 5.6.7 With the involvement of the franchisee, there has been tremendous improvement in collection and reduction in losses.

6 COMMISSION'S OBSERVATION AND ANALYSIS OF LICENSEE'S PROPOSAL

On detailed scrutiny and examination of the Annual Revenue Requirement and Retail Supply Tariff Application for the FY 2003-04 along with clarifications submitted by the licensee before the Commission, the written and oral submissions of the objectors and the views of the Members of the Commission Advisory Committee, the Commission has passed the order, as detailed below.

6.1 Scenario of the Power Sector Reform in Orissa

- All the distribution licensees have made strong plea that the sectoral survival is possible in the present situation in Orissa only when the input cost of power purchase is brought down by reducing the bulk supply tariff charged by GRIDCO to the DISTCOs.
- 6.1.2 The State of Orissa was the first to initiate power reform in the country. The Orissa Electricity Reform Act, 1995 was put into the statute with a view to restructure the electricity industry in the state and rationalise the generation, transmission, distribution and supply of electricity and to create avenues for participation of private sector entrepreneurs and create infrastructure for development and management of electricity industry in an efficient, economic and competitive manner. Orissa Electricity Regulatory Commission has been constituted under the Act for overseeing and regulating the affairs of electricity industry in the State including rationalisation/setting of tariff.

6.2 Restructuring of the Power Sector

- 6.2.1 Prior to coming into force of the OER Act, 1995 on 01.4.96, the 460 MW capacity Thermal Station at Talcher owned by OSEB was sold to NTPC in June, 1995 at a consideration of Rs.356.00 Crore.
- 6.2.2 The OSEB was dissolved and unbundled with the take over of hydro assets owned by the OSEB and the Government by the Orissa Hydro Power Corporation and its transmission and distribution business was taken over by GRIDCO with effect from 1st April 1996. Thereafter, the distribution and retail supply of electricity was vested in four distribution companies initially as wholly owned subsidiary companies of GRIDCO. Three of these distribution companies were privatised on 1st April 1999 and the fourth one on 1st September 1999 after dis-investment of its 51% share. The state owned Orissa Power Generation Corporation created in 1984 continued to operate as a separate entity and manages the Ib Thermal Power Station of capacity 2x210 MW (420 MW) near Jharsuguda.
- 6.2.3 The assets of the erstwhile OSEB including those of the hydro generating stations were taken over by the State Government, revalued and transferred to GRIDCO and OHPC. The upvalued amount was adjusted in favour of the state Government through grant of equity share and issue of bonds bearing no interest with a moratorium period of five years with provision of subsequent conversion in phases into equity and issue of debentures bearing interest. Revaluation of assets was considered to enable the Government of Orissa to realize more realistic value for its past investment at the time of privatization and also enhance the creditworthiness of the utilities. The revaluation was based on the revenue earning potential and was intended as a means of raising revenue through higher level of depreciation, higher operation and maintenance cost, higher return on equity for smooth functioning of the power sector.

- To sum up the revaluation was also done with the objective of eliminating GRIDCO's and OHPC's dependence on budgetary support from Government of Orissa.
- 6.2.4 The process of reform and restructuring paved the way for commitment of World Bank loan of 350 US million dollars for long term capital investment in the power sector in Orissa along with 65 million sterling pound funding from the DFID to meet urgent needs of repair & maintenance expenses and consultancy support. The World Bank also prepared a report known as the Staff Appraisal Report in April 1996 on the Orissa Power Sector Restructuring Project and made financial projections based on certain assumptions of power purchase, power sale, level of transmission and distribution loss, collection efficiency and operating expenses which envisaged that GRIDCO after meeting all costs will turn around from FY 1997-98 onwards. There was no provision of transitional support whatsoever during this period. On the contrary, State Government adjusted a sum of Rs.340.2 Crore payable to GRIDCO against the upvaluation of assets. All the liabilities of erstwhile OSEB were also passed on to GRIDCO based on the above financial analysis and projections.
- 6.2.5 In reality, the projections went haywire and the financial health of GRIDCO is far from satisfactory as the accumulated losses of GRIDCO has increased to Rs.1193 Crore by the year FY 1998-99 and is likely to be Rs.2149.68 Crore by 2002-03. It faces acute liquidity problem as the DISTCOs have paid to GRIDCO towards purchase of power only about 62.75% of BST bills for FY 2001-02. However with continuous review and advice by the Commission the collection from DISTCOs against bill has gone up to 89.75% by the end of January, 2003.
- 6.2.6 In the post-reform period from 1 April, 1996 to 31 March, 2001, the state generators, namely, OPGC and OHPC have earned profit of Rs.768 Crore in books which should have made them financially viable but in reality, OHPC is faced with cash crunch due to non-payment of its energy dues by GRIDCO.
- 6.2.7 Private capital has been infused in the form of dis-investment of 49% of equity shares of OPGC (Rs.603 Crore), sale of 51% share of distribution business of GRIDCO (Rs.159 Crore). However, the Power Sector was not benefited by such infusion.
- 6.2.8 In OSEB days, the State Government was required to provide necessary subvention under Section 59 of the Supply Act 1948 so as to leave a surplus of not less than 3% on net fixed assets to OSEB after meeting all expenses properly chargeable to revenue including O&M and management expenses, taxes, depreciation and interest etc. for sustenance of the power sector to meet its socio-economic obligations of giving power supply to the vulnerable sections of the society but in the post-reform era, the Government of Orissa has totally divested itself from the burden of such payment which on a rough estimate would have come to Rs. 4430 Crore by 31st March 2003, had the OSEB continued as an entity.
- 6.2.9 As reflected in earlier orders the Commission believes that payment of subsidies are not in consonance with the spirit of the Reform Act, 1995 but the State Government's financial back-up in the form of subvention or subsidy during the transitional period could have substantially eased the situation. The Govt. of Andhra Pradesh. have issued policy directions, that the tariff in respect of the subsidized categories may be reduced to levels proposed by the Distribution Companies, for which subsidy of Rs. 1513.49 Crs would be made available to the Distribution Companies for FY 2003-04. Similarly Govt. of Uttar Pradesh has provided subsidy of Rs.850 crore in FY 2002-03. Govt. of Karnataka has already released subsidy of Rs.1872 crore against the claim of Rs.2231.30 crore for the year 2001-02, Rs.1303.68 crore for the year 2002-03. Further Karnataka Govt. has gone one step ahead by allowing KPTCL and

- ESCOMs to retain electricity duty collected from the consumers which amounts to Rs.140 crore approximately to the end of December 2002. Govt. of Karnataka also indicated R.E. subsidy for the year 2003-04 to the extent of Rs.1479.37 crore.
- 6.2.10 The single most important factor that raised the revenue requirement of all the licensees in the post-reform era was the substantial rise in the cost of hydro power as well as in the cost of transmission and distribution on account of revaluation of assets as on 01.4.96 and also providing an accelerated rate of depreciation as per Govt. of India guidelines. Further, in the pre-reform era, power requirement of the state was met mostly from sources within the State and limited procurement from Central Generating Stations and CPPs. However, with the passage of time, the State became more dependent on drawal of power from the Central Generating Station due to delayed commissioning of the Upper Indravati Hydro Electric Project. The NTPC power remained costlier as their power stations in the eastern regions were new stations and continued to operate at low PLF resulting higher cost/kwh. On the revenue side, the single most important factor has been the non-materialisation of EHT and HT loads as envisaged at the time of Reform in the SAR of World Bank..
- 6.2.11 The forecast of consistent reduction in transmission and distribution loss from an estimated level of 39.5% for the FY 1996-97 to 22.7% by the FY 2000-01 has not worked out. Even the initial assessment of loss as 39.5% for the FY 1996-97 turned out to be 49.4% as revealed from the audit report for the corresponding year.
- 6.2.12 The transmission and distribution sector continued to bear further financial liabilities due to interest burden on account of debt servicing of past loans & liabilities and large scale investment in transmission and distribution for improvement of quality of power supply without corresponding rise in sale of power.
- 6.2.13 The anticipation that the impact of revaluation of assets would be offset by the growth of EHT and HT loads has not worked as the expected load growth like installation of steel plant at Gopalpur, Duburi projected in pre-1996 era did not materialise coupled with recession in the industrial sector severely hurting the anticipated growth at HT & EHT. Further, to make the matters worse, the loads in the subsidised categories continued to increase. This has adversely affected the revenues of the utilities.
- 6.2.14 The actual sale of 2760 MU to the industrial HT & EHT bulk supply and railway in 2000-01 was far below the load projection of 7009 MU for these categories made in the Staff Appraisal Report which has seriously affected the revenue earning potential of the licensees, widened the gap between the cost of supply and revenue realisation and reduced the scope of cross-subsidy to low voltage classes of consumers.
- 6.2.15 Had the load projection contemplated in the Staff Appraisal Report materialised, the revenue position of the utilities would have been much better and it would have contributed to an overall reduction in T&D loss figure.
- 6.2.16 Some HT/EHT consumers preferred generation of power from their own Captive Power Plants rather than avail power from DISTCOs on cost consideration though the Eastern Zone continues to be surplus in generation.
- 6.2.17 Though collection efficiency is around 98% to 99% in privately managed utilities like CESC, Calcutta and BSES. Bombay, the DISTCOs in Orissa have achieved only 75% for 1999-00 and 76% for the year 2000-01. Their failure to collect the revenue at the tariff permitted by the Commission from year to year and to convert the lost units by regularising unauthorised connection and reducing load have magnified the liquidity problem. However, due to continuous review by the Commission the collection

- efficiency of the DISTCOs has gone up to 81% during 10 months period of the FY 2002-03. The collection efficiency would have further improved had the Govt. and Govt. owned PSUs cleared their current and arrear energy dues.
- 6.2.18 The affordability of a large section of consumers mostly from domestic, irrigation, small industrial segments, etc. constituting more than 90% of the total consumers strength happened to be major hurdle in attaining a cost based tariff structure, which in effect would result in reduction of Industrial Tariff and substantial increase in LT Tariff.
- 6.2.19 It was expected that a vibrant industrial sector would support and make the power sector self-sustaining for which no provision was kept to provide financial support to GRIDCO/DISTCOs during the transition years though GRIDCO/DISTCOs in their new incarnation were still required to undertake socially purposive but unremunerative measures such as Rural Electrification and supply to the rural poor. Further the state's economy had received tremendous setback due to occurrence of natural calamities like super cyclone, drought and flood in succession affecting both the utilities and the consumers. The DISTCOs were also severely affected by these natural calamities by way of severe damage and loss to their assets. Collection of revenue also had a severe set back because of the financial condition of the consumers impacted by these calamities. Besides, the customer care of the distribution companies has left much to be desired raising questions on efficacy of privatisation.
- 6.2.20 It may be reiterated that the asset revaluation, absence of subvention from the Government, high level of transmission and distribution loss, non-maturing of HT & EHT loads, coupled with poor billing and collection of the distribution companies are the causes of imbalancing factors leading to the losses in the GRIDCO and distribution utilities.
- 6.2.21 While deciding the tariff for FY 2002-03, the Commission suggested a mid course correction of the Power Sector Reform in Orissa to strengthen the power sector in the interest of the consumers, investors and the state's economy.
- 6.2.22 With this scenario in view, the committee of independent experts (hereafter called the Kanungo Committee) appointed by the Government of Orissa have very aptly recommended, as a mid-course correction, certain measures setting aside and keeping in abeyance till sectoral turnaround, the revaluation assets of OHPC, payment of interest to the State Government on the loans imposed on the licensees due to revaluation to provide requisite support to the power sector for its resuscitation and among other things have made the following significant recommendations:
 - Revaluation of GRIDCO and OHPC assets to be kept in abeyance till the system is brought to balance.
 - State Government to agree to allow moratorium on debt servicing to the State except the amounts in respect of loans from the World Bank.
 - An interim financial package amounting to Rs.3240 Crore (estimated) to be availed from World Bank and the DFID to bridge the cash gap in order to keep the tariff at the same level for the period from 2001-02 to 2004-05.
 - Instituting regular systems of monitoring of consumer grievances and services supplemented by test checks.
 - Setting up of Rural Engineering Planning Organisation (REPO) and Rural Electrification Planning Units (REPU) under Government of Orissa to monitor RE and LI works.

- At this point of crisis, all agencies such as State Government, the Central Government, the World Bank and DFID should get together to rescue the reform process.
- Reduction of distribution loss @ 5% p.a. with a base level of 42.2% in the year 2001-02.
- Collection efficiency of DISTCOs to increase from 76% to 85% by 2004-05.
- 6.2.23 The inescapable conclusion emerges from the aforesaid observation is that support for sectoral revival can be possible with reduction in input cost to the distribution companies, which has occurred on account of exponential rise in (a) cost of power (b) cost of transmission (c) cost of distribution. The rise in power purchase cost has been more steep in respect of Orissa Hydro Power Corporation (old stations) where the per unit cost of power purchase went up from 22 paise/unit as on 31 March, 1996 to 38 paise/unit as on 1 April, 1996 and 49 paise/unit between 1997-98 to 2000-01.

6.3 Strategies for Improvement of Power Sector

6.3.1 With this background, the Commission deems it fit to have a review of the various policy options being followed in the post reform era in the best interest of the power sector in the state within the frame work of existing Act, Rules and Regulations. The Central Govt. as well as State Govt. have taken various steps to bring out improvements in the power sector.

6.4 Recommendations of Deepak S. Parekh Committee

- 6.4.1 Expert committee constituted by Govt. of India under the Chairmanship of Shri Deepak S. Parekh in their report recommended that the State Govt. as the sole owner of the SEBs and as the primary driver of the reform process, should consolidate these liabilities, take them over and transfer them to a Power Sector Reform Fund (PSRF). The next step would be for the State to write off its own loans to the SEB. The committee considers that these steps are not only necessary in order to enhance the credibility of the restructuring process but would also enhance the sale value at the time of privatisation.
- 6.4.2 In order to enhance the credibility and mitigate the risk of policy reversals, the committee recommends that the State Govt. should ring-fence both the liabilities and the inflows earmarked for the sector restructuring into a PSRF. All existing liabilities of the sector should be transferred to the PSRF and, concomitantly, existing receivables, privatisation proceeds, grants from the Government of India and other donor agencies and a portion of the surplus from future operations (say, in the form of a PSRF surcharge) should be transferred to the PSRF to defray these liabilities.
- 6.4.3 In the line of the recommendations of the Deepak S. Parekh Committee, the Commission advise Govt. of Orissa u/s 11 (a) of the OER Act, 1995 for taking over the loans and liabilities of GRIDCO upto 31st March 1999 i.e. prior to privatisation of distribution business vide D.O. No.CHM/2003/378 dated 21.02.2003. The Commission is of the opinion that once the amount of old outstanding loans are transferred to PSRF its realisation, can be addressed as per the methods mentioned in para 5.3.1.2 of the committee report.
- 6.5 Decision of Govt. of Orissa on recommendations of Kanungo Committee (The committee of independent experts) and suggestions of OERC
 - 6.5.1 The Govt. of Orissa took following decisions vide notification No.R&R-I-2/2002/1068 dt.29.01.2003 on the recommendations of Committee of Independent

Experts to review Power Sector Reform in Orissa and corrective suggested by the Commission.

- 6.5.1.1 The effect of upvaluation of assets of OHPC and GRIDCO indicated in Notification No.5210 dated 01.04.1996 and No.5207 dated 01.04.1996 would be kept in abeyance from the Financial year 2001-02 prospectively till 2005-06 or till the sector turns around whichever is earlier to avoid redetermination of tariff for past years and also redetermination of assets of various DISTCOs. For this purpose depreciation would be calculated at pre-1992 norms notified by Govt. of India.
- 6.5.1.2 Moratorium on debt servicing by GRIDCO and OHPC to the State Govt. would be allowed from the financial year 2001-02 till 2005-06 except the amount in respect of loan from the World Bank to the extent the State Govt. required to pay to the Govt. of India.
- 6.5.1.3 The outstanding dues payable to OHPC by GRIDCO till 31.03.2001 on account of power purchase would be securitised through issue of power bond by GRIDCO to OHPC.
- 6.5.1.4 GRIDCO and OHPC shall not be entitled to any Return on Equity (ROE) till the sector become viable on cash basis or 2005-06 whichever is earlier.
- 6.5.1.5 Under conditions of normal hydro availability the State becoming surplus in power availability, GRIDCO may take steps for export of power. GRIDCO would take steps to procure cheap power from CPPs like NALCO & ICCL. OHPC & OPGC may be allowed to undertake 3rd party sale outside the State subject to permission from appropriate authorities.
- 6.5.1.6 OERC would consider multi-year tariff schedule, which would help the utility like Generator, GRIDCO and DISTCOs to embark upon long term business plan.
- 6.5.1.7 World Bank loan would be passed on by State Govt. to GRIDCO and DISTCOs as 70% loan @ 13% interest per annum and balance 30% would be as grant.
- 6.5.1.8 Tax-free bonds @ 8.5% interest would be guaranteed by Govt. of Orissa for PFC REC loan.
- 6.5.1.9 There shall be 5% overall reduction of distribution losses every year from financial year 2002-03 and 2005-06 bench-making the starting distribution loss of 42.21% in financial year 2001-02.
- 6.5.1.10Collection efficiency of revenue to be calculated as 85% for the financial year 2001-02 reaching to 95% in 2005-06.
- 6.5.1.11Aggressive feeder metering in LV side of distribution transformers should be made within 12-18 months to identify loss prone area. OERC would be requested for compliance from DISTCOs.
- 6.5.1.12Swapping of Govt. dues from GRIDCO against dues of GRIDCO from Govt. and balance receivables if any be settled.
- 6.5.1.13Suitable budgetary provisions be made after actual verification for payment in full of electricity dues of GRIDCO/DISTCOs against various Departments of the State Govt. Such dues could be paid directly to the OHPC Ltd. and the

- books of accounts of the concerned DISTCOs and GRIDCO adjusted as paid and received.
- 6.5.1.14Govt. would exempt water cess on the volume of water used by OHPC for generation of electricity.
- 6.5.1.15GRIDCO should refrain from purchasing materials, which are not required for minimum utilisation. GRIDCO is also advised not to initiate new contracts unless the position is reviewed by their Board of Directors and approved by Energy Department.
- 6.5.1.16 GRIDCO should take prompt and effective action for payment of interest towards World Bank loan. In case of default, this should be adjusted out of the any release to GRIDCO.
- 6.5.1.17 A year-wise target of reduction of cash loss should be fixed and monitored.
- 6.5.1.18 Subsequently a corrigendum has been issued by the State Govt. vide Department of Energy Notification No. 5302 dt. 06.05.2003 on the above mentioned Notification No. R&R-I-2/2002-1068 dt.29.01.2003. The corrigendum is mentioned as under.

The para- IV and para- XIII of the Notification No. R&R-I-2/2002-1068 dated 29.01.2003 may be read as follows:-

IV) GRIDCO and OHPC shall not be entitled to any return on Equity (ROE) except—in respect of the new projects commissioned after 01.04.1996 till the sector become viable or end of 2005-2006 whichever is earlier.

(XIII) Suitable budgetary provisions be made after actual verification for payment in full of electricity dues of GRIDCO/DISTCOs against various Departments of State Government. Such dues could be paid directly to O.H.P.C Ltd. and the books of accounts of the concerned DISTCOs and GRIDCO adjusted as paid and received. Only the dues of CESCO will be paid to O.P.G.C through Escrow with GRIDCO.

6.6 Implementation of multi-year tariff strategy

- 6.6.1 In course of the hearings, the utilities as well as some of the respondents spoke about the element of uncertainty and risk inherent in an annual tariff setting exercise and they pleaded for introduction of a multi-year tariff regime, which would reduce such uncertainty. The Commission is conscious of the need for greater certainty in the regulatory treatment of a host of issues having direct impact on tariff setting. Section 26 of the OER Act, 1995 does not permit for multi-year tariff fixation but there is no bar for determination of long-term tariff strategy. Government of Orissa vide notification referred above is of the view that OERC would consider multi-year tariff schedule, which would help the utility like generators, DISTCOs and GRIDCO to embark upon long-term business plan.
- 6.6.2 The Commission also is in favour of setting out principles of long term tariff strategies so that rules of the game can be known to each and every player of the power sector. The long term tariff strategy aims to promote sustainable and meaningful efficiency improvements help the licensee and the power sector in Orissa to achieve financial stability and safeguard the consumers interest through better quality service and competitive tariffs. The Annual Revenue Requirement of the licensee shall determine during control period on the basis of the pre-determined principles. The control period covers four financial years starting from 1.4.2003 and ending on 31.03.2007. The first year of the control period i.e. FY 2003-04 shall be

treated as the transition period. During the first control period the performance targets shall relate to the system losses and collection efficiency for different consumers of category. The performance targets shall also include the quality of supply and customer service standard. The cost can be segregated into two parts viz. controllable of cost and non-controllable cost. In case of controllable cost, any deviation from the benchmark fixed by the Commission shall not be allowed as pass through. The cost arising from factors that are not under control of the licensee shall be subject to adjustment of forecast value and actual values so as to protect the licensee from such variations. The Commission intends to conduct a detail review of the performance during the control period in October 2006 and come out with a review consultation paper on the performance of licensees during the control period vis-à-vis performance targets as well as the LTTS principles for the next control period.

6.6.3 The implementation of LTTS has been brought out through the Commission's order dt 18. 06. 2003 in Case No. 8/ 2003 .separately.

6.7 Implementation of Availability Based Tariff (ABT)

- 6.7.1 The Availability Based Tariff has been implemented in the Eastern Region w.e.f. 1st April 2003. The principle of ABT aims to enforce grid discipline with an objective to maintain consistency in frequency and efficient use of available energy resources. It has three part tariff structure.
 - 6.7.1.1 Availability Charge for allocated Capacity (Fixed Charge).
 - 6.7.1.2 Energy Charge for Scheduled drawal (Variable Charge).
 - 6.7.1.3 Unscheduled interchange (UI Charge)
- 6.7.2 The special feature of the above commercial mechanism is UI Charge. Under this scheme, any deviation of drawal from the scheduled shall be liable to UI charges Payable/Receivable to the utility concerned. This UI is to be worked out for each 15 minutes blocks period and there shall be 96 Blocks period in each day of operation. The charges for unscheduled drawal shall be based on average frequency of the relevant block period. The UI rate varies with maximum 420 paise/KWH at 49.0HZ and minimum of 0 Paise/KWH at 50.5HZ. The UI Charge at different frequency is linear in the step size of 0.02HZ. During under frequency condition overdrawal beyond schedule will attract disincentive in the form of a higher charge which can go up to 420 p/u at a 49 HZ and incentive for underdrawal will be available at the same rate during low frequency condition. Vice versa is applicable during high frequency condition. This being the principle during ABT regime, no separate charge need to be specified for overdrawal or underdrawal by DISTCOs. During ABT operation, a DISTCOs overdrawing during under frequency condition will be liable to pay UI charges as per rule. There may be a situation when one DISTCOs is overdrawing and another is under drawing so that net impact on GRIDCO drawal is nullified. In that case cost recovery of UI charges from overdrawing DISTCOs will not be appropriated by GRIDCO and will be kept in a separate account. Such cases need to be referred to Commission for direction on appropriation of these funds. The DISTCOs in turn need to bring to the notice of the consumers particularly industrial ones of EHT and HT category about the impact of the overdrawal during under frequency condition and should have a back to back arrangement for passing on the extra burden due to UI charges to those industries overdrawing during UF condition. The meters in the consumer premises should be capable to record the 15 minutes interval load drawal with a memory retention of at least 60 days.

6.7.3 ABT is a new concept with three elements of charges. In initial years there might be teething problems. The utilities need to remain alert to avoid such huge financial burden on account of UI charges.

6.8 Securitisation of Power Purchase dues

- 6.8.1 In OERC order (Case No.29 & 30/2000 dtd.16.03.2001) on FRP and securitisation, the Commission observed "the Commission grants in principle approval of the Financial Restructuring Plan indicated in paras 12 and 13 of this order and plan for rescheduling of loans as contained in their application dtd.19.09.2000 vide Case No.30/2000 dtd.30.09.2000 and 29/2000 dtd.19.09.2000 respectively. GRIDCO with the support of GOO must plead with the GOI and the funding agencies for one time settlement, waiver of dues and fresh loans and after taking the results into account, implement the financial restructuring plan to revise GRIDCO so as to put it on recovery path towards viability".
- 6.8.2 Further, the Commission has observed, "the retail tariff levels as proposed in the FRP is based on the BST calculation. The projection has not taken into account the debt service due to the tax free bonds to be issued by GRIDCO. On the other hand, they have proposed additional borrowing to the tune of Rs.929 Crore in the year 2001 and further Rs.631 Crore in the year 2002. This will definitely impact the BST as well as the retail tariff thus upsetting some of the crucial FRP assumptions. We are not in a position to give clearance and commitment for future tariff, as these will be dealt separately on a year to year basis in accordance to the OER Act".
- 6.8.3 A submission was made on behalf of GRIDCO during the course of the public hearing that GRIDCO had not been able to pay the dues to generators due to non-payment by the DISTCOs to GRIDCO. The power purchase payables as on 28th of February 2001 is given below:

Table: 10 (Rs. in Crore)

Power Purchase Payables							
(As on 28 th Feb,2001 without March,01 bill)							
Central Sector	Principal	DPS	40% DPS	Total			
Generators	outstanding	outstanding	applicable for	outstanding			
			securitisation	for			
				securitisation			
NTPC (Incl. TTPS)	410.73	126.75	50.70	461.43			
NHPC	5.05	9.87	3.95	9.00			
PGCIL	11.39	-		11.39			
NALCO	156.46	-		156.46			
Total payables to CPSUs	583.63	136.62	54.65	638.28			

6.8.4 GRIDCO pleaded that NTPC had been regulating power supply to Orissa due to non-payment of dues and in accordance with the CERC order dt.11 January 2002 a utility would be required to bear the fixed cost of the generators in proportion to the share allocation during the period of energy regulation by the central generators. In this situation, the liability of GRIDCO will further increase if the Commission does not reconsider its own decision of not allowing the interests on account of securitization of power purchase liabilities. In view of the regulation of power by NTPC, it has become extremely urgent on the part of GRIDCO to create special purpose vehicle for securitizing power purchase liability of NTPC through issue of bonds and the

Commission may permit the interest on bond as a pass through in the revenue requirement for the year 2001-02 and 2002-03. As indicated in para above, the Commission being concerned about the mounting liabilities of GRIDCO accepts securitisation of current liabilities as on 28.2.2001 payable to CPSUs like NTPC and NALCO through issue of new bonds. In addition, the Commission also accepts the interest liability of the past bonds issued by GRIDCO which was earlier disallowed provided these bonds are converted at 8.5% coupon rate in line with recommendation of Ahluwalia Committee.

- 6.8.5 The financial position of GRIDCO is such that the liability on account of power purchase is on the rise due to non-payment of BST bills by the distribution companies creating a debt trap both for GRIDCO as well as for the generators. At the time of passing of the FRP order as indicated in the para above, the issue of pass through of the burden of interest on power bonds on account of non-payment of power dues is required to be addressed in this tariff order. The Commission has come to conscious decision that unless the power purchase liabilities are allowed to be securitised in full, the problem of liquidity cannot be addressed. In any case, this has to be a one time settlement in accordance with the policy followed at the national level where the GOI has categorically accepted the ground realities and allowed securitisation of power dues as well as other dues payable to the GOI organisations by the SEBs. The case of Orissa is no different except that it has taken an advance step of reforming its own power sector for which SEB has been replaced by the GRIDCO and the DISTCOs. Accordingly, this principle should be applicable mutatis mutandis to GRIDCO which is purchasing bulk power from generators.
- 6.8.6 This will have the advantage of retiring high cost debts carrying interest rate more than 24% per annum, (LPSC @ 2% p.m.) on the central generator dues. Securitisation of these dues will reduce the interest burden to 8.5% as recommended by the Ahluwalia Committee in its report for one time settlement for CPSU dues and accepted by the Government of India. The Commission would further expect that the dues of CPSUs like NALCO should also be securitised by GRIDCO in similar manner.
- 6.8.7 As far as the recovery of interest from DISTCOs is concerned, the analogy as applied for GRIDCO shall apply in this case, since there is a back to back arrangement between GRIDCO and DISTCOs for recovery of the institutional loans handed over at the time of separation of distribution business from GRIDCO. Interest shall be calculated during the year 2002-03 on the loans and past bonds securitized carrying a lower rate of interest of 8.5%.

6.9 **Reasonable Return**

6.9.1 The Commission is aware that the capital base of all the licensees are negative and their networth has been eroded. As such, no returns are possible to the licensees and they stand to earn only 0.5% on the approved loans. The Commission is of the view that an appropriate base for returns is required for enabling fresh infusion of capital and hence, it has allowed a 16% return on equity instead of the traditional return on capital base. The Commission in this regard has thereby departed from Sixth Schedule.

6.10 Treatment of Working Capital

6.10.1 The Commission believes that the companies must commit themselves to a higher level of efficiency, bring loan to meet the working capital needs so that the transmission utility and the generators are not starved of funds. There is a gap

between the revenue billed and the revenue realised due to inefficiency on the part of the licensees for failing to take appropriate and expeditious steps like disconnection in time or initiation of civil suits to realise the arrear dues. Under the present tariff the domestic, commercial, irrigation and agricultural consumers and small industries, are not required to pay any DPS for delay in payment, whereas medium industries and other categories only pay one time DPS. This is a disincentive for revenue collection especially when the licensees are not capable of realising the dues after the due date of payment is over. The Commission therefore, thinks it appropriate to levy a DPS of 2% due to non-payment by the consumers as was suggested by one of the objectors, Sri R C Padhi.

- 6.10.2 The distribution companies have failed to bring required working capital to ensure proper cash flow to meet all expenses. The licensee can get rebate on prompt payment from GRIDCO @2% per month, which will reduce its power purchase liability. Thus, if the licensee arranges working capital from the commercial and financial institutions, they can save not only the DPS but will earn a rebate from the GRIDCO that will compensate the interest on working capital and may accrue some revenue in the form of rebate. The licensee is having a huge amount of arrears to be collected from consumers in the period of its taking over the business from 01.04.99 till 31.03.2003. As per the figure submitted by WESCO, the arrears as on 31st March 2003 is around Rs.485 crore. Apart from 90% collection of the current revenue if the licensee collects at least 15% to 20% of the arrears outstanding, it will be flushed with sufficient fund and may not require any working capital for its day to day management. Moreover, the licensee is collecting security deposit equivalent to interest free two months charges available with DISTCOs. This amount can be utilised for meeting working capital requirements as a stop gap arrangement.
- 6.10.3 In addition to the above, if any finance is availed from any other source to meet the working capital requirements to the extent of revenue shortfall of 10% as recognised by the Commission, the servicing of the same can be passed on to consumers after due scrutiny and approval by the Commission.

6.11 Swapping of dues receivable from the Govt. against amount payable to GRIDCO

All the DISTCOs, during hearing, pointed out that they are unable to collect arrears of Govt. Deptts and Public Sector Undertakings due to which they could not meet the GRIDCO's demand towards BST bill and loan instalments. They submitted that the Govt. arrears should be adjusted against the dues of GRIDCO so that they would be relieved from servicing the dues of GRIDCO to some extent. Govt. of Orissa in their notification dated 29.01.2003 decided to swap Govt. of dues from GRIDCO against dues of GRIDCO from Govt. and balance receivables, if any be settled. In the light of the above decision, the Commission is of the opinion that the dues of DISTCOs from Govt. of Orissa/Public Sector Undertaking can be adjusted against the dues of GRIDCO from the DISTCOs. In order to adjust the arrears from the Govt. against GRIDCO dues, DISTCOs should provide authenticated audited figures by 31.08.2003 for further action at Commission's end. In principle, as per Govt. Notification No. 1068 dated 29.01.03, these audited amounts will be deemed to have been passed on to GRIDCO. In other words, the State Govt. will pay the amount to GRIDCO/OHPC as approved by the Commission.

6.12 **T&D loss**

6.12.1 The next issue is determination of the total cost of distribution and retail supply. The supply business requires purchase of power by the DISTCOs from GRIDCO for supply to consumers. The energy received at grid sub-stations at 33 kV by the DISTCOs and supplied to the end-use consumers at different voltage levels which

entails both technical and commercial losses. The quantum of power purchase is metered in each grid sub-station and is reflected in the various data recorded in the Energy Billing Centre (EBC) and in the BST bill of GRIDCO raised on DISTCOs. The table below shows the details of power purchase, sale and distribution loss of the DISTCOs from 99-00 to 02-03.

Table: 11
Actual Performance (As per filing of the DISTCOs)

	FY 00	FY 01	FY 02	FY 03
WESCO				
Energy Purchased (MU)	2688.429	2867.767	2979.287	3353.720
Energy Sale (MU)	1500.831	1628.892	1595.781	2069.272
Distribution Loss (%)	44.17	43.20	46.44	38.30
NESCO				
Energy Purchased (MU)	2258.00	2437.00	2303.00	2396.116
Energy Sale (MU)	1279.00	1358.00	1128.00	1404.968
Distribution Loss (%)	43.36	44.28	51.02	41.36
SOUTHCO				
Energy Purchased (MU)	1433.00	1522.70	1521.97	1555.99
Energy Sale (MU)	833.00	875.43	906.09	946.94
Distribution Loss (%)	41.87	42.51	40.47	39.14
CESCO				
Energy Purchased (MU)	3607.00	4023.00	4186.00	4055.437
Energy Sale (MU)	1990.00	2219.00	2143.00	2310.599
Distribution Loss (%)	44.83	44.84	48.81	43.02
TOTAL				
Energy Purchased (MU)	9986.43	10850.47	10990.26	11361.263
Energy Sale (MU)	5602.83	6081.32	5772.87	6731.779
Distribution Loss (%)	43.90	43.95	47.47	40.75

- 6.12.2 The Commission in its Retail Supply Tariff order for the year 2002-03 accepted the distribution loss figure as adopted by the Kanungo Committee as 42.21% for the base year FY 2001-02.
- 6.12.3 This figure of 42.21% represents the overall average distribution loss for the entire State but varies across the four distribution companies depending upon their consumer mix. The variation in loss figures across the DISTCOs are exhibited in the table given below. The Commission also adopted the recommendation of the committee for reduction of distribution loss at least at the rate of 5% per annum from 2001-02 to 2002-03. The Commission, therefore, directed that for the purpose of determination of tariff and the revenue requirement the rate of loss reduction would be calculated at the rate of 5% (overall average for the state) starting from the FY 2001-02 and 2002-03, as detailed below. The shortfall between the actual loss reported by licensees and what has been approved by the Commission will have to be absorbed by the licensees.

Table: 12

	FY 2001-02			FY 2002-03		
	Purchase Loss(%) Sa		Sale(MU)	Purchase	Loss(%)	Sale(MU)
	(MU)	, ,	, ,	(MU)		, ,
CESCO	4167.77	40.94	2461.485	4321.00	35.94	2768.03
NESCO	2253.62	46.98	1194.8693	2291.20	41.98	1329.36
WESCO	2980.64	41.08	1756.1931	3066.54	36.08	1960.13
SOUTHCO	1525.07	40.89	901.46888	1682.39	35.89	1078.58
TOTAL	10927.10	42.21	6314.02	11361.13	37.21	7136.10

- 6.12.4 The Commission also stated in the said order that while formulating the multi-year tariff proposed to be effective from 01.04.2003, this aspect of loss reduction along with collection efficiency etc will be adopted for the control period.
- 6.12.5 As part of its consultative process on tariff fixation, the Commission convened its Commission Advisory Committee (CAC) meeting on 9th April, 2003 and its constituent members rendered valuable input regarding the proposed tariff and revenue requirement of the licensees.
- 6.12.6 Cutting across the board, members representing varied interest groups expressed concern about the persistent high transmission and distribution losses of GRIDCO and the DISTCOs. They suggested that the operational efficiency of the licensees should be streamlined and monitored more rigorously. They were of the view that inability of the license holders to bring down T & D loss in a phased manner and to achieve the benchmarks set by the Commission in its previous tariff orders, was the primary reason why they were not financially viable even after seven years of reform. They emphasized that T&D loss should come down from 35% in 2000-2001 to 32% in the current year.
- 6.12.7 Members were unanimous that indifference of the state government to issues such as revenue subsidy for rural electrification works, clearance of government energy arrears and enactment of anti theft law has contributed in large measure towards downsliding of power sector reform in the State. They called for greater political will in dealing with the problems of the energy sector.
- 6.12.8 The CAC was also critical of the un-audited accounts and unauthenticated figures dished out by the GRIDCO and DISTCOs in their tariff proposals. They pointed out that cross check of figures in respect of valuation of assets, T & D loss and other expenditures presented to the Commission in different occasions by these companies revealed gross discrepancies. Members suggested that all figures submitted by the licensee in tariff, should be subjected to thorough scrutiny before allowing them to pass through.
- 6.12.9 The commission's decision to allow securitisation of arrear dues in last year tariff reversing its own previous order was opposed by the members who were of the opinion that this would penalise consumers who had already paid for the cost of energy in the relevant year.
- 6.12.10 Members also suggested that to avoid any needless burden on consumers, both hydro and thermal generators should make short-term power projection with 5% margin for emergencies and costly power from central power stations should be surrendered. The CAC stressed on aggressive bi-lateral trading as a effective means to offset high power purchase costs.

- 6.12.11 With regard to the current additional expenditure on power due to failure of the monsoon, CAC members urged the government to make every effort to secure grant from the National Calamity Fund by the state government. They demanded that the recommendations of the Parekh Committee should be implemented without delay.
- 6.12.12 The objectors in general were of the opinion that adoption of a uniform loss figure for the four distribution companies with a different load mix would hide the inefficiency of the companies with higher components of HT and EHT load. EHT component of load makes a big difference to the overall loss figure for the company as loss in EHT category is practically negligible. The average loss as a percentage of the total power procurement from the GRIDCO by DISTCOs as well as the direct sale figures at EHT as projected by the four DISTCOs are given in the table below for the FY 2003-04.

Table: 13

PROPOSED FOR FY 2003-04 BY DISTCOs	NESCO	WESCO	SOUTHCO	CESCO	TOTAL
Input for the DISTCOs (MU)	2464.31	3773.58*	1580	3960	11777.89
Sale at EHT (MU)	471.48	1346**	153.64	423	2394.12
Proposed Distribution Loss (%) for 2003-04	38.49	32.42***	36.26	35.98	35.41
Distribution Loss(%) as set by OERC for 2003-04	36.98	31.08	30.89	30.94	32.21

^{*} Input for WESCO has been arrived at based on its submission dtd. 25.01.2003 and 05.02.2003 through affidavit for additional sale of 270 MU to M/S INDAL, Hirakud, Rourkela Steel Plant and some HT Industries.

^{**} including the additional sale to M/S INDAL & M/S RSP.

^{***} WESCO in its ARR has indicated target distribution loss of 34.86% for the year 2003-04. With the additional sale at EHT, the target loss works out to 32.42%.

^{6.12.13} Some of the objectors have pointed out that the distribution loss is being computed including EHT energy consumption to show a reduced level of loss. The total power sale to a DISTCO is arrived at the Energy Billing Centre of GRIDCO by integrating the EHT drawal at 132/220 kV and bulk power drawal at 33 kV from any grid substation. Therefore, sale at EHT can be taken out from the total power purchase figures to determine the energy input to various DISTCOs for supply to HT and LT consumers. If the EHT sale projected by the four DISTCOs are taken out from the total sale projected by these companies, the distribution loss as the percentage loss on HT and LT input will be as under.

Table: 14
Distribution Loss as percentage of HT & LT input as proposed by the Distribution Companies for the year 2003-04

	NESCO	WESCO	SOUTHCO	CESCO	ORISSA
Loss at HT & LT (%)	47.59	50.40	40.16	40.32	44.45

- 6.12.14 The Commission had also observed in the previous tariff order that the high T&D loss is not an isolated phenomena in Orissa. Higher level of loss figures are being gradually disclosed in all most all the reforming states in the country. The World Bank on whose SAR Commission relied in fixing an overall loss level of 35% in FY 1997-98 subsequently came out in its midterm review report dtd.31.10.1998 that it underestimated the actual loss level in the beginning. The World Bank states, "Consultation with the Commission on the issue of recognizing the actual system loss levels and pass through of prior years' financial losses, given that we all so severely underestimated GRIDCO's system losses in 1996 and set unachievable performance targets".
- 6.12.15 The DISTCOs have not yet seriously taken any initiatives on metering of 33/11 KV feeders and on LV side of transformer and at consumers' end to ascertain the actual level of loss and identify loss prone areas. However, WESCO in the course of hearing of Case No.55/2002 in the matter of Escrow Relaxation and also in its Business Plan submitted to OERC and in subsequent compliance to the queries raised by the Commission relating to the tariff for FY 2003-04 has committed to complete all feeder metering by end of October, 2003, LV side of Transformers by 31.03.2004 and consumer end metering by June, 2004.
- 6.12.16 The Commission with the assistance of the Department for International Development (DFID) has conducted pilot study in one 11 kV feeder for WESCO, NESCO and SOUTHCO and two feeders of CESCO through Commission's consultant i.e. PWC. The report of this pilot study demonstrates that there is ample scope and opportunity for quick reduction of loss by the DISTCOs. Since the result arrived based on the study of a single feeder may not give a representative picture of the distribution loss, the Commission with the assistance of DFID through PWC have taken up the exercise of carrying out additional pilot studies on selected number of 11kv feeders having mixed load.
- 6.12.17 The distribution companies while submitting the business plan for a period of 5 years to the Committee of Independent Experts in the month of October, 2001 have supplied the following distribution loss figures for the year 2001-02 to 2004-05:-

Table-15
Figure of distribution loss projected by DISTCOs before the Committee of Independent Expert

the committee of independent Expert						
Name of the	FY 01-02	FY 02-03	FY 03-04	FY 04-05		
company						
CESCO	40.94%	39.35%	37.57%	36.08%		
NESCO	46.98%	40.77%	36.85%	34.12%		
WESCO	41.08%	39%	36.93%	34.89%		
SOUTHCO	40.89%	39.21%	36.01%	33.14%		
ALL ORISSA	42.21%	39.56%	37.00%	34.87%		

Table-16
Figure of distribution loss achieved by DISTCOs during FY 2002-03

Name of the company	FY 02-03	Target level of distribution loss set by the Commission for FY 2002-03
CESCO	43.02%	35.94%
NESCO	41.36	41.98%
WESCO	38.3%	36.08%
SOUTHCO	39.14%	35.89%
ALL ORISSA	40.75%	37.21%

- 6.12.18 The committee, however, accepted distribution loss of 42.21% for the base year of FY 2001-02 after hearing the DISTCOs and suggested reduction of distribution loss by 5% each year from FY 2002-03 to reach a level of 22.21% in the year 2005-06 and extended to 20% by end of the year 2006-07.
- 6.12.19 The pilot study conducted by the Commission brings out very clearly that the scope of reduction of distribution loss is enormous unless the companies take effective sand concrete steps such as technical, financial and managerial decisions in this regard, any number of alibis expressing inability for not reducing the distribution loss are not acceptable to the Commission. Besides, higher level of loss found out on the basis of pilot study is purely indicative as the number of feeders selected were mini scale in number as compared to the existing feeders. Pilot study results cannot be taken as basis for determining loss levels existing in different DISTCOs, as study of one feeder out of hundreds of feeders in the company with varied load mix, concentration of loads, length and size of feeders cannot be a representative one. But this study brought to the fore very interesting facts like direct tapping of 11 kV feeder by industrial consumers, by-passing of meter CTs, etc. It so happened in some areas where pilot study was being taken up, the consumers locked their houses and went away virtually preventing the utility staff and consultants to check the status of the meter. Pole scheduling in the study area revealed unauthorized abstraction of energy by the illegal consumers, consuming energy far more in excess of what was shown in the consumer ledger of the DISTCOs.
- 6.12.20 The Commission in its tariff order dtd. 19th April, 2002 for the year 2002-03 accepted the distribution loss figure as approved by the Kanungo Committee as 42.21% for the FY 2001-02 which is treated as the base year. This figure of 42.21% represents the overall average distribution loss for the entire State but varies across the four distribution companies. The variation in loss figures across the DISTCOs is exhibited in the table given below. The Commission also adopted the recommendations of the committee for reduction of distribution loss at least at the rate of 5% per annum from 2001-02 to 2002-03.

Table: 17

	FY 2001-02			FY 2002-03		
	Purchase Loss		Sale	Purchase	Loss	Sale
	(MU)	(%)	(MU)	(MU)	(%)	(MU)
CESCO	4167.77	40.94	2461.485	4321.00	35.94	2768.03
NESCO	2253.62	46.98	1194.8693	2291.20	41.98	1329.36
WESCO	2980.64	41.08	1756.1931	3066.54	36.08	1960.13
SOUTHCO	1525.07	40.89	901.46888	1682.39	35.89	1078.58
TOTAL	10927.10	42.21	6314.02	11361.13	37.21	7136.10

- 6.12.21 The Commission therefore directed that for the purpose of determination of tariff and the revenue requirement the rate of loss reduction will be calculated at the rate of 5% (overall average for the state) starting from the FY 2001-02 and 2002-03.
- 6.12.22 While formulating the multi-year tariff starting from 2003-04 as the transition year, this aspect of loss reduction along with collection efficiency etc will be decided for the Control Period, i.e. 2003-04 to 2006-07.
- 6.12.23 The Commission wants to make it expressly clear that there is no shortcut way unless a systematic drive is made to reduce the distribution loss. This should necessarily include metering of 11 kV feeders, metering at LV side of transformers, pole scheduling, verification, if deemed necessary of consumer connected loads, rectification or replacement of consumer meters so that each feeder is converted to a **Profit Centre** as has been very aptly stated by the Ministry of Power, GoI, which is allotting a large sum of money to meet the cost of metering etc. to achieve the goal in a time bound manner, which will be available through State Govts. to utilities and SEBs under APDRP programme.
- 6.12.24 WESCO has committed to complete all the feeder metering by October 2003 and LV side of transformer metering by 31st March 2004. The table below indicates that there are about 2 to 3 Nos. of 11 kV feeders, 1 No. of 33 kV feeder and 2 Nos. of 33/11 kV transformers under each section in the State. Number of transformers, feeders, and field sections with the Distribution Companies as on 31st March, 2003 are as under:

Table: 18

	33/11 Transformer (In Nos)	33KV Feeders(InNos)	11KV Feeders(InNos)	Distribution Transformers (In Nos)	Field Sections (In Nos)
CESCO	340	125	534	15106	245
NESCO	196	48	355	9942	109
WESCO	199	91	390	10775	128
SOUTHCO	190	141	385	9141	112
ALL ORISSA	925	405	1664	44964	594

- 6.12.25 The Commission, among other things, has attached highest priority on these aspects and shall expect the licensee to aggressively taking up related activities and complete the same by 31.03.2004 as committed by them in the bimonthly review.
- 6.12.26 Though the Commission in deference to the spirit of OER Act, 1995 would have liked for a hands-off regulation while dealing with day to day activities of DISTCOs, but it finds to its dismay that utilities have taken advantage of this liberal gesture and have done precious little to address this issue which constitutes a menace to the viability of the power sector. Therefore, Commission would remain closely associated for some time to come in monitoring the activities of DISTCOs in this regard.

6.13 AT&C loss (Aggregate Technical and Commercial Loss)

6.13.1 The Kanungo Committee Report, has coined AT&C loss as distinct from the conventional T&D loss which would capture the totality of loss, both technical as well as commercial owning to non-billing, non-collection, theft, etc. In the similar

line, the Delhi Electricity Regulatory Commission is of view that the clearest measure of overall efficiency of the distribution business is the difference between units input into the system and the units for which payment is collected. The losses of any kind, technical, non-technical or non-realisation of payments amount to loss in revenues. Efficiency gains must embrace all these aspects. **Hence, the losses should be measured as the difference between the units input and the units realised (units collected).** Such difference is hereinafter referred to as "AT&C Loss" (Aggregate Technical and Commercial Loss). The Government of National Capital Territory of Delhi, as a matter of policy has decided that the AT&C loss shall be the basis for determination of tariffs and also for computation of incentives for better performance. The formula as under indicates the method of determination of AT & C Loss

6.13.2 The Commission also adopts the terminology AT&C Loss" (Aggregated Technical and Commercial Loss) as a performance parameter for the multi-year tariff strategy commencing from 2003-04. Accordingly, the Commission fixes the performance target for the Distribution Companies as given in the tables below.

Table: 19
AT & C Loss Target fixed for FY 2003-04, the first year of the Control Period

111 00 0 2000 1 111 800			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01101 01 1 01 10 0
	NESCO	WESCO	SOUTHCO	CESCO
Target fixed for 2002-03				
Distribution Loss (%)	41.98	36.08	35.89	35.94
Collection Efficiency (%)	87.5	87.5	87.5	87.5
AT & C Loss (%)	49.	44.1	43.9	43.9
Target fixed for 2003-04				
Distribution Loss (%)	36.98	31.08	30.89	30.94
Collection Efficiency (%)	90	90	90	90
AT & C Loss (%)	43.28	37.97	37.80	37.85

The AT &C loss target for FY 2003-04 will be based on the AT & C loss adopting base year FY 2002-03, as determined by the Commission.

6.14 Method of determination of Power Purchase

6.14.1 The power purchase by the DISTCOs are metered at various grid sub-station's interface points and the DISTCOs are billed according to the meter reading at these points. Actual figures of billing raised by GRIDCO to the DISTCOs for the year 2002-03 are already available. The DISTCOs have estimated their anticipated power purchase from GRIDCO as indicated in their tariff filing. WESCO in its submission dtd. 25.01.2003 and 05.02.2003 through affidavit has indicated additional sale of 270 MU to M/S INDAL, Hirakud, Rourkela Steel Plant and some HT Industries. As far as the FY 2003-04 is concerned, the Commission will go by the growth rate projected for the various classes of consumers by the DISTCOs at different voltage levels in the context of LT & HT and calculate the incremental power requirement over and above the actual consumption in FY 2002-03. For EHT consumers the proposed sale indicated by WESCO has been considered.

6.14.2 Further, in case of NESCO and CESCO additional sale of 258 MU and 22 MU respectively has been considered based on the percentage rise in the actual consumption in the year 2002-03 by the Ferro Alloys Industries at EHT with reference to the proposed consumption for the said year indicated in the ARR Proposal for the year 2002-03. The total quantum of power purchase for the year 2003-04 has been arrived at as given in the table below.

Table : 20

	FY 2003-04			
	Purchase	Loss(%)	Sale(MU)	
	(MU)			
CESCO	3981.64	30.94	2749.72	
NESCO	2721.96	34.84	1773.52*	
WESCO	3773.58	31.08	2600.75	
SOUTHCO	1580.00	30.89	1091.94	
TOTAL	12057.18	31.86	8215.93	

^{*}Sale at LT & HT has been calculated applying OERC target level of loss on units purchased and with the additional sale to Ferro Alloys Industries at EHT, the loss level works out to 34.84%.

6.14.3 "The Commission will approve the quantum of power to be purchased by the distribution licensee from GRIDCO. When the DISTCO purchases cheaper power from other sources in preference to the power committed to be purchased from GRIDCO, the licensee shall pay the fixed charges in respect of the power committed but not purchased. The distribution licensees are allowed to purchase cheaper power over and above the quantity of power committed to be purchased from GRIDCO as per Commission's order. The DISTCOs are be permitted to sale the surplus power to consumers outside the State and retain the profits of the transactions. Any profit or loss arising out of this transaction will not be passed on to other consumers in his licensed area."

6.15 **Determination of expected revenue**

6.15.1 On the quantum of energy to be purchased by the DISTCOs the percentage of distribution loss as approved by the Commission shall be applied to determine the quantity to be sold during the financial year 2003-04 as given in the table above. The expected revenue from sale of power shall be calculated separately for each category. The shortfall between the estimated revenue requirement and the expected revenue will represent the deficit in revenue which need to be funded through interim financing or through tariff.

6.16 Collection efficiency of DISTCOs

- 6.16.1 The Committee of Independent Experts had also recommended that the ground reality of billing and collection by the distribution companies in the present Orissa situation need to be recognised. For this purpose, they had suggested that 78% should be accepted as the collection efficiency for the base year 2001-02 going upto 95% by the year 2005-06. The Committee had recommended that the cash gap should be funded by Govt. of Orissa through interim financing other than debt.
- 6.16.2 The Commission in its tariff order dt. 19.04.2002 considered that with receipt of Government dues, the collection efficiency would increase to 85% for the year 2001-02. In the neighbouring states, such as Andhra Pradesh and Karnataka, the collection

efficiency of the utilities is above 95%. In Rajasthan, the collection efficiency is 103%. The Commission is of view that the entire amount on account of non-collection cannot be treated as bad debt as this will further enhance the revenue requirement. Acceptance of the entire uncollected dues of a particular year therefore cannot be written off as bad and doubtful debt and cannot be treated as a pass through for next year tariff. This will accentuate the burden on the paying consumers of the state. The distribution companies have to gear up their machinery for improving collection of revenue for which they need law and order support. To translate this into action, the Commission fixed a yardstick for collection efficiency 85 %for the year 2001-02 and 87.5 % for the year 2002-03. Accordingly, the Commission fixes target for collection efficiency as 90 %for the year 2003-04 which is built in the AT&C target fixed as mentioned earlier.

6.16.3 A summary of purchase, sale of power and expected revenue for the year 2003-04 is approved as per the details below.

Table-21 FY 2003-04

EXPECTED PURCHASE & SALE OF POWER & REVENUE BY DISTCOS						
	Purchase (MU)	Loss (%)	Sale (MU)	Revenue. (Rs. Cr)		
CESCO	3981.64	30.94	2749.72	765.24		
NESCO	2721.96	34.84	1773.52*	460.00		
WESCO	3773.58	31.08	2600.75	718.20		
SOUTHCO	1580.00	30.89	1091.94	288.01		
TOTAL	12057.18	31.86	8215.93	2231.45		

^{*} Sale at LT & HT has been calculated applying OERC target level of loss on units purchased and with the additional sale to Ferro Alloys Industries at EHT, the loss level works out to 34.84%

6.16.4 The Commission does not accept the figure of expected revenue calculated by the DISTCOs for the FY 2003-04 and determines the expected revenue for various DISTCOs for the aforesaid period as indicated in the table above, subject to any variation on account of change in direct sale to consumers at EHT.

6.17 **Overdrawl of Power**

6.17.1 Overdrawl of Power by the Distribution Companies will be guided by the ABT principles. Overdrawl and underdrawl during under frequency condition will attract penalty and incentive respectively and vice versa during high frequency condition. The DISTCOs should notify their EHT, HT, and LT industrial consumers who are guided by two part tariff accordingly and should provide appropriate meters for the purpose.

6.18 **Operating Expenses**

Operating Expenses include:

- a. Employees Cost
- b. Administrative & General Expenses (A&G)
- c. Repair & Maintenance Costs (R&M)

6.18.1 Employees Cost

- 6.18.1.1WESCO in its application for revenue requirement for 2003-04 has submitted break up of employees cost for FY 2003-04, FY 2002-03 and FY 2001-02. WESCO has filed the audited accounts of FY 1999-2000 and FY 2000-2001, as per which employees cost amounts to Rs.54.00 crore and Rs.55.17 crore respectively. During FY 2001-2002, as per the accounts prepared for income tax purposes employees cost amounts to Rs.55.43 crore only. For the year FY 2003-2004 WESCO has estimated such cost amounting to Rs.63.83 crore before capitalisation of Rs.2.89 crore. Hence, the employees costs chargeable to revenue has been estimated at Rs.60.94 crore.
- 6.18.1.2The Commission in its last tariff order allowed an amount of Rs.55.60 crore and Rs.56.87 crore towards employees cost for the FY 2001-2002 and FY 2002-03, respectively. Since the accounts figures for FY 2001-2002 almost matches with the figure approved in the last tariff order, the Commission considers it prudent to take the approved figure of FY 2002-2003 as base. While determining the basis pay for the year FY 2003-2004 the Commission considers it appropriate in giving a 3% rise over the approved basic pay for FY 2002-2003.
- 6.18.1.3As regards DA, Commission is aware of the fact that the rate of DA allowed by Govt. of Orissa is 49% with effect from 1 January 2002. In the last tariff order, the Commission has allowed DA of 41% on the basic pay with a rider that any increase in rate of DA in future will be allowed to be recovered through tariff with retrospective effect. WESCO has claimed arrear DA of 13% to be recovered during FY 2002-2003.
- 6.18.1.4Rate of DA revised from time to time by Govt. of Orissa is given below:

Table: 22

	Rate of DA
01.07.2000	41%
01.01.2001	43%
01.07.2001	45%
01.01.2002	49%

- 6.18.1.5After analysis of the DA rate revised from time to time it is found that the average rate of DA for the year 2001-02 and 2002-03 should have been 45% and 49% respectively. Therefore, the Commission feels it prudent to allow arrear DA of 4% of the basic pay of 2001-02 and arrear DA of 8% of basic pay of 2002-03.
- 6.18.1.6All other allowances claimed by licensee are found to be reasonable and accepted by the Commission. Keeping these observations in view, the Employees Cost has been recalculated as indicated in table below:

Table: 23
Details of Employees Costs

(Rs. Crores)

Sl. No.	Particulars	Approved by Commission	Proposed by licensee	Approved by Commission
110.		FY 2002-2003	FY 2003-2004	FY 2003-2004
1	Salaries	29.40	28.55	28.55
2	Overtime			
3	Dearness Allowance	12.05	17.56	17.42
	Sub-Total (1 to 3)	41.45	46.11	45.97
4	Other Allowance	0.65	0.68	0.68
5	Bonus			
6	Total Emoluments (1 to 5)	42.10	46.79	46.65
	Other Staff Costs			
7	Reimbursement of Medical Expenses	0.91	1.16	1.16
8	Leave Travel Concession	0.10	0.00	0.00
9	Reimbursement of HR	4.54	4.28	4.28
10	Interim Relief of Staff			
11	Encashment of Earned Leave	1.72	1.92	1.92
12	Honorarium			
13	Payments under Workmen Compensation Act	0.10	0.10	0.10
14	Ex-gratia			
15	Other Staff Costs			
16	Total Other Staff Costs	7.37	7.46	7.46
17	Staff Welfare Expenses	0.61	0.61	0.61
18	Terminal Benefits (PF)	6.63	7.36	7.36
19	Gratuity	1.45	1.60	1.60
	Total (6+16+17+18+19)	58.16	63.83	63.69
	Less: Employees Expenses Capitalised	1.29	2.90	2.90
	Net Employee Costs	56.87	60.94	60.79

6.18.2 Repair and Maintenance (R & M) Expenses

- 6.18.2.1WESCO has proposed Rs.21.30 crore for FY 2003-2004 towards repair and maintenance expenses, calculated at the rate of 5.4% of Gross Fixed Asset at the beginning of the year.
- 6.18.2.2As per audited accounts for FY 1999-2000 and FY 2000-2001, the total Repair and Maintenance expenses was Rs.15.90 crore and Rs.10.02 crore respectively. The expenses during 2001-02 as per income tax audit amounts to Rs.11.30 crore.
- 6.18.2.3The Commission examined the licensee's proposal on R&M expenses. It is felt that preventive maintenance is very much required to avoid major break down of the assets inherited, which were in run down condition. The Commission therefore consider it reasonable to allow the rate of 5.4% of gross fixed asset as at the beginning of the year towards repair and

maintenance expenses. The Commission approves an amount of Rs.16.89 crore towards R&M expenses for the year FY 2003-04.

6.18.3 Administration & General (A & G) Expenses

- 6.18.3.1WESCO proposes Rs.9.90 crore towards A&G expenses for the FY 2003-2004 in their Annual Revenue Requirement. These expenses include expenses on communication, professional charges, property related expenses, conveyance and travelling, training and other expenses.
- 6.18.3.2WESCO in its submission has stated that the Commission had disallowed the lease rent on meters in their order dated 19.04.2002 on the ground that meters have been taken on financial lease. In this regard, WESCO clarified that due to delay in release of fund from World Bank, meters were obtained on lease to expedite metering programme. The relevant lease agreements are in operative lease terms for which the lessor is entitled to claim depreciation. Further, WESCO gave justification that had the meters been purchased out of loan fund, interest cost would have been claimed by WESCO in its revenue requirement. In the application WESCO has submitted that lease rent payable by the company should be allowed under A&G expenses.
- 6.18.3.3The Commission examined the licensee's proposal on A&G expenses. As per the audited accounts, the licensee has incurred A&G expenses of Rs.5.56 crore and Rs.8.04 crore for the year FY 1999-2000 and FY 2000-2001 respectively. For the FY 2001-2002, the expenditure as per the accounts prepared and submitted for income tax purpose amounts to Rs.9.12 crore. The Commission in its last tariff order allowed Rs.4.21 crore for FY 2001-2002 and Rs.4.42 crore for FY 2002-2003, considering an escalation of 5% over the previous year figure. The objectors also pointed out that the licensee should arrest the growing A&G expenditure and limit it within the amount approved by the Commission.
- 6.18.3.4The Commission is of the opinion that the licensee should not exceed the controllable expenses beyond the bench-mark fixed by the Commission. Any expenditure of controllable nature incurred beyond the benchmark fixed by the Commission should not be passed on to the tariffs.
- 6.18.3.5The Commission finds the projected A&G expenditure proposed by the licensee is at higher side and considers it reasonable to allow an increase of 7% per annum over the approved figure of 2002-03 to take care of incremental expenses and factor in inflation.
- 6.18.3.6The Commission approves an amount of Rs.4.73 crore for the year FY 2003-2004 towards A&G expenses.

6.19 Interest on Loan

6.19.1 WESCO, in its proposal, estimates an amount of Rs.60.64 crore towards interest on loan. Sources of borrowing, interest rate, amount of interest as proposed by GRIDCO are given below:

Table: 24
Details of Interest Costs

Sl. No.	Source	Average Rate per annum (%)	Amount (Rs. in Crores)
1	GRIDCO (Subsidiary loan agreement)	13.837 %	16.78
2	World Bank	30% grant + 70% loan @ 13% effective rate is 9.1% p/a	15.54
3	Power Bond	12.5%	12.88
4	APDRP	12% on 50% of the project cost	0.29
5	Interest on Working Capital (DPS)	24%	15.15
	Total		60.64

6.19.2 Regarding loan from GRIDCO (Back to Back loan), WESCO has estimated a balance of Rs.129.01 crore as on 31.03.04 as against GRIDCO's estimate of Rs.126.70 crore. A comparative statement of loan as per GRIDCO and WESCO is given below:

Table: 25
Loan Balance Statement

	As per GRIDCO	As per WESCO
As on 01.04.1999	133.31	133.31
Received during 1999-2000	12.92	14.76
Less repayment during FY 1999-2000	NIL	NIL
Receipt during FY 2000-2001	0.43	0.89
Less repayment during FY 2000-2001	19.96	19.96
Balance as on 31.03.2001	126.70	129.01

- 6.19.3 No loan has been transferred from GRIDCO to WESCO after 31 March 2001. Though the balance of loan as on 31 March 1999 in the books of GRIDCO has been reconciled with that of WESCO, the loan balance as on 31 March 2004 of the respective licensee's books do not tally. The Commission, in its order dated 19.04.2002, had directed the licensees to reconcile back to back loan with GRIDCO and find out the reasons of discrepancy. The licensee has not reconciled the figure yet. As such, the Commission accepts the figure of loan submitted by GRIDCO for the purpose of calculation of interest on back-to-back loan.
- 6.19.4 The licensee has calculated interest on loan from GRIDCO @ 13.837% instead of 8.5% which is in accordance with the existing contractual agreements. In their clarification filed with the Commission, the licensee has stated that as the required modifications to the concerned agreements arising out of the decision of the Govt. of Orissa communicated vide letter No.10211 dt.23.07.2002 are pending, calculation of interest on the World Bank loan and NTPC bond during FY 2003-2004 has been made as per the existing contractual agreements.

- 6.19.5 The Commission is of the view that the decision of the State Govt. has been notified vide No.1068/E dated 29.01.2003 and all parties involved are under obligation to carry out such decision. The bilateral agreements made by the licensee with GRIDCO should be modified from retrospective effect in confirmation with the decision taken by the Govt.
- 6.19.6 Accordingly, the Commission calculates the interest at 8.5% and allows Rs.10.77 crore towards interest for the year FY 2003-04.

6.19.7 World Bank Loan:

- 6.19.7.1Interest on the World Bank loan has been calculated by the licensee @ 13% without considering 30% of the loan as a grant with a plea that no direction to this effect has yet been received from the Govt.
- 6.19.7.2The above proposal of WESCO is rejected by Commission as Govt. of Orissa in Notification No.1068 dated 29.01.03 has clearly stated that World Bank loan shall be passed on by State Govt. to GRIDCO and DISTCOs as 70% loan @ 13% interest per annum and balance 30% would be as grant.
- 6.19.7.3Accordingly, the Commission approves an amount of Rs.11.36 crore towards interest on World Bank loan for FY 2003-2004 at an interest rate of 13% per annum, treating 70% as loan and the balance 30% as grant. After capitalisation of Rs.3.32 crore, interest chargeable to revenue shall be Rs.8.04 crore in respect of World Bank loan.

6.19.8 **NTPC Bond:**

- 6.19.8.1WESCO have issued bonds worth Rs.103 crore in favour of GRIDCO for reassignment to NTPC w.e.f. 1 October 2000 @ 12.5% per annum. WESCO has stated that no reduction in the interest rate as suggested by the Commission has been considered due to non-receipt of any instruction to this effect.
- 6.19.8.2The Commission examined the proposal & considered it prudent to calculate interest at 8.5% (Tax-free) in accordance with the recommendations of the Ahluwalia Committee for restructuring of the dues of the Central Power Sector Undertakings (CPSUs). Accordingly, the Commission approves an amount of Rs.8.76 crore towards interest on power bonds of Rs.103 crore.

6.19.9 **APDRP Assistance:**

- 6.19.9.1WESCO has proposed to receive an amount of Rs.4.91 crore under the APDP scheme and Rs.20 crore under APDRP scheme during FY 2003-2004. As per the terms and conditions of the scheme, 50% of the amount sanctioned is treated as grant and the licensee needs to service the balance 50% at 12% rate of interest per annum. The interest liability of the loans taken under APDRP scheme after capitalisation, shall be Rs.0.29 crore as estimated by the licensee for FY 2003-04.
- 6.19.9.2The Commission accepts the proposal and approves an amount of Rs.0.29 crore towards interest for FY 2003-04.

6.19.10 Interest Capitalised

- 6.19.10.1 WESCO has proposed Rs.5.42 crore for capitalisation in respect of interest during construction. In para 7.2.8 of the application, the licensee has stated that the interest on loan outstanding at the beginning of the year has been charged to profit and loss account and only the interest on loans taken for capital works during the financial year has been capitalised.
- 6.19.10.2 The Commission has reassessed the interest to be capitalised as Rs.3.92 crore for the FY 2003-04.

6.19.11 Interest on Working Capital as proposed by the licensee

- 6.19.11.1 WESCO, in their revenue requirement for FY 2003-04 has claimed an amount of Rs.15.15 crore towards interest on working capital. The licensee has justified its claim on the ground that they have not been able to pay full amount of BST during 2001-2002 due to non-availability of working capital loan from their bankers. As per BST, DPS @2% per month is to be charged on the outstanding amount of the power purchase bill, which has been estimated at Rs.15.15 crore for FY2002-03 payable to GRIDCO.
- 6.19.11.2 The Commission does not accept the proposal of the licensee with regard to interest on working capital. Presently, WESCO is paying 100% of BST Bill and hence, there is no question of levy of delayed payment surcharge by GRIDCO. So far arrears of BST bills pertaining to FY 2001-2002 are concerned, the licensee can easily make the arrear payments by liquidating its huge arrear of Rs.485.34 crore as on 31.03.2002 lying uncollected with consumers. Moreover, the licensee has been collecting security deposit to the extent of two months energy charges on the basis of contract demand and the balance as on 31.03.2002 which was Rs.72.20 crore have gone up to Rs.90.73 and Rs.93.73 as on 31.03.2003 and 31.03.2004 respectively. thus adding an amount of about Rs.20 crore in a span of 2 years. The aforesaid amount is an interest free fund available with WESCO, which can be utilised for meeting working capital requirements. However, as discussed in para 6.10.3 above the Commission shall allow the servicing of any working capital finance, raised to meet the revenue shortfall upto 10% as recognised by the Commission.
- 6.19.11.3 Thus, the interest on loan approved by Commission is given as under:

Table: 26
Interest on Loans and Bonds

(Rs. in Crore)

Loan	WESCO's Proposal for FY 2003-2004	Commission Approval for FY 2003-2004
GRIDCO	16.78	10.77
World Bank (after capitalisation)	15.54	8.04
Power Bond	12.88	8.76
APDP/APDRP (after capitalisation)	0.29	0.29
Total	45.49	27.86

6.20 **Depreciation**

- 6.20.1 WESCO has proposed an amount of Rs.30.67 crore towards depreciation. The method adopted for calculating depreciation is Straight Line Method (SLM) and depreciation has been calculated in accordance with Govt. of India, Ministry of Power Notification No. SO-265 (E) dated 27.03.1994.
- 6.20.2 The Commission examined the submission made by WESCO and the audited report for the year FY 1999-2000 and FY 2000-2001. Statutory Auditors, in their report, commented that the company has not maintained records showing full particulars including individual break-up of fixed assets, quantitative details and Opening Balance. The Company has not carried out physical verification of fixed assets during that period. Formalities for legal transfer of ownership of freehold and leasehold land and sites are yet to be completed. Replying to a query raised by the Commission, WESCO has stated that steps have been initiated to assess the item-wise and location-wise details of all the fixed assets of the company so as to prepare the Fixed Assets Register for the assets acquired from GRIDCO and also for additions thereto. Independent firms have been engaged to take up physical verification and preparation of Fixed Assets Register of all the Accounting Units of the company. However, pending finalisation of method of valuation of the opening balance of individual fixed assets transferred by GRIDCO, the preparation of fixed assets register has been delayed.
- 6.20.3 The Commission took note of the observations noted in the audit report for the year FY 1999-2000 & FY 2000-2001. In the last tariff order dated 19.4.2002, the Commission categorically directed WESCO to comply with the observations raised by statutory auditors before 31.08.2002. But WESCO did not submit any report to the Commission. Once again, the Commission directs WESCO to comply with the observations raised by statutory auditors by 31.08.2003 without fail. Further, non-compliance on the part of the WESCO will be seriously viewed by the Commission.
- 6.20.4 The depreciation was being calculated at post-94 rate as prescribed by Govt. of India on asset base that was revalued on 01.4.96. The Commission, in order to neutralize the impact of revalued cost on the tariff, had directed in the tariff order dtd.19.4.2002 to calculate depreciation at pre-92 rate which is substantially low as compared to post-94 rate linked to the life of the assets. The intention was to balance the interest of the consumers as well as the licensees. This would avoid front loading of the tariff but at the same time would ensure necessary cash flow for the licensee for loan repayment and funds for asset replacement.
- 6.20.5 The Hon'ble High Court while deciding Misc. Case No. 7410 and 8953 of 2002 directed the Commission to make necessary calculation as per the Govt. Notification and depreciation shall be calculated on the pre-upvalued cost of assets as on 1.04 1996 at pre-92 rate.
- 6.20.6 The assets of OSEB taken over by the Govt. of Orissa were revalued and vested with OHPC and GRIDCO vide SRO No.256/96 and SRO No.257/96 dtd.01.4.96, respectively. The assets have been vested with the aforesaid PSUs at upvalued cost to which subsequent additions of assets have been made at actual cost basis. The Original cost of the assets before upvaluation as per Staff Appraisal Report(SAR) prepared by the World Bank dtd.19.04.96 and value of the asset transferred to OHPC and GRIDCO as per Transfer Notification No.5210 dtd.01.04.1996 are presented in the table below:

Table: 27

Rs. In crore

	Gross Fixed Asset	Add : Interest and expenses capitalised	Less : Accumulated depreciation	Net fixed asset	Asset Value as per Transfer Notification
OSEB assets transferred	1375.80	105.30	444.90	1036.30	
GRIDCO	1103.20	97.50	363.00	837.80	1957.80
OHPC	272.60	7.80	81.90	198.50	
Add GoO to OHPC	199.4	0	41.30	158.10	
Total OHPC Asset	472.00	7.80	123.20	356.60	1196.80

6.20.7 The Balance Sheet of OSEB for the Financial Year 1995-96 has been prepared subsequently which shows different values of assets pertaining to Generation, Transmission and Distribution Business as compared to SAR.

Table: 28
Asset Position as per Balance Sheet of OSEB for the Year 1995-96
(As reported by GRIDCO/OHPC)

	Gross Fixed Assets	Net Fixed Assets
Generation(OHPC)	314.00	226.87
Transmission(GRIDCO)	546.66	416.24
Distribution(DISTCOs)	625.90	379.74
Total	1486.56	1022.85

- 6.20.8 The Transfer Notification has been made on the basis of the SAR and the value of the assets of OHPC and GRIDCO has not been changed subsequently in accordance with the audited accounts for the year 1995-96. Further, as per the provision of the Section 25(1) and (2) of the OER Act, 1995 GRIDCO and OHPC had the option to alter, vary, modify, add or otherwise change the terms in such a manner as the State Govt. consider appropriate within a period of one year from the date of notification. Since neither GRIDCO nor OHPC has exercised their option, the Commission considers it proper to accept the value of the assets mentioned in SAR for the purpose of calculation of depreciation.
- 6.20.9 GRIDCO, again divested its distribution business to four DISTCOs on 26.11.98 and transferred Distribution Assets to them on aforesaid date. The crux of the problem is that OSEB and GRIDCO did not maintain the assets registers for segregating assets created on or before 01.4.1996 i.e. before upvaluation and assets created thereafter. In the absence of asset registers, it is very difficult to ascertain the share of the Transmission and Distribution assets pertaining to GRIDCO and DISTCOs respectively, which have been acquired prior to 01.4.96 and their corresponding pre-

upvaluation cost to be considered for the purpose of depreciation calculation as per the directive of the Hon'ble High Court.

6.21 Assumption adopted to comply with the orders of the Hon'ble High Court

- 6.21.1 SAR also does not contain any statement of desegregation of assets between Transmission and Distribution Businesses, though figures of pre-upvalued cost of the assets allocated to GRIDCO as a whole including both Transmission and Distribution are available. Under these circumstances, pre-upvalued cost of the assets allocated to GRIDCO as per SAR can be bifurcated between Transmission and Distribution Business on the basis of the proportion of the assets as reported in the Balance Sheet of OSEB on 31.03.1996. Similarly, in the absence of proper asset register, the Commission decided to apportion the Distribution Assets between DISTCOs on the basis of their proportion of assets as notified in the Transfer Scheme Notification dtd.26.11.98. The distribution and transmission assets, as reported in the balance sheet of OSEB as on 31.3.96 can be a reference for the purpose of segregating the assets of GRIDCO as reported by SAR.
- 6.21.2 Apportionment of pre-upvalued cost of the Assets transferred to GRIDCO on 01.04.1996, between Transmission and Distribution Business are as below:

Table: 29

	Gross Fixed Assets As per Balance Sheet (in Crore)	Pre-Upvalued Cost of the Gross Fixed Assets as per SAR bifurcated (in Crore)
GRIDCO	546.66	514.32
DISTCOs	625.90	588.88
Total	1172.56	1103.20

6.21.3 Apportionment of pre-upvalued cost of the Assets transferred to Distribution Business as on 01-04-96, between DISTCOs is as under:

Table: 30

DISTCOs	Gross Fixed Assets transfer to DISTCOs as per Transfer Notification	Amount of Gross Fixed Assets apportioned
WESCO	267.16	139.88
NESCO	263.39	137.89
SOUTHCO	233.82	122.42
CESCO	360.43	188.68
TOTAL	1124.80	588.88

6.21.4 Accordingly, transmission and distribution assets as on 01.4.96 before upvaluation have been apportioned amongst GRIDCO and DISTCOs and depreciation has been calculated on the pre-upvalued cost of assets at pre-92 rate as per the order of the Hon'ble High Court. The total depreciation chargeable to Annual Revenue Requirement of GRIDCO and DISTCOs is as follows:-

Table: 31
Depreciation for the Year 2003-04

	Depreciation for the Year 2005-04						
Name of the	Gross	Average rate	Depreciati	Asset	Average rate	Depreciation	Total deprec-
company	Fixed	of	on as on	added	of	on asset	iation for the
	Asset as on	Depreciation	01.04.199	from	Depreciation	added after	year 2003-04
	1.4.96	(pre-92)	6	1996-1997	(pre-92)	01.04.1996	
		(%)		to 2003	(%)		
GRIDCO	514.32	3.13	16.10	637.36	3.13	19.95	36.05
WESCO	139.87	3.76	5.26	172.86	3.76	6.50	11.76
NESCO	137.89	3.76	5.18	187.93	3.76	7.07	12.25
SOUTHCO	122.41	3.76	4.60	180.99	3.76	6.81	11.41
CESCO	188.70	3.76	7.10	258.00	3.76	9.70	16.80
TOTAL DISTCOs	588.88		22.14	799.78		30.07	52.21
GRAND TOTAL	1103.20		38.24	1437.14		50.02	88.26

6.21.5 The weighted average rates of depreciation based on pre-92 rates and asset base of the 2002-03 as approved by the Commission have been adopted to find out Depreciation Expenses of GRIDCO and DISTCOs for the year 2002-03.

6.22 Bad & Doubtful Debts

- 6.22.1 WESCO has estimated an amount of Rs. 22.33 cores towards provisioning for bad and doubtful debts for the FY 2003-2004, assuming 3% of the entire billing amount. In Form F-25, they have submitted the age-wise analysis of debt up to 30.09.2002.
- 6.22.2 The Commission analysed the proposal submitted by WESCO. It is a matter of great concern that the sundry debtors have mounted up to Rs.485.34 crore at the end of 31.03.2002 and is estimated to go up to Rs.576.55 crore at the end of 31.03.2003. The Commission is of the view that had this amount been collected in time, the licensee would not have faced any cash crunch during previous years. The Commission directs the licensee to carry out detailed age-wise analysis of the accumulated arrears in order to identify the collectible and uncollectable arrears to begin with it should first segregate arrears before and after 01.04.1999. The licensee should take the necessary steps to write off these uncollectible receivables and to make all possible efforts to collect the remaining arrears. The Commission also directs the licensee to appoint separate agencies, if necessary, to carry out division wise audit to ascertain collectible and uncollectible arrears.

6.22.3 However, considering the reality of situation as approved in last tariff orders, the Commission allows a provision of 2.5% of gross sales towards bad and doubtful debt. Accordingly, it approves an amount of Rs. 17.96 crore for the FY 2003-2004.

6.23 Past Losses

- 6.23.1 WESCO has proposed an amount of Rs.70.86 crore for the FY 2003-2004 under special appropriation to recover the losses incurred during the FY 1999-2000, which forms a part of its revenue requirement.
- 6.23.2 The Commission opines that only those losses, which have been incurred due to the reasons beyond the control of the licensee, the Commission will consider the loss to be passed on to consumers through tariff. WESCO has not given any detailed break up & justification of incurring this loss of Rs.70.86 crore. Hence, the Commission does not consider previous losses claimed under special appropriation at this stage.

6.24 Contribution of Contingency Reserve

6.24.1 WESCO has proposed an amount of Rs.1.48 crore towards contributions to Contingency Reserves, calculated at 0.375% on opening gross block for FY 2003-2004. The Commission approves the same.

6.25 Capital Base

6.25.1 The purpose for calculation of capital base is to ascertain the amount of Revenue Requirement and clear profit admissible to the licensee in accordance with the provision of Sixth Schedule of Electricity (Supply) Act, 1948. WESCO has proposed an amount of Rs.1.51 crore towards reasonable return. However, the Commission in its order dated 18.06.2003 in regards to setting guiding principles for determination of Annual Revenue Requirement of Distribution Licensees in the State on a long-term basis, decided to depart from Schedule VI to the Electricity (Supply) Act, 1948 and allow 16% return on the equity instead of return on a capital base. Hence, calculation of capital base becomes infructuous as return is allowed on equity base. The equity capital of WESCO as on 31st March, 2004 as proposed in the format F-37 is Rs.48.65 crore. By applying 16% rate of return on equity capital, the reasonable return works out to Rs.7.78 crore. Thus, the Commission approves an amount of Rs.7.78 crore towards reasonable return on equity for the purpose of calculation of revenue requirement.

6.26 Miscellaneous Receipts

6.26.1 WESCO in form F-13 has estimated Rs.6.40 crore towards miscellaneous receipt for the FY 2003-2004. The Commission approves the same.

6.27 Revenue Requirement

6.27.1 In the light of the above, the Commission approves an expenditure of Rs.639.49 crore for FY 2003-04 for the purpose of revenue requirement as against projection of Rs.676.88 crore. The Commission approves a special appropriation of Rs.1.48 crore towards contribution to Contingency Reserves. The reasonable return is approved at Rs.7.78 crore. The calculation of expenditure for revenue requirement and clear profit as approved has been reflected in Annex A and B respectively.

6.28 TARIFF ISSUES

- 6.28.1 In addition to the above, the Commission addresses the various issues raised during the course of public hearing on other commercial matters which are dealt hereafter.
- 6.28.2 The Commission does not find it necessary to specifically comment on each one of the objections. The objections with regard to financial aspects and with regard to tariff design as well as various suggestions on these aspects shall be highlighted in the later part of the order. However, we may record our observations on a few issues which do not fit into the module of either revenue requirement or tariff.
- 6.28.3 In course of the hearing, consumers of different categories have highlighted the impact of tariff with reference to financial viability, commercial consideration and capacity to pay. While we have taken into account the overall interest of the consumers, we have also given equal consideration to the financial viability of the Licensee as per mandate of the OER Act and the necessity of the State's support for fostering a healthy electricity industry. Ability to pay, lack of funds or competitiveness of any particular industry cannot be the guiding factor in designing tariff. A balance has to be struck out to take care of conflicting interests. The Commission will take decision keeping in view the provisions of Section 26 (2) and (5) of the Reform Act, 1995.
- 6.28.4 The Reform Act, 1995 envisages a tariff structure that would bring about efficiency and economy in the supply and consumption of electricity. This Act envisages cost reflective tariff, ensurance of efficiency and elimination of inter-class and intra-class subsidies.
- 6.28.5 The Commission is also aware of its role in balancing the conflicting interests of various stakeholders, bringing about efficiency and economy in the use of electricity and designing a tariff structure that should be just, fair and reasonable. Whereas the low voltage consumers expect a tariff that is affordable, the high and extra high voltage consumers pleaded for a tariff that should reduce their burden of cross-subsidy. While taking note of these factors, we have to see that the licensee recovers the cost prudently incurred and to continue to provide expected service.
- 6.28.6 Many objectors had alleged that there should be no revision in tariff since licensees have not achieved desired improvements and had not been able to reduce the T&D loss substantially. We ourselves have been very much concerned with the performance of the licensees and have been suo moto monitoring in various ways like bimonthly review of performance of licensees.
- 6.28.7 Another recurring objection against tariff increase has been the constraint of affordability. The domestic consumers have urged not to be encumbered with any increase in tariff as they cannot afford any extra cost. On the other hand, commercial and industrial consumers have pleaded that their products cannot be competitive and therefore their tariff should be reduced rather than increased. Every category of consumers has pleaded that tariff, if at all to be increased, should be passed on to other categories. We cannot fully ignore the affordability factor because safeguarding interest of consumers is one of the main parameters in tariff fixation. But affordability cannot be the prime consideration. Sec. 11(1)(e) of Reform Act envisages that the supply and distribution industry cannot be maintained unless the charges for the electricity supplied are reasonably levied and collected. Licensees of electricity supply and distribution cannot be expected to forego their legitimate dues and charge low rate to any category of consumers or to ensure industrial consumers to be competitive in national and international market.

- 6.28.8 It is the duty of the Commission to scrutinise the claims of licensee with a fine tooth-comb and allow only useful assets for capital base and only properly/prudently incurred expenditure for revenue requirement. But after we do so, revenue requirement finally determined has to be allowed to be raised through tariff. This is the position in Law and has to be appreciated by the consumers of all categories. Keeping the above objective in view, the Commission has gone ahead in deciding the various parameters regarding determination of revenue requirement and tariff of the licensee in an endeavour to strike a balance between the interests of end consumers on one hand and financially viability of licensee on the other.
- 6.28.9 The Commission after analysis and scrutiny of WESCO's proposal has to give its considered findings with regard to reasonableness of various items of expenditure in accordance with the Sixth Schedule as well as other parameters stipulated in Section 26 of the Reform Act, 1995.

6.29 **Multi-year Tariff**

- 6.29.1 The Commission in its tariff order dtd.19.04.2002 stated that the Commission is conscious of the need for greater certainty in the regulatory treatment of a host of issues having direct impact on tariff setting. It shall be our endeavour to set in motion a multi-year tariff regime effective from April, 2003 for FY 2003-04 after wide publicity and valued consultation with all the stakeholders.
- 6.29.2 The utilities have to improve upon their own performance within a stipulated time frame by upgrading their managerial skills and efficiency by scrupulously adhering to certain operational norms like reduction in the level of loss, attaining certain level of billing and collection efficiency, setting a target for investment and avoiding time and cost overruns in execution of projects, etc. This calls for fixing a target to be achieved over a "Control period" than a target confining to a single year to provide a kind of predictability to the consumers, their own shareholders and to the Regulatory Commission.

6.30 Implementation of a Long Term Tariff Framework

- 6.30.1 The Commission, in its Tariff Order dated 19 April 2002, had stated that it was conscious of the need for greater certainty in the regulatory environment and in the treatment of a number of critical issues which have a direct impact on the tariff setting process and also on the performance of the licensee. The Commission in the Order dated 19 April 2002 also had stated that it would be its endeavour to set in motion a multi-year tariff regime effective from 1 April 2003, after detailed a consultative process with all the stakeholders of the sector.
- 6.30.2 Accordingly the implementation of LTTS has been brought out through the Commission's order dt 18. 06. 2003 in Case No. 8/2003 .separately.

6.31 **Performance Targets**

6.31.1 For the first control period, the Performance Targets shall relate to the system losses and the collection efficiency for different consumer categories, along with the AT&C Losses. The licensee will be expected to perform and improve its efficiency as per the overall AT&C targets fixed by the Commission here in. The targets for the first Control Period for the four Distribution Licensees is given in the Table below:

Table No. : 32
Aggregate Technical and Commercial Loss Targets for the first Control Period

	FY 2003-'04	FY 2004-'05	FY 2005-'06	FY 2006-'07
WESCO				
Distribution Losses (%)	31.08%	26.08%	21.08%	18.87%
Collection Efficiency (%)	90.00%	92.50%	95.00%	97.50%
AT&C Losses (%)	37.97%	31.62%	25.03%	20.90%
NESCO				
Distribution Losses (%)	36.98%	31.98%	26.98%	24.77%
Collection Efficiency (%)	90.00%	92.50%	95.00%	97.50%
AT&C Losses (%)	43.28%	37.08%	30.63%	26.65%
SOUTHCO				
Distribution Losses (%)	30.89%	25.89%	20.89%	18.68%
Collection Efficiency (%)	90.00%	92.50%	95.00%	97.50%
AT&C Losses (%)	37.80%	31.45%	24.85%	20.71%
CESCO				
Distribution Losses (%)	30.94%	25.94%	20.94%	18.73%
Collection Efficiency (%)	90.00%	92.50%	95.00%	97.50%
AT&C Losses (%)	37.85%	31.49%	24.89%	20.76%

- 6.31.2 The Performance Targets shall also include the Quality of Supply and Customer Service standards. In addition, the Performance Targets shall cover the various elements of network costs.
- 6.31.3 Uniform Retail Tariff: Most of the objectors advocated in favour of uniform retail tariff throughout the state. Historically, uniform tariffs have been adopted in Orissa, and indeed in many states of India, in spite of significant cost differences to serve different geographical areas. The Commission feels that although the geographically cost-based tariff are more efficient, to avoid immediate tariff shock to the consumers, it would be desirable to give some more time to shift away from geographically uniform retail tariff. Accordingly for the year 2003-04, the Commission decides to adopt uniform Retail Tariff for the entire State.
- 6.31.4 Cross Subsidy: Some objectors suggested reduction in cost of subsidies. The tariff structure inherited by the Commission was undoubtedly a distorted one. In the past years, the Commission has attempted rationalisation of tariff structure with a view to effect progressive increase in tariff for those category of consumers who are paying less than the average cost of the supply. Some of the objectors cited the recent example of WBERC tariff order for the year 2002-03 in which they have introduced cost based tariff for all categories of consumers in terms of Hon'ble Supreme Court order passed in Civil Appeal No. 4037 of 2002. The Commission is of the opinion that introduction of cost based tariff will give a severe tariff shock to the consumers of subsidised categories in Orissa and also were lead to widespread resentment and unrest among the consumers. Thus, the Commission will adopt uniform tariff to all categories of consumers gradually, thereby eliminating cost of cross-subsidy all together in future.

6.32 Industrial policy framed by Government of Orissa

6.32.1 The issue raised by the Orissa Small Scale Industries Association was that the proposed amendment in tariff by the licensee is directly against the Industrial Policy Resolution (IPR) of Government of Orissa and against the interest of the small and medium scale industries. It further submitted that the Govt. is in the quest of setting up of industries for which it has been providing various concessions to the small and medium scale industries for their very survival and sustenance. It is clarified that Industrial policy differentiating categories and conferring benefits, change from time to time on various considerations. Electricity charges are to be non-discriminatory from economic point of view and it is neither desirable nor possible to synchronise the pricing in keeping with changes from industrial and financial angle. However, if the State Government desires to extend any benefit to a class or group of consumers, they can do so under Section 12(3) of OER Act, 1995 by providing subsidy.

6.33 Charging of Security Deposit by licensee

- 6.33.1 Some of the objectors pleaded that the licensee may be directed by the Commission not to ask for Security Deposits from the consumers on account of enhancement of tariff. The objection raised is not valid one, since as per the OERC regulation the security deposit payable is limited to 2 months electricity charges. Licensee may ask for additional security deposit only when security deposit already paid falls short of two months electricity charges.
- 6.33.2 Further, the security deposit amount is an interest free fund available to the licensee, which can be utilised for meeting working capital requirements and the licensee is allowed return on working capital as per the provisions of the Schedule-VI while calculating the reasonable return on capital base.

6.34 Demand charges during statutory power cut

- 6.34.1 Some of the objectors showed concern on the increasing number of outages on the higher voltages and requested the Commission to set into the tariff schedule penalties for load shedding, excursions in voltage and frequency of supply, power failures and statutory power cut.
- 6.34.2 It is clarified that the issues of outages, voltage & frequency excursions and other deficiencies in service have to be dealt in accordance with complaint handling process and OERC Condition of Supply Code as approved by the Commission for the time being, since utilities have not developed requisite MIS yet to handle these elements.

6.35 Quality of Supply & Service

6.35.1 Interruption, low voltage and unreliable supply are a matter of serious concern to the Commission. The Commission has been taking appropriate steps to verify the data furnished by the licensee through affidavits in this regard to the Commission. Further, the Commission has been monitoring the performance parameters for meeting the supply standards as prescribed by it.

6.36 Unauthorised and Illegal abstraction of electricity

6.36.1 The issue of unauthorised abstraction of electricity is one of the principal causes of high commercial losses in the licensee's system which is being monitored every month at the Directors' Level Meeting. The licensees must take the help of law and

order authorities. The Commission is committed to allow any additional expenditure on account of curbing the theft and unauthorised abstraction of electricity.

7 DETERMINATION OF TARIFF

7.1 No changes in the existing tariff structure both in terms of rates and stipulations have been envisaged by the Commission in the tariff order 2003-04 except the followings, mentioned in the paragraphs 7.2 to 7.19. The rates applicable to the various categories of consumer have been detailed in the Annex – C.

7.2 Kutir Jyoti Consumers

7.2.1 Some objectors protested that a significant number of consumers masquerading themselves as Kutir Jyoti consumers have got service connection with load far in excess of the single point supply for lighting envisaged under Kutir Jyoti programme. They also submitted that the State Govt. should extend subsidy to compensate for the loss sustained by the distribution company on account of supply of power at a rate cheaper than the average cost of supply to this category of consumers. As no subsidy has been made available by the State Govt. despite protracted correspondence with Govt., the Commission, therefore, directs that all Kutir Jyoti consumers should be invariably metered. The tariff applicable in this case will be upto consumption of 30 units per month, the entire consumption will be charged at the prevailing domestic tariff.

7.2.2 Load factor billing

- 7.2.3 Some objectors took serious exception to the bills being continued for months together on load factor basis in case of defective meters. Thus, the authenticity of the past bills in such cases could hardly be vouchsafed. It is, however, the statutory obligation on the part of the licensee to replace meters. As stated in the previous orders, load factor billing has been prescribed for a limited purpose/period, as and when the meter remains defective/or the consumer goes without meter to serve as a means to have the meter installed by consumers. WESCO in its tariff application has stated that it proposes to install approximately 11akh meters by 31st March 2004. Further, WESCO in its Business Plan and queries relating to tariff for 2003-04 submitted to the Commission had committed to complete all feeder metering by end of October, 2003, metering in LV side of Transformers by 31.03.2004 and consumer end metering by June, 2004. In view of the aggressive metering activities undertaken by WESCO, the Commission considers that billing on the basis of load factor will be dispensed with from 1st April 2004. Many objectors pleaded that billing based on load factor should not be allowed. The Commission is also wary of load factor billing to consumers for months together. It is licensee's obligation to ensure that each consumer gets supply only though correct meters. Load factor billing was allowed under para 60 of OERC Distribution (Conduct of Supply) Code, 1998 for a limited purpose/time but the licensee has systematically abused the regulation on some pretext or other.
- 7.2.4 The Commission, therefore, directs that the load factor billing should continue as per the provision in the existing tariff for the year 2003-04 and be withdrawn from 1st April, 2004, subject to amendment of the OERC Distribution (Condition of Supply) Code, 1998, to that extent. All billing will be based on actual meter reading showing actual consumption of consumers. In case of defective meters the provisions of Indian Electricity Act, 1910, Section 26 and Regulation 58, 59, and 60 of OERC Distribution (Condition of Supply) Code, 1998 will apply.

Further, the licensee is directed to complete 100% consumer metering by 31st March, 2004 and feeder metering by 31st October, 2003.

7.3 Incentive for maintaining high power factor

- 7.3.1 For the first time, the Commission in its tariff order dt.30.12.99 introduced an incentive to encourage improvement in power factor above 90%. Subsequently, the limit was raised to 97% in the RST order dt.19.01.2001. WESCO has estimated that the rebate on this account to HT/EHT consumers will be of the order of Rs.1.22 crore and Rs.1.32 crore during the FY 2003-04 with the existing and proposed tariff respectively.
- 7.3.2 Some of the objectors pleaded for restoring incentive for improvement in power factor from 90% and above and penalty at the same rate for low power factor.
- 7.3.3 Some objectors opined that for the health of electrical machinery, it is risky to maintain power factor between 97% because there is every chance of spurt in voltage when all on a sudden some load gets thrown off from the circuit.
- 7.3.4 It should be kept in view that the industries for better protection of their installation should follow prudent operational practice installing protective devices, so as to isolate the equipment during abnormal transient condition arising out of sudden load throw off or tripping of feeders.
- 7.3.5 Further, the KVA demand of the industry decreases as the power factor (PF) improves, thereby benefiting the consumer on account on demand charge.
- 7.3.6 Similar provision of power factor incentive/rebate has been recommended by other State Regulatory Commissions such as Gujurat Electricity Regulatory Commission, U.P. Electricity Regulatory Commission, Maharashtra Electricity Regulatory Commission where incentive is allowed for maintaining PF above 95%. Hence, the Commission does not consider it necessary to make change in the existing provision with regard to power factor incentive and penalty.

7.4 Incentive for prompt payment

- 7.4.1 Some of the objectors pointed out that 48 hours of rebate period is very short and consumers may not be able to avail the rebate due to paucity of time. They suggested that the rebate period should be extended to 15 days. WESCO in its RST application for the year 2003-04 has estimated that the rebate on account of prompt payment within 48 hours of presentation of bill during the FY 2003-04 will be order of Rs.1.87 crore & Rs.2.02 crore with the existing and proposed tariff respectively. Hence, it is expected that to avail such heavy amount of rebate, consumers should put in extra efforts and make payment of bills in time.
- 7.4.2 As per earlier order of the Commission, certain categories of consumers are entitled to a rebate of 1% of the amount of the monthly bill (excluding arrears and electricity duty) if payment is made within 48 hours of the presentation of the bill. Considering the difficulties of the consumers, the Commission feels that three days time for availing rebate is reasonable and allows that the consumers are entitled to get rebate of 1% if the bills are paid within 3 days from the date of presentation of the bill. The Commission decides that as a measure of incentive for prompt payment there will be a rebate @1% for payments made within 3 days from the date of presentation of the bill. This incentive will be applicable to all the categories of consumers excepting Domestic, Commercial, Irrigation and Small Industry, for whom, a rebate of 10 paise/unit shall be allowed on energy charges if the

payment of the bill (excluding arrears and electricity duty) is made by the due date indicated on the bill or within a period of 7 (seven) days from the date of receiving the bill

7.4.3 Shri R.C. Padhi suggested that a DPS may also be levied on domestic and commercial consumer. The Commission appreciates the suggestion and orders that a DPS of 2% will also be levied on domestic, commercial, irrigation and small industries categories of consumer if payment is not made within the due date.

7.5 Industrial Colony Consumption

7.5.1 The Commission in its tariff order dated 19.01.2001 directed that the units consumed for the industrial colony should be separately metered and the total consumption should be deducted from the main meter reading and billed for supply at HT and EHT. The energy consumed in industrial colony in excess of 10% of the total consumption shall be billed at the rate of Energy Charge applicable to the appropriate class of industry. Some objectors like MCL pleaded that the consumer whose load factor is less than 50% would only enjoy the benefit and the consumer whose load factor is more than 50% would lose heavily. As such, the consumer would have been benefited more under the incentive scheme for higher consumption had there been no separate tariff for colony consumption. Since the purpose of incentive scheme is to encourage for higher consumption by the EHT & HT consumers, the Commission after reviewing the scheme directs that for the purpose of determining the incentive amount, the energy consumed in Industrial colony limiting to maximum of 10% should be included in the first slab of 50% and billed for supply at HT and EHT. The energy consumed in industrial colony in excess of 10% of the total consumption shall be billed at the rate of Energy Charge applicable to the appropriate class of industry...

7.6 **Railway Traction Tariff**

- 7.6.1 The question of providing a reasonable tariff for Railway Traction raised by the S.E. Railway was also considered by OERC. The Commission would like to clarify that the railway traction tariff in Orissa is at par with that of HT or EHT consumers depending upon the voltage of supply as the tariff structure has been totally linked to the voltage of supply. Railway traction tariff is lower in Orissa. Therefore, railways should have no grouse on this account.
- 7.6.2 The railways had also raised the issue of a single part tariff which is today applicable only to very large industries with a guaranteed off-take to which category the railways does not belong.
- 7.6.3 The South Eastern Railway's further concern about recording and charging of maximum demand for individual supply points as per the existing system turned out to be totally unrealistic as the railways were moving loads for all substations along the track. It may be mentioned that the railway traction supply is from the EHT network of the GRIDCO and the billing is done by the various supply companies to the railways in their area of license. The Commission in its tariff order dated 19.04.2002 opined that the issue should be mutually discussed by the railways with the four distribution companies and their views in the matter may be placed before the Commission for taking a holistic view. In this connection S.E. Railway had discussion with the Distribution Companies but no meaningful agreement emerged out of the discussion. The Commission observes that since separate agreements are executed for individual traction loads, it will not be possible to adopt SMD

for billing on the basis of simultaneous maximum demand recorded in contiguous substations.

- 7.6.4 The railways also pleaded that the integration period of 30 minutes for measurement of maximum demand in respect of railway traction has been changed to 15 minutes. The railways requested that the OERC should consider restoration of integration period 30 minutes as per the earlier method which is also in conformity with the clause No.2(8) of Electricity Supply Act, 1948.
- 7.6.5 The Commission deliberated on this issue and observed that 30 minutes integration period for all categories has been provided in the Regulation of ASEB, Ahmedabad Electricity Company, MPSEB, HSEB, DVP, Gujurat, Maharashtra, Tamil Nadu. Fifteen minute integration period has been provided by UPERC, APERC for loads more than 4000 KVA, and for railway traction by WBSEB. Some SEBs have introduced one hour integration period.
- 7.6.6 Further, with implementation of ABT in Eastern Region with effect from Ist April, 2003 which calls for recording of Maximum Demand with fifteen minutes integration period it will not be possible to change over to integration period of thirty minutes for Railways. The Commission further decides to adopt fifteen minutes integration period in near future for all the categories of industrial consumers. This will require amendment of the supply regulation OERC Distribution (Condition of Supply) Code, 1998 and installation of appropriate metering system in consumers' premises. Till such time, the present arrangement shall continue.

7.7 **Construction Power**

7.7.1 Objection was raised by M/s. Aditya Aluminium that the industries under construction may be classified separately and no demand charge should be levied on construction power. There seems to have no logic behind the objection as the licensee is to arrange/ book, the quantum of power as per the contract demand and pay fixed charge against the said quantum of power which it has to recover from the consumer.

7.8 Penalty for over drawal of power above the contract demand

- 7.8.1 The commission emphasises that with the implementation of ABT in the Eastern Region the problem of Over Drawal has automatically been addressed, as the principal aim of ABT is to enforce grid discipline with an objective for consistence in frequency and efficient use of available energy resources.
- 7.8.2 The special feature of the above commercial mechanism is UI Charge. Under this scheme, any deviation of drawal from the scheduled shall be liable to UI charges Payable/Receivable to the utility concerned. This UI is to be worked out for each 15 minutes blocks period and there shall be 96 Blocks period in each day of operation. The charges for unscheduled drawal shall be based on average frequency of the relevant block period. The UI rate varies with maximum 420 paise/KWH at 49.0HZ and minimum of 0 Paise/KWH at 50.5HZ. The UI Charge at different frequency is linear in the step size of 0.02HZ. During under frequency condition overdrawal beyond schedule will attract disincentive in the form of a higher charge which can go up to 420 p/u at a 49 HZ and incentive for underdrawal will be available during low frequency condition. Vice versa is applicable during high frequency condition. This being the principle during ABT regime, no separate charge needs to be specified for overdrawal or underdrawal. During ABT operation, a DISTCOs overdrawing during under frequency condition will be liable to pay UI charges as per rule. There may be a situation when one DISTCOs is overdrawing and another is underdrawing so that net effect of GRIDCO drawal is nullified. In that case cost recovery of UI charges for

overdrawing DISTCOs will not be appropriated by GRIDCO and will be kept in a separate account. Such cases need to be referred to Commission for direction on appropriation of the funds. The DISTCOs in turn need to bring to the notice of the consumers particularly industrial one of EHT and HT category about the impact of the overdrawal during underfrequency condition and have a back to back arrangement for passing on the extra burden due to UI charges. The meters in the consumer premises should be capable to record the 15 minutes interval load drawal with a memory retention of at least 60 days.

- 7.8.3 ABT is a new concept with three elements of charges. In initial years they might be some problems. The utilities need to remain alert to avoid financial burden arising out of overdrawl during under frequency regime.
- 7.8.4 The UI Charge is payable when the utility does not support the system and receivable when the Utility support the system to maintain the prescribed frequency. In other words the UI Charge payable /receivable depending upon who has deviated from the schedule and also subject to the Grid condition at that point of time. This element, which is expected to bring discipline in the system takes care of the over drawal by licensees.
- 7.8.5 In view of implementation of ABT in Eastern Region, the Commission decides that there would be penalty on overdrawl as stipulated in the para above.

7.9 **Observation on incentive for higher consumption**

- 7.9.1 Some objectors pleaded that load factor as per standard nomenclature should be based on Maximum Demand without having any relation with Contract Demand.
- 7.9.2 The said issue has been clearly dealt in the OERC Retail Supply Tariff order dtd. 19.04.2002 and the reason for adopting the term "consumption ratio" in place of "load factor" and "higher of contract demand or maximum demand" has been explained in the following paragraphs.
- 7.9.3 For the purpose of calculation of incentive energy, instead of load factor the term consumption ratio i.e. the total number of units consumed during a given period to the total number of units that would have been consumed had the contract demand or the maximum demand, whichever is higher was maintained throughout the same period has been used.
- 7.9.4 It may be noted that the incentive tariff for HT/EHT category of consumers was introduced in the OERC RST order dt.30.12.99 where incentive energy was considered above the load factor of 50% of contract demand. Further, as mentioned in the OERC RST order dt.19.01.2001 "Some objectors objected to recording of load factor during FY 1999-00 in excess of 100% in the filing made by the licensee on the ground that it had an element of absurdity. As prescribed in OERC Condition of Supply Regulation, 1998 load factor of a consumer under no circumstances can exceed 100%". Therefore, consumption ratio was adopted in place of load factor for determination of incentive energy.
- 7.9.5 Some objectors pleaded that for the purpose of calculation of incentive slab, energy slab calculation should be considered on Peak hour maximum demand only and not on the off- peak maximum demand As directed by the Commission in its tariff order dtd. 19.04.2002, for the purpose of calculation of maximum demand, there should not be any differentiation between peak and off peak hours. As such, the Commission is not inclined to bring about any charge in the existing provision excepting deletion of the clause "Incentive shall be available to those consumers who

will not reduce their contract demand during the next three financial years".

7.10 Meter Rent

- 7.10.1 Some objectors submitted that meter rent and the cost of metering / lease should be maintained separately from the general revenue and expenses of the licensee. The Commission examined the issue of rent chargeable for the meters supplied by the licensee. Section 26 of the Indian Electricity Act, 1910 reads as follows:
- 7.10.2 "In the absence of an agreement to the contrary, the amount of energy supplied to a consumer or the electricity quantity contains in the supply shall be ascertained by means of correct meters and the licensee shall if required by the consumer cause the consumer to be supplied with such meter.
- 7.10.3 Provided that the licensee may require the consumer to give him security for the price of the meter and enter into an agreement for the hire thereof unless the consumer elect to purchase the meter."
- 7.10.4 Hence, the consumer has to be allowed to exercise first option to purchase an appropriate meter. If the consumer wants to take the meter on hire, the licensee can charge meter rent. The licence is directed to allow the consumer to own the meter by paying its legitimate cost if he/she so desires, in one instalment or can pay meter rent till the landed cost is recovered. In such a case, if the meter becomes defective or lost, the case should be dealt with in accordance with provisions under OERC Condition of Supply Regulation.
- 7.10.5 In regard to calculation of meter rent, the Commission examined the estimates submitted by the licensee. The cost of the Electro-magnetic meters including TP box and installation charges comes to around Rs.1050/-. The life of the meter has been estimated as 10 years with a discount rate of 12% per annum. The amount recoverable on account of Landed Cost of meter including interest will come to Rs.15.00 approximately per month. The Commission is convinced that the meter rent charged by the licensee is reasonable. Any consumer who does not want to pay the meter rent can exercise his/her first option to purchase the appropriate meter.

7.11 Rural Electrification

- 7.11.1 The Commission is aware of the fact that the State Government is planning to take up Rural Electrification work in a massive scale in consonance with the national agenda to achieve 100% Rural Electrification by 2007 and providing electricity to all households by 2012. While extending power facilities to every nook and corner of the State necessary precautionary measures have to be taken to avoid further loss to the power system. In fact, extension of lines would mean additional technical loss apart from commercial loss which can be prevented by taking the following measures as detailed below:-
- 7.11.2 Off grid supply/distributed generation should be encouraged in remote villages situated away from GRID.
- 7.11.3 In case the electrification is done by extending the grid supply then the extension should be on High Voltage Distribution System (HVDS) by extending the HT lines up to the load centre of the village. Then LT distribution can be done by installing small capacity transformers like 10 KVA, 16 KVA, 25 KVA to cater to the needs of the villagers. Service connections can be extended directly from the LV side of the

- transformers to the consumer's premises. If deemed necessary, Aerial Bunched Conductors (ABC) can be used for extending LT supply to distant points which cannot be reached through normal service connection wires.
- 7.11.4 Village Committees may be set up to look after load development, load management, billing and collection in the village.
- 7.11.5 On the LV side of the transformer, a meter is to be installed which will record the total energy supplied by the transformer. The village committee can be billed based on this meter reading on a suitable tariff to be approved by OERC depending on the mix of load in the village.
- 7.11.6 The extension of lines in the village should be done only after firm commitment from the consumers by way of giving advance security deposit/paying for the cost of extension etc.
- 7.11.7 The Commission is of the view that aforesaid precautionary measures will reduce commercial loss substantially. The Commission, therefore, directs DISTCOs to adopt measures mentioned above while taking up rural electrification.
- 7.11.8 The capital investment required for rural electrification will be fully funded by the State Govt. through various schemes such as APDRP, PMGY, MPLAD, MLALAD etc. as 100% capital subsidy to DISTCOs.

7.12 Tariff for Emergency Supply to CPP at HT

- 7.12.1 In the existing Tariff Schedule there is no provision for separate tariff in respect of Emergency Supply to CPP at HT category. NESCO in its tariff proposal has indicated consumption of 2.84 MU against Emergency Supply to CPP at HT and as such, there are some consumers who avail power supply as Emergency Supply to CPP at HT.
- 7.12.2 In view of the above the Commission decides a tariff at a rate of 400 paise/unit as energy charge and Rs. 250 per month as Customer Service Charge for Emergency Supply to CPP at HT.

7.13 Emergency power supply to CPPs/Generating stations

- 7.13.1 Some of the industries having captive power plants requested the Commission to raise the present level of emergency power (25% of the highest unit) to 75% to 100% of the capacity of power plant. The Commission examined their request and in principle, agreed to raise the above level to 100% of the largest unit in the CPP or Generating Stations, subject to amendment of the provisions under OERC Distribution (Condition of Supply) Code, 1998, with the following stipulations.
- 7.13.2 "Such industries owning CPP / Generating Stations have to enter into an agreement with DISTCOs subject to technical feasibility and availability of required quantity of power/energy in the system. For them, a flat rate of 420 paise/kwh at EHT and 440 paise/kwh at HT would apply while for others who draw only 25% of capacity of highest unit would pay @ 380 paise/kwh and 400 paise/kwh at EHT and HT respectively. In case of over drawl beyond 25% of the rated capacity they will have to pay @ 420 paise/kwh and 440 paise/kwh at EHT and HT respectively for the period of over drawl."

7.14 **Re-connection Charge**

7.14.1 The rates of reconnection charge should be as below:-

Single Phase Domestic Consumer - Rs.50/Single Phase other consumer - Rs.100/3 Phase line - Rs.200/HT & EHT line - Rs.100/-

- 7.15 The Commission is aware of the gaps in the overall computation of the realization from tariffs and the consequent Clear Profit computations among the four distribution licensees. The Commission expects to use the plans of the four distribution licensees as well as GRIDCO, to rationalise these differences in its next tariff judgement for FY 2004-'05. In this manner, the Commission hereby deviates from the provisions of the Sixth Schedule of the E S Act, 1948.
- 7.16 Finally, the Commission orders as follows with reference to the prayers of the applicant. The Commission does not approve the Revenue Requirement for the FY 2003-04 and also the Retail Supply Tariff as proposed by WESCO for 2003-04 and rejects the Tariff Revision Proposal.
- 7.17 No changes in the existing tariff structure both in terms of rates and stipulations have been envisaged by the Commission in the tariff order 2003-04 except those mentioned in the paragraphs 7.2 to 7.19. The rates applicable to the various categories of consumer have been detailed in the Annex C.
- 7.18 The Commission has approved GRIDCO's revenue requirement for 2003-04 at Rs. 2045.00 crore (applying correctives) which GRIDCO is allowed to recover at an approved tariff in accordance with Deptt. of Energy, Govt. of Orissa notification No.1068/E dtd.29.01.03 and Parekh Committee recommendations duly accepted by Govt. of India. In case Govt. of Orissa does not accept the Parekh Committee recommendations, as advised by the Commission, the revenue requirement of GRIDCO for FY 2003-04 would increase by Rs. 94.10 crore and thereby BST would rise by 7.81 p/u over a period of 12 months, with an all Orissa average RST rise of 11.45 p/u; as per the Tariff Schedule given in Annex (C1) w.e.f 01.11.2003. It is made clear that the tariff hereby made effective from 01.11.2003 shall not be construed as an amendment of this tariff order and there shall be no fresh proceeding u/s 26 (6) of the OER Act. However, in the event of such non-acceptance by the State Govt. on or before 22.10.2003, tariff as per (Annex C-1) shall be published for giving effect thereto after 7 days from the date of publication. The amount left unrecovered due to shorter tenure of recovery or partial acceptance of the Parekh Committee recommendation, would be carried forward to 2004-2005 for adjustment.
- 7.19 In line with the Commission's order on its LTTS, the Commission expects the utilities to file their Aggregate Revenue Requirements for the period from 1 April 2004 to 31 March 2007 (i.e., for the financial years FY 2004-'05, FY 2005-'06 and FY 2006-'07) by December 2003 in order to enable the Commission finalise and operationalise its Long Term Tariff Framework for Orissa. Though the first Control Period is from 1 April 2003 to 31 March 2007 covering four financial years (FY 2003-'04, FY 2004-'05, FY 2005-'06 and FY 2006-'07), the Commission decides that the first year (i.e., FY 2003-'04) will be treated as the Transition Period, during which the LTTS will be introduced.

- 7.20 The Commission directs the licensee to implement the Retail Supply Tariff as determined by the Commission in this order to become effective after expiry of seven days of the publication under section 26(5) of the OER Act 1995.
- 7.21 Pursuant to order dated 14.03.2003 of the Hon'ble High Court of Orissa, passed in Misc. Case No. 414/2003 and 580/2003 arising out of OJC No.6751 of 2001, the order is not being notified to WESCO in terms of section 26(6) but is submitted to the Hon'ble High Court of Orissa in sealed cover. The same shall not be given effect to without leave of the Hon'ble High Court of Orissa.

The application of M/s WESCO is disposed off accordingly.

(B.C. JENA) (H. SAHU) (D. C. SAHOO)
MEMBER CHAIRMAN

REV	ENUE R	Licensee:-WESCO LTREQUIREMENT FOR		ANNEX-A AL YEAR (03-04)	
Expe	nditure			Rs. in Crore	
Para 2	XVII Cla	use-2 (b) of Schedu	le VI of Elec. (Supply) Act 1948	
			PROPOSAL	Approved(With Parekh Comittee)	Approved(Without Parekh Comittee)
I.		Purchase of Energy	471.11	499.51	527.05
II.		Distribution & Sale of Energy			
	(a)	Employees cost	52.42	60.79	60.79
	(b)	Material cost	21.30	16.89	16.89
	(c)	Admn. & General Expenses	7.15	4.73	4.73
III.		Rent, rates and taxes other than all	2.51		
		taxed on income & profits			
IV.		Interest on loans, advanced by Gridco	16.78	10.77	10.77
	(a)	Interest on loan borrowed from organisation			
		From World Bank	15.53	8.04	8.04

		WESCO POWER			
		BOND INTEREST	12.88	8.76	8.76
	_	Interest On APDRP	0.29	0.29	0.29
	(b)	Interest on debenture issued by licensee			
		Interest on Working			
		Capital(DPS of	45.45		
	©	GRIDCO) Interest on security	15.15		
V.		deposit			
VI.		Legal charges	0.14		
VII.		Bad debt	22.33	17.96	17.96
VIII.		Auditor's fees	0.07		
		Management			
IX.		including managing			
		agents remuneration			
X.		Depreciation	30.67	11.76	11.76
XI.		Other expenses			
		Contribution to P.F.,			
XII.		Staff pension,	7.00		
		Gratuity	1.52		
		Expenses on training			
	(a)	& other	0.03		
		training scheme			
	(b)	Bonus			
		(Total expenses I			
Α .		to XII)	676.88	639.49	667.03
•		opriation to cover			
Para A	VII CIA	ause 2(c)	TOTAL		
		Daniforn Inc.			
l.		Previous loss	70.86		
		All taxes on income &			
II.		profits			
		Installments of written			
III.		down account			
		in respect of			
		intangible assets and			
		new capital issue			
		expenses			
		Contribution of			
IV.		Contribution of contingency reserve	1.48	1.48	1.48
IV.		contingency reserve	1.40	1.40	1.40
		Contribution towards			
V.		arrear depreciation			
		Contribution to			
	(a)	development reserve			
1					
	(b)	Debt redemption and obligation			

VI.	Other special appropriation permitted			
	by State Government			
В	Total of (I to VI)	72.34	1.48	1.48
	Total (A+B)	749.22	640.97	668.51

Lic	ense	e:-WESCO LTD.	OERC	ANNEX-B									
СА	LCUL	ATION OF CLEAR PROFIT FOR THE FII	NANCIAL YEAR 2003-0)4									
AS	PER	THE SCHEDULE VI OF ELECTRICITY SU	IPPLY ACT, 1948 PAR	A XVII (2)									
		Rs. in Crore											
(A)		Income derived from :	PROPOSAL	Approval(With Parekh Committee)	Approva I(Withou t Parekh Committ ee)								
	i)	Gross receipt from Sale of energy less discounts applicable thereto.	743.59	718.20	718.20								
	ii)	Rental of meters and other apparatus hired to consumers including DPS	6.40	6.40	6.40								
	iii)	Sale & repair lamps and apparatus											
	iv)	Rents											
	v)	Transfer fees											
	vi)	Interest on investment											
	vii)	Other general receipts accountable for income tax and arising from and ancillary or incidental to business of electricity supply.											
		Total of (A) (i to vii)	13126.49	27163.55	749.99								
(B)		Expenditure properly incurred on :											
	i)	Generation & purchase of energy	50.52	270.38	471.11								
	ii)	Distribution and sale of energy											
		a) Employees cost	13.83	36.62	52.42								
		b) Material	12.78	8.52	21.30								
		c) A&G expenses	1.92	5.09	7.15								
	iii)	Rents, rates & taxes, other than all taxed on income and profit	0.67	1.79									
	iv)	Interest on loan advanced by GRIDCO	10.07	6.71	16.78								

9.32 6.21 15		iv.a)	Interest on loan borrowed from Organisation			
iv.b) Interest on WESCO POWER BOND 7.73 5.15 12 iv.c) Interest on APDRP 0.18 0.12 0 0.18 0.12 0 0 0.18 0.12 0 0.18 0.12 0 0.18 0.12 0 0.18 0.12 0 0.18 0.12 0 0.18 0.12 0 0.10 0 0 0 0.10 0 0 0 0 0 0 0 0 0			organion.	9.32	6.21	15.53
iv.c) Interest on APDRP			DPS GRIDCO	2.38	12.77	15.15
V) Interest on security deposit Vi) Legal charges 0.04 0.10 0 0 0 0 0 0 0 0 0		iv.b)	1			
Vi) Legal charges 0.04 0.10 0 0 0 0 0 0 0 0 0		iv.c)	Interest on APDRP	0.18	0.12	0.29
Viii) Bad debts 1.29 21.04 22 Viiii) Auditors fees 0.00 0.02 0 Ix) Management including managing agents remuneration 18.40 12 xi) Other expenses			Interest on security deposit			
Viii		vi)				
ix) Management including managing agents remuneration x) Depreciation xi) Other expenses xii) Contribution to P.F., staff pension and gratuity 0.32 2.25 5 xii.a) Expenses on apprentice & other training scheme 0.00 0.01 0 xiii) Bonus Total expenditure el.e. total expenditure el.e. total of (B) (i to xiii) (c) Special appropriation to cover: i) Previous losses 70 ii) All tax on income and profits iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve Contribution to towards arrear depreciation v a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		vii)	Bad debts	1.29	21.04	22.33
agents remuneration x) Depreciation xi) Other expenses xii) Contribution to P.F., staff pension and gratuity 0.32 2.25 5 xii.a) Expenses on apprentice & other training scheme xiii) Bonus Total expenditure e.i.e. total of (B) (i to xiii) xiii) Previous losses ii) All tax on income and profits iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A.BC) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over				0.00	0.02	0.05
Xii		ix)				
Xiii Contribution to P.F., staff pension and gratuity 0.32 2.25 5 Xii.a) Expenses on apprentice & other training scheme 0.00 0.01 0 Xiii) Bonus		x)	Depreciation		18.40	12.27
and gratuity Xii.a) Expenses on apprentice & other training scheme 0.00 0.01 0 Xiii) Bonus		xi)	Other expenses			
Xii.a) Expenses on apprentice & other training scheme		xii)				
Xii.a) Expenses on apprentice & other training scheme 0.00 0.01 0			and gratuity	0.32	2 25	5.95
training scheme 0.00 0.01 0 xiii) Bonus Total expenditur e i.e. total of (B) (i to xiii) (C) Special appropriation to cover: i) Previous losses 70 ii) All tax on income and profits iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve 0.89 0 Contribution towards arrear via depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		xii a)	Expenses on apprentice & other	0.32	2.23	3.93
Total expe nditur e i.e. total of (B) (i to xiii)		,	training scheme	0.00	0.01	0.02
expe nditur e i.e. total of (B) (i to xiii)			Bonus			
nditur e i.e. total of (B) (i to xiii) Special appropriation to cover: i) Previous losses ii) All tax on income and profits iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve Contribution towards arrear depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) CLEAR PROFIT (A-B-C) Reasonable Return (Form No. F.14) Excess or deficit of clear profit over						
e i.e. total of (B) (i to xiii)						
of (B) (i to xiii)						
(i to xiii) 152.71 131.39 392 (C) Special appropriation to cover: i) Previous losses 70 ii) All tax on income and profits iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve 0.89 0 Contribution towards arrear depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over						
Xiii) 152.71 131.39 392						
(C) Special appropriation to cover: i) Previous losses 70 ii) All tax on income and profits iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve 0.89 0 Contribution towards arrear depreciation 7.20 V.a) Contribution to Development Reserve, referred to in para 7.20 V.b) Debt redemption obligation 7.20 Vi) Other special appropriation permitted by the State Govt. 7.20 Collaboration 7.20 Collabora				450.74	404.00	200 70
ii) Previous losses 70 iii) All tax on income and profits iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve 0.89 0 Contribution towards arrear depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		XIII)		152./1	131.39	392.78
ii) Previous losses 70 iii) All tax on income and profits iiii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve 0.89 0 Contribution towards arrear depreciation V.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over	(C)		Special appropriation to cover :			
iii) Instalments of written down amounts in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve Contribution towards arrear depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) CLEAR PROFIT (A-B-C) Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		i)	Previous losses			70.86
in respect of intangible asset and new capital issue expenses iv) Contribution to contingency reserve 0.89 0 Contribution towards arrear depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		ii)	All tax on income and profits			
new capital issue expenses iv) Contribution to contingency reserve Contribution towards arrear v) depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) CLEAR PROFIT (A-B-C) Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		iii)	Instalments of written down amounts			
iv) Contribution to contingency reserve 0.89 0 Contribution towards arrear depreciation v.a) Contribution to Development Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over						
Contribution towards arrear depreciation V.a) Contribution to Development Reserve, referred to in para V.b) Debt redemption obligation Vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) CLEAR PROFIT (A-B-C) Reasonable Return (Form No. F.14) Excess or deficit of clear profit over			new capital issue expenses			
Contribution towards arrear depreciation V.a) Contribution to Development Reserve, referred to in para V.b) Debt redemption obligation Vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) CLEAR PROFIT (A-B-C) Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		iv)	Contribution to contingency reserve		0.89	0.59
V.a) Contribution to Development Reserve, referred to in para		,				
Reserve, referred to in para v.b) Debt redemption obligation vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		v)				
vi) Other special appropriation permitted by the State Govt. Total of (C) (i to vi) 0.00 0.89 71 CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		v.a)				
permitted by the State Govt. Total of (C) (i to vi) CLEAR PROFIT (A-B-C) Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		v.b)	Debt redemption obligation			
CLEAR PROFIT (A-B-C) 34556.45 12994.21 26699 Reasonable Return (Form No. F.14) Excess or deficit of clear profit over		vi)				
Reasonable Return (Form No. F.14) Excess or deficit of clear profit over			Total of (C) (i to vi)	0.00	0.89	71.45
Excess or deficit of clear profit over			CLEAR PROFIT (A-B-C)	34556.45	12994.21	26699.32
Excess or deficit of clear profit over			Reasonable Return (Form No. F.14)			
1 1 1			Excess or deficit of clear profit over			

								ANNEX-C		
	TARIFF EFFECTIVE FROM Ist. December 2003									
SI. No	Category of Consumers	Voltage of Supply	Demand Charge (Rs/KW/M onth)/ (Rs/KVA/ Month)	*Energy Charge (P/KWh)	Custome r Service Charge (Rs./Mont h)	for first KW or	y Fixed Charge for any additio nal KW or part	Rebate (P/KWh) /DPS		
	LT Category									
1	Domestic									
1.a	Kutir Jyoti < 30U/month	LT	FIXED MON	THLY CHAF	RGE>	30				
1.b								10 /DPS		
	(Consumption <= 100 units/month)	LT		140		20	10			
	(Consumption >100, <=200 units/month)	LT		230		20	10			
	(Consumption >200 units/month)	LT	320			20	10			
2	L.T General (Commercial)							10 /DPS		
	(Consumption <=100 units/month)	LT		320		30	20			
	(Consumption >100, <=300 units/month)	LT		410		30	20			
	(Consumption >300 units/month)	LT		450		30	20			
3	Irrigation	LT		110		20	10	10 /DPS		
4	Public Lighting (Street Lighting)	LT		320		20	10	DPS/Rebate		
5	L.T.Industrial (S) (Small Industry)	LT		320		40	30	10 /DPS		
6	L.T.Industrial (M) (Medium Industry)	LT		320		80	50	DPS/Rebate		
	Specified Public Purpose (Public Institution)	LT		320		80	50	DPS/Rebate		
8	Public Water Works <100 kW	LT		320		80	50	DPS/Rebate		
9	Public Water Works >= 100KW	LT	200	320	30			DPS/Rebate		
10	General Purpose	LT	200	320	30			DPS/Rebate		
11	Large Industry	LT	200	320	30			DPS/Rebate		

	HT Category						
12	Bulk Supply - Domestic	HT	10	230	250	10 /DPS	
13	Irrigation	HT	30	100	250	10 /DPS	
	Specified Public Purpose (Public Institution)	НТ	50	300	250	DPS/Rebate	
15	H.T General (Commercial)	HT	50	300	250	10 /DPS	
16	H.T.Industrial (M) (Medium Industry)	НТ	50	300	250	DPS/Rebate	
17	General Purpose	HT	200	300	250	DPS/Rebate	
18	Public Water Works	HT	200	300	250	DPS/Rebate	
19	Large Industry	HT	200	300	250	DPS/Rebate	
20	Power Intensive Industry	HT	200	300	250	DPS/Rebate	
21	Ministeel Plant	HT	200	300	250	DPS/Rebate	
22	Emergency Supply to CPP	НТ	0	400	250	DPS/Rebate	
23	Railway Traction	HT	200	300	250	DPS/Rebate	
24	Colony Consumption	HT	0	230	0	DPS/Rebate	
	EHT Category						
25	General Purpose	EHT	200	290	700	DPS/Rebate	
26	Large Industry	EHT	200	290	700	DPS/Rebate	
27	Railway Traction	EHT	200	290	700	DPS/Rebate	
28	Heavy Industry	EHT	200	290	700	DPS/Rebate	
29	Power Intensive Industry	EHT	200	290	700	DPS/Rebate	
30	Ministeel Plant	EHT	200	290	700	DPS/Rebate	
31	Emergency Supply to CPP	EHT	0	380	700	DPS/Rebate	
32	Colony Consumption	EHT	0	230	0	DPS/Rebate	
	D.C. Services		RATE FOR D.C. S	SUPPLY			
33	Domestic	LT	SAME AS RATE A	AT SL. 1		10 /DPS	
	L.T General (Commercial)	LT	SAME AS RATE A	AT SL. 2		10 /DPS	
L.T.Industrial (S) (Small 35 Industry) LT SAME AS RATE AT SL. 5 10 /DPS							
* Consumption in excess of 50% and up to 60% by EHT and HT consumers shall be payable @180 paise/kwh							
	& 200 paise/kwh respective	ely and c	onsumption above 6	0 [%] by E⊦	HT & HT consul	mers shall be payable	
@ 150 paise/kwh &170 paise/kwh respectively.							

ANNEX-C(1)

	TARIFF EFFECTIVE FROM 1st. January 2004										
SI. No	Category of Consumers	Voltage of Supply	Demand Charge (Rs/KW/Month)/ (Rs/KVA/Month)	*Energy Charge (P/KWh)	Customer Service Charge (Rs./Month)	Monthly Minimum Fixed Charge for first KW or part (Rs.)		Rebat e (P/KW h) /DPS			
	LT Category			,	,						
1	Domestic										
1.a	Kutir Jyoti <	LT	FIXED MONTHLY	CHARGE	->	30					
1.b	Others							10 /DPS			
	(Consumption <= 100										
	units/month)	LT		180		20	10				
	(Consumption >100, <=200 units/month)	LT		260		20	10				
	(Consumption >200										
	units/month)	LT		320		20	10				
	L.T General (Commercial)							10 /DPS			
	(Consumption <=100 units/month)	LT		320		30	20				
	(Consumption >100, <=300			020							
	units/month) (Consumption	LT		410		30	20				
	>300 units/month)	LT		450		30	20				
	,			440		00	10	10			
3	Irrigation Public Lighting	LT		110		20	10	/DPS			
4	(Street	ΙT		200		00	40	DPS/R			
4	Lighting) L.T.Industrial	LT		320		20	10	ebate			
5	(S) (Small Industry)	LT		320		40	30	10 /DPS			
<u> </u>	L.T.Industrial	<u> </u>		320		40	30				
6	(M) (Medium Industry)	LT		320		80	50	DPS/R ebate			
_	Specified Public Purpose							DDC //C			
7	(Public Institution)	LT		320		80	50	DPS/R ebate			
o	Public Water Works <100 kW	ΙT		220		80	ΕO	DPS/R			
8	Public Water	LT	200	320		80	50	ebate DPS/R			
9	Works >=	LT	200	320	30			ebate			

	100KW					
	General					DPS/R
10	Purpose	LT	200	320	30	ebate
	•					DPS/R
11	Large Industry	LT	200	320	30	ebate
	HT Category					
	Bulk Supply -					10
12	Domestic	HT	10	230	250	/DPS
						10
13	Irrigation	HT	30	100	250	/DPS
	Specified					
	Public Purpose					DDC/D
	(Public Institution)	HT	50	300	250	DPS/R ebate
17.	H.T General	111			200	10
15	(Commercial)	HT	50	300	250	/DPS
	H.T.Industrial					
	(M) (Medium					DPS/R
16	Industry)	HT	50	300	250	ebate
	General					DPS/R
17	Purpose	HT	200	300	250	ebate
40	Public Water	LIT	200	200	250	DPS/R
18	Works	HT	200	300	250	ebate DPS/R
19	Large Industry	HT	200	300	250	ebate
13	Power		200	300	200	CDUIC
	Intensive					DPS/R
20	Industry	HT	200	300	250	ebate
						DPS/R
21	Ministeel Plant	HT	200	300	250	ebate
00	Emergency	UT	0	400	050	DPS/R
22	Supply to CPP	HT	0	400	250	ebate
23	Railway Traction	HT	200	300	250	DPS/R ebate
23	Colony	111	200	300	230	DPS/R
24	Consumption	HT	0	230	0	ebate
			-		-	
	EHT Category General					DPS/R
25	Purpose	EHT	200	290	700	ebate
	1 41,0000	2111	200	200	700	DPS/R
26	Large Industry	EHT	200	290	700	ebate
	Railway					DPS/R
27	Traction	EHT	200	290	700	ebate
						DPS/R
28	Heavy Industry	EHT	200	290	700	ebate
	Power					חחכים
	Power Intensive	FHT	200	290	700	DPS/R ehate
29	Power	EHT	200	290	700	ebate
29	Power Intensive Industry		200			ebate DPS/R
29	Power Intensive	EHT EHT		290 290	700 700	ebate

	Colony	- LUT		^	000	•		DPS/R	
32	Consumption	EHT		0	230	0		ebate	
	D.C. Services		RATE FOR D.C.	SUPPLY					
								10	
33	Domestic	LT	SAME AS RATE	AT SL. 1				/DPS	
	L.T General							10	
34	(Commercial)	LT	SAME AS RATE	AT SL. 2				/DPS	
	L.T.Industrial (S) (Small							10	
35	Industry)	LT	SAME AS RATE	AT SL. 5				/DPS	
	* Consumption in paise/kwh	excess of	50% and up to 60%	6 by EHT	and HT	consumers shall be	payable @180		
	& 200 paise/kwh respectively and consumption above 60% by EHT & HT consumers shall be payable								
	@ 150 paise/kwh &170 paise/kwh respectively.								