Mandatory Energy Audit Report of

Annual Energy Audit (2022-23) for Assam Power Distribution Company Limited as per Bureau of Energy Efficiency (Manner and Intervals to Conduct Energy Audit in electricity distribution companies) as per Regulations, 2021 Notified on 06.10.2021

[Period of Audit 20.07.2023 to 24.07.2023]

অসম শক্তি বিতৰণ কোম্পানী লিমিটেড
অসম চৰকাৰৰ বাজহুৱা খণ্ডৰ এটি পৰিসীমিত কোম্পানী
ASSAM POWER DISTRIBUTION COMPANY LIMITED
A Govt. of Assam Public Limited Company

Assam Power Distribution Company Limited

Bijlee Bhawan, 4th Floor, Paltan Bazar, PO - Kamrup at Guwahati, Assam– 781001

Prepared For

Bureau of Energy Efficiency
[Government of India–Ministry of Power]
4thFloor,SewaBhawan,R.K.Puram,NewDelhi–110066,India

Prepared By

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1. Acknowledgment

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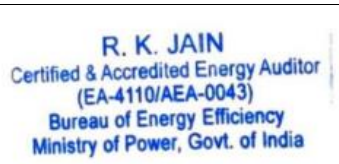
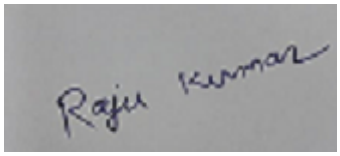
Special thanks to Er. Chandan Deka, Chief General Manager (Com & EE), for their valuable contribution in deliberation over network and management aspects.

The interaction and deliberation with Er. Lilambar Das, DGM (TRC), Nodal Officer has been very much useful in completion of energy audit task assigned by APDCL. We thank to Er. Pratim Banerjee (Energy Manager, EA-33274/21) for his co-operation in providing data and details to Audit Team.

The study team also acknowledges the contribution of other Engineers of Division, Sub-Division and Power Sub-stations of APDCL for cooperation in conducting Energy Audit.

Abhay Jain	R.K. Jain
	
Certified Energy Auditor (EA-9553) & DISCOM Expert, M/S KESPL New Delhi	Accredited Energy Auditor (A.E.A. – 0043) Associate Director, M/S KESPL New Delhi

Team of Energy Audit

Name of Team Members	Experts	Brief Introduction
Mr. R.K. Jain	Accredited Energy Auditor AEA - 0043	He has experience of 47 years in thermal power plants / Iron & Steel and commercial buildings etc. Under PAT scheme of BEE.
Mr. Akshay Kumar 	Certified Energy Auditor (34721) & DISCOM Expert	He is an Ex Executive Director (JUSNL & JUUNL of erstwhile JSEB. He has experience of 36 years in Transmission, Generation (Thermal Power station), SLDC (Power System Manager) and Energy Audit.
Mr. R. Kumar 	Energy Engineer	He has experience of 3 years working in KESPL, reputed energy firm in New Delhi.

2. List of abbreviations

Sr. No.	Short Form	Abbreviation
1	EHV	Extra High Voltage
2	EHT	Extra High Tension
3	FY	Financial Year
4	I&C	Installation and commissioning
5	ICL	Incandescent Lamp
6	IPP	Independent Power Plant
7	KVA	Kilo Volt Ampere
8	KVAR	Kilo Volt Ampere Reactive
9	MOP	Ministry of Power
10	MVAR	Mega Volt Ampere Reactive
11	M&V	Monitoring and Verification
12	MU	Million Units (Million KWG)
13	MVA	Mega Volt Ampere
14	MVAr	Mega Volt Ampere Reactive
15	MMC	Monthly Minimum Charges
16	MTOE	Million Ton Oil Equivalent
17	NRSE	New and renewable Source of Energy
18	PF	Power Factor
19	PT	Power Transformer (Ref CT-PT Ratio)
20	POC	Point of Connection
21	HT	High Tension Line
22	kW	Kilo Watt
23	kWH	Kilo Watt Hour
24	LED	Light Emitting Diode
25	LT	Low Tension Line
26	APDCL	Assam Power Distribution Company Limited
27	PSTCL	Assam state Transmission Corporation Limited
28	PEDA	Assam Electricity Development Agency
29	SLD	Single Line Diagram along with input energy
30	SLDC	State Load Dispatch Center
31	T&D	Transmission and Distribution
32	UJALA	Unnat Jyoti Affordable lighting for All
33	UPS	Uninterrupted Power Supply
34	1000 M kWh	86, 000 MToe
35	AEA	Accredited Energy Auditor
36	ABR	Average Billing Rate
37	ABC	Aerial Bunched Cables
38	AP	Agricultural Pump
39	Amp	Ampere
40	AMI	Advanced Metering Infrastructure

Sr. No.	Short Form	Abbreviation
41	AMR	Automated Meter Reading
42	AMRUT	Atal Mission for Rejuvenation and Urban Transformation
43	AT&C	Aggregate Technical and commercial
44	BBMB	Bhakra Beas Management Board
45	BEE	Bureau of Energy Efficiency
46	CEA	Certified Energy Auditor
47	CERC	Central Electricity Regulatory commission (India)
48	CFL	Compact Florescent Lamp
49	CO_2	Carbon Dioxide
50	CKT	Circuit Kilometer
51	CT	Circuit Transformer (Ref. CT-PT Ratio)
52	DC	Designated Consumer
53	DCS	Distributed Control system
54	DT	Distribution Transformer
55	EAR	Energy Audit Report
56	EmAEA	Empanelled Accredited Energy Auditor
57	EC	Energy Conservation
58	ECM	Energy Conservation Measures
59	EE	Energy Efficiency
60	EPIA	Energy Performance Improvement Action

3. Executive Summary:

Assam Power Distribution Company Limited (APDCL), headquarter at the Paltan Bazar, Bijulee Bhavan, Guwahati after unbundling of ASEB, came into existence on 23rd October 2009. It bears the responsibility of distribution of power to various categories of consumers within the state of Assam . The co-coordinating agency, BEE, has framed regulation in exercise of power conferred upon under clause (g) and (n) of section 14 of the energy conservation act 2001 (Amended in 2010) for the designated consumers.

APDCL has awarded the work of annual energy audit for FY 2022-23 vide work order number APDCL/CGM(COM&EE) 2019/Energy Accounting/46 Dated 13.06.2023 to M/S Katyani energy solution private limited, Delhi.

The objective of mandatory energy audit is to conduct energy audit to know

a) Losses of power in distribution network of various voltages

b) Assess the metering status (Functional, Nonfunctional and Unmetered)

c) Types of meter connected.

d) Monitoring mechanism of system from 33 KV to 0.415 KV network and consumers connected at different voltages of various categories.

e) Calculation of billing efficiency and collection efficiency.

f) Calculate T&D Loss and AT&C Loss (%) feeder-wise and division-wise.

The connected load of all category is 9888.00 MW, which consumes annual input energy (At DISCOM Periphery) 10985.26 MU. The actual sold energy stands to be 9136.24 MU to the consumers. The billing efficiency stands to be 83.16%.The category-wise load calculation & percentage and energy consumption along with percentage are mentioned below.

Category-wise Connected Load

Category	Kind	Connected Load MW	%	Energy in MU	%
Residential		5904.81	59.71	4565.27	49.96
Agricultural		142.931	1.44	63.5577	0.69
Industrial	Commercial HT	1211.03	19.01	2505.84	27.42
	Commercial LT	1880.41	12.24	1040.68	11.39
Others		749.314	7.57	960.891	10.51
Net		**9888** MW	**100**	**9136.24**	**100**

Subsidized and Nonsubsidised energy

Category	Energy Sold in MU	%	Revenue Collection in Rs Crore	%	Remarks
Subsidized	3379.14	36.98	259.934	3.36	Calculated
Nonsubsidised	5757.1	63.02	7484.20	96.04	Calculated
Total	**9136.24**	**100**	**7744.143**	**100**	Collection Without Arrear

Note:- The theft energy assessment and short assessment of defective meters subsequent to first assessment of unmetered energy billing are not to be considered as sale of energy (no adjustment shall be made in revenue from sale of energy on account of unbilled revenue, as per addendum to AT&C calculation methodology along with CEA letter dated 8- 08-2018). APDCL has not considered such energy as sold energy. The energy supplied may be categorized as subsidized energy and Non-subsidize energy. The realization of subsidy bills from government is 100%. **The subsidized energy stands 36.98% of total energy billed and non subsidized energy stands 63.02 % of the energy billed.**

The collection efficiency against subsidized billing is 100% whereas collection efficiency against the - Non-subsidized energy billing stands to be 98.54 %. The weightage average of collection efficiency stands to be 98.58%. The T&D loss from 33kv to LT at consumer end of network has been calculated as 16.84%. The AT&C Losses comes to be 18.021 %.(Reference 8.4)

The metering arrangement of network does not redress the BEE requirement. Feeders are not provided meters in both ends, However as per RDSS scheme, targeted completion time of Feeder and DTR

metering is September'2024. DTs are not having meters in input and output end. Agriculture consumers load about 1.44% of total connected load of consumers are not metered and in case defective meters are found actions are taken as per AERC guideline.

The loss assessment shows that Howraghat division under Kanch circle (31%) & Hailakandi under Badarpur Circle (31%) are maximum loss prone area, which needs special attention to control it.

The sale price works out to be Rs 8.47 per unit. The approved quantity of energy sales for FY 2022-23 by Regulatory commission is 12691 MU.

The approved T&D loss by the commission is 18.27% (Intra-state transmission loss 3.27% + Distribution loss 15%) (**Reference – Acos approved by the commission for FY 2022-23**, provided by Energy Manager) where as the actual T&D loss stands to be 16.84% (For network of APDCL from 33 KV to Consumer End). (**Reference - Analysis of Data Collected for Determining at point 8.4 & record no 12**).

The 11 KV feeders are having mixed mode of supply to different category of consumers. Consumers are categorized broadly as Residential, Agriculture, Commercial/Industrial LT, Commercial HT and others category (Mixed load).The details of connection, metering, load , losses and collection as per these categories are provided, but assessment has been made at Division level.

As per mandatory requirement under regulatory provision of Central regulatory commission the penetration of solar power and net metering in APDCL Network are not adequate **(Reference - 9.1 v) RPO (Renewable purchase obligation)**. So use of solar power should be encouraged among agricultural consumers & domestic consumers.

ARMS (APDCL Revenue Management System) build by itself, is functioning at Apex level for the job of collecting data from consumers of different categories, by various modes of fetching, i.e. through AMR meter, communicable meters, non communicable meters and unmetered consumers by assessment. But functioning of data centers at different level are absent for monitoring of parameters as per BEE guide lines.

So, it is difficult to assess and verify mixed mode of billing. The system losses in the different feeders and DT- wise load & loss assessment could not be possible without 100% online monitoring and acquisition of data to Data Centre through 100% communicable (Preferably AMR type) meters at each input and output of system elements (Feeder, Power Transformers, Distribution Transformers and consumers).Only some of the meters in feeders and power transformers are communicating presently. Hence, input energy being recorded manually. Installations of smart meters in feeders are under process with RDSS scheme, targeted completion by September, 2024.

APDCL has tremendous potential to achieve the goal of 100% online monitoring of all the parameters prescribed by BEE and become front runner among the DISCOM.

The target for T&D loss in the PAT scheme for FY 2024 – 25 is 18.46 %. In the base year 2018 – 19 T&D loss was 19.70 % and Input energy was 8678.04.64 MU.

The source generation is 12804.45 MU, the loss in transmission of power @ 400 KV, 220 KV, 132 KV and lines are 732.58 MU. So there is a loss of 5.72 % from generating station to 132KV/33KV Grid

Sub Station at APTCL (Inter-state Intra state transmission loss). At 33KV bus (Input Periphery) net input energy received is 10985.26 MU. Thereafter transmission of power over 33KV, 11 KV lines, Distribution transformer, and 440 Volt LT lines reaches to end consumers. The loss of energy in distribution network from 33 KV lines to LT consumers is 1849.02 MU. So all together transmission and distribution loss (T&D) of APDCL network from 33kv lines to LT meters of end consumers stands to be 16.83% against the target of 18.46 % by FY 2024-25. The AT&C loss works out to be 18.021%.

This observation of field visit for sample check for power sub-station, bus bar, metering type and its functionality is as mentioned below.

- The bus bars, connectors & jumpers were in dilapidated condition.
- The Bus bar loss was found 1.5 to 2.75% for minimum load to maximum load condition.
- 33 KV and 11 KV lines pass through the terrain of trees and forest. Hence, leakage current during rainy season may be prominent reason of loss of energy.
- Poor maintenance of sub-station, equipment's and lines were observed.
- There should be monitoring of technical parameters in order to get information about system health.

4. Overview of APDCL

4.1. General Information –Reference - Annual FY 2022-23 Energy Account APDCL (in BEE format)

General Information				
1	**Name of the DISCOM**	ASSAM POWER DISTRIBUTION COMPANY LIMITED		
2	**i) Year of Establishment**	2009		
	ii) Government/Public/Private	Government		
3	**DISCOM's Contact details & Address**			
i	City/Town/Village	GUWAHATI-1, ASAAM		
ii	District	KAMRUP		
iii	State	ASSAM	Pin	781001
iv	Telephone	0361 2739515	Fax	0361

General Information				
				2739501
4	**Registered Office**			
i	Company's Chief Executive Name	Mr RAKESH KUMAR		
ii	Designation	MANAGING DIRECTOR		
iii	Address	O/o MD, BIJULEE BHAWAN, 4TH FLOOR,PALTAN BAZAR		
iv	City/Town/Village		P.O.	
v	District	KAMRUP		
vi	State	ASSAM	Pin	781001
vii	Telephone		Fax	
5	**Nodal Officer Details***			
i	Nodal Officer Name (Designated at DISCOM's)	Mr LILAMBAR DAS		
ii	Designation	DGM (TRC)		
iii	Address	BIJULEE BHAWAN, PALTAN BAZAR		
iv	City/Town/Village	GUWAHATI-1, ASSAM	P.O.	
v	District	KAMRUP(M)		
vi	State	ASSAM	Pin	781001
vii	Telephone	9954413454	Fax	
6	**Energy Manager Details***			
i	Name	PRATIM BANERJEE		
ii	Designation	ENERGY MANAGER	Whether EA or EM	
iii	EA/EM Registration No.	EA-33274/21		
iv	Telephone	9435543261	Fax	
v	Mobile		E-mail ID	gmtrc@apdcl.org
7	**Period of Information**			

General Information		
	Year of (FY) information including Date and Month (Start & End)	1st Apr, 2022 - 31st March, 2023

Summary Sheet9(claimed by APDCL)

Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st Apr, 2022 - 31st March, 2023	
2	**Technical Details**		
(a)	**Energy Input Details**		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	12804.45
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	10985.26
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	9136.24
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	1849.02
		%	16.84%
	Collection Efficiency	%	98.58%
(c)	Aggregate Technical & Commercial Loss	%	18.02%

Form-Details of Input Infrastructure					
1	**Parameters**	**Total**	**Covered during in audit**	**Verified by Auditor in Sample Check**	**Remarks (Source of data)**
i	Number of circles	19			
ii	Number of divisions	45			
iii	Number	158			

Form-Details of Input Infrastructure					
	of sub-divisions				
iv	Number of feeders	2632			
v	Number of DTs	105291			
vi	Number of consumers	6772084			
2	**Parameters**	**66kV and above**	**33kV**	**11/22kV**	**LT**
a. i.	Number of conventional metered consumers	0	0	0	5,616,412
ii	Number of consumers with 'smart' meters	0	0	0	568,301
iii	Number of consumers with 'smart prepaid' meters	0	0	0	534852
iv	Number of consumers with 'AMR' meters	16	349	13,283	1,987
v	Number of consumer	0	0	0	36,884

Form-Details of Input Infrastructure					
	s with 'non-smart prepaid' meters				
vi	Number of unmetered consumers	0	0	0	0
vii	**Number of total consumers**	**16**	**349**	**13,283**	**6,758,436**
b.i.	Number of conventionally metered Distribution Transformers	0	0	0	42907
ii	Number of DTs with communicable meters	0	0	0	0
iii	Number of unmetered DTs	0	0	0	62384
iv	**Number of total Transformers**	**0**	**0**	**0**	**105291**
c.i.	Number of metered	0	590	1770	

Form-Details of Input Infrastructure					
	feeders				
ii	Number of feeders with communicable meters	0	0	0	
iii	Number of unmetered feeders	0	45	227	
iv	**Number of total feeders**	**0**	**635**	**1997**	**0**
d.	Line length (ct km)	435240			
e.	Length of Aerial Bunched Cables	58232.22			
f.	Length of Underground Cables	0			

3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	10,451	Includes input energy for franchisees	
		Medium Conventional			
		Short Term Conventional	1455.544797		
		Banking			
		Long-Term Renewable energy	663.5351944		
		Medium and Short-Term RE		Includes power from bilateral/ PX/ DEEP	

Form-Details of Input Infrastructure					
		Captive, open access input		Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.	
		Sale of surplus power			1087.1needs to be subtracted – Data provided as it is in Annual_Energy_Accounting_2022_23.xlsx infrastructure tab
		Quantum of inter-state transmission loss	357	As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	12,570	Based on data from Form 5	
		Power at state transmission boundary	12,213		
ii	33kV	Long-Term Conventional			
		Medium Conventional			
		Short Term Conventional			
		Banking			
		Long-Term Renewable energy	233.6675192		
		Medium and Short-Term RE			
		Captive, open access input	0.6074		
		Sale of surplus power			
		Quantum of intra-state transmission loss	375	375.16	
		Power procured from intra-state sources	234		

Form-Details of Input Infrastructure					
iii		**Input in DISCOM wires network**	12,072		
iv	33 kV	Renewable Energy Procurement			
		Small capacity conventional/ biomass/ hydro plants Procurement			
		Captive, open access input			
v	11 kV	Renewable Energy Procurement			
		Small capacity conventional/ biomass/ hydro plants Procurement			
		Sales Migration Input			
vi	LT	Renewable Energy Procurement			
		Sales Migration Input			
vii		**Energy Embedded within DISCOM wires network**	0		
viii		**Total Energy Available/ Input**	12,072		
4	**Voltage level**	**Energy Sales Particulars**	**MU**	**Reference**	
i	LT Level	DISCOM' consumers	5,804	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
		Embedded generation used at LT level	0	Demand from embedded generation at LT level	
		Sale at LT level	5,804		
		Quantum of LT level losses	614		
		Energy Input at LT level	6,418		approximation

Form-Details of Input Infrastructure					
ii	11 kV Level	DISCOM' consumers	2,028	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
		Embedded generation at 11 kV level used	0	Demand from embedded generation at 11kV level	
		Sales at 11 kV level	2,028		
		Quantum of Losses at 11 kV	685		
		Energy input at 11 kV level	2,713		approximation
iii	33 kV Level	DISCOM' consumers	1,305	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive		Non DISCOM's sales	
		Embedded generation at 33 kV or below level	0	This is DISCOM and OA demand met via energy generated at same voltage level	
		Sales at 33 kV level	1,305		
		Quantum of Losses at 33 kV	549		
		Energy input at 33kV Level	1,854		
iv	> 33 kV	DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
		Cross border sale of energy	0		

Form-Details of Input Infrastructure					
		Sale to other DISCOMs			
		Banking			
		Energy input at > 33kV Level			
		Sales at 66kV and above (EHV)	0		
		Total Energy Requirement	**10,985**		
		Total Energy Sales	**9,136**		

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	6418.047778	5803.557108	614.4906704	10%
ii	11 Kv	9130.689417	8445.888	684.8014175	7%
iii	33 kv	10984.77099	10435.532	549.238987	5%
iv	> 33 kv				
6	**Open Access, Captive**	**Input (in MU)**	**Sale (in MU)**	**Loss (in MU)**	
i	LT				
ii	11 Kv				
iii	33 kv				
iv	> 33 kv				

Loss Estimation for DISCOM	
T&D loss	1,849
D loss	1,116
T&D loss (%)	0.168281228
D loss (%)	0.101590664

4.2.Field structure of Power Distribution

APDCL is a state undertaking and has responsibility of distribution of power within the state of Assam. The administrative units of governing its several technical, administrative and accounting functions are as mentioned below – (**Reference Annexure -1 - Division-wise Loss for 2022-23**).

Circle	Division	Subdivision
BADARPUR	Hailakandi Division	Total 158 Sub-Divisions
	Karimganj Division	
BARPETA	Barpeta Division	
	Patshala Division	
BONGAIGAON	Bongaigaon Division	
	Goalpara Division	
CACHAR	Silchar-I Division	
	Silchar-II Division	
DIBRUGARH	Dibrugarh Division	
	Duliajan Division	
Ghy EC-I	GED Central	
	GED East	
	GED North	
	GED South	
Ghy EC-II	GED West	
	Mirza Division	
Golaghat	Golaghat Division	
JORHAT	Jorhat-I Division	
	Jorhat-II Division	
	Teok Division	
KANCH	Diphu Division	
	Halflong Div	
	Howraghat Div	
KOKRAJHAR	Dhuburi Division	
	Kokrajhar Division	
MANGALDOI	Mangaldoi Division	
	Udalguri Division	
MORIGAON	Jagiroad Division	

Circle	Division	Subdivision
	Morigaon Division	
N. Lakhimpur	Chilapathar Division	
	Dhemaji Division	
	North Lakhimpur Division	
NAGAON	Hojai Div	
	Nagaon Div-I	
	Nagaon Div-II	
RANGIA	Nalbari Division	
	Rangia Division	
SIVASAGAR	Moran Division	
	Nazira Division	
	Sivasagar Division	
TEZPUR	Chariali Division	
	Dhekiajuli Division	
	Tezpur Division	
Tinsukia EC	Digboi Division	
	Tinsukia Division	

APDCL consumers of different categories

So, APDCL provides energy to consumers of different categories, 6772084 numbers of consumers at 0.440 KV, 11 KV and some consumers at 132 KV. The infrastructure involved in distribution of energy are having 1997 numbers of 11 KV Feeders, 105291 numbers of DTs (11 KV/0.44 KV), Power Transformer 590 numbers (33 KV/11 KV). The network has inter-state RE power of 233.6675 MU and Solar Power under net metering scheme is nil.

Source	Energy availability at the boundary (MU)	% of Energy
1. Inter-state RE	234	1.82%
2. Interstate	12570 (Including APDCL + AEGCL Loss)	51.36%
Net Total(MU)	12804	100%
3. APDCL + AEGCL (T&D Loss)	1818.74	14.2%
4. Net Energy available for use	10985.26 MU	85.8%

The average length of 33 KV lines is 15.4 kilo meter per feeder. The average line length of 11 KV LT lines is 49.615 kilo meter per feeder (**Reference - 11.13. Circle-wise basic infrastructure**). The average line length of 11 KV feeder is very abnormal may result in to high loss and voltage drop at consumer end. The loss of transmission in AEGCL lines (400 KV, 220 KV, and 132 KV and its busses) and APDCL lines (buses and Transformers) stands to be 5.72% from source generation to input energy at APDCL periphery. The net input energy available at APDCL boundary at 33kv is 10985.26 MU and actual energy sold is 9136.24 MU. So, technical loss in 33 KV lines, 11 KV lines and440 volt LT lines along with theft stands to be1818.74 MU.

4.3.Profile of Assam Power Distribution Company Limited

Earlier Assam state electricity Board was in existence before 23rd October 2009 but after its unbundling, APDCL (Assam Power Distribution Company Limited) came into existence. It was incorporated as company on 23rd October 2009. It bears the responsibility of generation and distribution of power. The network configuration and its authority is as mentioned below

- 400 KV, 220 KV and 132 KV Transmission of Power up to 132/ G/S/S → TRANSCO.
- Distribution of Power at 33 KV and 11 KV either through 11 KV Power transformers or 11 KV/0.415 KV DT → APDCL.
- Energy billing to consumer at33kvand above , 11 KV and 0.415→ APDCL.

Metering of energy is through communicable, non communicable, smart meters (Prepaid), AMR meter etc.

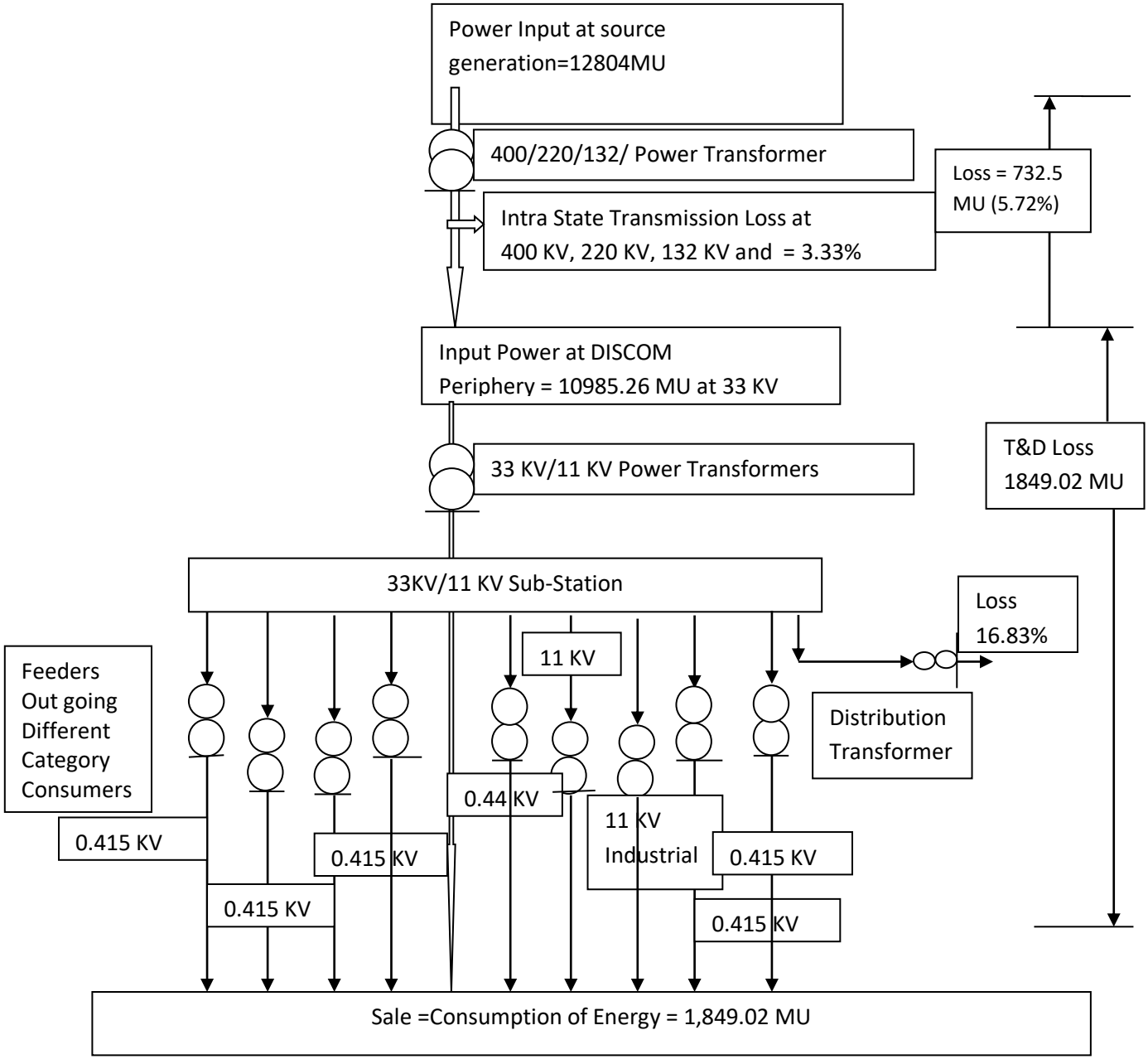
DTs are not having receiving meters at the incoming or at outgoing of it. So, the network losses assessment of11 KV Feeders are not possible right now, until and unless all the input, output of DTs 33kv lines, 11 KV feeders, Power transformer and lines are provided with communicable meters (AMR Preferably).

Energy billing is being done through ARMS software at subdivision level of different category of consumers having connected load up to upto25 KW and for above load billing is done through ARMS by IRCA (Industrial Revenue Collection Area) and data is made available at Apex level. Each substation is having a mixed mode of feeder of 11 KV for different categories. The industrial consumers have rarely installed the capacitor banks at their interface of connection. Apart from industrial feeders power substation also are not having Capacitor Bank installed with bus bar to meet reactive power requirement of the other categories. However, reactive power requirement of system is not too much. So Power Factor was found from 0.96 to 0.98.

The line lengths of 11 KV lines are very short. So, T&D losses are very low. The voltage variation of bus voltage is around 8% in some bus. Bus loss varies from 1.5% to 2.75% (max). This indicates that load profile of bus bar is of varying nature and bus condition is not up to the mark.

5. APDCL Network

5.1.Power Flow Chart of APDCL Net



5.2.Metering and Billing arrangement

The Energy Meters are installed at the sending end, at 132KV/ 33 KV grid sub-station. But lines feeding to consumers at 33 KV have meters in both end of the line. Power transformers of 11 KV substations have energy meters in receiving end (Input) of bus bar. Most of the DT installed at the consumer end in the 11 KV Feeders does not have any input meter (As on date 40% DTs are metered). Most of the energy used is non-subsidized. APDCL has the logic to meter the consumption of energy by different categories being fed through 11 KV mixed feeders. The detail of meter types are given below (From 4.1 Form-Details of Input Infrastructure)

	Types of meter	66 KV & above (16 nos)	%	33 KV 349 nos	%	11KV (13283 nos)	%	Consumer LT (6758436)	%
Consumer	Non communicable	-		0	0	-	-	5616412	83.18
	Non Smart Pre Paid	-	0	-	-	-	-	36884	0.54
	Smart Meter (Non Prepaid)	-	-	-	-		-	568301	8.4
	Smart Meter Prepaid	-	-	-	-	-	-	534852	7.91
	AMR Meters	16	100	349	100	13283	100	1987	0.029
	Nos of unmetered Consumer	-	-	-	-	-	-	0	-
DT 105291	Non communicable	-	-	-	-	42907	40.75	0	-
	Communicable Meters	-	-	2	100	0		-	-
	Unmetered	0				62384	59.25	0	
Feeders	Nos	-		635		1997	-	-	-
	Non Communicable Meter	-	-	590	92.91	1770	88.63	0	0
	Unmetered	0	0	45	7.09	227	11.37	0	0

The billing responsibility of consumers lies with Subdivision and IRCA through ARMS of APDCL. Energy data from consumers reach at Head Quarter, Paltan Bazar directly through ARMS.

5.3.Monitoring Tips for Power distribution system improvement

Monitoring Tips

- Power sub-stations buss bar losses, Transformer loss and auxiliary power consumption by all the equipment together as substation loss should be monitored regularly. This will help to identify the poor bus bar condition and take necessary action regarding replacement / improvement.
- The details of tripping of 33 KV lines and 11 KV lines in a month should be monitored regularly in order to know the physical condition (overloading maybe one of the reasons of tripping) and appropriate decision of replacement/improvement maybe taken.
- Maintenance register should be in substation to record maintenance activities performed.
- Observation of voltage and current imbalance of each outgoing feeder regularly.
- Voltage variation of each feeder should be observed.

Power system improvement

- Benchmark the substation regarding bus bar loss and line tripping with better performing bus bar and lines of APDCL of similar load and voltage.
- Replacement of wired buss bar with pipe bus bar.
- Replacement of old isolators and connectors.
- Tighten loose jumpers.
- Check oil level of CT and transformer regularly.

5.4.Scope of Work of AEA (Annual Energy Audit)

The Scope of the study was to conduct the annual energy audit of APDCL for AT & C losses for the FY 2022-23 based on the quarterly energy data report of the DC

i. Energy Audit was carried out in the line of regulations.

ii. Preparation of checklist/action plan for Energy Audit.

iii. Performa of energy audit was shared with selected agency after the issue of work order. DISCOM visit was carried out by all team members of the agency as per the team declaration in technical proposal. Energy Audit regulation 2021 Performa has been used for this audit.

iv. Collection and Review of the energy related data of Financial Year i.e. FY: 2022 – 2023.

v. Verification of existing system of energy distribution across periphery of Electricity Distribution Company.

vi. Collection and verification of energy flow data of electricity distribution company at all applicable voltage level of distribution network based on the details presented by APDCL.

vii. Collection of data on energy received and distributed by DISCOM i.e. APDCL and verify the accuracy of data.

viii. Collection and analysis of data and preparation of reports.

ix. Observation and compilation of various Energy Conservation (ENCON) options implemented by DISCOM i.e. APDCL along with preparation of report containing details of expenditure made by Designated Consumer i.e. APDCL.

x. Recommendations to facilitate energy audit, energy accounting and improve energy efficiency.

xi. Current system metering status at various voltage level of DISCOM i.e. APDCL.

xii. Status of functional meters for all consumer transformer and feeders.

xiii. Status of default meters for all consumers transformers and feeders.

xiv. Current status of per-requisite mentioned in regulation.

xv. Copies of relevant authentic and certified document supporting the report.

xvi. Prepare final report of DISCOM i.e. APDCL as per the scope of work and as per the regulation of energy audit, in a standard format dully indexed, covering of the unit and its details of energy related data with respect to APDCL along with analytical and statistical details.

6. Notification and Category of Consumers

6.1. Category of Consumers

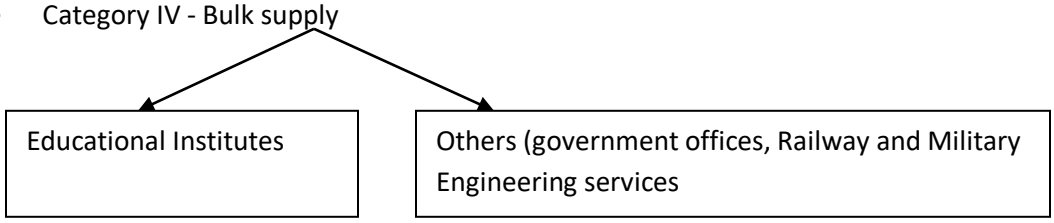
Consumers are divided first according to voltage level into LT (1ph 230 volt AC and three phase 415 volt AC) group and HT group (11KV or above). The consumers are further divided into categories based on purpose and nature of supply.

LT categories

- Category I – (Jeevan Dhara)
- Category II – Domestic A
- Category III - Domestic B
- Category IV - LT commercial
- Category V - LT general purpose supply
- Category VI - Public Lighting
- Category VII - Agriculture
- Category VIII - Small industries
- Category IX - Temporary supply
- category X - Electric vehicles charging stations

HT categories (connected load above 25 KW (30 KVA) or at voltage 11KV and above)

- Category I - HT domestic
- Category II - HT commercial
- Category III - Public water works
- Category IV - Bulk supply



- Category V (A) - HT small industry
- Category V(B) – HT-I industry
- Category V(C) – HT-II industry
- Category VI – Tea, Coffee and Rubber
- Category VII – Oil & Coal
- Category VIII – HT Irrigation
- Category IX – Temporary Supply
- Category X – Electric Crematorium
- Category XI – Railway Traction
- Category X II– Electric vehicles charging stations

6.2.Salient provisions of energy billing

1) Salient provisions of energy billing
   i) Rebate of 3% in the energy charges for all the consumers taking supply at 132 KV.
   b) Rebate of 1.5% in every in energy charges for all consumers taking supply at 33 KV.
2) **Contract Demand** - the contract demand shall be as per the agreement executed between the consumer and APDCL. In case of no agreement, 100% connected load converted to KVA Shall be the contract demand.
3) **Over Drawl Penalty -** In case recorded demand is higher than contract demand in a month then fixed charge based on contract demand shall be levied as three times the normal rate for the portion of demand exceeding the contract demand.
4) **Time of the day (TOD) Tariff –**

For HT- V(A), HT VI – Tea, Coffee and Rubber, HT – I, HT–II – industries and HT - VII – Oil & Coal is applicable in following manner

Time Slot	Energy charge in addition to base tariff Rs/KWH
6.00 hrs to 17 hrs (Normal Hour)	0.00
17.00 hrs to 22 hrs (Peak Hour)	+ 2.00
22.00 hrs to 6.00 hrs (Night- off peak hours)	- 2.00

Comments:- Appropriate provisions through tariff implementation have been made to control the in-efficiency due to poor power factor and peak overloading of system by HT category consumers and agriculture etc. Further incentive of rebate has been provisioned to encourage HT consumer connections. The stringent provision of contract demand will help the utility make genuine load connection as per the contract demand.

6.3.Provision of subsidy in APDCL

Government of Assam has notified subsidy for agriculture sector, other deprived section of the society and poor people of Domestic A& Jeewan Dhara category consumers in the following manner. (**Reference from Annexure - 11.12. Tariff schedule June 2023**)

Sr No.	Category	Provision of subsidy/Payment
1	Subsidy payment conditions	Subsidy amount /Kwh is Rs 1/Kwh
1.a)	Jeevan Dhara 0.5 KVLoad & 1.5 Kwh/Day	Limit 45 Units/Month
1.b)	0-120 Units/Month	0.75/Kwh
2	Total Subsidized Energy MU	3379.14 MU
3	Total Subsidized billed amount, Rs Crore	259.934 Crore
4	Total Subsidized collection, Rs Crore	More than 259.934 Crore, but caped at 259.934 Crore
5	Average cost of subsidy energy	$(2599.34 \times 10^6)/()3379.14 \times 10^6)$ = Rs 0.769/Kwh ≈ Rs 0.77/Kwh
6.a)	Power factor rebate	PF (0.85 to0.950) ----1% of energy charge PF(0.95 to 0.97)------2% of energy charge

Sr No.	Category	Provision of subsidy/Payment
		PF(0.97 to 1)----------3% of energy charge
6.b)	Power factor Penalty	Below 0.85 @1% for every 1% fall PF(0,85 to 0.6)-------additional 2% for every 1% fall

Comments:

Poor section of the society has been covered under subsidy scheme of government.

6.4.Policy for calibration of Meters

Central Electricity authority vide notification no 502/70/CEA/DP & D, in exercise of powers conferred by sub section (1) of section 55 and clause (e) of section 73 read with sub section 177 of Electricity Act, 2003 made regulation known as the Central Electricity Authority (Installation and operation of meter is cited below for read reference. As per APDCL, Assam SERC has no specific ruling regarding calibration of meters.

18.b. All interface meters shall be tested at least once in five years. These meters shall also be tested whenever the energy and other quantities recorded by the meter are abnormal or inconsistent with electrically adjacent meters. Whenever there is unreasonable difference between the quantity recorded by interface meter and the corresponding value monitored at the billing center via communication network, the communication system and terminal equipment shall be tested and rectified. The meters may be tested using NABL accredited mobile laboratory or at any accredited laboratory and recalibrated if required at manufacturer's works.

18.c Testing and calibration of interface meters may be carried out in the presence of the representatives of the supplier and buyer. The owner of the meter shall send advance notice to the other party regarding the date of testing.

18.(2) **Consumer meters**

The testing of consumer meters shall be done at site at least once in five years. The licensee may instead of testing the meter at site can remove the meter and replace the same by a tested meter duly tested in an accredited test laboratory. In addition, meters installed in the circuit shall be tested if study of consumption pattern changes drastically from the similar months or season of the previous years or if there is consumer's complaint pertaining to a meter. The standard reference meter of better accuracy class than the meter under test shall be used for site testing of consumer meters up to 650 volts. The testing for consumers meters above 650 volts should cover the entire metering system including CTs, VTs. Testing may be carried out through NABL accredited mobile laboratory using secondary injection

kit, measuring unit and phantom loading or at any accredited test laboratory and recalibrated if required at manufacturer's works.

18.(3) **Energy accounting and audit meters**

Energy accounting and audit meters shall be tested at site at least once in five years or whenever the accuracy is suspected or whenever the readings are inconsistent with the readings of other meters, e.g., check meters, standby meters. The testing must be carried out without removing the CTs and VTs connection. Testing may be carried out through NABL accredited mobile laboratory using secondary injection kit, measuring unit and phantom loading or at any accredited test laboratory and recalibrated if required at manufacturer's works.

Comment:

But there is general practice to change the meter in case erratic reading is observed. Manpower needed for testing of LT meter, DTs meter, and Feeder meter through NABL across the country is not adequate to take up the work regularly at 5 years on call of DISCOM. But in place of such non feasible provisions DISCOM's meter readers reads the energy consumption/download consumption and observe the functioning of meters. They report about the meters to the department looking after metering. Meter are tested and calibrated before installation but thereafter there is system of regular calibration by NABL at every 5 Years interval. Each zone has ME (Meter Equipment) labs for testing and calibrating the meter before installation of new meter or replacement of defective meters. There is no records available in sub-station regarding calibration of meters at site.

7. Energy Audit of APDCL

7.1.Methodology for Energy Audit FY 2022-2023

M/S KESPL has been awarded the work of Mandatory Energy Audit for FY 2022-2023 by APDCL vide w.o. no APDCL/CGM (COM & EE)/2019/ENERGY ACCOUNTING/ 46 dated 13-06-2023.The objective is to conduct energy audit of APDCL Distribution Network, energy flow, metering, billing and collection performance assessment based on data submitted for study. The approval and methodology are as mentioned below

1) Kick off Meeting (Pre-Audit Phase)

- Introduction of stakeholders with Audit Team.
- Sharing contact details of team members and identify the lead managers (Energy Manager/Nodal officer) for the audit.

- Sharing details regarding project in respect of BEE PAT Scheme.
- Discussion regarding approach of study.
- Over all project plan
- Identification of boundaries of audit.

2) Data collection for FY 2022-2023 (Audit Phase)

- Details of purchase of energy
- Details of subsidy
- Details for approved energy for sale by state regulatory commission
- Energy flow details and check
  i) Energy flow between transmission and 33 KV/11 KV incoming distribution feeders and Energy flow between 11KV outgoing and incoming of DTs.
  ii) Energy flow between DT and high voltage distribution system to end consumer including ring main system.
  iii) Energy flow between feeders to end consumers.
  iv) Energy flow between 33 KV/11 KV directly to consumers.
- Identification and mapping of network assets.
- Capacity-wise HT and LT Transformers
- HT & LT Energy meter
- Mapping of HT and LT Consumers including open access
- Mapping of type of meter and functionality status.
- System of generating energy account
- Verify the accuracy of data collected in consultation with nodal officer of the DISCOM company as per standard practices and validation of data compared to collected data and analysis with respect to
  i) consistency
  ii) recommendation to facilitate energy accounting
  iii) Assessment of energy conservation measures adopted by DISCOM

3) Preparation of energy audit report covering (Post Audit Phase))

- Power Input source at different voltage levels
- Total Input Energy
- LT & HT Distribution Network Configuration

- Metering Details, Type, Metered & Unmetered
- Record Keeping, Accountability, Monitoring & Verification Procedure
- T& D Losses
- Measures taken by DISCOM to improve transmission efficiency including prevention of theft.
- Impact of Solar Power generation and net metering.
- Input of stakeholders including substation level management personnel.

7.2.Methods of data collection

Sample check of meter installed in various sub-station were carried out during field visit of audit team. The problems regarding calculation of feeder-wise losses were observed. Loss assessments of bus bars along with power transformers at 11 KV substations were noted. Type of meters and its functional status were verified. Following data have been obtained for analysis. The analysis of energy audit is based on the information contained in the report as mentioned below

1) Performa for quarterly consumer category wise subsidy bill/received/Due for the period 2022-2023.
2) Abstract of BEE formulas FY 2022 – 23
3) Detailed collection efficiency up to Q4 , 2022 – 23 (As per formats)
4) General information sheet
5) Details of input infrastructure
6) A list of questionnaires given to APDCL regarding activities to be performed as per BEE norms and its possibility of fulfillment.
7) List of division-wise and category-wise loss assessment.
8) Notification of government regarding subsidy.
9) Division-wise loss assessment sheets.

7.3.Method of calculation of AT & C as per BEE book 3(Energy Efficiency in Electrical Utilities)

Some incorrectness have been observed in formula provided with Annexure of AT & C Calculation along with letter of CEA-GO-17 (11)/1/2018/ DP & R Dated 18-08-2018. Therefore, the methodology prescribed in BEE book 3 at page 27 has been adopted for calculation of Billing efficiency, collection efficiency and AT & C losses in consideration of arrears adjustment of Subsidy Realized against booked, prohibition for adjustment of revenue on account of unbilled revenue in addendum Annexure A with above Letter and clarification given regarding non-

subsidized arrears exclusion in national power portal glossary at Google site. The comment on incorrectness in formula has been pointed out in separate sheet enclosed at Annexure 11.16

7.4.Analysis of Data Collected for Determining of Billing and collection efficiency

Sr No.	Description	Symbol	Value
1.	Input Energy = (Import – Export) MU	Ei	10985.265 MU
2.a)	Energy Billed (Metered) MU	E1	9136.24 MU
2.b)	Energy Billed (Un Metered) MU	E2	0
2.c)	Total Energy Unit Billed (E1+E2)	Eb	9136.24 MU
3.	Amount Billed (Rs Cr)	Ab	7854.83 CR
4.	Gross amount Collected Ag = (As+Ans)	Ag	7744.143 Cr
4.a)	Subsidy Amount Billed	As	259.934 Cr
4.b)	Non Subsidy Amount Billed	Ans	7594.89 Cr
5.	Arrears Collected (Rs Cr) Ars+Arns	Ar	0 Cr
5.a)	Subsidy Arrears	Ars	259.934 Cr
5.b)	Non-Subsidy Arrears (Debtors amount adjusted at closing of 2022-23)	Arns	0 Cr
6.	Total Amount collected without arrears	Ac	7744.143 Cr
6.a)	Amount of subsidy without arrears	Acs	259.934 Cr
6.b)	Non subsidy Amount collected without arrears	Acns= Ac-Acs	7484.21Cr
7.	Billing Efficiency	BE = (Eb/Ei) X 100	83.16%
8.	Collection efficiency for nonsubsidised amount of bill	(7484.21) X 100/(7594.89)	98.54 %
8.a)	Collection efficiency for subsidy amount of bill	(259.934) X 100/259.934	100 %
8.b)	Weightage average of Subsidy collection efficiency and non-Subsidy collection efficiency	CE = (100X259.934+98. 7484.21) /7744.143 =98.58	98.58%
10.	{1 - (BEXCE} X 100	(1 -0.8316 X 0.9858) X 100 = (1-0.8199) X 100 =0.18021	18.021%
11.	AT&C Loss		18.021%
12.	T&D Loss from 33 KV to consumer end	100 - BE	16.84%

Note: - Debtors amount adjusted at closing of FY 2022-23 is nil and debtor value has increased from opening value of Debtors. Annexure 11.10 under column 15. Non subsidy Amount collected without arrears are 7484.21 Cr (has been calculated in separate sheet at annexure 11.)

8. Performance Assessment of APDCL

8.1.Performance Assessment

Following comes under the infrastructure of APDCL (**reference 5.1 Details of Input infrastructure**)

i) Feeders (33 KV and 11 KV)

Reference - 11.13. Circle-wise basic infrastructure

No of Feeders	Voltage level	Total line Length	Average Length per Feeder	Remarks
635	33 KV	9782.86 KM	15.4 KM	Appropriate Length
1997	11 KV	99082.75 KM ()	49.615 KM	Abnormal

ii) Meters %voltage wise (For Consumers)

Meter category	Types of Meter	Voltage Level 132 KV	132KV% of meter	33 KV %	11 KV %	LT%
Non communicable	Non communicable	-	-	-		83.18
Communicable	AMR Meter		100	50	100	0.029
	Smart Meter (Non Prepaid)	-	-	-		8.4
	Smart Meter (Prepaid)	-	-	-	-	7.91
	Non Smart Prepaid	-	-	50		0.54
Unmetered	Unmetered	-	-	-	-	0

Among LT meters 83.18% are non-communicable and 16.88% are Communicable meter. So APDCL seems unsuccessful in providing AMR and communicable meters to all consumers. In 11 KV Consumers, 100% meters are communicable.

iii) Feeder Meters

Voltage in KV	Nos of Feeder	Nos of non-communicable meter	Nos of non-communicable meter %	Communicable Meter	Unmetered (nos)	Unmetered %	Remarks
33	635	590	92.91%	0	45	7.09%	Since one end is metered
11	1997	1770	88.63%	0	227	11.37%	Since one end is metered

Comment: **APDCL must provide metering in both ends of the lines in order to asses Line Losses of each line.**

iv) Transformer Meter

Voltage	No of Transformers	No of communicable Meter	%	Non Communicable	%	Unmetered	%
		-	-	0	0	0	-
33 KV/ 11KV	894	894	100	-	-	-	-
11 KV/ 0.415 KV	105291	-	-	42907	40.75	62384	59.25

Note: 10MVA(189nos),8MVA(1nos),5MVA(587nos),3.16MVA(27nos)and 2.5MVA(66nos)

Comment: **Distribution Transformers are 59.25% unmetered. So, it is not possible to calculate line loss as per BEE guidelines. In case of transformers only one side of transformer are metered. So, loss calculation of each transformer is not possible. APDCL has to install AMR meters in unmetered DTs, Feeders, and Transformers in order to comply the guidelines of BEE.**

v) RPO (Renewable purchase obligation)

Provisions for RPO

1). The energy from the Large Hydropower Projects (LHPs) including Pump Storage Project (PSPs) having capacity more than 25 MW and commissioned after 8th march 2019 will be considered as RPO, notified nomenclature as HPO.

2). From FY 20222-23 onwards the energy from all Hydropower Projects (HPPs) will be considered as part of RPO. All other HPPs will be considered as part of RPO under category of 'Other RPO'

RPO Trajectory for the period 2021 – 22 to 2029 – 30

Year	Wind RPO in %	HPO in %	Other RPO in %	Total RPO in %
2022-23	**0.81**	**0.35**	**23.44**	**24.61**
2023-24	1.60	0.66	24.81	27.08
2024-25	2.46	1.08	26.37	29.91
2025-26	3.36	1.48	28.17	33.01
2026-27	4.29	1.80	29.86	35.95
2027-28	5.23	2.15	31.43	38.81
2028-29	6.16	2.51	32.69	41.36
2029-30	6.94	2.82	33.57	43.39

A) Wind RPO shall be met only by energy produced from wind power projects(WPPs) commissioned after 31st march 2022.
B) HPO shall be met only by energy produced from LHP (including PSPs), commissioned after 8th March 2019.
C) Other RPO – may be met by energy produced from any RE power project not mentioned in A) and B) above.
D) From FY 2022-23 onwards the energy from all hydro projects will be consider under category of "other RPO"
E) Any shortfall remaining in achievement of other RPO category in a particular year can be met with either the excess energy consumed beyond Wind RPO for that year. Similarly shortfall in achievement of wind RPO in a particular year can be met with excess energy consumed from hydro power plants which is in excess of HPO for that year and vice versa.

Now APDCL after the inclusion of all the existing hydro energy from state share of central project as category 'Other RPO' will be considered under RPO. The annual consumption is 9136.24 MU. Excess energy of any category of RE will be considered for fulfillment of other category obligation.

Energy	Wind RPO 0.81 % of total consumption	HPO in 0.35% of total consumption	Other RPO 23.44% of total consumption	Total RPO 24.61% of total consumption
Required energy in MU	0.81 X 9136.24 = 74.0 MU	0.35 X 9136.24 = 31.97 MU	23.44 X 9136.24 = 2141.53 MU	24.61 X 9136.24 = 2249.50 MU
Available Energy in MU	249.62	Nil	270.16 (Solar) + 470.85 (Hydro) = 741.01 MU	990.63 MU
Shortfall of RPO in MU				1258.87

There is a shortfall of 1258.87 MU (55.96%) in fulfilling the RPO requirement**. Reference - 11.7. Energy Accounting Provisional 2022-23**

vi) Technical Setup for online monitoring

Most of the meters are non communicable (92.91%) and 7.09% are unmetered. So, infrastructure for online monitoring is missing the basic requirement of online monitoring. It is required to have AMR meters installed at different voltage level to facilitate verification of energy flow over the distribution network. (**Reference - 5.1 Form-Details of Input Infrastructure**)

i. Energy flow between Transmission and 33 KV/11 KV incoming distribution feeders.

ii. Energy flow between Transmission and 33 KV/11 KV outgoing and 11 KV/ incoming feeders.

iii. Energy flow between 11 KV / feeders and distribution transformers or high voltage distribution system.

iv. Energy flow between DT and high voltage distribution system to end consumer including ring main system.

v. Energy flow between feeder to end consumer

vi. Energy flow between 33 KV/11 KV directly to consumers.

Therefore, it is mandatory to have all the meters of AMR type or communicating type. All the consumers should be tagged to feeding DT (in LT Category) or feeders in case directly fed at higher voltage to other industrial category. DT to be tagged with feeders. Feeders are to be tagged with power transformers. Power transformers to be tagged with incoming Sub-transmission lines.

Incoming line energy meters are to be tagged with Grid Substation. APDCL have to make elaborate arrangement of online monitoring in order to be aligned with BEE norms.

vii) Reactive Power Management

Reactive power requirement by industrial consumer has to be made by installation of capacitor bank at the load point. Further requirement of reactive power to other category is being met by installing capacitor bank in the bus (with Local control and remote control facility). Therefore, it is good to avoid reactive power transportation from high voltage side. APDCL has voltage variation at some buses, about 8%.

The bus losses including power transformer (33kv/11 KV) is varying between 1.5% to 2.75%. This shows that there is wide variation of load during 24 hours.

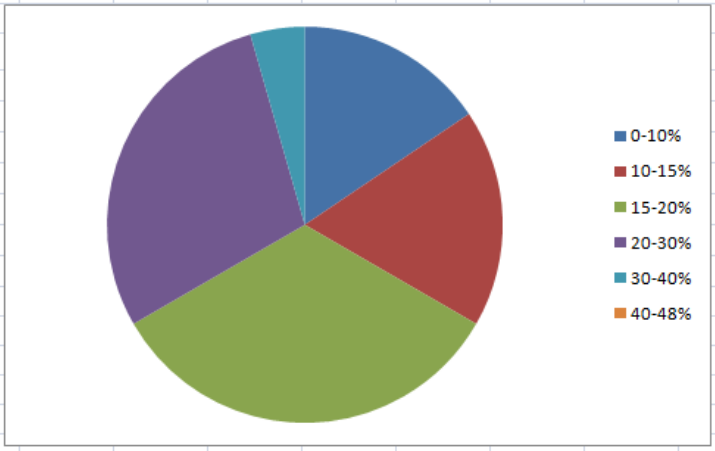
8.2.Loss % Circle-wise

	Loss Percentage (in %)							
	Name of Circle	Numbers of Division	0-10	10-15	15-20	20-30	30-40	40-48
	BADARPUR	2				1	1	
	BARPETA	2			2			
	BONGAIGAON	2			1	1		
	CACHAR	2		1		1		
	DIBRUGARH	2		1	1			
	Ghy EC-I	4	4					
	Ghy EC-II	2	1	1				
	Golaghat	1			1			
	JORHAT	3		1	2			
	KANCH	3		1		1	1	
	KOKRAJHAR	2			1	1		
	MANGALDOI	2		2				
	MORIGAON	2		1		1		
	N. LAKHIMPUR	3			1	2		
	NAGAON	3			1	2		
	RANGIA	2	1		1			
	SIVASAGAR	3	1	1	1			
	TEZPUR	3	1		1	1		
	Tinsukia EC	2		1		1		
Total	19	45			9	14	7	2
Total nos of Substations	0	0						

8.3.Graph of Losses

Loss Range

0-10%	7
10-15%	8
15-20%	15
20-30%	13
30-40%	2
40-48%	0



Maximum loss in Howraghat Divsion in Kanch circle and Hailakandi Division in BADARPUR circle has been observed as 31%.

8.4.Energy Audit Findings

As per discussion with energy manager the average maximum demand of system is around 2000 MW against thee connected load of 9888 MW. The transformation capacity of power transformer is (33 KV/11 KV) is 5143.32 MW. The distribution transformers capacity to cater consumers is estimated for 196567 numbers of DTs (105291 installed by APDCL and remaining by group consumers) as 98283 MVA @ 50 KVA per transformer. The 33 KV lines capacities to transmit power is estimated to be 10180 MW and the estimated capacity of 11 KV lines is approximately 8650 MW.

So, present load factor with respect to connected load stands as 2000 X 100 / 9888 = 20.22%. Therefore the reserve capacity of network for future growth is sufficient. **There is a need of bus bar changing in order to improve energy saving.**

The team formation comprising of technical and account personnel at the apex level for the energy accounting and audit cell is required. The RDSS schemes are under process of implementation.

The arrears of previous years have been excluded from the total collection for calculation of current collection efficiency. No adjustment towards theft and short assessment has been found.

The voltage unbalance is observed in some substations. So there is a possibility of current imbalance in 3 Phases. So load balancing of three phases should be done by shifting of loads appropriately.

The 11 KV and 33 KV lines passes through the terrain of trees and forest. So there is a possibility of leakage current resulting in to loss of energy. So Aerial bunch conductors may utilized as maximum as possible.

The maintenance of power sub-stations and lines need special attention. Since lines passes through trees and forest transient faults may happen frequently. So Auto-recloser in 33 KV lines may be recommended.

APDCL has tremendous potential to take up energy conservation measures under recommendation (Action Plan).

9. Recommendations (Action Plan)

1. Replacement of conventional meter with the communicable meters.
2. Installation of communicable meter in the end user consumers premises (100% metering).
3. Ensure Communicable Meters (AMR) at the input of DT (Receiving end of 11 KV Feeders).
4. Install Communicable Meters (AMR) in the outgoing 11 KV Feeders.
5. Install Communicable Meters (AMR) at the receiving end of Sub-transmission lines.
6. Zone-wise Data Center should be formed.
7. Focus should be on adding more Solar Power in the network at 11 KV and net metering growth in future.
8. Maintain separate Energy Account like billing, collection under head subsidized and nonsubsidized to make the calculation simple and reflecting respective efficiency.
9. Energy recording of meter should be time synchronized. This could be possible only with communicable meters, in which energy recording is time stamped by GPS clock inbuilt system. So manual recording and non communicable meters may not be useful to prepare loss account of various feeders (, 33 KV & 11 KV) and DTs.
10. In order to match the total consumption by end user consumers with DT, there must be tagging of consumers with feeding DTs. Again DTs must be tagged with 11 KV feeders. 11 KV Feeders must be tagged with Power Transformers. Power Transformers must be tagged with 33 KV sub-Transmission lines. Each line must be tagged with Grid Sub Station. Such arrangements required to comply the BEE norms of Network monitoring at various voltage levels and Feeder-wise.
11. Particularly in industrial loads, observe Load Profile. If there is variation in load of induction motor, insist them to install VFD (Variable Frequency Drive) to reduce consumption of Power
12. In agriculture, most of the pumps are inefficient and consume excess power. So VFD in Pump or replacement of inefficient pump should be encouraged.

13. The use of energy efficient fans, centrifugal pump and induction motors for saving of energy must be promoted in the fashion like LED bulb distribution was made by DISCOM to the consumers under massive campaign.

14. Ensure 100% Metering of Agriculture consumers (1382434 Non Metered). In case of no subsidy, the metering of used energy by individual consumer will be mandatory for preparation of actual energy bill.

15. Maximum loss making area of Howraghat division under Kanch circle and hailakandi division under Baderpur circle need special attention to control loss of energy by use of Aerial bunch/covered conductor to avoid leakage of energy through contact of large numbers of trees in route.

16. Mission for providing meter connection through camp campaign should be started in order to avoid theft by illegal persons.

17. Ensure use of star rated pumps used in agriculture by farmers.

18. Ensure use of distribution transformers having core of amorphous material in place of traditional core of silicon alloyed iron core. This will save 70 % of core loss.

19. Use star rated distribution transformers under standard and labeling program.

20. Opting use of lower resistance All Aluminum Alloy Conductors (AAAC) in place of conventional cored steel Reinforced (ACSR) lines.

21. Minimize Losses due to weak links in network such as jumpers, loose contacts and brittle conductors.

22. Commercial losses are reported due to meter reading problems. Meter reading is deprived on account of locked premises, untraceable consumers, stock/defective meters and temporary disconnected consumer. So meter should be placed outside the premise at the nearest pole. This will also help in check of theft by meter bypassing or tampering of meters.

23. Theft prone area and maximum loss of energy area must be on the radar of vigilance squad.

Contents

11. Annexure

11.1. Annexure -1- Division-wise Loss for 2022-23

Details of Division Wise Losses (See note below**)																				
Division Wise Losses																				
S. No	Name of circle	Circle code	Name of Division	Period From….To….																
				Consumer profile									Energy parameters					Losses		Commercial Parameter			AT & Closs (%)
				Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)	% of number of connections	Connected Load metered (MW)	Connected Load Un-metered (MW)	Total Connected Load (MW)	% of connected load	Input energy (MU)	Billed energy (MU)			% of energy consumption	T & D loss (MU)	T & D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency	
														Metered energy	Unmetered/assessment energy	Total energy							
1	BADARPUR		Hailakandi Division	Residential	131210	29630	160840	93%	84.4792	17.3484	101.828	70%	194.9929	67.6845	25.1708	92.8553	69%	60.1708	31%	70.29	57.00003	81.09%	
				Agricultural	299	7	306	0%	1.20115	0.04331	1.24425	1%		0.17632	0.01838	0.19947	0%			0.17447	0.13424	76.94%	
				Comme	777	723	850	5%	15.	1.1	17.	12		14	2.43695	17	13%			16	17.	10	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				rcial/Industrial-LT	9		2		9116	8821	0998	%		.5969		.03339				.72511	2657	3.23%	
				Commercial/Industrial-HT	54	2	56	0%	12.7163	0.061604	12.7773	9%		11.6838	0.54373	12.22755	9%			12.11893	11.51526	94.45%	
				Others	3072	506	3578	2%	10.9826	1.578001	12.5606	9%		6.116662	6.32967	12.44633	9%			11.6601	10.3835	89.51%	
Sub-total					**142414**	**30868**	**173282**	**100%**	**125.291**	**20.2187**	**145.509**	**100%**	**194.929**	**100.258**	**34.4996**	**134.7588**	**100%**	**60.1708**	**31%**	**110.98**	**96.2963**	**86.77%**	**40%**
2	BADARPUR		Karimganj Division	Residential	142668	28492	171160	92%	107.464	16.0856	123.549	70%	285.456	102.864	31.3194	134.184	61%	65.9125	23%	101.417	93.99923	92.68%	
				Agricultural	171	2	173	0%	0.64591	0.006	0.65191	0%		0.214994	0.00991	0.224885	0%			0.18243	0.11	60.30%	
				Commercial/Industrial-LT	10298	824	11122	6%	21.5496	1.292771	22.8423	13%		20.6871	3.09957	23.78666	11%			23.4963	24.1314	102.70%	
				Commercial/Industrial-HT	104	2	106	0%	16.9445	0.127	17.0715	10%		46.8712	0.06977	46.941	21%			39.5207	70.6776	178.84%	
				Others	338	622	400	2%	10.	1.8	12.	7%		10	4.13493	14	7%			14	13.	96.	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
					4		6		3907	919	2826			.2725		.4074				.0442	5863	74%	
Sub-total					**156625**	**29942**	**186567**	**100%**	**156.995**	**19.4032**	**176.398**	**10 0%**	**285.456**	**180.91**	**38.6336**	**219.544**	**100%**	**65.9125**	**23%**	**178.66**	**202.498**	**113.34%**	**13%**
3	BARPETA		Barpeta Division	Residential	247946	39151	287097	93%	192.137	21.8767	214.014	67%	330.63	141.624	34.495	176.119	66%	63.8039	19%	128.618	123.933	96.36%	
				Agricultural	784	44	828	0%	3.959 68	0.459 64	4.419 32	1%		0.513 377	0.21319	0.726 96	0%			0.815 76	0.769 63	94.35%	
				Commercial/Industrial-LT	15062	771	15833	5%	48.35 75	2.584 85	50.94 23	16%		36.68	3.9883	40.668 3	15%			39.356 3	39.299 94	99.86%	
				Commercial/Industrial-HT	155	3	158	0%	16.72 21	0.093	16.815 1	5%		20.410 2	0.1019	20.512 1	8%			19.756	19.797 48	100.20%	
				Others	4829	529	5358	2%	31.39 08	1.117	32.507 8	10%		26.970 4	1.82929	28.799 7	11%			28.001 9	27.435 3	97.98%	
Sub-total					**268776**	**40498**	**309274**	**100%**	**292.567**	**26.1312**	**318.698**	**10 0%**	**330.63**	**226.198**	**40.6277**	**266.826**	**100%**	**63.8039**	**19%**	**216.548**	**211.232**	**97.55%**	**21%**
4	BARP		Pat	Residen	152	285	181	93	10	15.	12	70	18	77	27.037	10	71%	36	2	76	74.	96.	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
	ETA		shala Division	tial	531	63	094	%	9.848	622	5.47	%	2.223	.0931		4.13		.2281	0%	.58007	0032	63%	
				Agricultural	299	17	316	0%	2.813136	0.088	2.901136	2%		0.206685	0.0302	0.2370 5	0%			0.39348	0.407 12	103.47%	
				Commercial/Industrial-LT	7209	572	7781	4%	23.2627	1.783356	25.0463	14%		19.1894	2.81434	22.0037	15%			21.275	22.1939	104.32%	
				Commercial/Industrial-HT	94	2	96	0%	13.2441	0.062	13.3061	7%		12.41	0.05816	12.4682	9%			13.2913	13.3496	100.44%	
				Others	5570	364	5934	3%	11.4083	1.111 68	12.5199	7%		5.341115	1.81455	7.1557	5%			7.982 55	6.270 74	78.56%	
Sub-total					**165703**	**29518**	**195221**	**100%**	**160.577**	**18.6672**	**179.244**	**100%**	**182.223**	**114.24**	**31.7542**	**145.995**	**100%**	**36.2281**	**20%**	**119.523**	**116.225**	**97.24%**	**22%**
5	BONGAIGAON		Bongaigaon Division	Residential	197498	32874	230372	92%	164.978	17.7146	182.693	64%	313.982	108.413	32.2465	140.66	53%	49.9226	16%	106.005	103.085	97.25%	
				Agricultural	1251	63	1314	1%	2.731 44	0.110 24	2.8416 8	1%		0.56718	0.07143	0.63861	0%			0.6460 1	0.5170 6	80.04%	
				Comme	125	508	130	5%	38.	1.7	40.	14		29	3.40271	33	13%			33	33.	99.	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																							
				rcial/Industrial-LT	05		13		4881	6477	2528	%		.8551		.2578				.2936	1699	63%	
				Commercial/Industrial-HT	215	3	218	0%	30.7351	1.5504	32.2391	11%		53.0902	0.15255	53.2428	20%			53.0793	53.2022	10 0.23%	
				Others	3918	364	4282	2%	26.5896	1.2 3805	27.8276	10%		32.8308	3.42914	36.26	14%			34.8369	35.7299	10 2.56%	
Sub-total					**215 387**	**338 12**	**249 199**	**100%**	**26 3.523**	**22.33 17**	**28 5.854**	**10 0%**	**31 3.982**	**22 4.757**	**39.3023**	**26 4.059**	**100%**	**49 .9 22 6**	**1 6%**	**22 7.861**	**22 5.704**	**99. 05%**	**1 7%**
6	BONGAIGAON		Goalpara Division	Residential	213730	64901	278631	94%	140.06	34.5444	174.605	71%	337.136	109.908	59.0607	168.969	72%	101.154	30%	126.249	103.338	81.85%	
				Agricultural	2490	1251	3741	1%	5.89043	2.1 2632	8.0 1675	3%		1.27274	1.25299	2.52574	1%			2.38388	1.89739	79.59%	
				Commercial/Industrial-LT	9969	949	10918	4%	32.5644	2.0 8857	34.653	14%		28.1654	3.30017	31.4656	13%			30.0326	31.8864	10 6.17%	
				Commercial/Industrial-HT	107	1	108	0%	14.3018	0.029	14.3308	6%		17.9493	0.05147	18.0008	8%			16.9646	16.3266	96.24%	
				Others	401	576	458	2%	13.	1.5	14.	6%		10	4.98611	15	6%			14	12.	86.	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
					2		8		02 58	88 55	61 43			.0 354		.0 215				.8 99	84 09	19 %	
Sub-total					**230 308**	**676 78**	**297 986**	**100 %**	**20 5.8 43**	**40. 37 68**	**24 6.2 19**	**10 0%**	**33 7. 13 6**	**16 7. 33 1**	**68.651 4**	**23 5. 98 2**	**100 %**	**10 1. 15 4**	**3 0 %**	**19 0. 52 9**	**16 6.2 89**	**87. 28 %**	**3 9 %**
7	CACH AR		Silc har -I Divi sio n	Residen tial	151 983	216 14	173 597	90 %	15 8.6 56	10. 95 25	16 9.6 08	61 %	33 9. 93 6	14 2. 07 5	20.323	16 2. 39 8	57%	52 .6 49 7	1 5 %	12 2. 16 8	11 4.7 98	93. 97 %	
				Agricult ural	424	10	434	0%	2.2 92 13	0.2 90 58	2.5 82 71	1%		1. 35 86 6	0.10411	1. 46 27 7	1%			1. 13 61 8	1.1 07 01	97. 43 %	
				Comme rcial/Ind ustrial- LT	141 76	759	149 35	8%	36. 40 51	1.3 85 32	37. 79 05	14 %		33 .5 51 2	2.37933	35 .9 30 6	13%			36 .3 88 1	38. 10 28	10 4.7 1%	
				Comme rcial/Ind ustrial- HT	266	9	275	0%	43. 64 83	0.4 60 34	44. 10 87	16 %		45 .5 4	0.60246	46 .1 42 5	16%			45 .6 42 2	45. 96 05	10 0.7 0%	
				Others	339 9	416	381 5	2%	22. 11 51	2.7 42 21	24. 85 73	9%		34 .1 39	7.21339	41 .3 52 4	14%			37 .2 86 5	36. 12 21	96. 88 %	
Sub-total					**170 248**	**228 08**	**193 056**	**100 %**	**26 3.1 17**	**15. 83 1**	**27 8.9 48**	**10 0%**	**33 9. 93 6**	**25 6. 66 4**	**30.622 3**	**28 7. 28 7**	**100 %**	**52 .6 49 7**	**1 5 %**	**24 2. 62 1**	**23 6.0 9**	**97. 31 %**	**1 8 %**
8	CACH		Silc	Residen	124	271	151	92	83.	16.	99.	57	20	56	22.7075	79	50%	42	2	59	54.	91.	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
	AR		har-II Division	tial	628	05	733	%	0941	5746	6687	%	0.51	.6896		.39711		.1412	1%	.8578	9676	83%	
				Agricultural	339	4	343	0%	1.408 73	0.012	1.420 73	1%		0.20632	0.00354	0.20986	0%			0.21 34	0.14 437	67.65%	
				Commercial/Industrial-LT	7049	734	7783	5%	15.49 06	1.288 64	16.77 92	10%		12.6695	2.3339	15.0034	9%			15.253	15.66 96	102.73%	
				Commercial/Industrial-HT	143	8	151	0%	41.658	0.688 06	42.34 61	24%		44.7627	0.5564	45.3191	29%			43.0576	44.16 13	102.56%	
				Others	3536	496	4032	2%	11.61 28	1.977 34	13.59 01	8%		13.3354	5.1037	18.4391	12%			16.5185	15.86 64	96.05%	
Sub-total					**135695**	**28347**	**164042**	**100%**	**153.264**	**20.5406**	**173.805**	**100%**	**200.51**	**127.664**	**30.705**	**158.369**	**100%**	**42.1412**	**21%**	**134.9**	**130.809**	**96.97%**	**23%**
9	DIBRUGARH		Dibrugarh Division	Residential	88559	10050	98609	91%	128.836	7.427 37	136.263	48%	257.573	86.4039	7.25425	93.6581	42%	36.1903	14%	72.1421	71.15 89	98.64%	
				Agricultural	47	4	51	0%	0.741 27	0.025	0.766 27	0%		0.08 45	0.00266	0.08716	0%			0.11824	0.184 17	155.76%	
				Comme	774	87	783	7%	25.	0.2	25.	9%		22	0.26635	22	10%			22	24.	10	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				rcial/Industrial-LT	7		4		4229	5326	6761			.0563		.3226				.50822	1565	7.32%	
				Commercial/Industrial-HT	357	0	357	0%	80.6337	0	80.6337	28%		66.1245	0.36898	66.4935	30%			66.8132	67.47465	100.99%	
				Others	1950	94	2044	2%	40.2871	0.293446	40.5805	14%		38.193	0.62836	38.8214	18%			38.7795	38.4397	99.12%	
Sub-total					**98660**	**10235**	**108895**	**100%**	**275.921**	**7.999909**	**283.92**	**100%**	**257.573**	**212.862**	**8.52059**	**221.383**	**100%**	**36.1903**	**14%**	**200.361**	**201.4416**	**100.53%**	**14%**
10	DIBRUGARH		Duliajan Division	Residential	99008	21268	120276	94%	93.1812	18.5084	111.69	54%	200.068	53.5893	19.5281	73.1174	45%	36.301	18%	57.8935	54.2927	93.78%	
				Agricultural	131	23	154	0%	1.0092	0.1886	1.1952	1%		0.25773	0.13779	0.395099	0%			0.329066	0.327228	99.46%	
				Commercial/Industrial-LT	5434	295	5729	4%	17.1268	0.721554	17.8484	9%		13.9808	1.25367	15.2345	9%			15.0374	15.0479	100.07%	
				Commercial/Industrial-HT	198	3	201	0%	69.0611	0.648	69.7091	34%		69.1026	0.44082	69.5434	42%			65.5905	66.1945	100.92%	
				Others	207	165	224	2%	6.3	0.5	6.9	3%		3.	1.80636	5.	3%			5.	5.5	96.	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
					5		0		7255	5236	2491			67032		47668				75256	5021	48%	
Sub-total					**106846**	**21754**	**128600**	**100%**	**186.751**	**20.6163**	**207.367**	**10 0%**	**200.068**	**140.6**	**23.1667**	**163.767**	**100%**	**36.301**	**18%**	**144.603**	**141.413**	**97.79%**	**20%**
11	Ghy EC-I		GED Central	Residential	44655	119	44774	75%	223.552	0.728211	224.28	53%	336.859	145.63	0.58888	146.218	45%	9.56497	3%	124.061	125.3378	101.06%	
				Agricultural	0	0	0	0%	0	0	0	0%		0	0	0	0%			5.5E-05	0	0.00%	
				Commercial/Industrial-LT	13247	38	13285	22%	71.7408	0.25558	71.9966	17%		54.9022	0.38301	55.2853	17%			56.7534	60.33378	106.32%	
				Commercial/Industrial-HT	736	15	751	1%	76.8319	1.8812	78.6439	19%		66.89	1.03975	67.9298	21%			76.6295	76.41887	99.72%	
				Others	1066	23	1089	2%	38.7988	5.676767	44.4755	11%		50.5307	7.32951	57.8602	18%			59.3682	50.47761	85.02%	
Sub-total					**59704**	**195**	**59899**	**100%**	**410.924**	**8.472258**	**419.396**	**10 0%**	**336.859**	**317.953**	**9.34116**	**327.294**	**100%**	**9.56497**	**3%**	**316.813**	**312.61**	**98.67%**	**4%**
1	Ghy		GE	Residen	679	228	681	87	29	0.9	29	67	35	17	1.10965	17	53%	19	5	15	15	99.	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
2	EC-I		D East	tial	47		75	%	8.577	6926	9.547	%	7.558	7.312		8.422		.2609	%	2.873	2.5558	79%	
				Agricultural	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
				Commercial/Industrial-LT	8673	58	8731	11%	49.2567	0.42472	49.6814	11%		44.1297	0.44967	44.5794	13%			44.6645	46.1074	103.28%	
				Commercial/Industrial-HT	464	6	470	1%	73.7576	1.634	75.3916	17%		79.5029	0.25363	79.7566	24%			82.5401	84.1112	101.90%	
				Others	936	124	1060	1%	18.0564	3.64282	21.6992	5%		29.3373	6.20216	35.5395	11%			38.1018	39.8972	104.71%	
Sub-total					**78020**	**416**	**78436**	**100%**	**439.648**	**6.6708**	**446.319**	**10 0%**	**357.558**	**330.282**	**8.01511**	**338.297**	**100%**	**19.2609**	**5%**	**318.16**	**322.674**	**101.42%**	**4%**
13	Ghy EC-I		GED North	Residential	53126	205	53331	89%	166.872	0.36512	167.237	60%	277.208	106.676	1.51647	108.192	42%	17.9836	6%	87.858	92.3214	105.08%	
				Agricultural	1	0	1	0%	0.001	0	0.001	0%		4.5E-05	0	4.5E-05	0%			8E-05	9.1E-05	113.28%	
				Commercial/Industrial-	5317	16	5333	9%	27.0861	0.11101	27.1971	10%		26.343	0.19626	26.539	10%			25.229	26.6578	105.66%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				LT										5		7				8		
				Commercial/Industrial-HT	284	6	290	0%	61.7477	0.5308	62.2785	23%		94.5854	0.31156	94.8897	37%			87.0954	88.8558	102.02%
				Others	1194	15	1209	2%	18.8741	0.98175	19.8559	7%		27.0398	2.556	29.5958	11%			27.2786	29.1821	106.98%
Sub-total					**59922**	**242**	**60164**	**100%**	**274.581**	**1.98868**	**276.57**	**100%**	**277.208**	**254.644**	**4.58028**	**259.225**	**100%**	**17.9836**	**6%**	**227.462**	**237.017**	**104.20%**	**3%**
14	Ghy EC-I		GED South	Residential	79730	2128	81858	88%	309.888	3.25889	313.147	58%	524.222	186.62	4.02731	190.648	39%	35.9931	7%	159.367	162.685	102.08%
				Agricultural	78	5	83	0%	0.61596	0.0081	0.69696	0%		0.091152	0.11167	0.203319	0%			0.182231	0.193671	106.26%
				Commercial/Industrial-LT	8542	195	8737	9%	47.4161	1.02916	48.4452	9%		47.8568	1.49727	49.3541	10%			48.738	50.1328	102.86%
				Commercial/Industrial-HT	612	10	622	1%	143.024	0.6004	143.628	27%		209.886	1.97327	211.859	43%			199.357	194.294	97.46%
				Others	1215	106	1321	1%	32.061	0.72583	32.7868	6%		33.607	2.55754	36.165	7%			37.313	38.4218	102.97%

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
														5					2			
Sub-total					**90177**	**2444**	**92621**	**100%**	**533.005**	**5.69888**	**538.704**	**10 0%**	**524.222**	**478.062**	**10.1671**	**488.229**	**100%**	**35.9931**	**7%**	**444.957**	**445.728**	**10 0.17%**	**7%**
15	Ghy EC-II		GED West	Residential	111908	12784	124692	90%	144.597	7.208 75	151.806	35%	637.033	120.567	16.1695	136.736	23%	53.6924	8%	102.596	103.278	100.66%	
				Agricultural	1190	190	1380	1%	4.043 11	0.378 12	4.421 23	1%		0.80988	0.20021	1.01009	0%			0.98627	0.79654	80.76%	
				Commercial/Industrial-LT	8435	203	8638	6%	33.333 17	0.576	33.907 77	8%		31.644	1.02532	32.694	6%			31.585	32.9787	104.41%	
				Commercial/Industrial-HT	668	3	671	0%	190.145	0.206	190.351	44%		311.381	1.65238	313.033	54%			278.29	276.679	99.42%	
				Others	2514	216	2730	2%	46.7255	1.743 08	48.4686	11%		95.6936	4.19781	99.8914	17%			89.2031	91.5169	102.59%	
Sub-total					**124715**	**13396**	**138111**	**100%**	**418.843**	**10.112**	**428.955**	**10 0%**	**637.033**	**560.095**	**23.2452**	**583.334**	**100%**	**53.6924**	**8%**	**502.661**	**505.25**	**10 0.52%**	**8%**
16	Ghy EC-II		Mirza Divi	Residential	163163	30158	193321	92%	162.568	19.1972	181.766	50%	491.17	114.63	23.5341	138.16	33%	74.958	15%	104.83	102.409	97.68%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
			sion									5	1		5		2		7			
				Agricultural	2987	539	3526	2%	6.286 24	1.131 79	7.418 03	2%		1.91 949	0.61921	2.53 87	1%			2.44 079	2.273 5	93.15 %	
				Commercial/Industrial-LT	9927	449	103 76	5%	36.17 07	1.159 15	37.32 99	10 %		30.2 73	1.15976	31.4 328	8%			29.8 679	29.93 4	100.2 2%	
				Commercial/Industrial-HT	437	2	439	0%	11 9.83 4	0.228	12 0.0 62	33 %		21 4.56 3	0.79889	21 5.36 2	52%			18 7.67 6	18 6.99	99.63 %	
				Others	2544	344	2888	1%	17.19 02	1.347 5	18.53 77	5%		22.1 015	6.61767	28.7 192	7%			26.4 285	25.75 32	97.44 %	
Sub-total					**179 058**	**314 92**	**210 550**	**100 %**	**34 2.0 49**	**23.06 36**	**36 5.1 13**	**10 0%**	**49 1.17 5**	**38 3.48 8**	**32.729 6**	**41 6.21 7**	**100 %**	**74 .9 582**	**1 5 %**	**35 1.25**	**34 7.3 6**	**98.89 %**	**1 6 %**
17	Golaghat		Golaghat Division	Residential	160 764	541 99	214 963	93 %	13 9.6 56	29.29 51	16 8.9 51	58 %	325.759	10 0.08 8	42.2534	14 2.34 1	55%	64 .6 18	2 0 %	11 1.53 4	99.37 95	89.10 %	
				Agricultural	930	232	116 2	1%	2.6 29 84	1.4 47 41	4.0 77 25	1%		0.79 596	1.23949	2.03 544	1%			1.71 263	2.07 495	121.16%	
				Commercial/Industrial-	914 3	731	987 4	4%	31.05 64	2.00 046	33.05 69	11 %		26.1 58	3.35003	29.5 08	11%			29.4 61	30.06 46	102.05%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				LT										5		5						
				Commercial/Industrial-HT	384	11	395	0%	69.0154	2.397	71.4124	24%		73.092	1.29518	74.3872	28%			72.4127	73.83306	101.96%
				Others	3716	679	4395	2%	12.4956	3.069	15.5646	5%		8.608666	4.26026	12.86889	5%			13.56055	14.99997	110.61%
Sub-total					**174937**	**55852**	**230789**	**100%**	**254.853**	**38.209**	**293.062**	**100%**	**325.759**	**208.743**	**52.3983**	**261.141**	**100%**	**64.618**	**20%**	**228.681**	**220.349**	**96.36%**	**23%**
18	JORHAT		Jorhat-I Division	Residential	87933	23723	111656	90%	183.74	14.5555	198.296	62%	283.231	107.578	18.678	126.256	50%	33.202	12%	96.9366	97.2285	100.36%
				Agricultural	161	53	214	0%	0.741436	0.689	1.430036	0%		0.230801	0.51771	0.748852	0%			0.558511	0.590985	105.79%
				Commercial/Industrial-LT	9064	335	9399	8%	37.7657	1.27932	39.045	12%		26.54992	2.40628	28.95554	12%			28.9584	30.8207	106.43%
				Commercial/Industrial-HT	343	2	345	0%	46.7266	0.0052	46.7786	15%		49.35988	0.55144	49.91112	20%			50.726	51.98553	102.48%
				Others	2321	366	2687	2%	34.3802	2.15522	36.5354	11%		39.2292	4.86521	44.157	18%			44.847	44.33361	98.86%

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
																2				5			
Sub-total					**99822**	**24479**	**124301**	**100%**	**303.354**	**18.731**	**322.085**	**10 0%**	**283.231**	**223.01**	**27.0186**	**250.028**	**100%**	**33.202**	**12%**	**222.027**	**225.018**	**101.35%**	**11%**
19	JORHAT		Jorhat-II Division	Residential	78012	28171	106183	93%	60.0662	14.7253	74.7916	57%	149.913	38.4636	18.4023	56.8659	47%	28.552	19%	44.77	41.7043	93.15%	
				Agricultural	901	97	998	1%	2.05437	0.41335	2.46787	2%		0.434477	0.13366	0.563843	0%			0.50368	0.39838	79.10%	
				Commercial/Industrial-LT	4638	348	4986	4%	15.5669	0.87264	16.4396	12%		11.9845	1.08746	13.072	11%			12.6927	13.4052	105.61%	
				Commercial/Industrial-HT	159	3	162	0%	28.6999	0.017	28.7169	22%		37.7233	0.27338	37.9967	31%			34.7888	35.2752	101.40%	
				Others	1628	265	1893	2%	8.02838	1.14172	9.17558	7%		9.551669	3.30665	12.8583	11%			12.1293	12.083	99.62%	
Sub-total					**85338**	**28884**	**114222**	**100%**	**114.416**	**17.1757**	**131.591**	**10 0%**	**149.913**	**98.1579**	**23.2035**	**121.361**	**100%**	**28.552**	**19%**	**104.884**	**102.866**	**98.08%**	**21%**
20	JORHAT		Teok Divi	Residential	34251	12430	46681	95%	29.6591	6.06456	35.7237	66%	61.433	19.707	8.41526	28.122	57%	12.480	20%	21.356	20.9461	98.08%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
			sion									3	2		4		9		1			
				Agricultural	27	25	52	0%	0.18173	0.92	1.10173	2%		-0.08336	1.05956	0.975593	2%		0.757793	0.805578	106.31%	
				Commercial/Industrial-LT	1303	88	1391	3%	5.109938	0.307003	5.416941	10%		4.18223	0.42556	4.607786	9%		4.584406	4.882771	105.32%	
				Commercial/Industrial-HT	61	1	62	0%	9.117276	0.012	9.184976	17%		11.8718	0.08623	11.958581	24%		10.940401	10.99909	100.46%	
				Others	638	96	734	2%	2.662769	0.452212	3.079781	6%		2.219908	1.06906	3.288813	7%		3.076022	3.481798	113.20%	
Sub-total					**36280**	**12640**	**48920**	**100%**	**46.75007**	**7.755771**	**54.50564**	**100%**	**61.4333**	**37.8968**	**11.0557**	**48.9524**	**100%**	**12.4809**	**20%**	**40.7142**	**41.05025**	**100.83%**	**20%**
21	KANCH		Diphu Division	Residential	84329	14483	98812	93%	73.74767	9.259888	83.00066	61%	186.455	49.56669	13.3748	62.94167	46%	48.6983	26%	48.90051	44.39976	90.78%	
				Agricultural	46	3	49	0%	0.877733	0.02	0.897733	1%		0.121209	0.02503	0.146122	0%		0.180227	0.194946	107.87%	
				Commercial/Industrial-	5461	276	5737	5%	14.94005	0.793982	15.73344	12%		13.537	1.57146	15.109	11%		14.966	15.01165	100.33%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				LT										7		1				5		
				Commercial/Industrial-HT	106	1	107	0%	23.4047	0.025	23.4297	17%		38.3725	0.19171	38.5642	28%			33.3762	34.1785	102.40%
				Others	1457	249	1706	2%	10.6243	1.34875	11.9731	9%		18.8185	2.17664	20.9952	15%			20.385	19.4832	95.58%
Sub-total					**91399**	**15012**	**106411**	**100%**	**123.594**	**11.4475**	**135.041**	**100%**	**186.455**	**120.417**	**17.3397**	**137.756**	**100%**	**48.6983**	**26%**	**117.813**	**113.27**	**96.14%**	**29%**
22	KANCH		Halflong Div	Residential	29197	4619	33816	93%	23.1455	3.05276	26.1983	47%	68.468	13.4419	2.40965	15.85155	26%	7.791211	11%	12.112	11.0159	90.95%
				Agricultural	1	0	1	0%	0.002	0	0.002	0%		0.000346	0	0.000346	0%			0.000193	0.000206	107.06%
				Commercial/Industrial-LT	1519	77	1596	4%	4.411191	0.325279	4.737377	9%		4.587716	0.63039	5.217755	9%			5.053306	5.039977	99.74%
				Commercial/Industrial-HT	24	0	24	0%	13.6716	0	13.6716	25%		26.7394	0.22837	26.9678	44%			23.5867	22.7106	96.29%
				Others	952	126	1078	3%	10.0179	1.098	11.1159	20%		11.140	1.49556	12.636	21%			13.148	13.6274	103.64%

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
														9		5				6			
Sub-total					**31693**	**4822**	**36515**	**100%**	**51.249**	**4.476455**	**55.72255**	**10 0%**	**68.468**	**55.9128**	**4.76397**	**60.6768**	**100%**	**7.791211**	**1 1%**	**53.9023**	**52.3958**	**97.21%**	**1 4%**
23	KANCH		Howraghat Div	Residential	74185	22467	96652	95%	41.6208	9.881836	51.50021	73%	89.8971	32.13088	14.8008	46.93166	76%	27.9022	31%	36.2772	30.8543	85.05%	
				Agricultural	443	36	479	0%	5.043445	0.188825	5.23167	7%		0.583839	0.32487	0.913266	1%			0.914886	0.860212	94.02%	
				Commercial/Industrial-LT	2805	325	3130	3%	8.634665	1.071729	9.705094	14%		8.266884	1.51377	9.780661	16%			9.127499	9.62933	105.50%	
				Commercial/Industrial-HT	8	0	8	0%	0.875564	0	0.875564	1%		0.565547	0	0.565547	1%			0.666966	0.71622	107.38%	
				Others	780	253	1033	1%	2.699908	0.989555	3.688863	5%		1.794788	2.00927	3.804044	6%			3.599972	3.588807	99.68%	
Sub-total					**78221**	**23081**	**101302**	**100%**	**58.8736**	**12.1305**	**71.0041**	**10 0%**	**89.8971**	**43.3463**	**18.6487**	**61.995**	**100%**	**27.9022**	**31%**	**50.5862**	**45.648**	**90.24%**	**3 8%**
24	KOKRAJHAR		Dhuburi	Residential	184016	57864	241880	93%	124.569	24.0826	148.651	70%	306.17	110.04	44.9315	154.97	70%	85.993	28%	115.10	98.8561	85.88%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
			Division									7	6		7		8		3			
				Agricultural	1107	339	1446	1%	4.309 86	0.72	5.029 86	2%		10.7535	0.5094	11.2629	5%			6.15578	6.035 95	98.05 %	
				Commercial/Industrial-LT	11072	596	11668	5%	34.133 33	2.058 19	36.191 15	17 %		25.4582	3.54282	29.001	13%			28.1732	28.935 55	102.71%	
				Commercial/Industrial-HT	94	5	99	0%	8.391 51	0.381	8.772 51	4%		8.81631	0.52205	9.33836	4%			9.38389	10.023 5	106.82%	
				Others	3591	505	4096	2%	13.036 2	1.500 14	14.536 4	7%		10.0792	5.52409	15.6033	7%			14.6996	15.235 8	103.65%	
Sub-total					**199880**	**59309**	**259189**	**100 %**	**184.44**	**28.742**	**213.181**	**100%**	**306.177**	**165.153**	**55.0298**	**220.183**	**100 %**	**85.9938**	**28 %**	**173.516**	**159.087**	**91.68 %**	**34 %**
25	KOKRAJHAR		Kokrajhar Division	Residential	169737	47265	217002	94 %	129.77	26.3732	156.143	69 %	258.117	88.285	41.5746	129.86	63%	51.358	20 %	97.3202	90.8203	93.32 %	
				Agricultural	491	288	779	0%	1.7497	0.5634	2.3931	1%		0.858273	0.32919	1.181192	1%			0.989443	0.7981 1	80.66 %	
				Commercial/Industrial-	9052	547	9599	4%	26.713 3	1.4307 2	28.144 1	12 %		22.237	3.30669	25.544	12%			25.010	25.2707	101.04%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																							
				LT										8		5				1			
				Commercial/Industrial-HT	118	3	121	0%	12.6916	0.09	12.7816	6%		11.9714	0.06552	12.0369	6%			12.8024	13.6904	106.94%	
				Others	3510	434	3944	2%	25.8564	1.56675	27.4231	12%		32.7991	5.33665	38.1358	18%			39.4385	40.0386	101.52%	
Sub-total					**182908**	**48537**	**231445**	**100%**	**196.806**	**30.025**	**226.831**	**100%**	**258.117**	**156.146**	**50.6126**	**206.759**	**100%**	**51.358**	**20%**	**175.561**	**170.618**	**97.18%**	**22%**
26	MANGALDOI		Mangaldoi Division	Residential	128546	33404	161950	93%	111.676	21.9212	133.597	67%	191.592	69.4415	28.0371	97.4786	63%	36.4516	19%	72.9623	65.6926	90.04%	
				Agricultural	431	101	532	0%	1.376 29	0.285	1.661 29	1%		0.34407	0.22078	0.56485	0%			0.46829	0.38775	82.80%	
				Commercial/Industrial-LT	9222	429	9651	6%	29.9467	1.114 76	31.0614	16%		21.3323	2.18534	23.5177	15%			22.944	23.3641	101.83%	
				Commercial/Industrial-HT	140	0	140	0%	18.9488	0	18.9488	10%		25.5514	0.06121	25.6126	17%			23.9341	24.329	101.65%	
				Others	2243	401	2644	2%	11.742	1.141 79	12.8838	7%		6.84 11	1.12585	7.9669	5%			9.1770	9.4754 7	103.25%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
																4				5			
Sub-total					**140582**	**34335**	**174917**	**100%**	**173.689**	**24.4628**	**198.152**	**100%**	**191.592**	**123.51**	**31.6303**	**155.141**	**100%**	**36.4516**	**19%**	**129.486**	**123.249**	**95.18%**	**23%**
27	MANGALDOI		Udalguri Division	Residential	122814	53007	175821	94%	90.5756	33.4213	123.997	66%	189.436	49.7971	36.8775	86.6746	56%	33.8678	18%	67.2181	61.2478	91.12%	
				Agricultural	622	251	873	0%	1.351773	0.42922	1.780093	1%		0.406118	0.28483	0.691011	0%			0.566568	0.474776	83.79%	
				Commercial/Industrial-LT	7524	474	7998	4%	22.8168	1.219552	24.0363	13%		17.9742	1.96973	19.9439	13%			19.1924	19.5633	101.93%	
				Commercial/Industrial-HT	110	0	110	0%	27.4038	0	27.4038	15%		40.0222	0.20252	40.2247	26%			37.3443	37.6414	100.80%	
				Others	1984	352	2336	1%	8.852231	0.963337	9.815168	5%		6.358879	1.67539	8.034188	5%			8.421213	8.284878	98.37%	
Sub-total					**133054**	**54084**	**187138**	**100%**	**151**	**36.0334**	**187.034**	**100%**	**189.436**	**114.558**	**41.01**	**155.568**	**100%**	**33.8678**	**18%**	**132.744**	**127.212**	**95.83%**	**21%**
28	MORIGAON		Jagiroad	Residential	47661	11354	59015	90%	32.0519	6.091331	38.1432	42%	107.84	28.841	13.9502	42.791	45%	12.802	12%	30.500	30.7712	100.89%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																					
			Division									9	5		8		6		2			
				Agricultural	1139	1008	2147	3%	4.037758	3.218446	7.256004	8%		2.909974	4.94637	7.856111	8%			6.015332	5.978551	99.39%	
				Commercial/Industrial-LT	3410	273	3683	6%	12.50065	0.735569	13.24222	15%		10.2262	1.33064	11.55569	12%			10.8968	11.50065	105.60%	
				Commercial/Industrial-HT	88	4	92	0%	16.366	10.436	26.802	29%		27.3773	0.73933	28.11616	30%			24.4038	56.22263	230.40%	
				Others	739	156	895	1%	4.8854	0.601005	5.486645	6%		2.994149	1.7304	4.724459	5%			4.453998	4.579777	102.82%	
Sub-total					**53037**	**12795**	**65832**	**100%**	**69.8474**	**21.0825**	**90.9299**	**100%**	**107.849**	**72.349**	**22.697**	**95.046**	**100%**	**12.8026**	**12%**	**76.2701**	**109.062**	**142.99%**	**-26%**
29	MORIGAON		Morigaon Division	Residential	100377	28923	129300	90%	60.6067	12.4072	73.0139	64%	147.466	54.0827	23.9614	78.0441	71%	37.9616	26%	58.278	52.6195	90.29%	
				Agricultural	4505	819	5324	4%	10.7462	2.225235	12.9716	11%		4.84881	1.63425	6.482335	6%			5.360166	3.811613	71.19%	
				Commercial/Industrial-	6216	511	6727	5%	16.9815	1.3072	18.2887	16%		14.131	2.05834	16.189	15%			15.696	14.92676	95.10%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				LT										2		5				2			
				Commercial/Industrial-HT	33	0	33	0%	2.97509	0	2.97509	3%		1.747547	0.02617	1.771163	2%			2.254443	2.383315	105.71%	
				Others	2057	261	2318	2%	5.757727	0.982213	6.73934	6%		4.980709	2.03656	7.017735	6%			7.17741	6.386624	89.02%	
Sub-total					**113188**	**30514**	**143702**	**100%**	**97.06668**	**16.92218**	**113.9889**	**100%**	**147.4664**	**79.78822**	**29.7167**	**109.5055**	**100%**	**37.96164**	**26%**	**88.76269**	**80.13326**	**90.28%**	**33%**
30	N. Lakhimpur		Chilapathar Division	Residential	67466	9460	76926	95%	45.35543	5.39873	50.7543	75%	56.6604	21.89322	4.0309	25.92411	63%	15.70644	28%	19.96367	19.14432	95.89%	
				Agricultural	67	4	71	0%	0.367783	0.002	0.387783	1%		0.032177	0.02025	0.052422	0%			0.061977	0.007232	116.69%	
				Commercial/Industrial-LT	2899	203	3102	4%	9.559079	0.663534	10.22261	15%		7.108897	0.91741	8.026638	20%			7.810833	7.870111	100.76%	
				Commercial/Industrial-HT	38	0	38	0%	3.002205	0	3.002205	4%		2.229144	0.12191	2.351105	6%			2.463468	2.534446	102.88%	
				Others	753	97	850	1%	3.309773	0.344486	3.654259	5%		3.36007	1.2394	4.60001	11%			4.23337	4.257506	100.55%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
														1		1				3			
Sub-total					**71223**	**9764**	**80987**	**100%**	**61.6247**	**6.3989**	**68.0236**	**10 0%**	**56.6604**	**34.6242**	**6.32986**	**40.954**	**100%**	**15.7064**	**28%**	**34.5337**	**33.8772**	**98.10%**	**29%**
31	N. Lakhimpur		Dhemaji Division	Residential	100624	20583	121207	94%	75.1168	12.6242	87.7409	70%	101.668	40.4476	12.0013	52.4489	63%	18.353	18%	40.8638	37.7054	92.27%
				Agricultural	525	64	589	0%	2.0111	0.12	2.1311	2%		0.26448	0.03878	0.303588	0%			0.353153	0.333355	94.88%
				Commercial/Industrial-LT	4814	291	5105	4%	16.3504	0.85914	17.2096	14%		11.4968	1.03502	12.5318	15%			12.5159	12.1664	97.21%
				Commercial/Industrial-HT	55	0	55	0%	7.824	0	7.824	6%		7.648288	0.02817	7.676466	9%			7.663397	7.556587	98.60%
				Others	1917	215	2132	2%	9.901774	0.80759	10.7093	9%		8.767751	1.58629	10.35388	12%			10.41399	10.5483	101.29%
Sub-total					**107935**	**21153**	**129088**	**100%**	**111.204**	**14.4109**	**125.615**	**10 0%**	**101.668**	**68.625**	**14.6896**	**83.3146**	**100%**	**18.353**	**18%**	**71.809**	**68.3105**	**95.13%**	**22%**
32	N. Lakhimpur		North Lak	Residential	125687	45031	170718	92%	105.641	27.909	133.55	68%	207.74	71.235	29.2512	100.48	63%	48.962	24%	77.017	71.3484	92.64%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
			himpur Division									7	1		6		8					
				Agricultural	1082	164	1246	1%	2.561116	0.302053	2.863669	1%		0.443776	0.11107	0.555483	0%			0.591667	0.378001	63.89%
				Commercial/Industrial-LT	8862	798	9660	5%	28.9494	1.937356	30.88669	16%		19.7212	2.41931	22.1405	14%			22.5099	22.093	98.15%
				Commercial/Industrial-HT	147	2	149	0%	16.9742	0.059	17.03332	9%		15.2587	0.03888	15.2976	10%			15.8302	16.02997	101.26%
				Others	2413	617	3030	2%	10.835	1.779 42	12.61444	6%		12.1586	8.14628	20.3049	13%			18.2753	18.90973	103.46%
Sub-total					**138191**	**46612**	**184803**	**100%**	**164.96**	**31.9875**	**196.948**	**100%**	**207.747**	**118.817**	**39.9667**	**158.784**	**100%**	**48.9628**	**24%**	**134.224**	**128.756**	**95.93%**	**27%**
33	NAGAON		Hojai Div	Residential	172131	33393	205524	92%	154.291	23.0391	177.33	65%	330.15	116.403	32.2836	148.686	57%	70.5295	21%	115.038	108.8 91	94.66%
				Agricultural	1529	277	1806	1%	5.26852	1.9406	7.20912	3%		1.042241	1.64466	2.686707	1%			2.285633	2.2189	97.08%
				Commercial/Industrial-	11286	559	11845	5%	34.6947	1.661 46	36.3561	13%		29.232	3.42614	32.659	13%			31.002	31.6225	102.00%

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																							
				LT										9		1				1			
				Commercial/Industrial-HT	142	2	144	0%	37.8472	0.147	37.9942	14%		64.5461	0.19638	64.7424	25%			54.6537	48.451	88.65%	
				Others	3677	375	4052	2%	10.978	1.033395	12.01019	4%		9.056663	1.78874	10.8454	4%			10.5803	10.2068	96.47%	
Sub-total					**188765**	**34606**	**223371**	**100%**	**243.08**	**27.8221**	**270.902**	**10 0%**	**330.15**	**220.2811**	**39.3395**	**259.62**	**100%**	**70.5295**	**21%**	**213.56**	**201.39**	**94.30%**	**26%**
34	NAGAON		Nagaon Div-I	Residential	87952	15199	103151	86%	114.939	12.9247	127.864	66%	190.9833	87.8365	14.186	102.022	66%	35.9696	19%	76.8989	79.638	103.56%	
				Agricultural	2948	537	3485	3%	6.24632	0.995574	7.242206	4%		1.929233	0.90443	2.833366	2%			2.401161	2.469695	102.85%	
				Commercial/Industrial-LT	9885	375	10260	9%	28.7549	1.008667	29.7635	15%		23.545	1.63989	25.1849	16%			25.2657	25.8737	102.41%	
				Commercial/Industrial-HT	187	3	190	0%	19.845	0.779	20.624	11%		17.0311	0.3168	17.3479	11%			18.2417	17.958	98.44%	
				Others	2092	220	2312	2%	6.612114	0.805334	7.417448	4%		6.34351	1.27981	7.62349	5%			7.45774	7.203071	96.60%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
														3		4				7			
Sub-total					**103064**	**16334**	**119398**	**100%**	**176.398**	**16.5134**	**192.911**	**10 0%**	**190.983**	**136.687**	**18.327**	**155.014**	**100%**	**35.9696**	**19%**	**130.265**	**133.143**	**102.21%**	**17%**
35	NAGAON		Nagaon Div-II	Residential	155572	51978	207550	91%	98.3713	29.3505	127.722	54%	318.745	79.2861	47.8471	127.133	53%	80.0984	25%	96.278	90.5638	94.06%	
				Agricultural	4740	1541	6281	3%	12.1142	7.114145	19.2287	8%		3.040603	4.19415	7.240018	3%			6.437799	6.069664	94.28%	
				Commercial/Industrial-LT	8870	1128	9998	4%	25.8845	2.143384	28.0283	12%		20.9393	3.60208	24.54144	10%			23.993	24.7185	103.02%	
				Commercial/Industrial-HT	142	8	150	0%	35.3867	0.544	35.9307	15%		60.2904	0.79537	61.08588	26%			50.1364	49.6027	98.94%	
				Others	3673	839	4512	2%	21.2285	3.12965	24.3582	10%		10.63544	8.01081	18.64622	8%			17.1517	17.8488	104.06%	
Sub-total					**172997**	**55494**	**228491**	**100%**	**192.985**	**42.2824**	**235.268**	**10 0%**	**318.745**	**174.197**	**64.4495**	**238.647**	**100%**	**80.0984**	**25%**	**193.997**	**188.803**	**97.32%**	**27%**
36	RANGIA		Nalbari	Residential	127292	21425	148717	93%	139.639	14.0581	153.697	73%	178.7	76.707	17.2889	93.996	64%	31.699	18%	70.603	62.8578	89.03%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
			Division										6		5		7		4			
				Agricultural	1037	111	1148	1%	3.421 14	0.569	3.990 14	2%		-0.28 38	1.53325	1.24 949	1%		1.02 626	0.78 362	76.36 %	
				Commercial/Industrial-LT	6487	320	6807	4%	21.83 87	0.875 29	22.71 4	11 %		17.9 332	1.78886	19.7 221	13%		18.5 818	23.26 05	125.18%	
				Commercial/Industrial-HT	94	0	94	0%	9.506 32	0	9.506 32	5%		8.29 747	0.04156	8.33 903	6%		8.97 759	9.346 35	104.11%	
				Others	2936	292	3228	2%	19.92 49	0.776 5	20.70 14	10 %		22.1 859	1.50733	23.6 932	16%		22.7 85	24.31 09	106.70%	
Sub-total					**137 846**	**221 48**	**159 994**	**100 %**	**194.33**	**16.27 89**	**210.609**	**10 0%**	**178.7**	**124.84**	**22.1599**	**147**	**100 %**	**31.6 997**	**18 %**	**121.974**	**120.559**	**98.84 %**	**19 %**
37	RANGIA		Rangia Division	Residential	146 826	328 31	179 657	93 %	122.735	18.76 76	141.503	56 %	331.549	82.3 841	24.3888	106.773	36%	33.549 5	10 %	81.0 233	78.85 28	97.32 %	
				Agricultural	197	53	250	0%	1.688 81	1.477 02	3.165 83	1%		0.01 285	1.30293	1.31 579	0%		1.20 272	1.266 67	105.32%	
				Commercial/Industrial-	9047	569	9616	5%	29.57 47	1.651 02	31.22 57	12 %		22.4 34	2.53856	24.9 73	8%		24.1 73	24.68 66	102.12%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				LT											9		4							
				Commercial/Industrial-HT	181	1	182	0%	67.3583	0.14	67.4983	27%		151.137	0.13427	151.271	51%			128.543	122.615	95.39%	
				Others	2265	431	2696	1%	8.852 85	1.669 06	10.5219	4%		10.5035	3.1624	13.6659	5%			13.3379	12.5298	93.94%	
Sub-total					**158516**	**33885**	**192401**	**100%**	**230.21**	**23.7047**	**253.915**	**100%**	**331.549**	**26.6.472**	**31.527**	**297.999**	**100%**	**33.5495**	**10%**	**248.28**	**239.951**	**96.65%**	**13%**
38	SIVASAGAR		Moran Division	Residential	74392	20092	94484	93%	67.3087	13.1856	80.4943	64%	121.909	40.7877	14.0591	54.8468	58%	26.5964	2%	42.5517	39.8019	93.54%	
				Agricultural	93	11	104	0%	0.379	0.043	0.422	0%		0.04935	0.04335	0.09927	0%			0.17641	0.16883	95.70%	
				Commercial/Industrial-LT	4860	255	5115	5%	14.4839	0.4323 8	14.9163	12%		11.1794	0.58429	11.7636	12%			11.9193	12.5672	105.44%	
				Commercial/Industrial-HT	96	2	98	0%	24.5618	0.027	24.5888	20%		25.1237	0.01951	25.1432	26%			24.2607	24.7223	101.90%	
				Others	1632	207	1839	2%	4.002 15	0.475	4.4771 5	4%		1.7617	1.70474	3.4665	4%			3.4440	3.2760 5	95.12%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
														7		1				4			
Sub-total					**81073**	**20567**	**101640**	**100%**	**110.736**	**14.1629**	**124.898**	**10 0%**	**121.909**	**78.9019**	**16.4109**	**95.3129**	**100%**	**26.5964**	**2 2%**	**82.3522**	**80.5363**	**97.79%**	**2 4%**
39	SIVASAGAR		Nazira Division	Residential	103528	16715	120243	93%	94.791	11.3502	106.141	53%	217.847	62.3335	16.9983	79.3318	44%	39.2393	1 8%	61.8546	60.9048	98.46%	
				Agricultural	130	18	148	0%	0.58732	0.498444	1.085 76	1%		-0.1531	0.26274	0.109 65	0%			0.1294 3	0.1254	96.89%	
				Commercial/Industrial-LT	6392	398	6790	5%	22.416	0.775 55	23.191 5	12%		16.2349	1.25016	17.4851	10%			17.6674	18.1562	102.77%	
				Commercial/Industrial-HT	303	10	313	0%	54.4932	5.1364	59.6296	30%		67.9222	0.30427	68.2264	38%			67.584	69.4424	102.75%	
				Others	1974	216	2190	2%	10.3006	0.7891 8	11.0898	6%		10.9732	2.48112	13.4543	8%			13.1574	12.284	93.36%	
Sub-total					**112327**	**17357**	**129684**	**100%**	**182.588**	**18.5498**	**201.138**	**10 0%**	**217.847**	**157.311**	**21.2966**	**178.607**	**100%**	**39.2393**	**1 8%**	**160.393**	**160.913**	**102.32%**	**1 8%**
40	Sivasagar Divisi		Sivasagar	Residential	49182	7010	56192	90%	67.4334	6.6581 2	74.0915	67%	108.91	52.164	7.60518	59.77	#DIV/0!	16.315	1 5%	44.488	44.923	100.98%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																					
	on		Division									6	9				7		1			
				Agricultural	43	9	52	0%	-0.5098	0.725	0.21515	0%	0.013466	0.04042	0.05388	#DIV/0!			0.050002	0.051221	102.40%	
				Commercial/Industrial-LT	4930	353	5283	8%	15.966	0.618 93	16.585	15 %	12.1456	0.962	13.1076	#DIV/0!			13.3397	13.46 05	100.91%	
				Commercial/Industrial-HT	122	2	124	0%	13.6865	0.039	13.7255	12 %	15.7251	0.09744	15.8225	#DIV/0!			16.4012	16.6351	101.43%	
				Others	933	160	1093	2%	5.22954	0.495 18	5.72472	5%	3.102622	0.74377	3.846 639	#DIV/0!			4.14798	3.932 79	94.81%	
Sub-total					**55210**	**7534**	**62744**	**100 %**	**101.806**	**8.536 23**	**110.342**	**10 0%**	**108.916**	**83.1516**	**9.44881**	**92.60 004**	**100 %**	**16.3 157**	**15 %**	**78.427**	**79.00 26**	**100.73%**	**14 %**
41	TEZPUR		Chariali Division	Residential	127053	389 56	166009	93 %	101.359	22.9496	124.309	60 %	227.229	65.948	27.3071	93.2551	53%	51.544	23 %	73.4937	67.2838	91.55%	
				Agricultural	1406	148	1554	1%	4.25704	0.446 72	4.70376	2%		0.606 689	0.46375	1.07064	1%			1.00259	0.973 43	97.09%	
				Commercial/Industrial-	6937	496	7433	4%	20.3665	1.311 193	21.6785	11 %		15.621	2.19469	17.815	10%			17.822	20.1645	113.14%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																					
				LT										2		9				4			
				Commercial/Industrial-HT	153	2	155	0%	45.7293	0.088875	45.8188	22%		55.1717	0.23336	55.405	32%			51.054	51.214	100.31%	
				Others	1992	457	2449	1%	7.784861	1.5503	9.334891	5%		5.321776	2.81661	8.138837	5%			8.200207	8.324226	101.51%	
Sub-total					**137541**	**40059**	**177600**	**100%**	**179.497**	**26.3473**	**205.844**	**100%**	**227.229**	**142.67**	**33.0155**	**175.685**	**100%**	**51.544**	**23%**	**151.573**	**147.96**	**97.62%**	**25%**
42	TEZPUR		Dhekiajuli Division	Residential	62587	11650	74237	94%	51.732	5.789335	57.52214	63%	98.2954	33.6123	6.81349	40.42258	50%	18.0626	18%	30.96433	29.1048	93.99%	
				Agricultural	445	34	479	1%	1.064668	0.124666	1.189334	1%		0.724491	0.06188	0.786679	1%			0.613977	0.557754	90.81%	
				Commercial/Industrial-LT	3213	90	3303	4%	10.988	0.280557	11.26886	12%		8.891157	0.48052	9.372209	12%			9.032275	9.214113	102.01%	
				Commercial/Industrial-HT	71	0	71	0%	17.82666	0	17.82666	19%		25.1041	0.02116	25.1253	31%			22.55085	22.55515	100.19%	
				Others	1069	83	1152	1%	3.401776	0.352994	3.754547	4%		4.29541	0.22739	4.522801	6%			3.927475	3.879708	98.77%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
														2								
Sub-total					**67385**	**11857**	**79242**	**100%**	**85.01 31**	**6.5 4752**	**91.56 07**	**10 0%**	**98.2 954**	**72.6 284**	**7.6044 4**	**80.2 328**	**100%**	**18.0 626**	**1 8%**	**67.0 47**	**65.30 71**	**97.40%**	**2 0%**
43	TEZPUR		Tezpur Division	Residential	114484	14817	129301	91%	140.874	10.0983	150.972	55%	322.504	97.2318	11.0914	108.323	869%	32.4489	10%	82.3222	78.8166	95.74%	
				Agricultural	543	45	588	0%	1.33692	0.09149	1.42841	1%		0.990023	0.02842	1.010865	8%			0.500401	0.58656	117.22%	
				Commercial/Industrial-LT	9601	213	9814	7%	31.3296	0.63718	31.9667	12%		25.752	1.2986	27.0506	217%			27.2617	28.2005	103.44%	
				Commercial/Industrial-HT	309	0	309	0%	56.8627	0	56.8627	21%		72.6961	0.11409	72.8102	584%			67.7797	68.8252	101.54%	
				Others	1870	160	2030	1%	34.1875	0.79126	34.9788	13%		79.22	1.63244	80.8525	648%			72.5138	70.7592	97.58%	
Sub-total					**126807**	**15235**	**142042**	**100%**	**264.591**	**11.6182**	**276.209**	**10 0%**	**322.504**	**275.89**	**14.165**	**290.055**	**100%**	**32.4489**	**1 0%**	**250.378**	**247.188**	**98.73%**	**1 1%**
44	Tinsukia EC		Digboi Divi	Residential	131039	47634	178673	94%	93.6008	28.5199	122.121	52%	282.24	66.733	29.6663	96.399	43%	60.028	21%	78.421	68.4237	87.25%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
			sion									4	6		8		1		7			
				Agricultural	374	28	402	0%	1.983376	0.337	2.320776	1%		0.181161	0.05099	0.23226	0%			0.338885	0.352564	104.07%	
				Commercial/Industrial-LT	7708	841	8549	4%	21.5059	1.725237	23.23313	10%		19.66466	2.04551	21.66921	10%			21.22018	23.29936	109.87%	
				Commercial/Industrial-HT	232	2	234	0%	75.8484	0.078	75.92764	32%		87.44192	0.07929	87.49985	39%			79.22774	79.24995	99.96%	
				Others	2137	297	2434	1%	12.712	0.760 92	13.47 29	6%		14.5303	1.86285	16.39332	7%			15.8103	16.3723	103.55%	
Sub-total					**141490**	**48802**	**190292**	**100%**	**205.651**	**31.4212**	**237.072**	**100%**	**282.244**	**188.511**	**33.7049**	**222.216**	**100%**	**60.0281**	**21%**	**195.05**	**187.692**	**96.23%**	**24%**
45	Tinsukia EC		Tinsukia Division	Residential	64666	22914	87580	88%	86.4689	13.3409	99.8098	45%	257.82	66.66661	15.7755	82.44416	37%	32.3058	13%	65.23411	61.3861	94.10%	
				Agricultural	133	3	136	0%	0.513 31	0.009	0.522 31	0%		0.070009	0.00059	0.07 0068	0%			0.07393	0.089 75	121.40%	
				Commercial/Industrial-	9763	456	10219	10%	28.0376	1.1 5818	29.1958	13%		22.5 18	1.524	24.042	11%			24.079	24.2457	100.69%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																						
				LT																1			
				Commercial/Industrial-HT	388	4	392	0%	80.9711	0.208	81.1791	36%		96.448	0.07135	96.5193	43%			87.9652	86.6294	98.48%	
				Others	1260	134	1394	1%	11.9372	0.47414	12.3843	6%		21.3636	1.07702	22.4406	10%			20.7818	19.8312	95.43%	
Sub-total					**76210**	**23511**	**99721**	**100%**	**207.928**	**15.1632**	**223.091**	**100%**	**257.82**	**207.066**	**18.4484**	**225.514**	**100%**	**32.3058**	**13%**	**198.134**	**192.182**	**97.00%**	**15%**
76	Total			Residential	5082593	1150867	6234600	92%	5229.33	675.477	5904.81	60%	10985.26	3620.92	944.349	4565.27	50%	1849.02	17%	3523.1	3334.43	94.64%	
				Agricultural	36587	8458	45045	1%	112.058	30.873	142.931	1%		38.8556	24.7021	63.5577	1%			51.4328	47.778	92.89%	
				Commercial/Industrial-LT	347352	19536	366888	5%	1160.9	50.1361	1211.03	12%		957.608	83.0721	1040.68	11%			1025.12	1061.04	103.50%	
				Commercial/Industrial-HT	9222	143	9365	0%	1851.07	29.3434	1880.41	19%		2490.01	15.8326	2505.84	27%			2327.45	2383.35	102.40%	
				Others	103423	13903	117326	2%	688.082	61.2316	749.314	8%		818.27	142.615	960.89	11%			927.72	917.544	98.90%	

Annexure for Audit Detail Of APDCL

Details of Division Wise Losses (See note below**)																					
													6		1				6			
77	At company level			5579177	1192907	6772084	100%	9041.44	847.061	9888	100%	10985.26	7925.67	1210.57	9136.24	100%	1849.02	16.83%	7854.83	7744.14	98.59%	18%

** Note - It shall be mandatory to record the energy supplied separately for each category of consumers which is being provided a separate rate of subsidy in the tariff, by the state government, so that the subsidy due for the electricity distribution company is quarterly calculated by multiplying the energy supplied to each of such category of consumers by the applicable rate of subsidy notified by the state government.

11.2. Annexure -2- Form Input Energy 2022-23 (as per bee format)

Form-Input energy(Details of Input energy & Infrastructure)			
A. Summary of energy input & Infrastructure			
S. No	**Parameters**	**Period From.... To....**	**Remarks (Source of data)**
A. 1	Input Energy purchased (MU)	12804.4751	
A. 2	Transmission loss (%)	6%	
A. 3	Transmission loss (MU)	732.58	
A. 4	Energy sold outside the periphery(MU)	1087.100908	
A. 5	Open access sale (MU)	88.57	
A. 6	EHT sale	0	
A. 7	Net input energy (received at DISCOM periphery or at distribution point)-(MU)	11232.08	
A. 8	Is 100% metering available at 66/33 kV (Select yes or no from list)	No	
A. 9	Is 100% metering available at 11 kV (Select yes or no from list)	No	
A.	% of metering available at DT	41%	

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)			
10			
A.11	% of metering available at consumer end	100 %	
A.12	No of feeders at 66kV voltage level	0	
A.13	No of feeders at 33kV voltage level	635	
A.14	No of feeders at 11kV voltage level	1997	
A.15	No of LT feeders level	0	
A.16	Line length (ckt. km) at 66kV voltage level	0	
A.17	Line length (ckt. km) at 33kV voltage level	9782.86	
A.18	Line length (ckt. km) at 11kV voltage level	99082.75	
A.19	Line length (km) at LT level	326374.32	
A.20	Length of Aerial Bunched Cables	58232.22	

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)			
A.21	Length of Underground Cables	0	
A.22	HT/LT ratio	0.33356058	

B. Meter reading of Input energy at injection points

S.No	Zone	Circle	Voltge Level (KVA)	Division (KVA)	Sub-Division (KVA)	Feeder ID	Feeder Name	Feeder Metering Status (Metered/ unmetered/ AMI/AMR)	Status of Meter (Functional/Non-functional)	Metering Date	Feeder Type (Agri/ Industrial/ Mixed)	Status of Communication			Period from...to...				Sales	Remarks (Source of data)
										Date of last actual meter reading/ communication		% data received through automatically if feeder AMR/AMI	Number of hours when meter was unable to communicate in period	Total Number of hours in the period	Meter S.No	CT/PT ratio	Import (MU)	Export (MU)		
B.1	dibrugarh	Tinsukia	33 KV				10 MVA Tr 1	metered		manual read	mixed				WBE10178		30.90			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.2	dibrugarh	Tinsukia	33KV				10 MVA Tr 2	metered		manual reading	mixed				X0050153		19.75			
B.3	Guwahati	GEC-I	33KV				12 Mile Feeder	metered		manual reading	mixed				ASE81359		35.95			
B.4	dibrugarh	Dibrugarh	132KV				132 KV BCPL Line-I	metered		manual reading	mixed				AEG00007		0.07			
B.5	dibrugarh	Dibrugarh						metered		manual reading	mixed				IEM10001267A*		0.03			
B.6	dibrugarh	Dibrugarh	132KV				132 KV BCPL Line-II	metered		manual reading	mixed				AEG00023		3.86			
B.7	dibrugarh	Dibrugarh						metered		manual reading	mixed				IEM10001266A*		1.25			
B.8	silchar	Badarpur	132KV				132 KV HPC	metered		manual reading	mixed				AS03037		0.17			
B.9	silchar	Badarpur						metered		manual read	mixed				X1361148		0.08			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.10	Guwahati	GEC-I	132 KV				132 KV IOCL Refinery (Ghy)	metered		manual reading	mixed				X1284528		22.41			
B.11	bongaigaon	Barpeta	132 KV				132 KV Railway	metered		manual reading	mixed				18145164		24.79			
B.12	bongaigaon	Barpeta						metered		manual reading	mixed				Q0287819		15.29			
B.13	Guwahati	GEC-II	132 KV				132 KV Railway Feeder	metered		manual reading	mixed				HT011312 20		11.70			
B.14	Guwahati	GEC-II						metered		manual reading	mixed				X1361150		0.00			
B.15	rangia	Rangia	132 KV				132 KV Railway Traction Feeder	metered		manual reading	mixed				18145210		17.57			
B.16	jorhat	Sivsagar	33 KV				33/11 KV ,10 MVA Tr 1	metered		manual reading	mixed				12236510		19.64			
B.17	jorhat	Sivsagar	33 KV				33/11 KV ,10 MVA Tr 2	metered		manual read	mixed				12236507		24.42			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.18	dibrugarh	Tinsukia	33KV				33/11 KV Ledo S/S Tr 1	metered		manual reading	mixed				ASEG0394		6.03			
B.19	dibrugarh	Tinsukia	33KV				33/11 KV Ledo S/S Tr 2	metered		manual reading	mixed				XC58160		9.53			
B.20	dibrugarh	Tinsukia	33KV				33/11 KV Rupai S/S Tr 1	metered		manual reading	mixed				ASEG0396		13.86			
B.21	dibrugarh	Tinsukia	33KV				33/11 KV Rupai S/S Tr 2	metered		manual reading	mixed				XF467716		14.01			
B.22	dibrugarh	Dibrugarh	33KV				33/11 KV Tr 1	metered		manual reading	mixed				ASEF9400		10.33			
B.23	dibrugarh	Dibrugarh						metered		manual reading	mixed				X1457489		9.07			
B.24	dibrugarh	Dibrugarh						metered		manual reading	mixed				XF467692		9.69			
B.25	dibrugarh	Dibrugarh	33KV				33/11 KV Tr 2	metered		manual read	mixed				ASEF9401		7.54			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
										ing										
B.26	dibrugarh	Dibrugarh						metered		manual reading	mixed				X1457490		7.62			
B.27	dibrugarh	Dibrugarh						metered		manual reading	mixed				XF467729		26.01			
B.28	dibrugarh	Dibrugarh	33KV				33/11 KV Tr 3	metered		manual reading	mixed				ASE03077		4.80			
B.29	nagaon	Kanch	33KV				33KV Longku Ckt-1	metered		manual reading	mixed				AP923106		4.16			
B.30	bongaigaon	Bongaigaon	33KV				Abhayapuri Feeder	metered		manual reading	mixed				07420800		72.18			
B.31	rangia	Rangia	33KV				AIIMS Feeder	metered		manual reading	mixed				AEG00050		5.65			
B.32	rangia	Rangia	33KV				AIIMS Feeder-I	metered		manual reading	mixed				Q0715841		0.57			
B.33	rangia	Rangia	33KV				AIIMS Feeder-II	metered		manual read	mixed				X1326351		2.61			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.34	tezpur	Tezpur	33KV				Air Force Feeder	metered		manual reading	mixed				ASE18795		14.69		
B.35	jorhat	Jorhat	33KV				Ajanta Bypass Feeder	metered		manual reading	mixed				HT011312 13		11.78		
B.36	rangia	Rangia	33KV				Alipub Feeder	metered		manual reading	mixed				AEG00059		57.32		
B.37	nagaon	Morigaon	33KV				Alsthom Industries Feeder(OA)	metered		manual reading	mixed				ASEB5143		15.42		
B.38	dibrugarh	Dibrugarh	33KV				AMCH Feeder	metered		manual reading	mixed				19375089		29.30		
B.39	jorhat	Sivsagar	33KV				Amguri Feeder	metered		manual reading	mixed				X0457778		11.22		
B.40	Guwahati	GEC-II	33KV				Amingaon Feeder	metered		manual reading	mixed				AS898101		77.93		
B.41	Guwahati	GEC-II						metered		manual read	mixed				IEM00000213A		0.82		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.42	nagaon	Nagaon	33KV				Amoni Feeder	metered		manual reading	mixed				AS902619		73.60		
B.43	dibrugarh	Tinsukia	33KV				Arunachal Pradesh	metered		manual reading	mixed				ASE03050		27.63		
B.44	Guwahati	GEC-II	33KV				Azara Feeder	metered		manual reading	mixed				Q0289644		52.81		
B.45	nagaon	Nagaon	33KV				Azure Power Feeder	metered		manual reading	mixed				X1624461		0.08		
B.46	rangia	Mangaldai	33KV				Azure Solar Power	metered		manual reading	mixed				Q0302380		0.11		
B.47	dibrugarh	Tinsukia	33KV				Baghjan Feeder	metered		manual reading	mixed				ASE03049		7.71		
B.48	bongaigaon	Barpeta	33KV				Bajali	metered		manual reading	mixed				APC04223		52.55		
B.49	tezpur	N. Lakhimpur	33KV				Balijan Feeder	metered		manual read	mixed				ASE02969		28.63		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.50	bongaigaon	Bongaigaon	33KV				Balijana Feeder	metered		manual reading	mixed				APC04206		27.68		
B.51	tezpur	Tezpur	33KV				Balipara(Sonabil) Feeder	metered		manual reading	mixed				X1342680		20.78		
B.52	Guwahati	GEC-II	33KV				Bamunigaon Feeder	metered		manual reading	mixed				ABB01249		47.71		
B.53	Guwahati	GEC-I	33KV				Bamunimaidam Feeder	metered		manual reading	mixed				BEB53663		0.05		
B.54	Guwahati	GEC-I						metered		manual reading	mixed				IEM00000177A		0.00		
B.55	Guwahati	GEC-I	33KV				Bamunimaidan Feeder	metered		manual reading	mixed				ABB01135		78.58		
B.56	Guwahati	GEC-I						metered		manual reading	mixed				IEM00000373A		1.25		
B.57	jorhat	Sivsagar	33KV				Banfera Feeder	metered		manual read	mixed				AEG00100		35.41		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.58	silchar	Cachar	33KV				Banskandi Feeder	metered		manual reading	mixed				KAB09887		21.85		
B.59	bongaigaon	Barpeta	33KV				Barama Feeder	metered		manual reading	mixed				ABB01260		54.98		
B.60	nagaon	Nagaon	33KV				Barapujia Feeder	metered		manual reading	mixed				AEG00086		57.84		
B.61	nagaon	Nagaon	33KV				Barhampur Feeder	metered		manual reading	mixed				AS902645		12.64		
B.62	nagaon	Nagaon						metered		manual reading	mixed				WBBC0572		6.05		
B.63	bongaigaon	Barpeta	33KV				Barpeta Feeder	metered		manual reading	mixed				XC477052		60.39		
B.64	bongaigaon	BARPETA	33KV				Barpeta Road	metered		manual reading	mixed				KA905095		39.00		
B.65	bongaigao	BARPETA	33KV				Barpeta Road (new)	metered		manual read	mixed				X1326355		42.68		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
	n									ing									
B.66	bongaigaon	BARPETA	33KV				Barpeta Road (old)	metered		manual reading	mixed				KA905095		0.11			
B.67	bongaigaon	Barpeta	33KV				Barpeta Town I	metered		manual reading	mixed				AS898112		67.72			
B.68	bongaigaon	Barpeta	33KV				Barpeta Town II	metered		manual reading	mixed				APC04225		8.59			
B.69	Guwahati	GEC-I	33KV				Barsapara Feeder	metered		manual reading	mixed				15001252		65.30			
B.70	Guwahati	GEC-I	33KV				Barsapara Feeder new	metered		manual reading	mixed				IEM00000194A		7.77			
B.71	bongaigaon	Kokrajhar	33KV				Basugaon Feeder	metered		manual reading	mixed				ABB02883		16.21			
B.72	dibrugarh	Dibrugarh	33KV				BCPL Feeder	metered		manual reading	mixed				HT0113120 8		0.73			
B.73	nagaon	Nagaon	33KV				Bebejia Feeder	metered		manual read	mixed				AEG00095		95.29			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.74	dibrugarh	Dibrugarh	33KV				Behiating Feeder	metered		manual reading	mixed				AEG00019		9.06		
B.75	bongaigaon	BONGAIGAON	132KV				BGR (IOCL)	metered		manual reading	mixed				APC04208		17.38		
B.76	bongaigaon	BONGAIGAON	132KV				BGR (IOCL) new	metered		manual reading	mixed				Q0720780		16.21		
B.77	bongaigaon	BONGAIGAON	132KV				BGR (IOCL) old	metered		manual reading	mixed				APC04208		1.18		
B.78	dibrugarh	Dibrugarh	33KV				Bhadoi Panchali Feeder	metered		manual reading	mixed				HT01131188		12.86		
B.79	dibrugarh	DIBRUGARH	33KV				Bhadoi Panchali Feeder (a)	metered		manual reading	mixed				HT01131188		0.00		
B.80	dibrugarh	DIBRUGARH	33KV				Bhadoi Panchali Feeder (b)	metered		manual reading	mixed				HT01131188		1.01		
B.81	nagaon	Morigaon	33KV				Bhakatgaon Feeder(new meter)	metered		manual read	mixed				21003113		5.84		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.82	bongaigaon	Bongaigaon	33KV				Bhalukdubi Feeder	metered		manual reading	mixed				APC04207		53.36			
B.83	Guwahati	GEC-I	33KV				Bhetapara Feeder	metered		manual reading	mixed				ASE81352		56.40			
B.84	tezpur	Tezpur/N. Lakhimpur	33KV				Bihpuria Feeder	metered		manual reading	mixed				ASE02970		57.99			
B.85	tezpur	Tezpur/N. Lakhimpur						metered		manual reading	mixed				ASE79018		50.31			
B.86	bongaigaon	Bongaigaon	33KV				Bijni Feeder	metered		manual reading	mixed				7420993		35.63			
B.87	bongaigaon	Bongaigaon	33KV				Birjhora Feeder	metered		manual reading	mixed				ASE02998		27.48			
B.88	tezpur	Tezpur	33KV				Biswanath Chariali Feeder	metered		manual reading	mixed				ASE79120		41.75			
B.89	bongaigao	Kokrajhar	33KV				BodofaNwghar	metered		manual read	mixed				KA908023		12.77			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
	n									ing									
B.90	dibrugarh	Dibrugarh	33KV				Bogibeel Feeder	metered		manual reading	mixed				XF428134		3.73		
B.91	jorhat	Golaghat	33KV				Bokakhat Feeder	metered		manual reading	mixed				KAB03974		44.75		
B.92	Guwahati	GEC-II	33KV				Boko Feeder	metered		manual reading	mixed				ABB01269		52.32		
B.93	jorhat	Jorhat	33KV				Bongaon feeder	metered		manual reading	mixed				ASE79051		4.15		
B.94	Guwahati	GEC-I	33KV				Borbari Feeder	metered		manual reading	mixed				15001246		32.22		
B.95	Guwahati	GEC-I	33KV				Borbari Feeder new	metered		manual reading	mixed				IEM00000380A		4.92		
B.96	dibrugarh	Dibrugarh	33KV				Bordubi Feeder	metered		manual reading	mixed				ASE29900		2.47		
B.97	dibrugarh	Dibrugarh						metered		manual read	mixed				HT01131217		46.47		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
										ing									
B.98	tezpur	Tezpur	33KV				Borgang Feeder	metered		manual reading	mixed				ASE02973		1.26			
B.99	tezpur	Tezpur						metered		manual reading	mixed				ASE02974		42.00			
B.100	dibrugarh	Tinsukia	33KV				Borguri Feeder	metered		manual reading	mixed				7420822		37.67			
B.101	rangia	Rangia	33KV				Borkha Feeder	metered		manual reading	mixed				AEG00062		44.76			
B.102	jorhat	Golaghat	33KV				Borpathar Feeder	metered		manual reading	mixed				21102145		28.51			
B.103	tezpur	Tezpur	33KV				Borsola Feeder	metered		manual reading	mixed				XD521570		9.74			
B.104	Guwahati	GEC-II	33KV				BSPL Feeder	metered		manual reading	mixed				IEM00000543A		0.27			
B.10	Guwahati	GEC-II						metered		manual read	mixed				XC598702		25.71			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
5										ing									
B.106	silchar	Badarpur	33KV				BVCL Feeder	metered		manual reading	mixed				ASE03085		5.26		
B.107	silchar	Badarpur						metered		manual reading	mixed				X1361152		23.69		
B.108	dibrugarh	Dibrugarh	66KV				BVFCL 1	metered		manual reading	mixed				ASE79059 (NEW)		0.28		
B.109	dibrugarh	Dibrugarh						metered		manual reading	mixed				IEM10001460A		0.14		
B.110	dibrugarh	Dibrugarh	66KV				BVFCL 2	metered		manual reading	mixed				ASE29896 (new)		0.03		
B.111	dibrugarh	Dibrugarh						metered		manual reading	mixed				IEM10001513A		0.00		
B.112	bongaigaon	Bongaigaon	33KV				Bypass Feeder(Kakragaon)	metered		manual reading	mixed				7421049		1.59		
B.11	bongaigao	Bongaigaon	34KV					metered		manual read	mixed				7421049		1.02		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
3	n									ing									
B.114	nagaon	Nagaon	132 KV				Calcom Feeder	metered		manual reading	mixed				AP923102		42.37		
B.115	nagaon	Nagaon						metered		manual reading	mixed				UPD98651		33.18		
B.116	bongaigaon	Barpeta	33 KV				Cancer Care Feeder	metered		manual reading	mixed				XC477051		1.89		
B.117	Guwahati	GEC-I	33 KV				Capacitor bank	metered		manual reading	mixed				15001255		0.03		
B.118	Guwahati	GEC-I	33 KV				Capacitor bank new	metered		manual reading	mixed				IEM00000395A		0.01		
B.119	Guwahati	GEC-I	11 KV				Capital & RP road Feeder	metered		manual reading	mixed				ASE70156		4.00		
B.120	nagaon	Kanch	33 KV				CCI Feeder	metered		manual reading	mixed				IEM00000195A		0.26		
B.12	nagaon	Kanch						metered		manual read	mixed				KAB03988		21.62		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
1										ing									
B.122	rangia	Rangia	33KV				Chamata feeder	metered		manual reading	mixed				WBB06672		58.57			
B.123	Guwahati	GEC-II	33KV				Changsari Feeder	metered		manual reading	mixed				ABB03744		76.45			
B.124	Guwahati	GEC-II						metered		manual reading	mixed				IEM00000265A		0.85			
B.125	#N/A	Interstate (Nagaland)	33KV				Chanki Feeder	metered		manual reading	mixed				X1444619		10.41			
B.126	bongaigaon	Bongaigaon	33KV				Chapaguri Feeder	metered		manual reading	mixed				7421001		38.15			
B.127	rangia	Mangaldai	33KV				Chapai Feeder	metered		manual reading	mixed				ABB01247		61.00			
B.128	dibrugarh	Tinsukia	33KV				Chapakhowa Feeder	metered		manual reading	mixed				ASE79048		16.04			
B.12	bongaigao	Kokrajhar	33KV				Chapar Feeder	metered		manual read	mixed				ASE19794		36.77			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
9	n									ing										
B.130	Guwahati	GEC-II	33KV				Chatabari Feeder	metered		manual reading	mixed				ABB01264		80.12			
B.131	dibrugarh	Dibrugarh	33KV				Chowkidingee Feeder	metered		manual reading	mixed				AEG00022		22.94			
B.132	bongaigaon	Bongaigaon	33KV				Chutki Feeder	metered		manual reading	mixed				ASE03132		18.42			
B.133	bongaigaon	KOKRAJHAR	33KV				CIT	metered		manual reading	mixed				AP917257		0.00			
B.134	Guwahati	GEC-I	33KV				Colony Feeder	metered		manual reading	mixed				ASE81351		6.33			
B.135	Guwahati	GEC-I						metered		manual reading	mixed				IEM00000318A		0.19			
B.136	Guwahati	GEC-II	33KV				Consortium Feeder	metered		manual reading	mixed				ASEB5150		27.90			
B.13	jorhat	Sivsagar	33KV				CPP Lakwa+Water Intake	metered		manual read	mixed				ASED7540		0.70			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
7										ing										
B.138	tezpur	Tezpur	33KV				Dabur Feeder	metered		manual reading	mixed				BEB53664		7.89			
B.139	tezpur	Tezpur	33KV				Dafflagarh Feeder	metered		manual reading	mixed				ASEB5044		10.95			
B.140	rangia	Mangaldai	33KV				Dalgaon Feeder	metered		manual reading	mixed				ASEB4484		58.15			
B.141	bongaigaon	Bongaigaon	33KV				Damra Feeder	metered		manual reading	mixed				13194299		27.21			
B.142	bongaigaon	Bongaigaon						metered		manual reading	mixed				HT011311196		2.76			
B.143	bongaigaon	Bongaigaon						metered		manual reading	mixed				HT011312 14		30.74			
B.144	bongaigaon	Bongaigaon	34KV					metered		manual reading	mixed				HT011312 14		3.16			
B.14	jorhat	Sivsagar	33K				Demow Feeder	metered		manual read	mixed				KAB03982		29.00			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
5			V							ing										
B.146	jorhat	Sivsagar						metered		manual reading	mixed				KAB03992		3.53			
B.147	nagaon	Nagaon	33KV				Deodhar Feeder	metered		manual reading	mixed				AEG00080		11.84			
B.148	jorhat	Jorhat	33KV				Dergaon Feeder	metered		manual reading	mixed				HT011311179		44.27			
B.149	tezpur	N. Lakhimpur	33KV				Dhakuakhana Feeder	metered		manual reading	mixed				XB475410		32.88			
B.150	tezpur	Tezpur	33KV				Dhekiajuli Feeder	metered		manual reading	mixed				ASE02977		24.10			
B.151	tezpur	Tezpur						metered		manual reading	mixed				ASE03069		7.88			
B.152	tezpur	N. Lakhimpur	33KV				Dhemaji Feeder	metered		manual reading	mixed				XB475407		20.25			
B.15	bongaigao	Kokrajhar	33K				Dhubri (Ambagan) Feeder	metered		manual read	mixed				ASE02994		34.77			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
3	n		V							ing									
B.154	bongaigaon	Kokrajhar	33KV				Dhubri (BOC) Feeder	metered		manual reading	mixed				7420998		37.91		
B.155	bongaigaon	Bongaigaon	33KV				Dhupdhara Feeder	metered		manual reading	mixed				ABB01263		35.66		
B.156	Guwahati	GEC-I	33KV				Digaru Feeder	metered		manual reading	mixed				18145141		5.79		
B.157	dibrugarh	Tinsukia	33KV				Digboi Feeder	metered		manual reading	mixed				7421003		29.85		
B.158	dibrugarh	Tinsukia	33KV				Dinjaan Feeder	metered		manual reading	mixed				7421050		51.07		
B.159	nagaon	Kanch	33KV				Diphu Feeder	metered		manual reading	mixed				KAB03994		44.11		
B.160	Guwahati	GEC-I	33KV				Dispur Feeder	metered		manual reading	mixed				15006573		44.45		
B.16	Guwahati	GEC-I	33K				Dispur Feeder new	metered		manual read	mixed				IEM00000293A		0.83		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
1			V							ing										
B.162	#N/A	#N/A	33KV				DLF Feeder	metered		manual reading	mixed				ASE00420		0.00			
B.163	bongaigaon	Bongaigaon	33KV				Dolaigaon Feeder	metered		manual reading	mixed				916354		22.73			
B.164	dibrugarh	Tinsukia	33KV				Doomdooma Feeder	metered		manual reading	mixed				7420782		57.79			
B.165	Guwahati	GEC-II	33KV				DRDO Feeder	metered		manual reading	mixed				IEM00000521A		0.02			
B.166	Guwahati	GEC-II						metered		manual reading	mixed				XC598702		2.22			
B.167	nagaon	Nagaon	33KV				DRDO Feeder	metered		manual reading	mixed				ABB02685		2.98			
B.168	dibrugarh	Dibrugarh	33KV				Duliajan Feeder	metered		manual reading	mixed				HT011311195		36.59			
B.16	Guwahati	GEC-II	33K				EPIP Feeder	metered		manual read	mixed				AS898105		18.76			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
9			V							ing										
B.170	Guwahati	GEC-II						metered		manual reading	mixed				IEM00000548A		0.26			
B.171	bongaigaon	Kokrajhar	33KV				Fakiragram Feeder	metered		manual reading	mixed				ASE02993		39.03			
B.172	Guwahati	GEC-I	33KV				Fancy Bazar Feeder	metered		manual reading	mixed				HT011312 25		27.61			
B.173	Guwahati	GEC-I	33KV				Fatasil Feeder	metered		manual reading	mixed				ASE81369		57.98			
B.174	Guwahati	GEC-I						metered		manual reading	mixed				HT011312 27		0.43			
B.175	silchar	Badarpur	33KV				Feeder 1(R.K. Nagar)	metered		manual reading	mixed				ASEF9392		21.92			
B.176	silchar	Badarpur	33KV				Feeder 2(Patharkandi)	metered		manual reading	mixed				ASE03601		39.29			
B.177	silchar	Badarpur	33K				Feeder 3(Dullavcherra)	metered		manual read	mixed				NA		27.14			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
7			V							ing										
B.178	silchar	Badarpur	33KV				Feeder no 1(KXJ)	metered		manual reading	mixed				7421067		0.06			
B.179	silchar	Badarpur						metered		manual reading	mixed				ASE03118		0.00			
B.180	silchar	Badarpur	33KV				Feeder no 2(BDP)	metered		manual reading	mixed				7420949		48.01			
B.181	silchar	Badarpur						metered		manual reading	mixed				ASE03038		9.96			
B.182	silchar	Badarpur						metered		manual reading	mixed				XD522771		2.35			
B.183	silchar	Badarpur	33KV				Feeder no 3(HXD)	metered		manual reading	mixed				7420872		18.82			
B.184	silchar	Badarpur						metered		manual reading	mixed				ASE03073		4.43			
B.18	silchar	Badarpur	33K				Feeder no 4 Nirala	metered		manual read	mixed				7420967		4.89			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
5			V							ing										
B.186	silchar	Badarpur						metered		manual reading	mixed				ASE03074		1.15			
B.187	silchar	Cachar	33KV				Feeder no 5(KLN)	metered		manual reading	mixed				ASE03033		37.53			
B.188	silchar	Cachar	33KV				Fulertol Feeder	metered		manual reading	mixed				ASE03077		10.77			
B.189	rangia	Mangaldai	33KV				Futkitoli Feeder	metered		manual reading	mixed				ABB01261		31.27			
B.190	Guwahati	GEC-I	11KV				GAD Feeder	metered		manual reading	mixed				ASE70155		3.49			
B.191	jorhat	Sivsagar	33KV				Galeky Feeder	metered		manual reading	mixed				07421119		28.37			
B.192	Guwahati	GEC-I	11KV				Ganesh Mandir Feeder	metered		manual reading	mixed				ASE70151		4.88			
B.19	jorhat	Jorhat	33K				Garamur Feeder	metered		manual read	mixed				ASE18797		16.18			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
3			V							ing										
B.194	Guwahati	GEC-I	33KV				Garbhanga Feeder	metered		manual reading	mixed				ASE81354		8.69			
B.195	Guwahati	GEC-I						metered		manual reading	mixed				ASE81370		47.12			
B.196	Guwahati	GEC-II	33KV				Garchuck Feeder	metered		manual reading	mixed				13194486		67.82			
B.197	jorhat	Jorhat	33KV				Garmur Feeder	metered		manual reading	mixed				WBB990886		30.90			
B.198	bongaigaon	Kokrajhar	33KV				Gauripur Feeder	metered		manual reading	mixed				ASE42215		80.54			
B.199	jorhat	Sivsagar	33KV				Gaurisagar Feeder	metered		manual reading	mixed				KAB03973		9.18			
B.200	Guwahati	GEC-II	33KV				GMDA Feeder	metered		manual reading	mixed				HT01131229		0.00			
B.20	tezpur	Tezpur	33K				Gohpur Feeder	metered		manual read	mixed				ASE02980		26.65			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
1			V							ing									
B.202	jorhat	Golaghat	33KV				Golaghat 1 Feeder	metered		manual reading	mixed				KAB03989		23.58			
B.203	jorhat	Golaghat	33KV				Golaghat 2 Feeder	metered		manual reading	mixed				KAB03990		42.19			
B.204	bongaigaon	Kokrajhar	33KV				Gopigaon Feeder	metered		manual reading	mixed				HT011311199		71.10			
B.205	bongaigaon	Kokrajhar	33KV				Gossaigaon Feeder	metered		manual reading	mixed				7420798		40.32			
B.206	bongaigaon	Kokrajhar						metered		manual reading	mixed				ER300P		6.87			
B.207	jorhat	Golaghat	33KV				Gotonga Feeder	metered		manual reading	mixed				HT011311178		10.23			
B.208	jorhat	Golaghat						metered		manual reading	mixed				X1071873		40.53			
B.20	nagaon	KANCH	33K				Gunjung Feeder	metered		manual read	mixed				13196776		0.02			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
9			V							ing										
B.210	nagaon	KANCH						metered		manual reading	mixed				ASE78994		0.13			
B.211	nagaon	Kanch	33KV				Haflong Town Feeder	metered		manual reading	mixed				ASE03081		17.75			
B.212	silchar	Badarpur	33KV				Hailakandi Feeder	metered		manual reading	mixed				HT011312 15		98.54			
B.213	Guwahati	GEC-II	33KV				Hajo Feeder	metered		manual reading	mixed				IEM00000168A		0.21			
B.214	Guwahati	GEC-II						metered		manual reading	mixed				XC598699		47.74			
B.215	tezpur	Tezpur	33KV				Hanchara Feeder	metered		manual reading	mixed				ASEB5045		21.33			
B.216	nagaon	Kanch	33KV				Harangajao Feeder	metered		manual reading	mixed				ASE03080		3.58			
B.21	bongaigao	Kokrajhar	33K				Hathidhura Feeder	metered		manual read	mixed				APC04214		15.03			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
7	n		V							ing										
B.218	nagaon	Nagaon	33KV				Hatimura Feeder	metered		manual reading	mixed				XD448121		12.33			
B.219	dibrugarh	Dibrugarh	33KV				Hazal Bank Feeder	metered		manual reading	mixed				ASEF9875		26.41			
B.220	Guwahati	GEC-II	33KV				Hekera Feeder	metered		manual reading	mixed				AS897184		24.08			
B.221	tezpur	Tezpur	33KV				Helem Feeder	metered		manual reading	mixed				ASE02975		18.98			
B.222	jorhat	Sivsagar	33KV				HL Factory Feeder	metered		manual reading	mixed				ABB02885		3.52			
B.223	nagaon	Nagaon	33KV				Hojai Feeder	metered		manual reading	mixed				XD448117		59.36			
B.224	nagaon	Kanch	33KV				Howraghat Feeder	metered		manual reading	mixed				X1342672		48.82			
B.22	silchar	Cachar	33K				IBBL	metered		manual read	mixed				15052176		9.14			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
5			V							ing										
B.226	silchar	Cachar						metered		manual reading	mixed				XD522771		12.95			
B.227	Guwahati	GEC-II	33KV				IIIT Feeder	metered		manual reading	mixed				16194205		38.28			
B.228	Guwahati	GEC-II	33KV				IITG Feeder	metered		manual reading	mixed				ABB02746		31.14			
B.229	Guwahati	GEC-II						metered		manual reading	mixed				IEM00000384A		0.28			
B.230	Guwahati	GEC-I	33KV				Indian Hotel Feeder	metered		manual reading	mixed				ASE81347		8.77			
B.231	rangia	Mangaldai	33KV				Industry 1 Feeder	metered		manual reading	mixed				ABB01262		27.09			
B.232	rangia	Mangaldai	33KV				Industry 2 Feeder	metered		manual reading	mixed				ABB01248		0.03			
B.233	nagaon	Moriagaon	33K				Jagiroad Feeder	metered		manual read	mixed				X0412224		51.21			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
3			V							ing										
B.234	Guwahati	GEC-I	33KV				Jalukbari Feeder	metered		manual reading	mixed				18183022		61.81			
B.235	Guwahati	GEC-I	33KV				Jalukbari Feeder new	metered		manual reading	mixed				IEM00000487A		10.99			
B.236	rangia	Rangia	33KV				Jamtola Feeder	metered		manual reading	mixed				ABB02676		19.87			
B.237	tezpur	Tezpur	33KV				Jamuguri (Garhdoul)Feeder	metered		manual reading	mixed				ASE03408		0.01			
B.238	tezpur	Tezpur						metered		manual reading	mixed				ASE03411		2.66			
B.239	tezpur	Tezpur	33KV				Jamuguri Feeder	metered		manual reading	mixed				ASE03411		0.00			
B.240	tezpur	Tezpur						metered		manual reading	mixed				WBBA3494		46.13			
B.24	Guwahati	GEC-I	33K				Jawaharnagar Feeder	metered		manual read	mixed				ASE81356		104.90			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
1			V							ing										
B.242	Guwahati	GEC-I						metered		manual reading	mixed				ASE81367		47.81			
B.243	Guwahati	GEC-I	33KV				JawaharNagar I Feeder	metered		manual reading	mixed				15001259		14.07			
B.244	Guwahati	GEC-I	33KV				JawaharNagar I Feeder new	metered		manual reading	mixed				IEM00000337A		1.92			
B.245	Guwahati	GEC-I	33KV				JawaharNagar II Feeder	metered		manual reading	mixed				ABB02969		18.17			
B.246	Guwahati	GEC-I	33KV				JawaharNagar II Feeder new	metered		manual reading	mixed				IEM00000536A		5.13			
B.247	tezpur	N. Lakhimpur	33KV				Jonai Feeder	metered		manual reading	mixed				IEM00000127A		1.02			
B.248	jorhat	Jorhat	33KV				Jorhat Baghdhora(ONGC) Feeder	metered		manual reading	mixed				AS972736		8.61			
B.24	jorhat	Jorhat	33K				Jorhat Feeder 1	metered		manual read	mixed				ASE60232		37.44			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
9			V							ing										
B.250	jorhat	Jorhat	33KV				Jorhat Feeder 2	metered		manual reading	mixed				ASE52349		43.60			
B.251	jorhat	Jorhat	33KV				Jorhat Feeder 3	metered		manual reading	mixed				TNU01440		59.47			
B.252	bongaigaon	Kokrajhar	33KV				Kachugaon Feeder	metered		manual reading	mixed				APC04218		23.17			
B.253	Guwahati	GEC-I	33KV				Kahilipara Feeder	metered		manual reading	mixed				15006572		41.69			
B.254	Guwahati	GEC-I	33KV				Kahilipara Feeder new	metered		manual reading	mixed				IEM00000450A		5.63			
B.255	bongaigaon	Bongaigaon	33KV				Kajolgaon Feeder	metered		manual reading	mixed				7421054		8.48			
B.256	nagaon	Nagaon	33KV				Kaki Feeder	metered		manual reading	mixed				X1342674		16.58			
B.25	dibrugarh	Tinsukia	33K				Kakopathar	metered		manual read	mixed				7421041		29.10			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
7			V							ing									
B.258	bongaigaon	BONGAIGAON	33KV				Kakragaon Feeder	metered		manual reading	mixed				18145198		2.04		
B.259	rangia	Mangaldai	33KV				Kalaigaon Feeder	metered		manual reading	mixed				21140801		4.22		
B.260	rangia	Mangaldai						metered		manual reading	mixed				ABB01245		22.67		
B.261	Guwahati	GEC-I	33KV				Kamakhya Feeder	metered		manual reading	mixed				15001264		2.57		
B.262	Guwahati	GEC-I	33KV				Kamakhya Feeder (Fancy Bazar)	metered		manual reading	mixed				15001264		18.67		
B.263	Guwahati	GEC-I	33KV				Kamakhya Feeder (Fancy Bazar) new	metered		manual reading	mixed				IEM00000293A		3.10		
B.264	Guwahati	GEC-II	33KV				Kamakhya Local Feeder	metered		manual reading	mixed				HT0113122 4		63.09		
B.26	rangia	Rangia	33K				Kamalpur Feeder	metered		manual read	mixed				AEG00053		58.66		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
5			V							ing										
B.266	rangia	Rangia						metered		manual reading	mixed				AS898109		27.33			
B.267	rangia	Rangia						metered		manual reading	mixed				IEM00000396A		0.34			
B.268	silchar	BADARPUR	33KV				Karimganj Feeder	metered		manual reading	mixed				15625730		24.75			
B.269	silchar	BADARPUR	33KV				Karimganj Feeder (Feeder I)	metered		manual reading	mixed				15625730		42.05			
B.270	silchar	Badarpur	33KV				Karimganj New Feeder	metered		manual reading	mixed				XD522771		0.78			
B.271	nagaon	Nagaon	33KV				Kathiatoli Feeder	metered		manual reading	mixed				AS902512		76.85			
B.272	jorhat	Jorhat	33KV				Kenduguri/Kolakhowa/Kakojan feeder	metered		manual reading	mixed				ASE29119		14.26			
B.27	jorhat	Jorhat						metered		manual read	mixed				ASE29120		21.41			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
3										ing										
B.274	jorhat	Jorhat	34KV					metered		manual reading	mixed				ASE29120		10.13			
B.275	jorhat	Jorhat	(blank)					metered		manual reading	mixed				ASE29119		3.21			
B.276	dibrugarh	Dibrugarh	33KV				Khanikar Feeder	metered		manual reading	mixed				AEG00016		13.01			
B.277	bongaigaon	BARPETA	33KV				Kharichala Feeder	metered		manual reading	mixed				TNU02476		19.92			
B.278	bongaigaon	BARPETA	33KV				Kharichala Feeder(new)	metered		manual reading	mixed				X1326354		21.24			
B.279	bongaigaon	BARPETA	33KV				Kharichala Feeder(old)	metered		manual reading	mixed				TNU02476		0.03			
B.280	rangia	Rangia	33KV				Khatikuchi Feeder	metered		manual reading	mixed				18044162		8.31			
B.28	nagaon	Kanch	33K				Khatkhati Feeder	metered		manual read	mixed				IEM00000241A		0.42			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
1			V							ing										
B.282	nagaon	Kanch						metered		manual reading	mixed				KAB0988		42.63			
B.283	nagaon	Morigaon	33KV				Khetri Feeder(L-2)	metered		manual reading	mixed				XC576450		31.44			
B.284	jorhat	Sivsagar	33KV				Khowang Feeder	metered		manual reading	mixed				KAB03971		32.01			
B.285	nagaon	Kanch	33KV				KLHEP Feeder (Donkamokam)	metered		manual reading	mixed				ABB02970		26.68			
B.286	bongaigaon	Kokrajhar	33KV				Kokrajhar Feeder	metered		manual reading	mixed				ABB02887		4.61			
B.287	bongaigaon	Kokrajhar						metered		manual reading	mixed				KA908025		50.89			
B.288	jorhat	Sivsagar	33KV				Konwar Gaon Feeder	metered		manual reading	mixed				KAB03975		8.15			
B.28	silchar	BADARPUR	33K				KXJ Mohakal Feeder (NEW)	metered		manual read	mixed				XD522771		0.06			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
9			V							ing										
B.290	bongaigaon	Bongaigaon	33KV				Lakhipur Feeder	metered		manual reading	mixed				13196777		90.08			
B.291	nagaon	Nagaon	33KV				Lanka Feeder	metered		manual reading	mixed				ABB03745		86.64			
B.292	tezpur	Tezpur	33KV				Laxman Marg Feeder	metered		manual reading	mixed				KAU07272		11.78			
B.293	dibrugarh	Tinsukia	33KV				Ledo-Lekhapani Feeder I	metered		manual reading	mixed				ASE79036		40.75			
B.294	dibrugarh	Tinsukia	33KV				Ledo-Lekhapani Feeder II	metered		manual reading	mixed				14190031		13.23			
B.295	dibrugarh	Tinsukia	33KV				Ledo-Margherita Feeder	metered		manual reading	mixed				ASEG0411		58.02			
B.296	dibrugarh	Dibrugarh	33KV				Lepetkata Feeder	metered		manual reading	mixed				19375070		0.00			
B.29	jorhat	Golaghat	33K				Leteku Feeder	metered		manual read	mixed				KAB03976		38.72			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
7			V							ing										
B.298	jorhat	Sivsagar	33KV				LTPS Colony	metered		manual reading	mixed				APC08244		1.10			
B.299	nagaon	Kanch	33KV				Lumding Feeder	metered		manual reading	mixed				ABB02938		14.86			
B.300	nagaon	Kanch						metered		manual reading	mixed				ASE03147		17.15			
B.301	nagaon	KANCH	33KV				Lumding Feeder (new)	metered		manual reading	mixed				KAB03967		4.14			
B.302	nagaon	KANCH	33KV				Lumding Feeder (old)	metered		manual reading	mixed				ASE03147		0.83			
B.303	nagaon	Nagaon	33KV				Maheswari Feeder	metered		manual reading	mixed				X1738086		0.20			
B.304	nagaon	Kanch	33KV				Maibang Feeder	metered		manual reading	mixed				ASE03078		10.38			
B.30	jorhat	Sivsagar	33K				Maibella 33/11 KV SS	metered		manual read	mixed				APC09655		8.24			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
5			V							ing										
B.3006	dibrugarh	Tinsukia	33KV				Makum Feeder	metered		manual reading	mixed				ASED6701		37.42			
B.3007	bongaigaon	Barpeta	33KV				Mandia Feeder	metered		manual reading	mixed				XC477053		14.62			
B.3008	rangia	Mangaldai	33KV				Mangaldoi Feeder	metered		manual reading	mixed				ASE03068		15.90			
B.3009	bongaigaon	Barpeta	33KV				Manikpur Feeder	metered		manual reading	mixed				X1326350		28.33			
B.3110	nagaon	KANCH	33KV				Manja Feeder	metered		manual reading	mixed				ASE03046		6.55			
B.3111	nagaon	KANCH	33KV				Manja Feeder (new)	metered		manual reading	mixed				KAB03962		2.18			
B.3112	nagaon	KANCH	33KV				Manja Feeder (old)	metered		manual reading	mixed				ASE03046		0.64			
B.311	rangia	Rangia	33K				Maranjana Feeder(OA)	metered		manual read	mixed				ABB02673		81.81			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
3			V							ing										
B.314	jorhat	Jorhat	33KV				Mariani feeder	metered		manual reading	mixed				APC08930		19.81			
B.315	jorhat	Jorhat						metered		manual reading	mixed				ASED6622		35.52			
B.316	nagaon	Morigaon	33KV				Mayong Feeder	metered		manual reading	mixed				11071840		13.18			
B.317	nagaon	Morigaon						metered		manual reading	mixed				IEM00000356A		0.32			
B.318	tezpur	Tezpur	33KV				Mazbat Feeder	metered		manual reading	mixed				XD521568		29.52			
B.319	Guwahati	GEC-I	33KV				Medical (ALT) Feeder	metered		manual reading	mixed				15001238		7.49			
B.320	Guwahati	GEC-I	33KV				Medical (ALT) Feeder new	metered		manual reading	mixed				IEM00000477A		1.00			
B.32	Guwahati	GEC-I	33K				Medical (Main) Feeder	metered		manual read	mixed				15001262		48.17			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
1			V							ing										
B.322	Guwahati	GEC-I	33KV				Medical (Main) Feeder new	metered		manual reading	mixed				IEM00000418A		0.00			
B.323	tezpur	N. Lakhimpur	33KV				Medical Feeder	metered		manual reading	mixed				AP916262		0.49			
B.324	tezpur	N. Lakhimpur						metered		manual reading	mixed				X1719029		1.63			
B.325	Guwahati	GEC-I	33KV				Mega Alloy Feeder	metered		manual reading	mixed				15001240		15.48			
B.326	silchar	Cachar	33KV				Meherpur Feeder	metered		manual reading	mixed				ASE03083		41.01			
B.327	dibrugarh	Dibrugarh	33KV				MES Feeder	metered		manual reading	mixed				19375073		3.04			
B.328	dibrugarh	Tinsukia	33KV				MGT	metered		manual reading	mixed				ASEF9952		13.55			
B.32	tezpur	Tezpur	33K				Mijibari Feeder	metered		manual read	mixed				XD521569		65.09			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
9			V							ing										
B.330	nagaon	Morigaon	33KV				Mikirbheta Feeder	metered		manual reading	mixed				AEG00088		62.37			
B.331	Guwahati	GEC-II	33KV				Mirza Feeder	metered		manual reading	mixed				AEG00117		88.31			
B.332	Guwahati	GEC-II						metered		manual reading	mixed				AS898110		44.93			
B.333	tezpur	Tezpur	33KV				Missamari Feeder	metered		manual reading	mixed				ASE0281		23.26			
B.334	tezpur	Tezpur	33KV				Missamari(Army) Feeder	metered		manual reading	mixed				14190041		16.84			
B.335	dibrugarh	Dibrugarh	33KV				Moderkhat+ ICMR Feeder	metered		manual reading	mixed				ASED8255		40.53			
B.336	jorhat	Sivsagar	33KV				Moran Feeder	metered		manual reading	mixed				ABB02882		9.24			
B.33	jorhat	Sivsagar						metered		manual read	mixed				KAB03993		35.43			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
7										ing									
B.338	nagaon	Morigaon	33KV				Morigaon Feeder	metered		manual reading	mixed				916352		58.64			
B.339	bongaigaon	Bongaigaon	33KV				Mornoi Feeder	metered		manual reading	mixed				HT011311180		3.43			
B.340	bongaigaon	Bongaigaon						metered		manual reading	mixed				HT011311190		18.78			
B.341	jorhat	JORHAT	33KV				Murmuriya Feeder	metered		manual reading	mixed				21102149		3.84			
B.342	bongaigaon	Barpeta	33KV				Mushalpur Feeder	metered		manual reading	mixed				ABB01267		3.17			
B.343	dibrugarh	Tinsukia	33KV				Na Pukhuri Feeder	metered		manual reading	mixed				XC581859		15.89			
B.344	Guwahati	GEC-I	33KV				NABARD Feeder	metered		manual reading	mixed				15001256		1.09			
B.34	Guwahati	GEC-I	33K				NABARD Feeder(NEW)	metered		manual read	mixed				15001256		28.05			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
5			V							ing									
B.346	Guwahati	GEC-I						metered		manual reading	mixed				IEM00000447A		0.72		
B.347	nagaon	Nagaon	33KV				Nagaon Feeder 1	metered		manual reading	mixed				AS902510		76.12		
B.348	nagaon	Nagaon						metered		manual reading	mixed				(blank)		5.42		
B.349	nagaon	Nagaon	33KV				Nagaon Feeder 2	metered		manual reading	mixed				AS902498		71.50		
B.350	rangia	Rangia	33KV				Nalbari Feeder	metered		manual reading	mixed				ABB01268		63.83		
B.351	dibrugarh	Dibrugarh	33KV				Namrup	metered		manual reading	mixed				ASEB4473		0.58		
B.352	dibrugarh	Dibrugarh						metered		manual reading	mixed				ASED4470		74.26		
B.35	dibrugarh	Dibrugarh						metered		manual read	mixed				ASEK9678		15.86		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
3										ing										
B.354	dibrugarh	Dibrugarh	33KV				Namrup APL	metered		manual reading	mixed				21095835		19.04			
B.355	dibrugarh	Dibrugarh	33KV				Namrup Joypur	metered		manual reading	mixed				ASEK9684		5.21			
B.356	dibrugarh	Dibrugarh	33KV				Namrup- Naharkatia	metered		manual reading	mixed				ASEK9688		17.48			
B.357	dibrugarh	Dibrugarh	33KV				Namrup Township	metered		manual reading	mixed				ASE07116		0.01			
B.358	dibrugarh	Dibrugarh	33KV				Namrup-Rajgarh	metered		manual reading	mixed				ASEK9683		35.19			
B.359	bongaigaon	Kokrajhar	33KV				Nandini Feeder	metered		manual reading	mixed				7421066		58.14			
B.360	jorhat	GOLAGHAT	33KV				Naojan Feeder	metered		manual reading	mixed				21102188		2.70			
B.36	Guwahati	GEC-I	33K				Narengi Feeder	metered		manual read	mixed				ABB01133		39.37			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
1			V							ing										
B.362	Guwahati	GEC-I						metered		manual reading	mixed				ASE81364		71.71			
B.363	Guwahati	GEC-I						metered		manual reading	mixed				IEM00000256A		0.96			
B.364	Guwahati	GEC-I						metered		manual reading	mixed				IEM00000305A		1.79			
B.365	bongaigaon	Barpeta	33KV				Nathkuchi Feeder	metered		manual reading	mixed				X6349		55.84			
B.366	Guwahati	GEC-I	11KV				New Assembly Feeder	metered		manual reading	mixed				ASE70152		0.99			
B.367	nagaon	Kanch	33KV				New Bokajan Feeder(Balipathar)	metered		manual reading	mixed				AS972735		12.21			
B.368	Guwahati	GEC-I	11KV				New Jatia Feeder	metered		manual reading	mixed				ASE70154		6.92			
B.36	Guwahati	GEC-I	11K				New South Feeder	metered		manual read	mixed				ASE70153		5.72			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
9			V							ing									
B.370	tezpur	N. Lakhimpur	33KV				NHPC Feeder	metered		manual reading	mixed				XB475408		32.09			
B.371	silchar	BADARPUR	33KV				Nilambazar Feeder	metered		manual reading	mixed				15625716		9.73			
B.372	silchar	BADARPUR	33KV				Nilambazar Feeder (Feeder IV)	metered		manual reading	mixed				15625716		19.73			
B.373	nagaon	Nagaon	33KV				Nilbagan Feeder	metered		manual reading	mixed				X1342671		88.02			
B.374	Guwahati	GEC-II	33KV				North Guwahati Feeder	metered		manual reading	mixed				AS898116		74.11			
B.375	Guwahati	GEC-II						metered		manual reading	mixed				IEM00000131A		0.69			
B.376	tezpur	N. Lakhimpur	33KV				North Lakhimpur Feeder	metered		manual reading	mixed				ASE02965		65.44			
B.377	jorhat	Golaghat	33K				Numaligarh Feeder	metered		manual read	mixed				KAB03970		31.10			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
7			V							ing									
B.3788	bongaigaon	Bongaigaon	33KV				Oil Feeder	metered		manual reading	mixed				7420868		0.79		
B.3789	nagaon	Kanch	33KV				Old Bokajan Feeder	metered		manual reading	mixed				ASE03163		0.00		
B.3800	Guwahati	GEC-I	33KV				Paltan Bazar (ALT) Feeder	metered		manual reading	mixed				15006574		8.24		
B.3801	Guwahati	GEC-I	33KV				Paltan Bazar (ALT) Feeder new	metered		manual reading	mixed				IEM00000140A		0.52		
B.3802	Guwahati	GEC-I	33KV				Paltanbazar Feeder	metered		manual reading	mixed				ASE81368		50.92		
B.3803	bongaigaon	Kokrajhar	33KV				Panbari Feeder	metered		manual reading	mixed				ASE02996		22.80		
B.3804	tezpur	N. Lakhimpur	33KV				Panchali Feeder	metered		manual reading	mixed				XB475409		17.44		
B.38	rangia	Mangaldai	33K				Paneri Feeder	metered		manual read	mixed				21140691		31.99		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
5			V							ing										
B.386	rangia	Mangaldai						metered		manual reading	mixed				ASE0…		17.04			
B.387	silchar	CACHAR	33KV				Pangram Feeder	metered		manual reading	mixed				15625683		4.87			
B.388	jorhat	Jorhat	33KV				Panichakua Feeder	metered		manual reading	mixed				HT011312 16		12.51			
B.389	dibrugarh	Tinsukia	33KV				Panitola Feeder	metered		manual reading	mixed				X1294697		7.38			
B.390	tezpur	TEZPUR	33KV				Parowa Feeder	metered		manual reading	mixed				IEM00000526A		2.15			
B.391	tezpur	TEZPUR						metered		manual reading	mixed				TN901242		8.06			
B.392	tezpur	Tezpur	33KV				Patanjali Feeder	metered		manual reading	mixed				16043496		4.19			
B.39	silchar	BADARPUR	33K				Patherkandi Feeder	metered		manual read	mixed				15625730		10.15			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
3			V							ing										
B.394	silchar	BADARPUR	33KV				Patherkandi Feeder (Feeder II)	metered		manual reading	mixed				15625730		1.11			
B.395	silchar	BADARPUR	33KV				Patherkandi Feeder (Reading after feeder change to Feeder III)	metered		manual reading	mixed				15625709		3.13			
B.396	silchar	BADARPUR	33KV				Patherkandi Feeder III	metered		manual reading	mixed				15625709		20.60			
B.397	bongaigaon	Barpeta	33KV				Pathsala Feeder	metered		manual reading	mixed				AS898114		29.17			
B.398	tezpur	Tezpur	33KV				Pavoi Feeder	metered		manual reading	mixed				ASE18799		23.17			
B.399	nagaon	Nagaon	33KV				PCL Feeder	metered		manual reading	mixed				ASE19797		18.08			
B.400	tezpur	Tezpur	33KV				PGCIL Colony Feeder	metered		manual reading	mixed				7420934		0.25			
B.40	nagaon	Kanch	33K				PGCIL Feeder	metered		manual read	mixed				916359		0.21			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
1			V							ing										
B.402	nagaon	Kanch						metered		manual reading	mixed				X0631117		0.19			
B.403	silchar	Cachar	33KV				PGCIL(i)	metered		manual reading	mixed				ABB01114		0.26			
B.404	silchar	Cachar	33KV				PGCIL(ii)	metered		manual reading	mixed				X0110998		0.00			
B.405	dibrugarh	Dibrugarh	33KV				Phoolbagan Feeder	metered		manual reading	mixed				19375087		30.26			
B.406	jorhat	Sivsagar	33KV				Phukan Nagar Feeder	metered		manual reading	mixed				KAB03979		54.51			
B.407	jorhat	Jorhat	33KV				Phuloni Feeder	metered		manual reading	mixed				ASE18794		9.84			
B.408	rangia	Rangia	33KV				Poila Feeder	metered		manual reading	mixed				ABB01266		34.53			
B.40	tezpur	Tezpur	33K				Poruwa Feeder	metered		manual read	mixed				ASE03408		48.25			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
9			V							ing										
B.410	jorhat	Jorhat	33KV				Pulibor Feeder	metered		manual reading	mixed				HT011311191		11.24			
B.411	nagaon	Kanch	33KV				Quarry feeder	metered		manual reading	mixed				ASE03591		1.12			
B.412	jorhat	Golaghat	33KV				Radhabari Feeder	metered		manual reading	mixed				KAB03972		17.77			
B.413	bongaigaon	Bongaigaon	132KV				Railway	metered		manual reading	mixed				18145246		16.00			
B.414	dibrugarh	Tinsukia	33KV				Railway Feeder	metered		manual reading	mixed				X0688235		4.06			
B.415	dibrugarh	Dibrugarh	33KV				Railway Feeder(new)	metered		manual reading	mixed				X1086955		4.51			
B.416	bongaigaon	Bongaigaon	33KV				Railways Feeder	metered		manual reading	mixed				TNU03741		10.98			
B.4	dibrug	Dibrugarh	33				Rajgarh Feeder	meter		manual	mixed				KAB03980		10.32			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
17	arh		KV					ed		reading									
B.418	rangia	RANGIA	33KV				Rangia Feeder	metered		manual reading	mixed				ABB02677		34.97		
B.419	silchar	Badarpur	33KV				RK Nagar Feeder	metered		manual reading	mixed				ASE03088		25.57		
B.420	silchar	Badarpur						metered		manual reading	mixed				HT011312 05		0.02		
B.421	rangia	Mangaldai	33KV				Rowta(Local) Feeder	metered		manual reading	mixed				ASE02982		24.01		
B.422	nagaon	Nagaon	33KV				Rupahi Feeder	metered		manual reading	mixed				AS902645		2.29		
B.423	nagaon	Nagaon						metered		manual reading	mixed				WBBC0572		36.81		
B.424	jorhat	Sivsagar	33KV				Salkathoni Feeder	metered		manual reading	mixed				AEG00041		39.31		
B.4	bongai	Kokrajhar	33				Salkocha Feeder	meter		manual	mixed				HT011312		13.87		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
25	gaon		KV					ed		reading					04					
B.426	nagaon	Nagaon	33KV				Samaguri Feeder	metered		manual reading	mixed				X1342683		20.08			
B.427	Guwahati	GEC-II	33KV				Samaria Feeder	metered		manual reading	mixed				ABB01265		27.40			
B.428	jorhat	Sivsagar	33KV				Santak Feeder	metered		manual reading	mixed				X1624463		11.67			
B.429	nagaon	Kanch	33KV				Sarihajan Feeder	metered		manual reading	mixed				ASE79112		11.29			
B.430	nagaon	Kanch						metered		manual reading	mixed				IEM00000173A		0.07			
B.431	jorhat	Golaghat	33KV				Sarupathar Feeder	metered		manual reading	mixed				21102207		27.46			
B.432	jorhat	Golaghat						metered		manual reading	mixed				ASE79107		7.84			
B.4	jorhat	Golaghat						meter		manual	mixed				IEM00000		0.00			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
33								ed		reading					211A					
B.434	jorhat	Sivsagar	33KV				Sepon Feeder	metered		manual reading	mixed				ASE79031		15.46			
B.435	dibrugarh	Dibrugarh	33KV				Sesa Feeder	metered		manual reading	mixed				AEG00008		14.09			
B.436	Guwahati	GEC-II	33KV				Shivsai Feeder	metered		manual reading	mixed				ABB02747		13.28			
B.437	Guwahati	GEC-II						metered		manual reading	mixed				IEM00000145A		0.18			
B.438	bongaigaon	Bongaigaon	33KV				Shyamthaibari Feeder	metered		manual reading	mixed				12091775		7.40			
B.439	tezpur	N. Lakhimpur	33KV				Silapathar Feeder	metered		manual reading	mixed				XB475411		66.26			
B.440	tezpur	N. Lakhimpur	33KV				Silapather Feeder	metered		manual reading	mixed				IEM00000128A		0.21			
B.4	silchar	Cachar	33				Silchar I Feeder	meter		manual	mixed				ASE79087		82.66			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
41			KV					ed		reading									
B.442	silchar	Cachar	33KV				Silchar II Feeder	metered		manual reading	mixed				ABB01131		88.66		
B.443	silchar	Cachar	33KV				Silchar III Feeder	metered		manual reading	mixed				ASE79085		88.50		
B.444	nagaon	Nagaon	33KV				Silghat Feeder	metered		manual reading	mixed				AS902615		38.88		
B.445	tezpur	N. Lakhimpur	33KV				Silonibari feeder	metered		manual reading	mixed				ASE02968		26.11		
B.446	bongaigaon	Bongaigaon	33KV				Simlabari	metered		manual reading	mixed				APC04226		29.68		
B.447	tezpur	Tezpur	33KV				Singri Feeder	metered		manual reading	mixed				XD521571		8.00		
B.448	jorhat	Sivsagar	33KV				Sivasagar I Feeder	metered		manual reading	mixed				APC04105		17.41		
B.4	jorhat	Sivsagar	33				Sivasagar II Feeder	meter		manual	mixed				ABB02886		0.00		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
49			KV					ed		reading									
B.450	Guwahati	GEC-II	33KV				Solar Feeder	metered		manual reading	mixed				Q0336100		0.08		
B.451	Guwahati	GEC-II						metered		manual reading	mixed				X1457977		0.05		
B.452	Guwahati	GEC-I	33KV				Sonapur Feeder	metered		manual reading	mixed				ASE81358		44.43		
B.453	Guwahati	GEC-I	33KV				Sonapur Feeder (L-1)	metered		manual reading	mixed				XC576460		78.55		
B.454	tezpur	Tezpur	33KV				Sootea Feeder	metered		manual reading	mixed				ASE79017		42.24		
B.455	bongaigaon	Barpeta	33KV				Sorbhog Feeder	metered		manual reading	mixed				X1326353		22.01		
B.456	silchar	Cachar	33KV				Srikona Feeder	metered		manual reading	mixed				ABB01250		42.70		
B.4	Guwa	GEC-I	22				Star Cement (OA)	meter		manual	mixed				ASEB5146		56.88		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
57	hati		0KV					ed		reading									
B.458	Guwahati	GEC-II	33KV				Sualkuchi Feeder	metered		manual reading	mixed				18183096		41.20		
B.459	Guwahati	GEC-II						metered		manual reading	mixed				IEM00000465A		0.44		
B.460	silchar	BADARPUR	33KV				Subash Nagar Feeder	metered		manual reading	mixed				15625709		7.04		
B.461	silchar	BADARPUR	33KV				Subash Nagar Feeder (Feeder III)	metered		manual reading	mixed				15625709		0.68		
B.462	silchar	BADARPUR	33KV				Subhash Nagar Feeder (Reading after feeder change to Feeder II)	metered		manual reading	mixed				15625662		12.55		
B.463	silchar	BADARPUR						metered		manual reading	mixed				15625730		2.09		
B.464	jorhat	Sivsagar	33KV				Sufry Feeder	metered		manual reading	mixed				AEG00084		13.23		
B.	tez	Tezpur	3				Surya Tapp(Solar)	me		man	mixe				WBB		0.0		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
465	pur		33KV				Feeder	metered		manual reading	d				A3495		3			
B.466	dibrugarh	Tinsukia	33KV				Tallap-Dhola	metered		manual reading	mixed				14190036		20.35			
B.467	rangia	Rangia	33KV				Tamulpur Feeder	metered		manual reading	mixed				ABB02671		47.52			
B.468	rangia	Mangaldai	33KV				Tangla Feeder	metered		manual reading	mixed				21140834		14.32			
B.469	rangia	Mangaldai						metered		manual reading	mixed				ABB02675		33.97			
B.470	dibrugarh	Tinsukia	33KV				Tengapani/Margherita	metered		manual reading	mixed				ASE03106		7.72			
B.471	jorhat	Jorhat	33KV				Teok Feeder	metered		manual reading	mixed				ABB01238		23.37			
B.472	jorhat	Jorhat						metered		manual reading	mixed				AS972739		6.03			
B.	jor	Sivsag	3				Teok Kakojan Feeder	me		man	mixe				X171		27.			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
473	hat	ar	3KV					ter ed		ual read ing	d				9160		50			
B.474	jor hat	Sivsagar	33KV				Teok-Amguri Feeder	me ter ed		man ual read ing	mixe d				–		0.00			
B.475	jor hat	Sivsagar						me ter ed		man ual read ing	mixe d				n/a		0.00			
B.476	jor hat	Sivsagar						me ter ed		man ual read ing	mixe d				(blank)		0.00			
B.477	jor hat	Jorhat	33KV				Teok-Bhogamukh Feeder	me ter ed		man ual read ing	mixe d				21102142		4.21			
B.478	jor hat	Sivsagar	33KV				Teok-Jhanji Feeder	me ter ed		man ual read ing	mixe d				X1420898		21.69			
B.479	jor hat	Sivsagar						me ter ed		man ual read ing	mixe d				(blank)		0.00			
B.480	tez pur	Tezpur	33KV				Tezpur III Feeder	me ter ed		man ual read ing	mixe d				MSB 56940		25.22			
B.	tez	Tezpur	3				Tezpur Medical	me		man	mixe				1319		3.5			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
481	pur		33KV				College	metered		manual reading	d				6775		4			
B.482	tezpur	Tezpur	33KV				Tezpur Town Feeder	metered		manual reading	mixed				ASE03410		55.82			
B.483	tezpur	Tezpur	33KV				Tezpur University Feeder	metered		manual reading	mixed				916238		3.85			
B.484	tezpur	Tezpur						metered		manual reading	mixed				IEM00000473A		0.04			
B.485	jorhat	Jorhat	33KV				Titabor Feeder	metered		manual reading	mixed				ASE29121		63.24			
B.486	Guwahati	GEC-II	33KV				Topcem Feeder	metered		manual reading	mixed				IEM00000262A		0.17			
B.487	Guwahati	GEC-II						metered		manual reading	mixed				XC598700		16.81			
B.488	dibrugarh	Tinsukia	33KV				Town Feeder	metered		manual reading	mixed				ASED6694		45.68			
B.	ran	Manga	3				Udalguri Feeder	me		man	mixe				ASE0		24.			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
489	gia	ldai	3KV					tered		ual reading	d				3070		69			
B.490	silchar	Cachar	33KV				Udharbond 1 Feeder	metered		manual reading	mixed				ASE03084		39.10			
B.491	silchar	Cachar	33KV				Udharbond 2 Feeder	metered		manual reading	mixed				ASEF9398		23.64			
B.492	silchar	CACHAR	33KV				Udharbond Feeder	metered		manual reading	mixed				ASE03084		2.89			
B.493	Guwahati	GEC-I	33KV				Ulubari I Feeder	metered		manual reading	mixed				15001260		39.96			
B.494	Guwahati	GEC-I	33KV				Ulubari I Feeder new	metered		manual reading	mixed				IEM00000276A		7.18			
B.495	Guwahati	GEC-I	33KV				Ulubari II Feeder	metered		manual reading	mixed				15001261		51.03			
B.496	Guwahati	GEC-I	33KV				Ulubari II Feeder new	metered		manual reading	mixed				IEM00000162A		8.13			
B.	Gu	GEC-I	3				Ulubari III Feeder	me		man	mixe				1500		43.			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
497	wahati		33KV					tered		ual reading	d				1253		78			
B.498	Guwahati	GEC-I	33KV				Ulubari III Feeder new	metered		manual reading	mixed				IEM0000221A		8.37			
B.499	nagaon	Kanch	33KV				Umrangso Feeder	metered		manual reading	mixed				AP923105		7.33			
B.500	dibrugarh	Dibrugarh	33KV				University Feeder	metered		manual reading	mixed				AEG0020		24.78			
B.501	jorhat	Golaghat	33KV				Usha Feeder	metered		manual reading	mixed				KAB03983		38.87			
B.502	Guwahati	GEC-I	33KV				Uzanbazar Feeder	metered		manual reading	mixed				ABB01132		40.78			
B.503	Guwahati	GEC-I						metered		manual reading	mixed				IEM0000537A		0.70			
B.504	Guwahati	GEC-I	33KV				Zika Feeder	metered		manual reading	mixed				20002784		31.52			
B.	Gu	GEC-I						me		man	mixe				IEM0		0.4			

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																			
505	wahati							metered		manual reading	d				00000203A		9			
B.506	Guwahati	GEC-I	33KV				Zoo Road Feeder(Japorigog)	metered		manual reading	mixed				ABB01134		53.32			
B.507	Guwahati	GEC-I						metered		manual reading	mixed				IEM00000196A		0.79			
B.508							RUKSIN JONAI	metered		manual reading	interstate				ASA84308			6.18		
B.509							B'KUND - BALIMUKH	metered		manual reading	interstate				AS902484			0.37		
B.510							CHANKI MORIANI	metered		manual reading	interstate				X1444619			10.41		
B.511							D'DOOMA NAMSAI	metered		manual reading	interstate				ASE03050			27.45		
B.512							DHALAIBIL SIZUSSA	metered		manual reading	interstate				X0219264			1.51		
B.							DIGBOI-	me		man	inter				ASE0			1.		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
513							BORDUMSHA	metered		manual reading	state				8570			52		
B.514							DIPABASTI	metered		manual reading	inter state				ASE18784			0.38		
B.515							GARGAON N'MARA	metered		manual reading	inter state				N/A			0.00		
B.516							GARGAON N'MARA	metered		manual reading	inter state				-			0.00		
B.517							GARGAON N'MARA	metered		manual reading	inter state				(blank)			0.00		
B.518							GOHPUR BALIJAN	metered		manual reading	inter state				N/A			0.00		
B.519							GOHPUR BALIJAN	metered		manual reading	inter state				-			0.00		
B.520							LIKABALI - S'PATHAR	metered		manual reading	inter state				APC05805			3.66		
B.							L'PANI JAYRAMPUR	me		man	inter				2007			28		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
521								ter ed		ual read ing	state				4773			.62		
B.522							M'RITA CHENGLENG	me ter ed		man ual read ing	inter state				X003 8389			2.54		
B.523							Namsang TE	me ter ed		man ual read ing	inter state				2114 0826			0.44		
B.524							Santipur	me ter ed		man ual read ing	inter state				N/A			0.00		
B.525							Santipur	me ter ed		man ual read ing	inter state				-			0.00		
B.526							S'KATHANI KANUBARI	me ter ed		man ual read ing	inter state				ASE9 8273			5.11		
B.527							SONARI TIGIT	me ter ed		man ual read ing	inter state				X045 7763			0.00		
B.528							Sunpura	me ter ed		man ual read ing	inter state				-			0.00		
B.							Sunpura	me		man	inter				X003			0.		

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)																				
529								tered		ual reading	state				836			20		
B.5301							Sunpura	metered		manual reading	inter state				X1833469			1.13		
B.5311							OPEN ACCESS											88.57		
B.10001	**Total (MU)**																**11410.16**	**178.08**		
B.10002	**Net input energy at DISCOM periphery (MU)**																**11232.08**			

Color code			**Parameter**
			Please enter voltage level or leave blank
			Please enter feeder id and name or leave blank

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)			
			Enter meter no or leave blank
			Enter CT/PT ratio or leave blank
0			Please enter numeric value or 0
			Please select yes or no from list
			Formula protected

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised
Signatory and Seal

Nodal Officer

Signature:-

Name of Energy Manager*:

Registration Number:

Name of Authorised Signatory
Name of the DISCOM:
Full Address:-

Annexure for Audit Detail Of APDCL

Form-Input energy(Details of Input energy & Infrastructure)
with seal

11.3. Annexure -3 – Details of received sources 2022-23 (as per bee format)

Details of Input Energy Sources								
Period From….To….								
A. Generation at Transmission Periphery (Details)								
S.No.	**Name of Generation Station**	**Generation Capacity (In MW)**	**Type of Station Generation (Based- Solid (Coal ,Lignite)/Liquid/Gas/Renewable (biomass- bagasse)/Others)**	**Type of Contract (in years/months/days)**	**Type of Grid (Intra-state/Inter-state)**	**Point of Connection (POC) Loss MU**	**Voltage Level (At input)**	**Remarks (Source of data)**
1	LRPP	69.755	Gas	35 YEARS	INTRA-STATE	0	132kV	
2	LTPS	97.2	Gas	35 YEARS	INTRA-STATE	0	132kV	
3	NRPP	41	Gas	35 YEARS	INTRA-STATE	0	132kV	
4	NTPS	98.4	Gas	35 YEARS	INTRA-STATE	0	132kV	
5	KLHEP	100	Hydro	25 YEARS	INTRA-STATE	0	132kV	
6	MSHEP	13.5	Small Hydro	25 YEARS	INTRA-STATE	0	132kV	
7	KOPILI-I	106.91	Hydro	25 YEARS	INTER-STATE	0	132 kV	AITL , POSOCO
8	KOPILI-II	13	Small Hydro	25 YEARS	INTER-STATE	0	132 kV	
9	KHANGDONG	28.14	Hydro	25 YEARS	INTER-STATE	0	132 kV	

Annexure for Audit Detail Of APDCL

Details of Input Energy Sources								
10	RANGANADI	175.47	Hydro	25 YEARS	INTER-STATE	20.28	400kV	
11	DOYANG	32.856	Hydro	25 YEARS	INTER-STATE	2.548	132 kV	
12	PARE	44.561	Hydro	25 YEARS	INTER-STATE	7.247	132 kV	
13	KAMENG	64.98	Hydro	25 YEARS	INTER-STATE	10.858	400kV / 132 kV	
14	AGBPP	164.42	Gas	35 YEARS	INTER-STATE	33.53	220 kV	
15	AGTPP	59.02	Gas	35 YEARS	INTER-STATE	13.297	132 kV	
16	LOKTAK	30.91	Hydro	25 YEARS	INTER-STATE	4.423	400kV / 132 kV	
17	BgTPP NTPC	430.65	Coal	25 YEARS	INTER-STATE	106.83	400kV / 132 kV	
18	OTPC	240	Gas	35 YEARS	INTER-STATE	56.463	400kV / 132 kV	
19	FARRAKA I	39.29	Coal	35 YEARS	INTER-STATE	8.463314729	400kV / 132 kV	as per REA ,
20	KAHALGAON I	17.68	Coal	35 YEARS	INTER-STATE	3.588624892	400kV / 132 kV	
21	KAHALGAON II	76.4	Coal	35 YEARS	INTER-STATE	17.79825911	400kV / 132 kV	
22	TALCHAR	20.95	Coal	35 YEARS	INTER-STATE	5.641839915	400kV / 132 kV	
23	FARRAKA III	0	Coal	_	INTER-STATE	0.097995595	400kV / 132 kV	
24	BHUTAN HYDRO	144.14	Hydro	25 YEARS	INTER-STATE	15.37256087	400kV / 132 kV	
25	HHPCPL	4.05	Small Hydro	5 YEARS	INTRA-STATE	0	33 Kv	

Annexure for Audit Detail Of APDCL

Details of Input Energy Sources								
26	AZURE SOLAR	90	Solar	25 YEARS	INTRA-STATE	0	33 Kv	
27	MAHESHWARI SOLAR	10	Solar	25 YEARS	INTRA-STATE	0	33 Kv	
28	SEIPL SOLAR	5	Solar	25 YEARS	INTRA-STATE	0	33 Kv	
29	JAKSON SOLAR	70	Solar	25 YEARS	INTRA-STATE	0	33 Kv	
30	PATANJALI SOLAR	4	Solar	25 YEARS	INTRA-STATE	0	33 Kv	
31	NVVN SOLAR	5	Solar	35 YEARS	INTER-STATE	0	400 kV / 132 kV	
32	SECI SOLAR	20	Solar	25 YEARS	INTER-STATE	0	400 kV / 132 kV	
33	MYTRAH WIND	50	Wind	25 YEARS	INTER-STATE	0	400 kV / 132 kV	
34	GIWEL WIND	50	Wind	25 YEARS	INTER-STATE	0	400 kV / 132 kV	

11.4. Annexure – 4 Details of Consumer & Consumption (2022-23)

(Details of Consumers)						
Summary of Energy						
Period From….To….						
S.No	**Type of Consumers**	**Category of Consumers (EHT/HT/LT/Others)**	**Voltage Level (In Voltage)**	**No of Consumers**	**Total Consumption (In MU)**	**Remarks (Source of data)**
1	Domestic	HT & LT	11/0.4 kv	6233460	4565.269265	domestic, domestic A , domestic B , jeevan dhara, temporary supply (domestic)
2	Commercial	LT	0.4kv	344961	916.6423	
3	IP Sets					
4	Hor. & Nur. & Coffee/Tea & Rubber (Metered)	HT &LT	11/0.4 kv	1312	558.66178	
5	Hor. & Nur. & Coffee/Tea & Rubber (Flat)					
6	Heating and Motive Power					
7	Water Supply					
8	Public Lighting	LT	0.4 kv	3511	22.51962872	
9	HT Water Supply	HT	11 kv	10178	134.5966455	public water works
10	HT Industrial	HT	11/33kv	2812	1402.385416	HT-I , HT - II (TOD & non TOD)
11	Industrial (Small)	HT	11kv	21927	124.0382611	small industry (rural & urban) . HT small industry
12	Industrial (Medium)					
13	HT Commercial	HT	11/33kv	5241	544.794621	oil &coal, HT Commerial

Annexure for Audit Detail Of APDCL

(Details of Consumers)						
14	Applicable to Government Hospitals & Hospitals					
15	Lift Irrigation Schemes/Lift Irrigation Societies	HT &LT	11/0.4 kv	985	18.46709299	HT irrigation (abov 25kw and 7.5hp)
16	HT Res. Apartments Applicable to all areas					
17	Mixed Load					
18	Government offices and department					
19	BULK SUPPLY (GOVT EDUCATION)	HT	11kv	359	102.1349038	
20	BULK SUPPLY (OTHERS)	HT	11kv	1659	455.7749161	
21	AGRICULTURE	LT	0.4kv	44060	45.09059883	temporary supply (agriculture) included
22	GENERAL PURPOSE	LT	0.4kv	100865	156.7680826	
23	ELECTRIC VEHICLE CHARGING STATION (HT & LT)	HT & LT	11/0.4 kv	5	0.289948204	
24	HT CREMATORIUM	HT	11 kv	1	0.538847192	
25	TEMPORARY SUPPLY	HT & LT	11/0.4 kv	742	6.995752058	HT & NON DOMESTIC
26	HT RAILWAY TRACTION	HT	11kv ABOVE	6	81.27200362	
27						
28						
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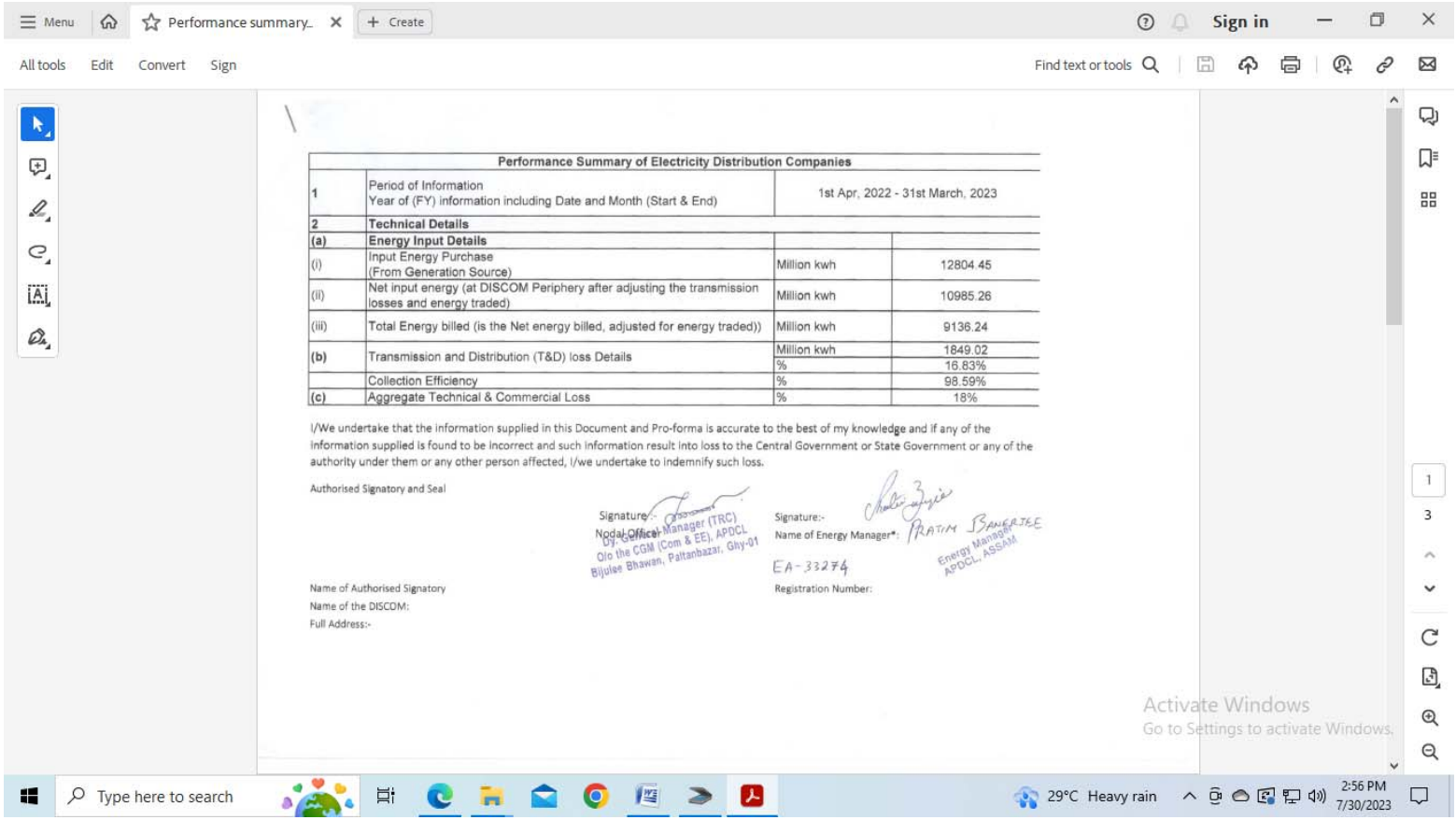
36						
37						
38						

Annexure for Audit Detail Of APDCL

(Details of Consumers)						
39						
40						
	Total			6772084	9136.24	

11.5. Performance summary



Performance Summary of Electricity Distribution Companies

1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st Apr, 2022 - 31st March, 2023	
2	**Technical Details**		
(a)	**Energy Input Details**		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	12804.45
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	10985.26
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	9136.24
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	1849.02
		%	16.83%
	Collection Efficiency	%	98.59%
(c)	Aggregate Technical & Commercial Loss	%	18%

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal

Signature:-
Nodal Officer

Dy. General Manager (TRC)
O/o the CGM (Com & EE), APDCL
Bijulee Bhawan, Paltanbazar, Ghy-01

Signature:-
Name of Energy Manager*: PRATIM BANERJEE
Energy Manager
APDCL, ASSAM
EA-33274
Registration Number:

Name of Authorised Signatory
Name of the DISCOM:
Full Address:-

Annexure for Audit Detail Of APDCL

76	Total		Residential	3082593	1150887	6293480	92%	5226.93	675.477	5904.81	60%	10985.26	3620.92	944.349	4565.27	50%	1849.02	17%	3513.1	3334.43	94.84%	
			Agricultural	36587	8458	45045	1%	112.058	30.873	142.931	1%		38.8558	24.7021	63.5577	1%			51.4528	47.778	92.89%	
			Commercial/Industrial-LT	847352	19536	366888	5%	1180.9	30.1361	1211.03	12%		957.608	83.0721	1040.68	11%			1025.12	1061.04	103.50%	
			Commercial/Industrial-HT	9222	149	9365	0%	1851.07	29.9434	1880.41	19%		2490.01	15.8826	2505.84	27%			1927.45	2983.85	102.40%	
			Others	103423	13903	117326	2%	688.082	61.2316	749.314	8%		818.276	142.619	960.891	11%			927.726	917.544	98.90%	
77	At company level			5579177	1192907	6772084	100%	9041.44	847.061	9888	100%	10985.26	7925.67	1210.57	9136.24	100%	1849.02	16.83%	7854.83	7744.14	98.59%	18%

** Note - It shall be mandatory to record the energy supplied separately for each category of consumers which is being provided a separate rate of subsidy in the tariff, by the state government, so that the subsidy due for the electricity distribution company is quarterly calculated by multiplying the energy supplied to each of such category of consumers by the applicable rate of subsidy notified by the state government.

Color code	Parameter
	Please enter name of circle
	Please enter circle code
0	Please enter numeric value or 0
	Formula protected

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal

Name of Authorised Signatory:

Name of the DISCOM:
Full Address:

Seal

NODAL OFFICER
SIGNATURE

Dy. General Manager (TRC)
O/o the CGM (Com & EE), APDCL
Bijulee Bhawan, Paltanbazar, Ghy-01

Signature:
Name of Energy Manager:
Registration Number:

Energy Manager
APDCL, ASSAM

PRATIM BANERJEE
EA-33274

Annexure for Audit Detail Of APDCL

3.1001	Total (MU)			11410.16	178.08			
3.1002	Net input energy at DISCOM periphery (MU)					11232.08		

Color code			Parameter
			Please enter voltage level or leave blank
			Please enter feeder id and name or leave blank
			Enter meter no or leave blank
			Enter CT/PT ratio or leave blank
0			Please enter numeric value or 0
			Please select yes or no from list
			Formula protected

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal

Name of Authorised Signatory
Name of the DISCOM:
Full Address:-

with seal

Nodal Officer
Signature:-

Dy. General Manager (TRC)
O/o the CGM (Com & EE), APDCL
Bijulee Bhawan, Paltanbazar, Ghy-01

Signature:-
Name of Energy Manager*:
Registration Number:

PRATIM BANERJEE

Energy Manager
APDCL, ASSAM

EA-33274

Annexure for Audit Detail Of APDCL

11.6. Circle-wise Performance Summary

CIRCLE-WISE PERFORMANCE OF A.P.D.C.L

Month: April'23

`In Lakhs.

Sl No	Name of Circle	Unit injected in MU	Energy billed in MU	Billing efficiency	Collection efficiency	A T & C Losses	A.R.R.	Average billing rate	Consumer billing percentage %	No of defaulter consumers at the end of the	Total outstanding			No of days receivable		Total no of consumers	Current demand	Total collection			
											Freeze & PDC	Regular	Total	Total	Excluding PDC & Freeze						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)			
1	Guwahati-I	110.53	102.56	93%	100%	7%	9.14	9.65	100%	27095	604	1074	1678	5	3	291006	10098.7	10101.7	491	653	1143
2	Guwahati-II	93.07	83.09	89%	100%	11%	7.88	8.86	98%	149379	1392	3736	5128	21	15	348560	7358.6	7331.0	1429	3759	5188
3	Rangia	39.46	34.64	88%	98%	14%	7.56	8.75	97%	182017	54	6911	6965	69	68	352436	3031.4	2983.0	71	6742	6813
4	Bongaigaon	51.28	40.80	79%	81%	36%	5.63	8.82	98%	382997	1306	12984	14290	120	109	547094	3679.0	2888.7	1271	12390	13662
5	Mangaldai	26.91	22.88	85%	88%	24%	6.87	9.07	98%	222008	1457	8192	9649	140	118	382046	2074.9	1846.8	1320	7280	8600
6	Kokrajhar	46.30	33.36	72%	83%	40%	5.21	8.66	97%	349782	465	16021	16486	171	167	490748	2886.5	2410.1	405	15702	16108
7	Barpeta	38.19	32.14	84%	87%	27%	6.34	8.63	97%	277600	172	6219	6391	69	67	504500	2774.0	2420.0	166	5774	5938
	Lower Assam	**405.74**	**349.26**	**86%**	**94%**	**19%**	**7.39**	**9.11**	**98%**	**1570878**	**5450**	**55137**	**60587**	**57**	**52**	**2896392**	**31803.2**	**29983.4**	**5150**	**52300**	**57450**
8	Dibrugarh	32.58	27.66	85%	102%	13%	7.98	9.18	96%	129322	1238	4962	6201	73	59	237480	2538.9	2599.3	1219	4913	6132
9	Tinsukia	39.65	34.13	86%	88%	24%	7.09	9.35	96%	168630	782	15126	16908	159	152	289966	3191.1	2811.2	786	10238	11023
10	Sivasagar	31.85	27.48	86%	94%	19%	7.61	9.36	98%	151805	2785	4992	7777	91	58	294130	2573.6	2422.3	2721	4763	7484
11	Jorhat	33.27	28.44	85%	100%	15%	8.07	9.47	96%	136715	965	7941	8937	100	88	287426	2693.0	2684.8	989	7813	8802
12	Golaghat	20.93	17.33	83%	93%	23%	7.34	9.53	99%	134390	1086	8977	8063	147	127	230820	1660.6	1536.5	1068	6816	7884
	Upper Assam	**158.28**	**135.05**	**85%**	**95%**	**19%**	**7.62**	**9.36**	**97%**	**717662**	**6887**	**40999**	**47886**	**114**	**97**	**1339942**	**12647.2**	**12054.2**	**6783**	**34543**	**41326**
13	Tezpur	46.19	38.58	84%	92%	23%	7.06	9.18	97%	200893	1281	8199	9480	80	69	396894	3542.7	3262.8	1354	7958	9313
14	Nagaon	61.75	50.25	81%	94%	24%	6.57	8.63	96%	281242	2879	13170	16049	111	91	571184	4337.3	4059.8	2882	12833	15716
15	Marigaon	20.27	17.20	85%	95%	20%	6.70	8.34	95%	120494	723	7225	7948	166	151	209520	1434.5	1356.8	574	7140	7813
16	KANCH	24.68	20.43	83%	89%	28%	6.77	9.16	98%	161281	7921	10959	18879	309	176	244286	1872.1	1671.9	7926	11586	19512
17	Cachar	40.39	33.96	84%	103%	14%	7.71	8.83	96%	229721	880	9927	10817	107	98	357153	3033.4	3114.9	528	10537	11366
18	Badarpur	33.19	26.25	79%	83%	34%	5.65	8.58	97%	238564	1448	9734	11182	149	130	350898	2252.8	1674.7	1834	9271	10905
19	N.Lakhimpur	26.97	22.45	83%	90%	25%	6.71	8.86	97%	290252	171	7490	7661	114	112	394897	2015.0	1806.7	161	5346	6508
	Central Assam	**253.447**	**209.11**	**83%**	**93%**	**23%**	**6.77**	**8.84**	**96%**	**1520447**	**15314**	**66703**	**82017**	**133**	**106**	**2535832**	**18487.5**	**17151.6**	**15162**	**65972**	**81134**
	APDCL TOTAL	817.47	693.43	85%	94%	20%	7.24	9.08	97%	3809987	27650	162839	190489	91	78	6772066	62938.02	59189.20	27094	152815	179909

Energy Manager
APDCL, ASSAM

Dy. General Manager (TRC)
O/o the CGM (Com & EE), APDCL
Bijulee Bhawan, Paltanbazar, Ghy-01

Annexure for Audit Detail Of APDCL

CIRCLE-WISE PERFORMANCE OF A.P.D.C.L

Month: April'22

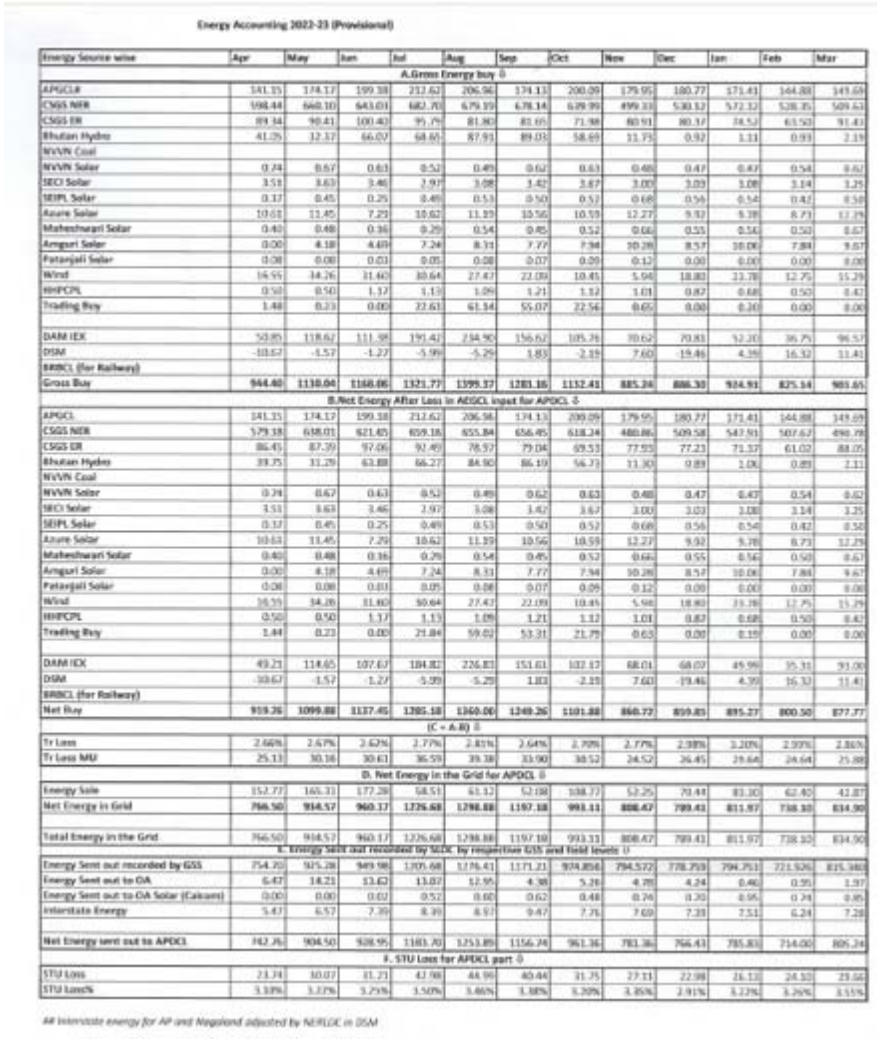
In Lakhs.

Sl No	Name of Circle	Unit injected in MU	Energy billed in MU	Billing efficiency	Collection efficiency	A T & C Losses	A.R.R.	Average billing rate	Consumer billing percentage %	No of defaulter consumers at the end of the	Total outstanding			No of days receivable of arrears		Total no of consumers	Current demand	Total collection
											Freeze & PDC	Regular	Total	Total	Excluding PDC & Freeze			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1	Guwahati-I	114.87	106.37	94%	99%	7%	7.90	8.50	100%	48566	378	1202	1580	5	4	282253	9209.5	9075.1
2	Guwahati-II	91.46	77.95	85%	97%	18%	6.34	7.69	99%	173827	1003	4748	5751	29	24	336248	5997.8	5795.9
3	Rangia	37.20	32.32	87%	107%	7%	7.20	7.72	97%	210077	1456	6587	8043	97	79	339151	2496.1	2676.2
4	Bongaigaon	51.73	35.75	69%	86%	40%	4.79	8.03	98%	357176	1913	11965	13878	145	125	541405	2869.8	2478.9
5	Mangaldai	27.71	22.74	82%	81%	33%	5.31	7.95	98%	239664	1099	8126	9225	153	135	355432	1806.8	1471.8
6	Kokrajhar	48.17	32.05	67%	75%	50%	3.71	7.48	99%	347055	348	16697	17045	213	209	469394	2397.0	1787.5
7	Barpeta	38.79	31.03	80%	90%	28%	5.40	7.53	98%	298331	172	6009	6182	79	77	485677	2337.1	2096.0
	Lower As	**409.92**	**340.21**	**83%**	**94%**	**22%**	**6.19**	**7.97**	**98%**	**1674686**	**6368**	**55334**	**61703**	**68**	**61**	**2809558**	**27114.2**	**25381.6**
8	Dibrugarh	31.57	26.40	84%	92%	23%	6.50	8.42	98%	128835	1149	5290	6439	87	71	230369	2222.8	2053.0
9	Tinsukia	37.93	32.01	84%	90%	24%	6.29	8.30	98%	184155	681	10643	11324	128	120	291258	2655.8	2385.0
10	Sivasagar	29.78	24.73	83%	92%	24%	6.42	8.39	99%	175480	574	6690	7264	105	97	293847	2074.3	1909.2
11	Jorhat	34.27	29.56	86%	87%	25%	6.27	8.36	98%	158886	918	9529	10447	127	116	290644	2470.6	2150.3
12	Golaghat	22.17	18.10	82%	86%	30%	5.81	8.25	98%	147586	604	7220	7824	157	145	226558	1493.8	1287.5
	Upper As	**155.70**	**130.80**	**84%**	**90%**	**25%**	**6.28**	**8.35**	**98%**	**794542**	**3926**	**39373**	**43298**	**119**	**108**	**1332876**	**10917.3**	**9785.0**
13	Tezpur	46.88	39.25	84%	94%	21%	6.36	8.06	98%	238993	960	9238	10198	97	88	386124	3183.5	2984.0
14	Nagaon	66.00	49.66	75%	86%	35%	4.96	7.69	97%	336793	1536	13841	15377	121	109	558397	3818.7	3276.3
15	Marigaon	21.53	16.22	75%	78%	43%	4.45	7.75	97%	108832	633	10243	10877	260	245	203657	1256.3	958.3
16	KANCH	27.90	20.66	74%	94%	30%	5.52	7.90	98%	159299	1011	12516	13526	249	230	232820	1632.2	1540.5
17	Cachar	39.74	32.52	82%	90%	27%	5.71	7.78	97%	212768	741	11446	12187	145	136	332051	2529.7	2268.4
18	Badarpur	36.39	26.04	72%	75%	47%	4.12	7.71	92%	220746	498	13683	14182	212	204	355461	2006.3	1500.7
19	N.Lakhimp	27.56	21.34	77%	89%	31%	5.27	7.65	99%	253660	86	5642	5728	105	104	383876	1633.6	1453.6
	Central A	**266.016**	**205.69**	**77%**	**87%**	**33%**	**5.26**	**7.80**	**97%**	**1531091**	**5466**	**76590**	**82056**	**153**	**143**	**2484389**	**16042.4**	**13981.8**
	APDCL TO	831.63	676.70	81%	91%	26%	5.91	7.99	97%	4000319	15760	171297	187057	104	95	6596823	54073.85	49148.38

Energy Manager
APDCL, ASSAM

Dy. General Manager (TRC)
O/o the CGM (Com & EE), APDCL
Bijulee Bhawan, Paltanbazar, Ghy-01

11.7. Energy Accounting Provisional 2022-23

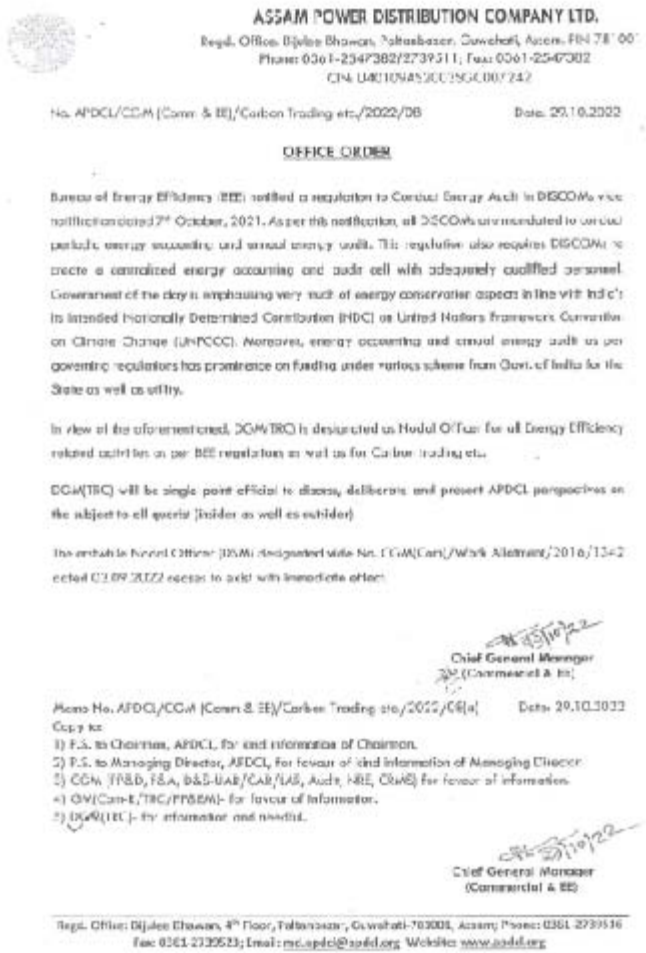


Energy Accounting 2022-23 (Provisional)

Energy Source wise	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
A.Gross Energy buy ⇩												
APGCLR	141.35	174.17	199.38	212.62	206.96	174.13	200.09	179.95	180.77	171.41	144.88	149.69
CSGS NER	598.44	660.10	643.01	682.70	679.19	678.14	699.99	530.12	572.32	528.35	509.63	
CSGS ER	89.34	90.41	100.40	95.79	81.80	82.65	71.98	80.91	80.37	74.52	65.50	91.43
Bhutan Hydro	41.05	12.37	66.07	68.65	87.93	89.03	58.69	11.75	0.92	1.11	0.93	2.19
NVVN Coal												
NVVN Solar	0.74	0.67	0.63	0.52	0.49	0.62	0.63	0.48	0.47	0.47	0.54	0.62
SECI Solar	3.51	3.63	3.46	2.97	3.08	3.42	3.67	3.00	3.03	3.08	3.14	3.25
SEIPL Solar	0.37	0.45	0.25	0.49	0.53	0.50	0.52	0.68	0.56	0.54	0.42	0.50
Azure Solar	10.63	11.45	7.29	10.62	11.39	10.56	10.59	12.27	9.92	9.78	8.73	12.29
Maheshwari Solar	0.40	0.48	0.36	0.29	0.54	0.45	0.52	0.66	0.55	0.56	0.50	0.63
Amguri Solar	0.00	8.18	8.49	7.24	8.33	7.77	7.94	10.28	8.57	10.08	7.84	9.67
Patanjali Solar	0.08	0.08	0.03	0.05	0.08	0.07	0.09	0.12	0.00	0.00	0.00	0.08
Wind	16.55	14.26	11.46	10.64	27.47	22.09	10.45	5.94	18.80	23.78	12.75	15.29
RHPCPL	0.50	0.50	1.37	1.13	1.09	1.21	1.12	1.01	0.87	0.68	0.50	0.43
Trading Buy	1.44	0.23	0.00	22.61	61.34	55.07	22.56	0.65	0.00	0.20	0.00	0.00
DAM IEX	50.85	118.62	111.98	191.41	234.90	156.62	105.76	70.63	70.83	52.20	36.75	96.57
DSM	-10.67	-1.57	-1.27	-5.99	-5.29	1.83	-2.19	7.60	-19.46	4.39	16.32	11.41
BRBCL (for Railway)												
Gross Buy	**944.40**	**1110.04**	**1160.06**	**1321.77**	**1399.37**	**1281.16**	**1152.41**	**885.24**	**886.30**	**924.91**	**825.14**	**903.65**
B.Net Energy After Loss in AEGCL input for APDCL ⇩												
APGCL	141.35	174.17	199.38	212.62	206.96	174.13	200.09	179.95	180.77	171.41	144.88	149.69
CSGS NER	579.18	638.01	621.45	659.16	655.84	656.45	618.24	480.86	509.58	547.91	507.67	490.78
CSGS ER	86.45	87.39	97.06	92.49	78.97	79.04	69.53	77.55	77.23	71.37	61.02	88.05
Bhutan Hydro	39.75	11.29	63.88	66.27	84.90	86.19	56.73	11.30	0.89	1.06	0.89	2.11
NVVN Coal												
NVVN Solar	0.74	0.67	0.63	0.52	0.49	0.62	0.63	0.48	0.47	0.47	0.54	0.62
SECI Solar	3.51	3.63	3.46	2.97	3.08	3.42	3.67	3.00	3.03	3.08	3.14	3.25
SEIPL Solar	0.37	0.45	0.25	0.49	0.53	0.50	0.52	0.68	0.56	0.54	0.42	0.50
Azure Solar	10.63	11.45	7.29	10.62	11.39	10.56	10.59	12.27	9.92	9.78	8.73	12.29
Maheshwari Solar	0.40	0.48	0.36	0.29	0.54	0.45	0.52	0.66	0.55	0.56	0.50	0.63
Amguri Solar	0.00	8.18	8.49	7.24	8.33	7.77	7.94	10.28	8.57	10.08	7.84	9.67
Patanjali Solar	0.08	0.08	0.03	0.05	0.08	0.07	0.09	0.12	0.00	0.00	0.00	0.08
Wind	16.55	14.26	11.46	10.64	27.47	22.09	10.45	5.94	18.80	23.78	12.75	15.29
RHPCPL	0.50	0.50	1.37	1.13	1.09	1.21	1.12	1.01	0.87	0.68	0.50	0.43
Trading Buy	1.44	0.23	0.00	21.84	59.02	53.31	21.79	0.63	0.00	0.19	0.00	0.00
DAM IEX	49.21	114.65	107.67	184.82	226.83	151.61	102.17	68.01	68.07	49.99	35.31	93.00
DSM	-10.67	-1.57	-1.27	-5.99	-5.29	1.83	-2.19	7.60	-19.46	4.39	16.32	11.41
BRBCL (for Railway)												
Net Buy	**919.26**	**1099.88**	**1137.45**	**1285.18**	**1360.06**	**1249.26**	**1101.88**	**860.72**	**859.85**	**895.27**	**800.50**	**877.77**
(C = A-B) ⇩												
Tr Loss	2.66%	2.67%	2.62%	2.77%	2.81%	2.64%	2.70%	2.77%	2.98%	3.20%	2.99%	2.86%
Tr Loss MU	25.13	30.16	30.61	36.59	39.38	33.90	30.52	24.52	26.45	29.64	24.64	25.88
D. Net Energy in the Grid for APDCL ⇩												
Energy Sale	152.77	165.31	177.28	58.51	61.12	52.08	108.77	52.25	70.44	81.30	62.40	42.87
Net Energy in Grid	**766.50**	**934.57**	**960.17**	**1226.68**	**1298.88**	**1197.18**	**993.11**	**808.47**	**789.41**	**811.97**	**738.10**	**834.90**
Total Energy in the Grid	766.50	934.57	960.17	1226.68	1298.88	1197.18	993.11	808.47	789.41	811.97	738.10	834.90
E. Energy sent out recorded by SLDC by respective GSS and field levels ⇩												
Energy Sent out recorded by GSS	754.20	925.28	949.98	1209.68	1276.41	1171.21	974.858	794.572	778.259	794.251	721.926	815.348
Energy Sent out to OA	6.47	14.21	13.62	13.07	12.95	4.38	5.26	4.28	4.24	0.46	0.35	1.97
Energy Sent out to OA Solar (Caisons)	0.00	0.00	0.01	0.52	0.60	0.62	0.48	0.74	0.30	0.95	0.74	0.85
Interstate Energy	5.47	6.57	7.39	8.39	8.97	9.47	7.76	7.69	7.28	7.51	6.24	7.28
Net Energy sent out to APDCL	742.26	904.50	928.95	1183.70	1253.89	1156.74	961.36	781.86	766.43	785.83	714.00	805.24
F. STU Loss for APDCL part ⇩												
STU Loss	23.74	30.07	31.23	42.98	44.99	40.44	31.75	27.11	22.98	26.13	24.10	29.66
STU Loss%	3.10%	3.22%	3.25%	3.50%	3.46%	3.38%	3.20%	3.35%	2.91%	3.22%	3.26%	3.55%

All Interstate energy for AP and Nagaland adjusted by NERLDC in DSM

11.8. Mandatory Account Audit Letter



ASSAM POWER DISTRIBUTION COMPANY LTD.
Regd. Office: Bijulee Bhawan, Paltanbazar, Guwahati, Assam, PIN-78[illegible]
Phone: 0361-2547382/2739311; Fax: 0361-2540382
CIN: U40109AS2003SGC007242

No. APDCL/CGM (Comm. & EE)/Carbon Trading etc./2022/08 Date: 29.10.2022

OFFICE ORDER

Bureau of Energy Efficiency (BEE) notified a regulation to Conduct Energy Audit in DISCOMs vide notification dated 7th October, 2021. As per this notification, all DISCOMs are mandated to carry out periodic energy accounting and annual energy audit. This regulation also requires DISCOMs to create a centralized energy accounting and audit cell with adequately qualified personnel. Government of the day is emphasizing very much of energy conservation aspects in line with India's Intended Nationally Determined Contribution (INDC) as United Nations Framework Convention on Climate Change (UNFCCC). Moreover, energy accounting and annual energy audit as per governing regulations has prominence on funding under various scheme from Govt. of India for the State as well as utility.

In view of the aforementioned, DGM(TRC) is designated as Nodal Officer for all Energy Efficiency related activities as per BEE regulations as well as for Carbon trading etc.

DGM(TRC) will be single point official to discuss, deliberate and present APDCL perspectives on the subject to all quarter (inside as well as outside).

The erstwhile Nodal Officer (DGM) designated vide No. CGM(Com)/Work Allotment/2016/1342 dated 03.09.2022 ceases to exist with immediate effect.

Chief General Manager
(Commercial & EE)

Memo No. APDCL/CGM (Comm & EE)/Carbon Trading etc./2022/08(a) Date: 29.10.2022
Copy to:
1) P.S. to Chairman, APDCL, for kind information of Chairman.
2) P.S. to Managing Director, APDCL, for favour of kind information of Managing Director.
3) CGM, (P&D, F&A, B&S-IAE/CAE/IAE, Audit, NRE, CSR&) for favour of information.
4) DGM(Com-I/TRC/PP&EM)- for favour of information.
5) DGM(TRC)- for information and needful.

Chief General Manager
(Commercial & EE)

Regd. Office: Bijulee Bhawan, 4th Floor, Paltanbazar, Guwahati-781001, Assam; Phone: 0361 2739536
Fax: 0361 2739523; Email: [illegible]@apdcl.org Website: www.apdcl.org

11.9. MOM between APDCL & Katyani Pvt. Ltd.

Minutes of Meeting between APDCL Assam & Katyani Energy Solution Pvt. Ltd. Regarding the work of "Annual Energy Audit of FY 2022-23 of APDCL held on 22.07.23 at Guwahati.

The meeting regarding conduction of Energy audit, field visit planning and relevant Data collection was held between the representative of M/s. KESPL and APDCL on 20th July 2023 in the office of Sri Lilambar Das, (DGM, TRC) at Guwahati

Member Present in meeting

APDCL	M/S: KESPL
Sri Chandan deka, Nodal officer cum CGM	Sri RK Jain- AEA
Sir Pragyan Kumar Saikia, GM-(TRC-com)	Sri Akshay Kumar -CEA
Sri Lilamber Das, DGM (TRC-com)	Sri Raju Kumar - Energy Engineer
Sri Pratim Banerjee, Energy Manager	

KESPL Audit team arrived Guwahati on 20-07-2023 and following issues were discussed for completion of Annual Energy Audit as per BEE Guidelines and accordingly APDCL provided details as noted down.

1. The information as per prescribed format of BEE (Including Open access details which have been taken in to account by KESPL).
2. Breakup of Energy billing as Subsidized and non-subsidized energy during the billing cycle and annually.
3. Breakup of revenue collection against subsidized& non-subsidized feed.
4. Arrears details of revenue collection of previous FY in current FY.
5. Details of executions of energy conservation measures in previous Annual Energy Audit.
6. Data regarding DT wise loss & Division wise losses
7. Data regarding status of DT metering along with 11 kV feeders.

Following Division and Sub-station were visited by the audit team for sample checking of the meter functioning & other issue.

Sr. No.	Sub-Station	Sub-Division	Division	Date:
1.	Morigaon(33/11kV)	Morigaon	Morigaon	21/07/2022
2.	Charaibahi(33/11kV)	Charaibahi	Morigaon	21/07/2022
3.	Baghjaap(132/33kV)	TRANSCO (Grid Sub-Station)		21/07/2022
4.	Sonapur(33/11kV)	Sonapur	Guwahati East	21/07/2022
5.	Paltan Bazar(33/11kV)	Paltan Bazar	Guwahati Central	22/07/2023

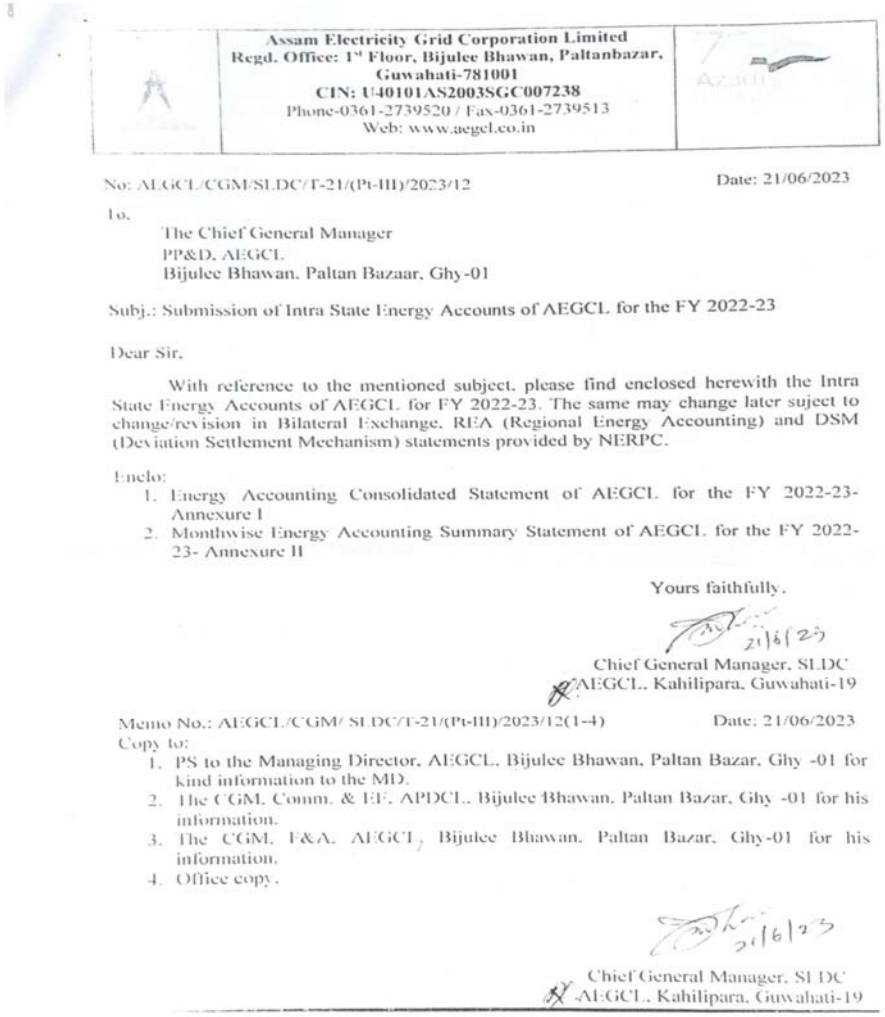
APDCL staff was apprised of some shortcoming by Audit Team and agree by APDCL to follow up their suggestions for betterment

(CGM Comm-EE)
Sri Chandan Deka
(APDCL)

Chief General Manager (Com & EE)
APDCL, Bijulee Bhawan, Guwahati-01

(Certified Energy auditor)
Sri Akshay Kumar
(KESPL)

11.10. Intra-state Energy Account



Assam Electricity Grid Corporation Limited
Regd. Office: 1st Floor, Bijulee Bhawan, Paltanbazar, Guwahati-781001
CIN: U40101AS2003SGC007238
Phone-0361-2739520 / Fax-0361-2739513
Web: www.aegcl.co.in

No: AEGCL/CGM/SLDC/T-21/(Pt-III)/2023/12 Date: 21/06/2023

To,
The Chief General Manager
PP&D, AEGCL
Bijulee Bhawan, Paltan Bazaar, Ghy-01

Subj.: Submission of Intra State Energy Accounts of AEGCL for the FY 2022-23

Dear Sir,

With reference to the mentioned subject, please find enclosed herewith the Intra State Energy Accounts of AEGCL for FY 2022-23. The same may change later suject to change/revision in Bilateral Exchange, REA (Regional Energy Accounting) and DSM (Deviation Settlement Mechanism) statements provided by NERPC.

Enclo:
1. Energy Accounting Consolidated Statement of AEGCL for the FY 2022-23- Annexure I
2. Monthwise Energy Accounting Summary Statement of AEGCL for the FY 2022-23- Annexure II

Yours faithfully,

21/6/23
Chief General Manager, SLDC
AEGCL, Kahilipara, Guwahati-19

Memo No.: AEGCL/CGM/ SLDC/T-21/(Pt-III)/2023/12(1-4) Date: 21/06/2023
Copy to:
1. PS to the Managing Director, AEGCL, Bijulee Bhawan, Paltan Bazar, Ghy -01 for kind information to the MD.
2. The CGM, Comm. & EF, APDCL, Bijulee Bhawan, Paltan Bazar, Ghy -01 for his information.
3. The CGM, F&A, AEGCL, Bijulee Bhawan, Paltan Bazar, Ghy-01 for his information.
4. Office copy.

21/6/23
Chief General Manager, SLDC
AEGCL, Kahilipara, Guwahati-19

Annexure for Audit Detail Of APDCL

ANNEXURE-I

TRANSMISSION LOSS OF AEGCL FOR THE FY 2022-23		
Sl. No.	Particulars	in MU
1	**Energy Injected**	**11452.470**
1.1	Energy Injected by APGCL	2134.996
1.2	Energy Injected by CSGS (ER & NER)	8377.188
1.3	Energy Injected by LTA	295.733
1.4	Energy Injected by Power Exchanges	1494.927
1.5	Energy Injected by IPPs	240.170
1.6	Energy Injected by CPPs	1.453
1.7	Energy Injected through DSM	-4.896
1.8	Energy Sale through Power Exchanges(-)	1087.101
2	**Total Energy sent out**	**11073.626**
2.1	Energy sent out to APDCL	10985.257
2.2	Energy sent out to Inter state OA customers	82.356
2.3	Energy sent out to Intra state OA customers	6.013
3	**Transmission loss (MU)**	**378.844**
4	**Transmission loss (%)**	**3.31**

11163 → 90 → inter state

Prepared by:

JM, MO, SLDC, AEGCL

AM, MO, SLDC, AEGCL

Checked by:

AGM, MO, SLDC, AEGCL

DGM, Operations, SLDC, AEGCL

AGM, TRC, APDCL

Countersigned by:

21/12/23

CGM,SLDC
AEGCL,Kahilipara

CGM, SLDC, AEGCL

Annexure for Audit Detail Of APDCL

ANNEXURE II

INTRA-STATE ENERGY ACCOUNTING FOR APRIL 2022-MARCH 2023

IMPORT DETAILS	ENERGY IN MU												
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	TOTAL
FROM CSGS-NER	576.1800	658.0560	651.6261	659.2125	655.8236	636.4510	618.7470	480.8649	509.5794	547.9055	502.6767	496.7831	6952.994
FROM CSGS-ER	126.1991	118.6832	160.9433	158.7639	163.8671	165.7308	126.2556	89.2961	78.1280	72.4249	63.9028	98.1656	1411.244
FROM TEA	20.7993	38.5621	35.6883	34.1270	31.0400	26.1297	14.7481	9.4341	22.2981	27.3351	16.4254	34.1656	310.733
FROM POWER EXCHANGE (IEX)	97.3389	129.5690	121.7556	220.1668	209.2450	200.2442	129.3691	73.5770	72.4503	90.6602	36.2978	98.0282	1349.927
FROM APGCL	141.1474	174.1701	199.1832	212.6240	206.9588	174.1263	200.0935	179.9477	180.7228	171.4089	144.8770	149.6864	2135.996
FROM BPP	11.9880	17.1430	15.5530	19.7920	21.6560	21.2876	21.3429	25.8622	21.6382	22.7070	18.8289	24.4103	240.170
THROUGH DSM	-10.6202	-1.5704	-1.2727	-5.9901	-5.2940	1.8541	-2.1873	7.5981	19.4606	4.3856	36.4176	13.4135	64.896
FROM 132 KV BCPL CVT (BTPS GSS)	0.0859	0.0775	0.0411	0.0470	0.0000	0.0035	0.0026	0.0031	0.0031	0.1579	0.0474	0.0038	0.370
FROM 33 KV BCPL CVT BORDUBI GSS)	0.0857	0.0077	0.0255	0.0183	0.0300	0.0283	0.0208	0.0206	0.0206	0.0164	0.0146	0.0319	0.237
FROM 33 KV KAJOLGAON (AT DHARGAON GSS)	0.0810	0.0520	0.2598	0.1115	0.0581	0.0745	0.0825	0.0800	0.0800	0.0848	0.0105	0.0023	0.836
TOTAL IMPORT	925.9712	1114.7422	1151.8025	1298.8729	1373.3826	1254.6072	1107.9991	866.6178	865.5201	896.9763	802.3883	880.6905	12539.571
(-)SALE THROUGH IEX	152.7655	165.3131	177.2830	58.5050	61.1150	52.0807	108.7728	52.2507	70.4425	83.3013	62.4038	42.8675	1087.101
NET IMPORT	773.205687	949.429127	974.5195259	1240.36786	1312.26761	1202.526549	999.2262659	814.3670791	795.0776145	813.675108	739.9845188	837.8229655	11452.470
EXPORT DETAILS	**APRIL**	**MAY**	**JUNE**	**JULY**	**AUGUST**	**SEPTEMBER**	**OCTOBER**	**NOVEMBER**	**DECEMBER**	**JANUARY**	**FEBRUARY**	**MARCH**	**TOTAL**
TO APDCL	742.763	904.499	928.950	1183.719	1253.910	1156.765	961.376	781.669	766.449	785.866	714.074	805.266	10985.257
TO INTER STATE OPEN ACCESS CONSUMERS	6.468	14.206	13.622	13.071	12.953	4.378	5.256	4.782	4.241	0.459	0.951	1.966	87.356
TO INTRA STATE OPEN ACCESS CONSUMERS	0.000	0.000	0.019	0.502	0.581	0.599	0.164	0.714	0.681	0.915	0.714	0.825	4.913
TOTAL EXPORT (B)	749.232	918.705	942.592	1197.292	1267.444	1161.742	967.096	787.165	771.371	787.240	715.689	808.058	11073.626
TRANSMISSION AND TRANSFORMATION (T&T) LOSS IN MUs	23.97	30.72	31.93	43.08	44.82	40.78	32.13	27.20	23.71	26.43	24.30	29.77	378.844
TRANSMISSION AND TRANSFORMATION (T&T) LOSS IN %	3.10%	3.24%	3.28%	3.47%	3.42%	3.39%	3.22%	3.34%	2.98%	3.25%	3.28%	3.55%	3.31%

Junior Manager, SLDC
AEGCL, Kahilipara, Ghy-19

21/12/2023
Assistant Manager, SLDC
AEGCL, Kahilipara, Ghy-19

21/06/2023
A.G.M. (Market Operation)
SLDC, AEGCL, Kahilipara, Ghy-19

Chief General Manager (Operation)
SLDC, AEGCL, Kahilipara, Ghy-19

21/6/23
CGM,SLDC
AEGCL,Kahilipara

Asstt. General Manager (Com-TRC)
APDCL, Bijulee Bhawan, Guwahati-1

11.11. Transformer Feeder Relationship

Sl.No.	Circle	No. of Substations	No. of transformers					Total MVA Capacity
			10MVA	8MVA	5MVA	3.16MVA	2.5MVA	
1	GEC-I	37	60		13		1	667.50
2	GEC-II	27	15	1	31		7	330.50
3	Mangaldoi	20	1		33	1	7	195.66
4	Rangia	23	4		25	1	13	200.66
5	Barpeta	24	6		40	3	3	276.98
6	Bongaigaon	26	7		37	2	9	283.82
7	Kokrajhar	25	10		31	1	8	278.16
8	Badarpur	14	6		28		2	205.00
9	KANCH	22	2		23	2	9	163.82
10	Nagaon	27	8		42	1	5	305.66
11	Morigaon	9	2		12	1		83.16
12	Tezpur	34	8		32	7	3	269.62
13	N. Lakhimpur	22	4		34		3	217.50
14	Cachar	19	8		31	1	5	250.66
15	Sibsagar	25	9		34		2	265.00
16	Dibrugarh	24	13		29	1	3	285.66
17	Jorhat	30	9		36	3	3	286.98
18	Golaghat	21	5		29	1	5	210.66
19	Tinsukia	31	12		47	2	2	366.32
	Total:	460	189	1	587	27	90	5143.32

Annexure for Audit Detail Of APDCL

DOU: 31.10.2022

33kV Feeders		11kV Feeders		No. of DTRs	Total MVA of DTs
No.	Length	No.	Length		
47		140			
39	479.00	101	4,630.70	5338	
		92	2,461.60		
46	757.40	100	5,711.80	5898	
		73			
36	1,120.80	114	4,590.70	6983	
25	302.04	64	3,851.80		
32	715.60	85	5,176.90	100053	
43	591.00	107	4,524.57	78295	
23	117.00	37	1,510.50		
48		192			
		96	5,724.00		
48		89			
29	344.10	108	5,043.50		
49	465.67	97	2,705.70		
44		116			
		119	4,065.24		
509	**4892.61**	**1730**	**49997.01**		

11.12. Tariff schedule June 2023

ASSAM POWER DISTRIBUTION COMPANY LIMITED

NOTICE

Vide order of Assam Electricity Regulatory Commission dated 29/03/2023 on Petition No 17 of 2022 the Schedule of Tariff for all the category of consumers of APDCL was revised with effect from 01/04/2023 except for FPPPA as shown in the table below.
With implementation of AERC (Fuel and Power Purchase Price Adjustment) Regulations, 2010, effective schedule of tariff of respective category of consumers w.e.f. June'23 (energy consumed during May'23) is shown below.
This schedule shall continue to be applicable until it is replaced/modified by any order of the Hon'ble Assam Electricity Regulatory Commission subsequently.

Sl. No.	Consumer category	Fixed Charges	Energy Charges (Rs. per kWh)			
	LT Category	(Rs/kW/month)	Base Rate	Govt. subsidy	FPPPA	Effective Rate
LT-I	Jeevan Dhara 0.5 kW & 1.5 kWh/day	40	5.05	1.00	0.30	4.35
LT-II	**Domestic -A-above 0.5kW to 5kW**					
	0 to 120 units per month	70	5.70	0.75	0.30	5.25
	121 to 240 units per month	70	7.00		0.30	7.30
	Balance units	70	7.90		0.30	8.20
LT-III	**Domestic -B-above 5 kW to 30 kW**	70	7.45		0.70	8.15
LT-IV	**Commercial load above 0.5 kW to 30 kW**	150	7.90		0.70	8.60
LT-V	**General purpose supply upto 30 kW**					
A	Non commercial and non domestic	165	6.95		0.70	7.65
B	Govt.Primary & Secondary & Higher Secondary schools	90	6.85		0.70	7.55
LT-VI	**Public Lighting**	140	6.90		0.70	7.60
LT-VII	**Agriculture upto 30 kW**	65	5.05		0.70	5.75
LT-VIII(I)	**Small Industries Rural upto 30 kW**	70	5.55		0.70	6.25
LT VIII(II)	**Small Industries Urban upto 30 kW**	80	5.80		0.70	6.50
LT-IX	**Temporary Supply**					
	Domestic	105	9.89		0.70	10.59
	Non domestic non Agriculture	155	11.99		0.70	12.69
	Agriculture	65	5.15		0.70	5.85
LT-X	**LT Electric Vehicle Charging station**	150	5.90		0.70	6.60

Sl. No.	Consumer Category	Fixed Charges	Energy charges		
	HT Category	(Rs/kVA/month)	(Rs. per kWh)		
HT-I	**HT Domestic 30 kW (35 kVA)**	70	7.60	0.70	8.30
HT-II	**HT Commercial 30 kW (35 kVA)**	210	8.00	0.70	8.70
HT-III	**Public Water Works**	155	6.75	0.70	7.45

11.13. Circle-wise basic infrastructure

Circle wise Basic Infrastructure Data (As on 31.03.2023)					
Sl. No.	Description	LAR	CAR	UAR	Total
1	No. of ESDs	61	61	36	158
2	33/11 KV Sub-Stations (Nos)	180	152	127	459
3	33/11 KV Dedicated Substation (Nos)	33	10	28	71
4	33 KV Line (Km)	3996.98	3619.68	2166.2	9782.86
5	11 KV Line (Km)	40977.86	37189.09	20915.8	99082.75
6	Total HT Network	44974.84	40808.77	23082	108865.61
7	No of 11 KV feeders	795	658	544	1997
8	No of 33 KV feeders	261	221	153	635
9	33 KV feeder Metering	251	192	147	590
10	11 KV feeder Metering	692	564	514	1770
11	33 KV Line (Km) (using MVCC)	27.17	5.4	8.15	40.72
12	11 KV Line (Km) (using MVCC)	189.6	119.015	133.05	441.665
13	11 KV Line (Km) (using AB Cable)	2627.71	1010.74	445.5	4083.95
14	LT Line-1 Phase (Km) (Using Bare Conductor)	80266.3	61523.8	29188.11	170978.21
15	LT Line -3 Phase (Km) (Using Bare Conductor)	47476.25	35146.2	18625.39	101247.84
16	LT Line-1 Phase (Km) (Using AB Cable)	14370.04	11291.5	6741.96	32403.5
17	LT Line-3 Phase (Km) (Using AB Cable)	11125.01	6495.2	4124.56	21744.77
18	No of 11/0.4 KVA DTR (Nos)	41024	37253	27014	105291
19	No of 11/0.4 KVA DTRs Metered	13341	14349	15217	42907
20	No of 11/0.4 KVA dedicated DTR (Nos)	13499	7575	6543	27617
21	No of Power Transformer capacity in MVA	2047.27	1670.42	1425.56	5143.25

11.14. Comment on Revised methodology for AT & C losses Circulated by CEA in June, 2017 and Addendum to AT &C Loss Calculation methodology.

Agreeable logics

1. Collection efficiency of Subsidy received and realization from sale of power together will be restricted at 100%.

Inference- Arrear of previous FY years will not be considered in accounting for realization of revenue in Current year.

2. No adjustment shall be made in revenue from the sale of energy on account of unbilled revenue

Inference- Unbilled revenue due to short assessment, deprived access to meters due to locking of house, defective metering and theft assessment could not be allowed for adjustment.

Once metered the energy or assessed the consumption and billed, will be treated as final sale of energy. No further adjustment on the ground of short assessment or any reason will be allowed.

It means deficiency on the part of company in raising correct bill may not be considered as efficiency through adjustment.

3. The clarification regarding arrears in National power portal Glossary says that 'The revenue collected exclude the arrears, collection efficiency to be Capped at 100%.

The above provisions, communicated vide CEA - GO - 17 (11)/1/2018/ DP & R div date 8.08.2018 in Annexure A mentioned as addendum to AT & C loss calculation methodology have been taken into considerations.

But some discrepancies in the formula for AT & C loss calculation have been observed.

Comment on Revised methodology for AT&C Losses Circulated by CEA in June, 2017 vide Annexure-A

1. The revenue collection against sold energy seems absent in the formula attached with Annexure A.

Correct value ⟶ Net revenue Collection = Total Collection of revenue - Arrears of previous financial years but realized in Current year.

But , the formulae of CEA has used Net revenue Collection = sale of energy in Crore - Adjustment of revenue from sale of energy on subsidy received basics.

Annexure for Audit Detail Of APDCL

The collection of revenue is different from the value of energy sold.

Comment - So, above formula seems incorrect on account of

(1) No consideration of Total Collection against energy sold (amount).
(2) No consideration for adjustment of non-subsidy arrears of previous years in current FY.

Note: - Exclusion of all types of arrears are needed for calculation of net revenue Collection in current Financial Year.

(3) Scripted as K, units realized (MU)

(Energy sold (MU) X Collection efficiency)

I.e., D.J/100

Comment- since J/100 is the ratio of rupees. It tells that a bill of Rs 100 get realization of Rs J. so, D is here in MU, may not be multiplied with a ratio of rupees to Calculate units realized.

Correct Collection Efficiency % = (Net revenue collection excluding arrears/Amount of sold energy) *100.