



**REPORT NUMBER
RP-2223-008653**



Annual Energy Audit Report Of Paschim Gujarat Vij Company Ltd. for FY 2020-21

**Submitted to,
Bureau of Energy Efficiency, Ministry of Power,
Government of India**

By,

Electrical Research & Development Association

Energy Management Section,
Electrical Research & Development Association,
Makarapura Industrial Estate, Vadodara, Gujarat 390010



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ENERGY AUDIT REPORT

Under PAT Scheme

Designated Consumer Name

Paschim Gujarat Vij Company Ltd.

REGISTRATION NO.: DIS0024GJ

Unit Location

Paschim Gujarat Vij Company Limited,
Nana Mava Main Road,
Laxminagar,
Rajkot-360004(Gujarat)

Date of Report

28TH May, 2022

Accredited Energy Auditor

Mr. Bhavesh Vasiyani (AEA-016)

Electrical Research & Development Association, Vadodara

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EXECUTIVE SUMMARY

Audit Period	Report Date	Project Name	Accredited Energy Auditor
12 TH April 2022 – 17 TH May, 2022	28 TH May, 2022	Energy Audit of Paschim Gujarat Vij Company Ltd.	Mr. Bhavesh Vasiyani (AEA-016) Electrical Research & Development Association, Vadodara

DESIGNATED CONSUMER DETAILS

DC NAME	SECTOR	DC NUMBER	ADDRESS
PASCHIM GUJARAT VIJ COMPANY LIMITED	DISCOM	DIS0024GJ	PGVCL Head office, Nana Mava Main Road, Laxminagar, Rajkot - 360004

ENERGY TARGET

PGVCL has received the target to reduce the overall distribution losses from 18.95% to 17.79% (FY 24-25), Base line Year being FY 18-19 with the energy sent during baseline year 36589.63 MUs.

ENERGY OVERVIEW

Year	Energy Purchased (MUs)	Distribution Loss (MUs)	REMARKS
2020-21	36538.89	6071.28	Reporting Year


Prepared By

Kuldeep Ruparelia (EA-29539)



Approved By

Bhavesh Vasiyani (AEA-016)

ACKNOWLEDGEMENT

The Energy Management Section of Electrical Research and Development Association (ERDA) place its sincere gratitude to Paschim Gujarat Vij Company Ltd., Rajkot for having entrusted on our Energy Audit Program.

Our sincere thanks to entire team of Officers, Engineers and Technicians of every plant at PGVCL for proper coordination, timely help during the energy audit study and providing accurate data required for preparing energy audit report. We are thankful to all the staff members of the company whose contribution directly or indirectly helped us during the Energy Audit Study.



Kuldeep Ruparelia

ENERGY AUDIT TEAM

Electrical Research & Development Association (ERDA) involved following team of experts for conducting the study and worked in close association with PGVCL.

The Team Members included:

- Mr. Bhavesh Vasiyani; (Manager & Accredited Energy Auditor)
- Mr. Arunesh Dwivedi; (Dy. Manager & Accredited Energy Auditor)
- Mr. Kuldeep Ruparelia; (Engineer & Certified Energy Auditor)
- Mr. Robert Macwan; (Dy. Manager & Certified Energy Auditor)
- Mr. Parag Parmar; (Asst. Engineer)
- Mr. Ronak Parikh; (Asst. Engineer)

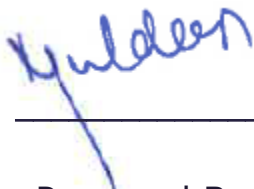
The members involved in Paschim Gujarat Vij Company Ltd. (PGVCL) deputed following team of experts during various activities of Energy Audit in various plants.

The team members included:

- Mr. J. J. Gandhi; CE (Tech) & Nodal Officer
- Mr. V. L. Dobariya; ACE (Tech)
- Mr. L. K. Parmar; I/c SE (Tech)
- Mr. T. N. Vora; EE (Tech-1)
- Mr. G. S. Vaghela; DE (R&D) & Designated Energy Manager
- Mr. C. A. Dudhrejia; DE (Tech)
- Mr. S. M. Paghdal; JE (Tech)

DECLARATION

This report contains the details of data collected during Energy Audit Study by team members of Electrical Research & Development Association, Vadodara by the team of Paschim Gujarat Vij Company Ltd. and the energy conservation opportunities derived on the bases of collected data.



Prepared By,

Kuldeep Ruparelia

(EA-29539)



Checked By,

Arunesh Dwivedi

(AEA-0288)



Approved By,

Bhavesh Vasiyani

(AEA-016)



BACKGROUND

Energy conservation is an optimal operational practice, which improves the efficiency of the equipment and process associated with both supply side and demand side i.e., at the user end.

Perform Achieve and Trade (PAT), a flagship initiative under National Mission for Enhanced Energy Efficiency (NMEEE), is a regulatory intervention for reduction of specific energy consumption, with an associated market-based mechanism through which additional energy savings can be quantified and traded as ESCerts.

Perform, Achieve & Trade (PAT) is a market-based mechanism to make improvements in energy efficiency in energy-intensive large industries and to make facilities more cost – effective by certification of energy saving that can be traded.

Electrical Distribution Sector is one of such notified energy intensive sectors, and Paschim Gujarat Vij Company Ltd. is one of the Designated Consumer in that sector.

OBJECTIVE

The objective of the Energy Audit was to establish distribution loss and to find the ways of achieving the target distribution loss as notified by BEE which is to be achieved in the year 2024-25 for PAT Cycle – VII as per the gazette notification S. O. 4491 (E) dated 26.10.2021, by selecting and analysing loss intensive feeders, and providing recommendation for reduction in energy consumption and improving energy efficiency.

The scope of work is as per stipulations provided by Bureau of Energy Efficiency in Gazette Notification No. 18/1/BEE/DISCOM/2021 dated 06.10.2021 under the Bureau of Energy Efficiency (Manner and Intervals of Time for Conduct of Energy Audit) Regulations 2010, Notification by the Ministry of Power vide no. S. O. 1264 (E) dated 31.03.2016 under Energy Conservation Act 2001 and other relevant notifications.

The target given by Ministry of Power to PGVCL is to reduce the T&D loss from 18.95% in base line year to 17.79% in assessment year.

AUDITOR'S REMARKS

- PGVCL has implemented GIS based Geo-Urja Portal where the geographical location of feeders is tagged. Auditors recommend to carry out survey of feeder on regular basis after feeder bifurcation to avoid mis-representation of data. Also, the auditors recommend to carry out random check of the data updated on the portal. Auditors observed that the Geo-Urja portal not only tags the consumers and DTs, but also updates and stores the parameters of the feeders like Voltage, Currents, Power Factor, Energy Sent, type of conductor, type of DT, etc. The portal also calculates theoretical loss and % Voltage regulation.
- During the audit study, it was observed that there are total 8569 total feeders, and the length of few feeders to be higher than 30 km. It is suggested to make a list of such feeders and analyze the loss on these feeders and check the possibility to convert them either to ring mains or to bifurcate the feeders from another nearest substation.
- During the audit, it was observed that some feeders have under-sized conductors compared to the peak load. Hence, it is suggested to analyze such feeders and to increase the size of the conductors on priority basis.
- During the audit, it was observed that loading on some feeders was on tail end. Hence, it is suggested to analyze such feeders and carry out feeder bifurcation or ring mains if possible.
- During the audit, it was observed that some of Rural and in quite a good amount of Urban feeders, the distribution loss is higher than 50%. It is recommended to distribute these feeders in the categories such as: Sensitive area, Poor area, Politically influenced area, Back-ward

area, Far away area, etc. to easily target those area, where the unauthorized energy consumers can be tackled.

- It is observed that PGVCL is being replacing old transformers of CRGO type to Amorphous transformers and has observed good results. Hence, it is suggested to carry out transformer replacement drives for replacing old 200 kVA and above rating transformers from CRGO to Amorphous transformers. This drive is required to be carried out in phased manner by considering following factors:
 - Age of Transformers
 - Technical and financial feasibility

1. ENERGY AUDIT AGENCY

1.1 Name of the Firm

ELECTRICAL RESEARCH & DEVELOPMENT ASSOCIATION (ERDA)

1.2 Registration Number of the Firm

Em-AEA 058

1.3 Address

Electrical Research & Development Association
ERDA Road,
Makarpura Industrial Estate,
Vadodara – 390010

1.4 Accredited Energy Auditor (Team Leader)

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Manager & Head, Energy Management Section
ERDA
Accredited Energy Auditor (AEA-0016)
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1.5 About Energy Audit Agency

Electrical Research and Development Association (ERDA), a not-for-profit professional Organisation, registered under societies act and Public Trust formed under the Charity Commissioner of Maharashtra, was promoted by the Electrical industries and some Utilities with **support from Government of India through CSIR and grant given by the Government of Gujarat in March 1974.**

ERDA was established at Vadodara on the land provided by **Gujarat government free of cost.** ERDA is routinely audited by Comptroller and Accountant General (Gujarat) for utilization of funds sanctioned by the Government for various infrastructure and R&D projects.

ERDA's services are provided under three business verticals namely "Testing & Evaluation", "Field Services", and "R&D and Expert Services". ERDA operates from its state-of-the-art 25-acre head office located at Makarpura, Vadodara and three site laboratories – ERDA (North) at Gurgaon, ERDA (West) at Rabale & ERDA (South) at Rajahmundry to serve customers spread across various geographical locations in India.

The Energy Management Section (EMS) of ERDA was established in the year 1995 with the objective of providing energy conservation services to the Nation. The energy audit studies undertaken by the EMS have covered Industries, Power Generation Utilities, Power Distribution Utilities, Fertilizer Plants, Iron & Steel Industries, Refineries and Petrochemical Industries, Manufacturing Industries, Chlor-Alkali Plants, Railway Workshops, Chemical Industries, Pumping Stations, Dairies, Municipal Corporations, Commercial Buildings, Hospitals, etc.

EMS has carried out more than 300 energy audits until now and the benefits realized by our esteemed clients by implementing our recommendations are quite handsome. Over the years, EMS has specialized in energy conservation related to conventional fuels such as coal, oil & gas.

EMS Carries mandatory PAT Energy Audit, M&V Audit for PAT cycle, Process Audit, Heat and Mass balance calculation, Thermal Insulation Audit, Illumination Survey, etc.

2. INTRODUCTION OF DESIGNATED CONSUMER

2.1 Name

Paschim Gujarat Vij Company Ltd.

2.2. Sector

DISCOM

2.3. PAT Registration No.

DIS0024GJ

2.4. Address

Paschim Gujarat Vij Company Limited,
Nana Mava Main Road,
Laxminagar,
Rajkot-360004(Gujarat)

2.5. Energy Manager

Mr. Gaurav S. Vaghela
Designated Energy Manager &
DE(R&D), Corporate Office,
PGVCL-Rajkot
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2.6. Nodal Officer

Mr. J. J. Gandhi

Chief Engineer (Tech)

PGVCL-Rajkot

Cell No: 9925210214

e-Mail: cetech.pgvcl@gmail.com

2.7. Introduction

As a part of Power Reform Process, Gujarat Electricity Board (GEB), the promoting body, has been unbundled effective from 1st April, 2005, into separate seven Companies with functional responsibilities with complete autonomous operation for

1. Generation
2. Transmission
3. Distribution
4. Trading

Accordingly, a new Company known as Paschim Gujarat Vij Company Limited (PGVCL) was incorporated on 15th September, 2003, by Gujarat Electricity Board (GEB).

The Company obtained the Certificate of Commencement of Business on 15th October, 2003 and the distribution undertakings and functions of the Western Distribution Zone of the erstwhile GEB stand transferred to and vest in the Company effective from 1st April, 2005. The company has become operational effective from 1st April, 2005.

Along with PGVCL, the total 7 companies are:

1. Gujarat State Electricity Corporation Limited (GSECL) [Generation]
2. Gujarat Energy Transmission Corporation Limited (GETCO) [Transmission]
3. Dakshin Gujarat Vij Company Limited (DGVCL) [Distribution]
4. Madhya Gujarat Vij Company Limited (MGVCL) [Distribution]
5. Uttar Gujarat Vij Company Limited (UGVCL) [Distribution]
6. Paschim Gujarat Vij Company Limited (PGVCL) [Distribution]
7. Gujarat Urja Vikas Nigam Limited (GUVNL) [Holding & Trading Company]

2.7. Area of Energy Distribution of DISCOM

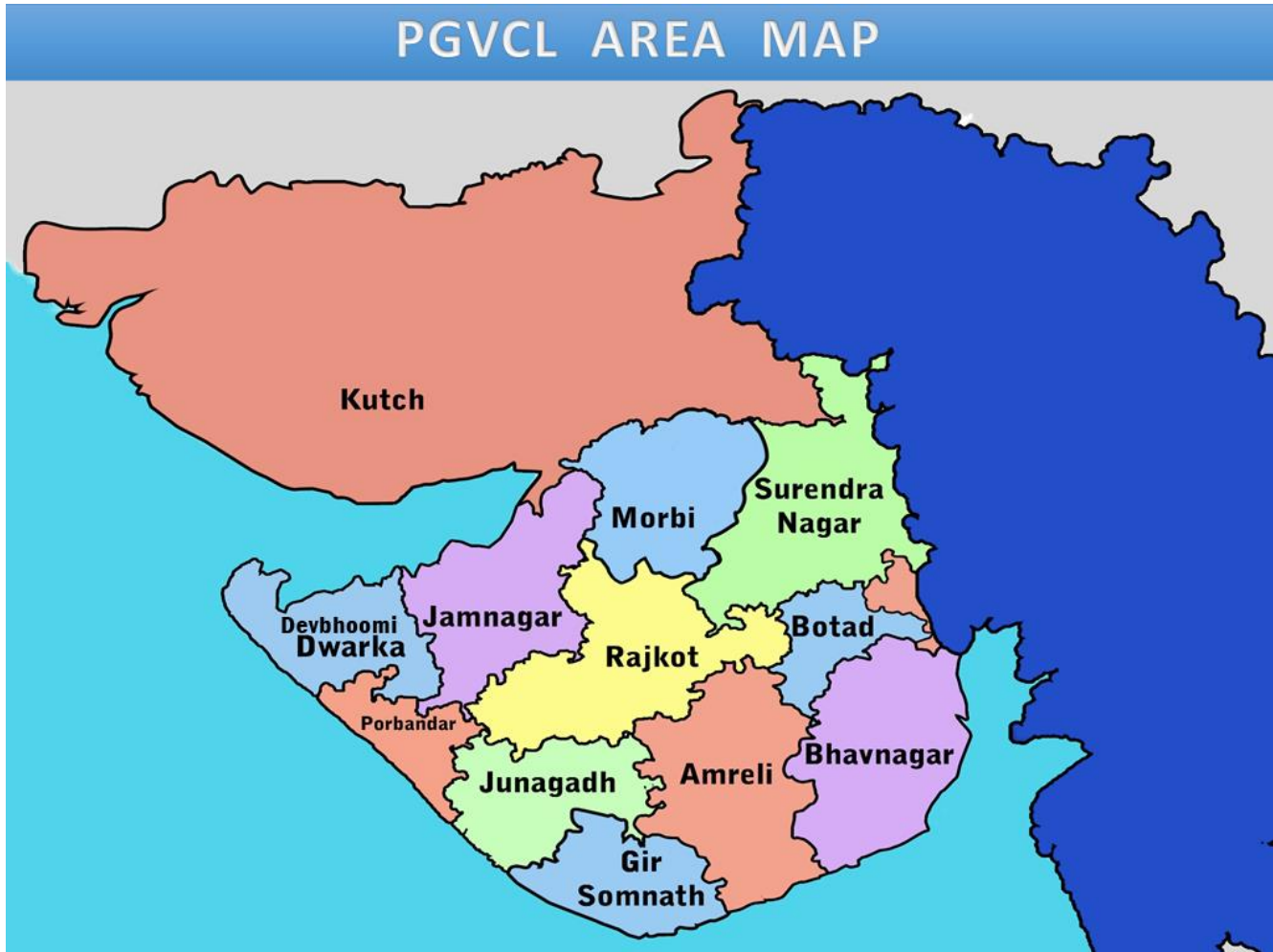
The area of energy distributed by PGVCL is as follows:

Circle	Area in Square KM
Rajkot City	873.34
Rajkot Rural	8889.38
Morbi	5004
Porbandar	8145.9
Jamnagar	9696.09
Junagadh	6221.5
Bhuj	25624
Anjar	6914.55
Bhavnagar	9219.95
Botad	3464.48
Amreli	11068.99
TOTAL	104991.18

Various Divisions of PGVCL are as follows:

Circle	Number Of Divisions	Number Of Sub Divisions	Number Of HT Sub Divisions	Number Of Section Offices
Rajkot City	3	21	3	0
Rajkot Rural	5	27	0	0
Morbi	4	18	0	0
Porbandar	4	17	0	0
Jamnagar	6	32	1	0
Junagadh	4	21	0	0
Bhuj	3	17	0	2
Anjar	3	13	0	0
Bhavnagar	5	28	1	0
Botad	2	10	0	0
Amreli	4	28	0	0
TOTAL	46	253	5	2

2.8 Area-Map of DISCOM



2.9. Infrastructure Details

The details of 11 kV feeders and connections with PGVCL is as follows:

Circle	Number of 11 KV Feeders	Number of Connections
Rajkot City	268	582699
Rajkot Rural	1197	639816
Morbi	1038	328852
Porbandar	526	398160
Jamnagar	1062	695746

Junagadh	689	488246
Bhuj	750	391966
Anjar	493	255691
Bhavnagar	749	626693
Botad	302	223846
Amreli	888	600438
TOTAL	8569	5064232

The details of HT and LT lines and T/Cs of PGVCL is as follows:

Circle	HT Lines (KMs)	LT Lines (KMs)	Total T/Cs
Rajkot City	32093	1882	14091
Rajkot Rural	1295	15552	175067
Morbi	15801	6036	61618
Porbandar	13003	11107	81243
Jamnagar	32380	16184	153840
Junagadh	16127	11563	83747
Bhuj	18684	10598	49872
Anjar	11754	5048	30588
Bhavnagar	21119	9997	94756
Botad	11285	4211	53189
Amreli	34740	18714	137344
TOTAL	223977	11870	1005097

Other details of infrastructure are as follows:

Sr. No.	Detail	Value
1.	Total Number of feeders	8569
2.	Total Number of distribution transformers	1005097
3.	Total Number of LT metered consumers with conventional meters	5604232
4.	Total Number of conventional metered distribution transformers	1005097
5.	Total line length (ckt km)	342757
6.	Total line length of underground cables (ckt km)	1381
7.	Total line length of Arial Bunched Cables (ckt km)	24764
8	Total line length at 11kV voltage level (ckt km)	223977
9	Total line length at LT level (ckt km)	118779
10	HT/LT ratio	1.89

2.10. Details of Customers

The details of customers at various divisions of PGVCL is as follows:

Sr. No.	Circle	Division	Consumer profile			
			Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
1	Rajkot City	Rajkot City-1	Residential	122442	0	122442
			Agricultural	0	0	0
			Commercial/Industrial-LT	56924	0	56924
			Commercial/Industrial-HT	119	0	119
			Others	628	0	628
Sub-total			180113	0	180113	
2	Rajkot City	Rajkot City-2	Residential	113832	0	113832
			Agricultural	0	0	0
			Commercial/Industrial-LT	39551	0	39551
			Commercial/Industrial-HT	83	0	83

Sr. No.	Circle	Division	Consumer profile			
			Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
			Others	950	0	950
			Sub-total	154416	0	154416
3	Rajkot City	Rajkot City-3	Residential	206897	0	206897
			Agricultural	983	394	1377
			Commercial/Industrial-LT	37564	0	37564
			Commercial/Industrial-HT	142	0	142
			Others	-1461	0	-1461
			Sub-total	244125	394	244519
4	Rajkot Rural	Gondal	Residential	89484	0	89484
			Agricultural	47789	8083	55872
			Commercial/Industrial-LT	16270	0	16270
			Commercial/Industrial-HT	270	0	270
			Others	1652	0	1652
			Sub-total	155465	8083	163548
5	Rajkot Rural	Dhoraji	Residential	86209	0	86209
			Agricultural	31849	6893	38742
			Commercial/Industrial-LT	14676	0	14676
			Commercial/Industrial-HT	66	0	66
			Others	1092	0	1092
			Sub-total	133892	6893	140785
6	Rajkot Rural	Rajkot Rural	Residential	69961	0	69961
			Agricultural	38407	7762	46169
			Commercial/Industrial-LT	16900	0	16900
			Commercial/Industrial-HT	965	0	965
			Others	1065	0	1065
			Sub-total	127298	7762	135060
7	Rajkot Rural	Jasdan	Residential	59675	0	59675
			Agricultural	45640	6529	52169
			Commercial/Industrial-LT	9408	0	9408
			Commercial/Industrial-HT	45	0	45
			Others	1137	0	1137
			Sub-total	115905	6529	122434
8	Rajkot Rural	Jetpur	Residential	65367	0	65367
			Agricultural	27864	5048	32912
			Commercial/Industrial-LT	12760	0	12760
			Commercial/Industrial-HT	102	0	102
			Others	841	0	841
			Sub-total	106934	5048	111982
9	Morbi	Morbi	Residential	146562	0	146562
			Agricultural	19759	3795	23554
			Commercial/Industrial-LT	31143	0	31143
			Commercial/Industrial-HT	1336	0	1336
			Others	294	0	294
			Sub-total	199094	3795	202889
10	Morbi	Halvad	Residential	34401	0	34401
			Agricultural	22022	7764	29786
			Commercial/Industrial-LT	6084	0	6084
			Commercial/Industrial-HT	47	0	47
			Others	389	0	389

Sr. No.	Circle	Division	Consumer profile			
			Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
Sub-total				62943	7764	70707
11	Morbi	Wankaner	Residential	38569	0	38569
			Agricultural	19469	3248	22717
			Commercial/Industrial-LT	7106	0	7106
			Commercial/Industrial-HT	365	0	365
			Others	1153	0	1153
Sub-total				66662	3248	69910
12	Porbandar	Porbandar City	Residential	73102	0	73102
			Agricultural	4899	1989	6888
			Commercial/Industrial-LT	14305	0	14305
			Commercial/Industrial-HT	62	0	62
			Others	635	0	635
Sub-total				93003	1989	94992
13	Porbandar	Porbandar Rural	Residential	72036	0	72036
			Agricultural	34839	11362	46201
			Commercial/Industrial-LT	7891	0	7891
			Commercial/Industrial-HT	24	0	24
			Others	1155	0	1155
Sub-total				115945	11362	127307
14	Porbandar	Keshod	Residential	58958	0	58958
			Agricultural	27123	8048	35171
			Commercial/Industrial-LT	10200	0	10200
			Commercial/Industrial-HT	5	0	5
			Others	1128	0	1128
Sub-total				97414	8048	105462
15	Porbandar	Mangrol	Residential	58956	0	58956
			Agricultural	22923	10129	33052
			Commercial/Industrial-LT	8408	0	8408
			Commercial/Industrial-HT	20	0	20
			Others	556	0	556
Sub-total				90863	10129	100992
16	Jamnagar	Jamnagar City-1	Residential	117417	0	117417
			Agricultural	7619	1840	9459
			Commercial/Industrial-LT	25646	0	25646
			Commercial/Industrial-HT	73	0	73
			Others	1132	0	1132
Sub-total				151887	1840	153727
17	Jamnagar	Jamnagar City-2	Residential	97914	0	97914
			Agricultural	14107	3888	17995
			Commercial/Industrial-LT	22399	0	22399
			Commercial/Industrial-HT	186	0	186
			Others	873	0	873
Sub-total				135479	3888	139367
18	Jamnagar	Jamnagar Rural	Residential	72125	0	72125
			Agricultural	54395	11404	65799
			Commercial/Industrial-LT	8765	0	8765
			Commercial/Industrial-HT	54	0	54
			Others	1305	0	1305
Sub-total				136644	11404	148048

Sr. No.	Circle	Division	Consumer profile			
			Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
19	Jamnagar	Khambhaliya	Residential	50536	0	50536
			Agricultural	28858	5436	34294
			Commercial/Industrial-LT	10741	0	10741
			Commercial/Industrial-HT	23	0	23
			Others	727	0	727
Sub-total			90885	5436	96321	
20	Jamnagar	Jamjodhpur	Residential	45394	0	45394
			Agricultural	38561	7077	45638
			Commercial/Industrial-LT	5890	0	5890
			Commercial/Industrial-HT	16	0	16
			Others	875	0	875
Sub-total			90736	7077	97813	
21	Jamnagar	Dwarka	Residential	54886	0	54886
			Agricultural	22927	3366	26293
			Commercial/Industrial-LT	10030	0	10030
			Commercial/Industrial-HT	47	0	47
			Others	156	0	156
Sub-total			88046	3366	91412	
22	Junagadh	Junagadh City	Residential	97814	0	97814
			Agricultural	95	5	100
			Commercial/Industrial-LT	24298	0	24298
			Commercial/Industrial-HT	42	0	42
			Others	1882	0	1882
Sub-total			124131	5	124136	
23	Junagadh	Junagadh-1	Residential	68900	0	68900
			Agricultural	39508	12650	52158
			Commercial/Industrial-LT	7445	0	7445
			Commercial/Industrial-HT	39	0	39
			Others	1230	0	1230
Sub-total			117122	12650	129772	
24	Junagadh	Junagadh-2	Residential	63806	0	63806
			Agricultural	32139	9330	41469
			Commercial/Industrial-LT	7415	0	7415
			Commercial/Industrial-HT	18	0	18
			Others	1182	0	1182
Sub-total			104560	9330	113890	
25	Junagadh	Veraval	Residential	89182	0	89182
			Agricultural	32638	11502	44140
			Commercial/Industrial-LT	17123	0	17123
			Commercial/Industrial-HT	146	0	146
			Others	1624	0	1624
Sub-total			140713	11502	152215	
26	Bhuj	Bhuj	Residential	117760	0	117760
			Agricultural	12131	4798	16929
			Commercial/Industrial-LT	23628	0	23628
			Commercial/Industrial-HT	126	0	126
			Others	2007	0	2007
Sub-total			155652	4798	160450	
27	Bhuj	Mandvi	Residential	111376	0	111376

Sr. No.	Circle	Division	Consumer profile			
			Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
			Agricultural	15631	6955	22586
			Commercial/Industrial-LT	15547	0	15547
			Commercial/Industrial-HT	85	0	85
			Others	1600	0	1600
			Sub-total	144239	6955	151194
28	Bhuj	Nakhtrana	Residential	67864	0	67864
			Agricultural	13526	3909	17435
			Commercial/Industrial-LT	8435	0	8435
			Commercial/Industrial-HT	29	0	29
			Others	2180	0	2180
			Sub-total	92034	3909	95943
29	Anjar	Anjar	Residential	62722	0	62722
			Agricultural	5953	2339	8292
			Commercial/Industrial-LT	8729	0	8729
			Commercial/Industrial-HT	120	0	120
			Others	791	0	791
			Sub-total	78315	2339	80654
30	Anjar	Gandhidham	Residential	78281	0	78281
			Agricultural	821	124	945
			Commercial/Industrial-LT	18876	0	18876
			Commercial/Industrial-HT	344	0	344
			Others	625	0	625
			Sub-total	98947	124	99071
31	Anjar	Bhachau	Residential	56844	0	56844
			Agricultural	12802	3929	16731
			Commercial/Industrial-LT	7654	0	7654
			Commercial/Industrial-HT	118	0	118
			Others	1783	0	1783
			Sub-total	79201	3929	83130
32	Bhavnagar	Bhavnagar City-1	Residential	92368	0	92368
			Agricultural	68	45	113
			Commercial/Industrial-LT	29165	0	29165
			Commercial/Industrial-HT	60	0	60
			Others	1158	0	1158
			Sub-total	122819	45	122864
33	Bhavnagar	Bhavnagar Rural	Residential	67934	0	67934
			Agricultural	20741	5542	26283
			Commercial/Industrial-LT	8336	0	8336
			Commercial/Industrial-HT	176	0	176
			Others	1736	0	1736
			Sub-total	98923	5542	104465
34	Bhavnagar	Mahuva	Residential	76556	0	76556
			Agricultural	30731	5902	36633
			Commercial/Industrial-LT	11235	0	11235
			Commercial/Industrial-HT	171	0	171
			Others	1454	0	1454
			Sub-total	120147	5902	126049
35	Bhavnagar	Palitana	Residential	97430	0	97430
			Agricultural	43601	10802	54403

Sr. No.	Circle	Division	Consumer profile			
			Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
			Commercial/Industrial-LT	15087	0	15087
			Commercial/Industrial-HT	57	0	57
			Others	2279	0	2279
			Sub-total	158454	10802	169256
36	Bhavnagar	Bhavnagar City-2	Residential	99526	0	99526
			Agricultural	11445	2073	13518
			Commercial/Industrial-LT	14689	0	14689
			Commercial/Industrial-HT	144	0	144
			Others	1245	0	1245
			Sub-total	127049	2073	129122
37	Botad	Botad	Residential	88030	0	88030
			Agricultural	34872	6693	41565
			Commercial/Industrial-LT	15044	0	15044
			Commercial/Industrial-HT	54	0	54
			Others	1082	0	1082
			Sub-total	139082	6693	145775
38	Botad	Gadhada	Residential	50096	0	50096
			Agricultural	27791	5364	33155
			Commercial/Industrial-LT	5849	0	5849
			Commercial/Industrial-HT	27	0	27
			Others	794	0	794
			Sub-total	84557	5364	89921
39	Amreli	Amreli-1	Residential	114694	0	114694
			Agricultural	50084	9040	59124
			Commercial/Industrial-LT	17173	0	17173
			Commercial/Industrial-HT	104	0	104
			Others	1984	0	1984
			Sub-total	184039	9040	193079
40	Amreli	Amreli-2	Residential	72165	0	72165
			Agricultural	40357	8581	48938
			Commercial/Industrial-LT	8796	0	8796
			Commercial/Industrial-HT	14	0	14
			Others	1342	0	1342
			Sub-total	122674	8581	131255
41	Amreli	Savarkundla	Residential	105140	0	105140
			Agricultural	35482	6794	42276
			Commercial/Industrial-LT	13235	0	13235
			Commercial/Industrial-HT	67	0	67
			Others	1925	0	1925
			Sub-total	155849	6794	162643
42	Amreli	Una	Residential	89263	0	89263
			Agricultural	34155	11461	45616
			Commercial/Industrial-LT	12437	0	12437
			Commercial/Industrial-HT	42	0	42
			Others	796	0	796
			Sub-total	136693	11461	148154
43	Surendranagar	Surendranagar	Residential	137649	0	137649
			Agricultural	25394	4638	30032
			Commercial/Industrial-LT	25048	0	25048

Sr. No.	Circle	Division	Consumer profile			
			Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
			Commercial/Industrial-HT	158	0	158
			Others	1226	0	1226
			Sub-total	189475	4638	194113
44	Surendranagar	Limbdi	Residential	52434	0	52434
			Agricultural	20467	3148	23615
			Commercial/Industrial-LT	6486	0	6486
			Commercial/Industrial-HT	46	0	46
			Others	513	0	513
			Sub-total	79946	3148	83094
45	Surendranagar	Dhrangadhra	Residential	71822	0	71822
			Agricultural	19943	6438	26381
			Commercial/Industrial-LT	8188	0	8188
			Commercial/Industrial-HT	53	0	53
			Others	1165	0	1165
			Sub-total	101171	6438	107609
46	Total		Residential	3764379	0	3764379
			Agricultural	1070408	256117	1326525
			Commercial/Industrial-LT	702579	0	702579
			Commercial/Industrial-HT	6290	0	6290
			Others	49885	0	49885
47	At company level			5593541	256117	5849658

It is to be noted that all the un-metered connections are for Agricultural consumers. This is due to the fact that under the tariff plan of Ag category, an Agro consumer can directly pay the charges as per the contracted load instead of paying as per the energy consumed.

2.11 Various Types of Feeders at PGVCL

The supply is done through different types of feeders as follows:

1. **Urban Feeders:** They cater urban areas residential as well as commercial consumers.

2. **Jyotirgram Feeders:** They are rural counterpart of Urban Feeders. They cater rural residential as well as commercial consumers.
3. **GIDC Feeders:** They cater industrial as well as commercial as well as residential load (if available) in Gujarat Industrial Development Corporation Area, which is primary an industrial area.
4. **Industrial Feeders:** They cater industries as well as some commercial consumers located along the feeder. They cater those industries that are not situated in GIDC area.
5. **Agricultural Feeders:** They cater only agricultural consumers. They carry load based on operational timings decided by the regulatory council.
6. **HT Express Feeders:** They cater those HT Industrial consumers, where uninterrupted power supply is the priority. No other consumers are attached to that particular feeder except the consumer who requires that.
7. **EHT Feeders:** These are the feeders having voltage level higher than 11 kV. These are similar to express feeders, with the only difference is that the monitoring and control is done by SLDC, as the loading on these feeders are significantly high. They are billed based on sent units and all the T&D loss occurring in these feeders is accounted on consumer.
8. **SST Feeders:** These feeders cater the local substation for their day-to-day consumption activities.

3. ENERGY FLOW AND LOSSES IN PGVCL

3.1 Energy input into PGVCL Network

The amount of energy purchased by PGVCL as mentioned in the invoice from GUVNL (holding company) to PGVCL is as shown in following figure:

Reconciled statement of monthly energy supplied by GUVNL for FY 2020-21

Months	PGVCL					
	Already Billed Unit	Adjustment unit due to revision in SEA	Adjustment unit due to TAPS 1& 2 Drawl	Net Units	BST rate (Rs/Unit)	Amount (Rs.)
Apr-20	2583677752	-1	0	2583677751	4.1024	10599279606
May-20	2896544189	74	0	2896544263	4.1024	11882783185
Jun-20	2756111116	0	0	2756111116	4.1024	11306670242
Jul-20	2667181133	-114613	0	2667066520	4.1024	10941373692
Aug-20	2463129615	34980	-599899	2462564696	4.1024	10102425409
Sep-20	2757610682	-38051	-608839	2756963792	4.1024	11310168260
Oct-20	3272386468	416508	-514355	3272288621	4.1024	13424236839
Nov-20	3138561862	24265	-590114	3137996013	4.1024	12873314844
Dec-20	3324828317	-48365	-526639	3324253313	4.1024	13637416791
Jan-21	3415187024	-47546	-573245	3414566233	4.1024	14007916514
Feb-21	3218980815	-20728	-448291	3218511796	4.1024	13203622792
Mar-21	3795812233	7180019	-461053	3802531199	4.1024	15599503990
Total	36290011206	7386542	-4322435	36293075313	4.1024	148888712164


K.P. JANGID
 General Manager (Com)
 Gujarat Urja Vikas Nigam Limited
 Race Course, BARODA-390007.

Taking into consideration the energy purchased through renewable sources as well as import and export in DSM, the net power purchased is 35830.37 MUs. The screenshot of the audited page in audited report by CA for the energy purchased by PGVCL is as follows:

PASCHIM GUJARAT VIJ COMPANY LIMITED
NOTES TO THE FINANCIAL STATEMENTS

44 Transmission and Distribution Losses

(in Mu's)

Particulars	For the Year ended 31st March, 2021	For the Year ended 31st March, 2020
Units Purchased from GUVNL	36,293.08	35,535.32
Units Purchased from Wind farm/solar/Hydel	212.89	165.69
DSM Units Import	32.93	126.74
Less Units sold to GUVNL	-	93.71
Less DSM Units Export	708.52	401.72
Net Power Purchase	35,830.37	35,332.31
Less: Units sold to consumers	27,913.45	27,622.31
Transmission and Distribution Losses	7,916.92	7,710.00
T&D Losses in %	22.10	21.82

45 The Company has a system of physical verification of Inventory, Fixed assets and Capital Stores in a phased manner to cover all items over a period of three years. Adjustment differences, if any, are carried out on completion of reconciliation.

46 The Company did not have any long term contracts including derivative contracts for which there were any material foreseeable losses. Further, some balances of Trade and other receivables, Trade and other payables and Loans are subject to confirmation/reconciliation. Adjustments, if any, will be accounted for on confirmation/reconciliation of the same, which will not have a material impact.

47 Impact of COVID-19

The spread of COVID-19 pandemic had impacted the demand for electricity and collection of electricity bills from consumers during the first half of the current year.

The Company has considered all possible impact of COVID-19 pandemic including the second wave of COVID-19 (subsequent to year end also) in India in preparation of these financial statements for the year ended March 31, 2021. As per the current assessment of the situation based on the internal and external information available up to the date of approval of these financial results by the Board of Directors, the Company continues to believe that the impact of COVID-19 on its business, assets, profitability and liquidity, both present and future, would be limited and there is no indication of any material impact on the carrying amounts of its financial and non-financial assets. The management does not expect any medium to long term risks at this stage in company's ability to continue as a going concern. Company is closely monitoring any material changes to the economic environment and their impact on its business.

a) Relief announced by GoG :-

In order to address the difficulties faced by the electricity consumers for timely payment of electricity bills and payment of minimum charges bills by commercial and industrial units due to lockdown situation in backdrop of eruption of Coronavirus (Covid-19) pandemic, GOG vide GR no. GUV-122020-345-K.1 dated 27.03.2020, GR no. GUV-122020-345-K.1 dated 27.03.2020, GR no. GUV-122020-345-K.1 dated 30.03.2020 and GR no. GUV-122020-345-K.1 dated 11.05.2020 has allowed all categories of consumers to make payment against electricity bills issued during the period 01.03.2020 to 20.05.2020 by 30.05.2020 without levy of delayed payment charges and decided not to recover minimum charges i.e. Demand / Fixed Charges from consumers covered under Commercial / Industrial tariff category as per various conditions mentioned in the above stated GRs. The impact of Delayed Payment Charges waived in accordance with above GRs is ₹ 85.69 Lakhs. Furthermore the Company has waived Demand / Fixed Charges amounting to ₹ 12462.91 Lakhs to LTMD / NRGF / HT consumers.

b) Relief announced by GoG under "Atmanirbhar Scheme " :-

GOG vide GR no. APB/102020/108/195224/K dated 05.06.2020 has declared Atmanirbhar Package for extending relief to specified consumer categories considering nationwide lockdown imposed due to Coronavirus (Covid-19) pandemic. Subsequently detailed guidelines were issued vide GoG GR no. GUV-132020-960-K.1 dated 22.06.2020, GR no. GUV-132020-960(2)-K.1 dated 17.06.2020, GR no. GUV-132020-960(3)-K.1 dated 17.06.2020 for implementation of this scheme. Accordingly, the Revenue from Operations under Note no. 28 includes an amount of ₹ 11856.46 lakhs which has been reimbursed by GoG to the Company through GUVNL towards relief given by Company to various categories of consumers in accordance with the stated GRs as summarised below :-

Details of Relief under Atmanirbhar Scheme:		
Particulars	Nos of Beneficiaries	Amount (₹ In Lakhs)
a). Relief upto 100 Unit Bill Amount to Residential Consumers	3,175,209	10,644.95
b). Relief of Fixed Charge in Energy Bill to LTMD & NRGF	266,694	1,198.09
c). Relief to the Temporary Consumers working under Government Projects	95	13.42
Total	3,441,998.00	11,856.46



4. PERFORMANCE OF PGVCL IN PREVIOUS YEARS

The performance of PGVCL in previous years is as follows:

Sr. No.	Details	20-21	19-20	18-19
1	Energy Purchased (MUs)	36538.89	35827.65	38459.70
2	T&D Loss (MUs)	7916.92	7709.91	9421.87
3	Total Amount Billed (Rs. Crores)	17790.94	17826.65	16853.37
4	Average Cost of Supply (Rs/kWh)	6.24	6.53	6.17
5	Average cost of purchase of power (Rs. /kWh)	4.1	4.34	4.02

The above data is taken from Regulatory Information Report submitted to GERC by PGVCL and is retrieved from GERC.

The loss of energy has reduced from 9421.87 MUs from 18-19 to 7916.92 MUs. This is significant reduction in energy loss.

4.1 Data submitted as Regulatory Information Report to GERC

The relevant data from the Regulatory Information Report submitted to GERC by PGVCL is as follows:

				20-21
I		Power Purchase		
	1	Purchase from IPPs/CPPs	MUs	0
	2	Purchase from GUVNL	MUs	36293.08
	3	Purchase from wind & solar	MUs	212.89
		UI purchase	MUs	32.93
		Total purchase of power	MUs	36538.89
II		Energy Balance sheet:		
	1	Total net generation + purchase of power	MUs	36293.08
	1A	Export	MUs	0
	2	Units sent out	MUs	36293.08
	3	Metered + Estimated unmetered sales	MUs	27913.45
	3A	Sale to GUVNL	MUs	0.00
		UI Sales	MUs	708.52
	4	T & D loss (2-3)	MUs	7916.92
	5	T & D loss (4)/ (2) *100	%	22.10

Based on the data provided by GETCO to GERC and based on the approved truing up report by GERC, the energy loss occurring is as follows:

Sr. No.	Parameters	Unit	Value
1	Power purchase through GUVNL	MUs	35830.38
2	GETCO Transmission Loss	MUs	1224.56
3	GETCO Transmission Loss	%	3.50
4	Pooled losses in PGCIL System	MUs	621.09
5	Power purchase at T&D Periphery	MUs	33,984.73
6	Energy Sales	MUs	27913.45
7	Distribution Loss	MUs	6071.28
8	Distribution Loss of PGVCL	%	17.865%

Deducting the loss occurring in transmission system in above table, the total PGCIL pooled loss and GETCO transmission loss being 1845.64 MUs will be deducted from both losses as well as energy purchase.

Thus, the table will be as follows:

		Total purchase of power (removing Transmission loss of 1845.64 MUs)	MUs	34693.25
II		Energy Balance sheet:		
	1	Total net generation + purchase of power	MUs	34693.25
	1A	Export	MUs	0
	2	Units sent out	MUs	34693.25
	3	Metered + Estimated unmetered sales	MUs	27913.45
	3A	Sale to GUVNL	MUs	0.00
		UI Sales	MUs	708.52
		Net Energy sent (Unit sent out – UI Sales)	MUs	33984.73
	4	Distribution loss (2-3) of PGVCL (removing Transmission loss of 1845.64 MUs)	MUs	6071.28
	5	Distribution loss (4)/ (2) *100	%	17.865

5. CALCULATION OF THEORETICAL DISTRIBUTION LOSS

To check the efficacy of power distribution, theoretical loss of each feeder is calculated. This value of theoretical loss is then compared to the actual loss occurring for that particular feeder, and based on the findings, corrective actions are taken. Technical losses depend upon the type of load, size of conductor and length of line.

5.1 Losses in distribution Network

The two major type of losses in distribution network:

1. Technical Loss
2. Commercial Loss

The technical losses include:

1. Losses occurring due to Impedance of Distribution lines
2. No Load losses of transformer
3. Copper loss of transformer
4. Corona loss
5. Leakage current loss
6. Di-electric loss
7. Open circuit loss
8. Loading of measurement and control elements
9. Loss due to contact resistance.

The major reasons for technical loss are:

- A. High Length of distribution lines
- B. Lower cross section area of distribution lines or inadequate size of conductors
- C. Load far away from distribution transformers
- D. Major load at a long distance from sending end
- E. Un-balanced load
- F. Low power factor
- G. Higher losses occurring in transformer due to lower rating than required
- H. Overloading of lines
- I. Higher inductive loads in lines
- J. Harmonics in distribution network
- K. More number of joints in distribution system and worn-out components increasing the contact resistance of the system.
- L. Lack of timely maintenance

5.2 Methods to calculate Theoretical distribution loss

There are three methods to calculate theoretical distribution loss:

1. Conventional Method
2. Sectional Method
3. Vector Method

These methods are explained below.

5.2.1 Conventional Theoretical Distribution Loss Method:

In this method, whole feeder is considered as one segment. The total loss occurring in that particular feeder are calculated by considering standard losses occurring in every conductor segment and transformer. The LT loss

is calculated by considering peak load, average units sent at sending end, diversity factor, etc.

The calculation is as follows:

- 1. Peak Load:** The load calculated considering peak current (neither fault current, nor transient current) for the time of consideration of loss is the peak load. (The time of consideration means the peak ampere occurring till the date of calculation from the time the feeder is created in the present condition to ensure that the bifurcation of feeders, re-arranging of load, etc. does not affect the calculation.)

Thus,

$$\text{Peak load (kVA), } P_p = 1.732 * V_L * I_{\max}$$

where,

V_L = Line Voltage (kV)

I_{\max} = Peak Current (A)

- 2. Total connected load:** The total connected load is the total loading that can be done on each transformer.

For example, if there are i number of transformers of x_i kVA rating, j number of transformers of x_j kVA rating and so on up to n such types, the total connected load on the system can be given as:

$$P_c \text{ (kVA)} = \sum (x_i * i, x_j * j, \dots, x_n * n)$$

- 3. Diversity factor:** The Diversity factor is determined as the ratio of connected load to peak load. This is given as:

$$DF = P_c / P_p$$

4. Load factor: Load factor is determined as the ratio of total units sent out to the maximum units that could be sent if the load on the feeder be the peak load for all its operating time. Thus, the load factor is given as:

$$LF = U_{\text{sent}} / (P_p * pf * H_o)$$

Whereas,

U_{sent} = Units sent (kWh) for selected amount of time (most probably for one year)

pf = Average power factor occurred during that time period

H_o = Total hours of supply during that period.

5. Load Loss Factor: The load loss factor is the factor that is the ratio of average demand to peak demand and thus, it is based on the system load factor. Normally the approximation is used to determine the load loss factor. It is used in calculation of HT and LT losses.

For PGVCL, it is as follows:

$$LLF = (0.2 * LF) + (0.8 * LF^2)$$

6. Load Distribution Factor (LDF): It is the factor that represents how the load is distributed along the feeder. If the load is distributed uniformly, the LDF will be considered as 2, if the load is skewed towards power transformer, it is considered as greater than 2, and if the load is skewed towards tail end of the feeder the factor will be between 1 to 2. For DISCOMs of Gujarat, for various types of feeders, the standard LDF considered as:

Urban Feeder:	1.5
Industrial Feeder:	2
Agricultural Feeder:	2
HT EX Feeder:	1
GIDC Feeder:	2
Jyotigram Feeder (JGY):	2

7. HT Line Loss: The HT Line loss of the feeder is calculated with the base formula of I^2Z . The formula for HT loss can be given as:

$$\text{HT Line Loss} = (0.105 * (\text{Connected load})^2) * \text{Length of line} * \text{Line Impedance} * \text{LLF} / (2 * \text{LDF} * \text{DF} * \text{DF})$$

8. Transformer Loss: The transformer loss is calculated as total standard rated transformer loss.

9. LT Line Loss: To calculate line losses of LT side, standard line losses are considered for each kVA of connected load. However, for calculation of LT loss, peak power losses are calculated. The formula is:

$$\text{Peak LT Loss} = 3 * \text{Standard LT line loss} / (1000 * \text{DF}^2)$$

$$\text{Total LT Line loss} = \text{Peak LT Loss} * \text{LLF} * \text{Service hours for that particular selected time}$$

10. Total Feeder Loss: The total feeder loss is thus calculated as

Total Feeder Loss = HT Line Loss + LT line Loss + Transformer Loss

5.2.2 Sectionalized Theoretical Distribution Loss Method:

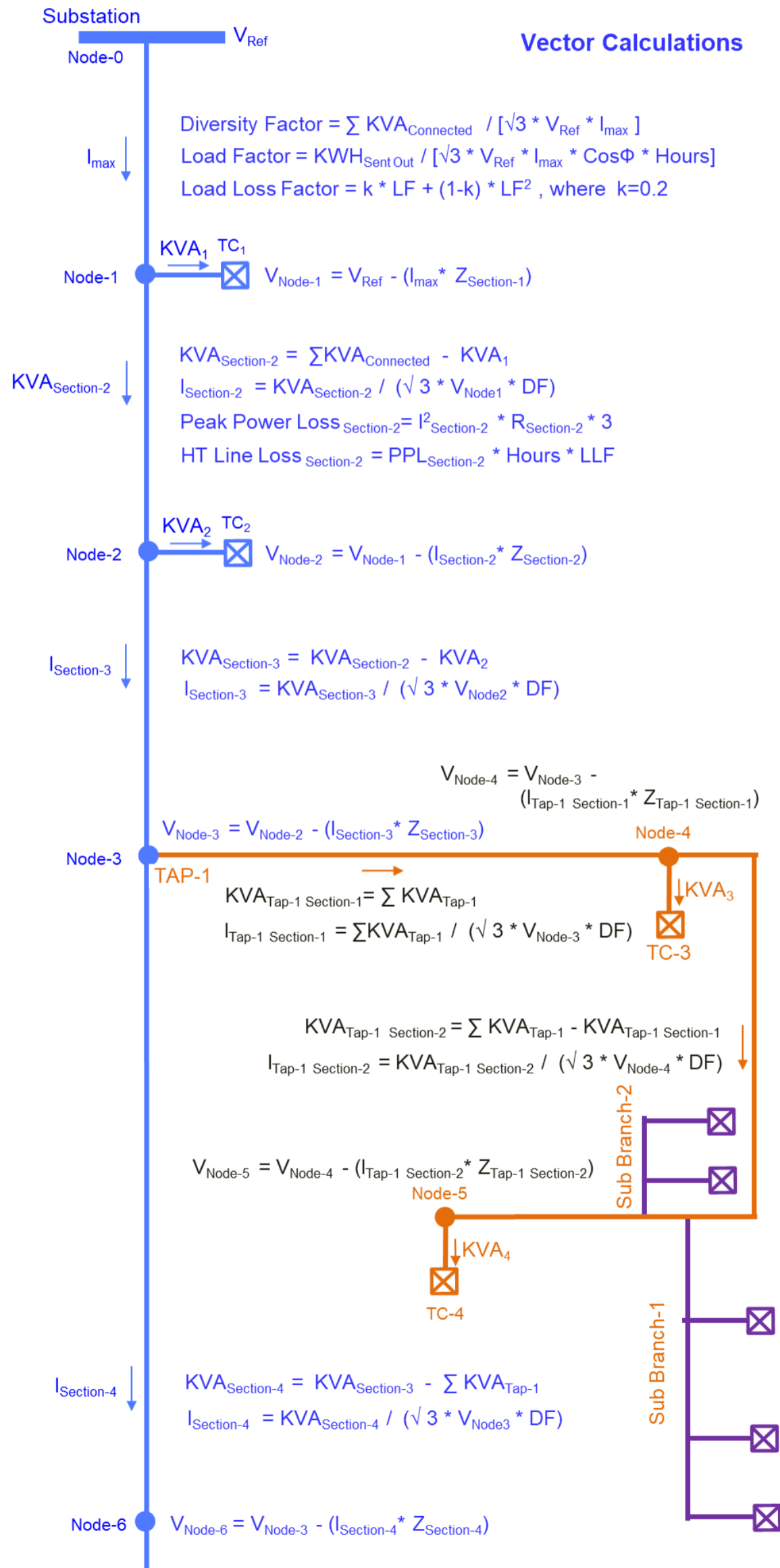
In this method, instead of whole feeder being considered as one entity, sections of feeder are considered based on the load distribution on the line. More the sections are considered, more accurate is the loss being calculated. Thus, one section can be considered between every two-distribution transformer. The calculation is then similar to above formulae, and starts from the receiving end. Thus, the total load at receiving end section is only

the load at receiving end, while the load at the section near sending end is the total load of the feeder.

5.2.3 Vector based Sectionalized Theoretical Distribution Loss Method:

In this method, instead of directly considering scalar product of impedance and square of current, vector product is done for each section. The calculation is shown in following pseudocode.

Model for HT Line Loss by Section Moment Method.



5.2.4 Standard Data

The standard impedance data, transformer loss, LT loss, etc. is depicted as follows:

A. Conductor and Cable Data

Technical Properties of Cable & Conductor as per IS 398 1994.					
Sr	Description of Line Conductor	Resistance in Ω / Km at 20°C	Reactance in Ω / Km (914 mm Equilateral Distance)	Temperature Coefficient per Degree Centigrade	Type (to be used to select Temperature)
		R	X	α	
1	AAAC 34	0.99000000	0.2907120	0.00400	Weasel OH Conductor
2	AAAC 55	0.62100000	0.3464891	0.00400	Rabbit OH Conductor
3	AAAC 100	0.33900000	0.3275228	0.00400	Dog OH Conductor
4	ACSR 30	0.92890000	0.2887280	0.00400	Weasel OH Conductor
5	ACSR 50	0.55240000	0.3426214	0.00400	Rabbit OH Conductor
6	ACSR 105	0.27920000	0.3211246	0.00400	Dog OH Conductor
7	XLPE 185	0.16484375	0.1030000	0.00400	Cable
8	XLPE 240	0.12578125	0.0985000	0.00400	Cable

B. Transformer & LT Line Loss Data

Standard "No Load" & "Load Loss" of Transformer and Constant Factors of LT Line Loss						
Sr	TC Standard Rating in KVA	NO Load Loss Watts		Load Loss Watts		LT Line Loss Watts (Constant Factor Method)
		Amor	CRGO	Amor	CRGO	
1	5	6	25	140	140	15
2	10	15	45	225	225	25
3	16	20	65	425	425	40
4	25	40	100	490	685	63
5	50		150	1300	1300	163
6	63	63	180	958	1235	260
7	100	85	260	1458	1760	1308
8	160		416		2816	2092.8
9	200	124	480	2302	2500	2410
10	250	124	480	2302	2500	2410
11	300		580	3850	3850	3008
12	315		609		4042.5	3158.4
13	400		737		4889	10959
14	500	235	850	5600	5600	18910
15	600		1100	7450	7450	20000
16	630		1155	7822.5	7450	21000
17	750		1100	7450	7450	20000
18	1000		1650	12500	12500	33000

C. Current carrying capacity

The current carrying capacity of various conductors is as follows:

Sr	Description of Line Conductor	Current carrying capacity (A)	Temperature at which the value is given (°C)
1	AAAC 34 Wesel	155	45
2	AAAC 55 Rabbit	210	45
3	AAAC 100 Dog	325	45
4	ACSR 30 Weasel	134	35
5	ACSR 50 Rabbit	186	35
6	ACSR 105 Dog	278	35
7	XLPE 185	555	35
8	XLPE 240	640	35
9	XLPE 150	460	35
10	ACSR 70 Horse	268	35
11	ACSR 150 Wolf	355	35
12	AAAC 80 Raccoon	290	35
13	AAAC 173 Wolf	460	45

Also, the current carrying capacity reduces with increase in temperature. If the conductors are undersized, the temperature will increase even more.

Thus, it becomes utmost necessary that the size of the conductor remains proper.

5.3 Feeder Loss of Selected Feeders by conventional method

12 Feeders were selected to calculate theoretical loss by conventional method in such a way that all the 12 circles are covered and all the types of feeders are covered except EHT feeders as they are billed on sent units and not on sold units and SST Feeders as there is very less consumption and very little loss due to the local usage at substation level.

The calculated loss is thus presented below.

5.3.1 Theoretical Loss of Alap Feeder

The theoretical loss calculation of Alap Feeder is as follows:

Basic Details of Feeder			
1	Circle		Rajkot City Circle
2	Division		RCD-3
3	Sub-Division		Nana Mava
4	Feeder ID		115516
5	Feeder Name		AALAP
6	Feeder Type		URBAN
7	Connected Load	kVA	9384
8	Line Voltage	V	11000
9	Units Sent	MU	16.846116
10	Units Sold	MU	15.168989
11	LDF		1.5

HT cables and Conductors Length			
1	50 sq. mm ACSR length	ckt km	9.79

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	13
2	50	0
3	63	35
4	100	60
5	200	16
6	500	0
7	10	0
8	16	5
9	5	0

Operating Data			
1	Connected Load	kVA	9747
2	Peak Current	A	235
3	Voltage Regulation	%	9.78
4	Average Power Factor		0.99
5	Outage Hours	hrs	15
6	Additional Outage Minutes	min	30

Calculations			
1	Total Outage Minutes	min	930
2	Total supply hours per year	hours	8744.5
3	Peak Load	kVA	4477.22
4	Diversity Factor		2.18
5	Load Factor		0.43
6	Load Loss Factor		0.24
7	Total HT Impedance @ 35°C	ohm	6.64
8	Total HT Loss	kWh	1109259.32
9	Total LT Loss	kWh	167550.72
10	Total Copper Loss of CRGO Transformers	kWh	330135.59
11	Total Iron Loss of CRGO Transformers	kWh	272872.12
12	Total Copper Loss of Amorphous Transformers	kWh	0.00
13	Total Iron Loss of Amorphous Transformers	kWh	0.00
14	Total Theoretical Loss	kWh	1879817.76
15	% Theoretical Loss	%	11.16
16	% Actual Loss	%	9.96

Remarks:

1. The theoretical loss is around 11.16%, while actual loss is around 9.96%. The difference in the theoretical as well as actual loss shall be due to the distribution of load across the feeder. As the load is considered as consolidated in the current method of calculation.
2. It is observed that majority of the conductor is 55 sq.mm size. The peak current is however, 235 A, and the simple average current is 102.13 A.
3. The peak current being 235 A is quite higher for the ACSR Rabbit conductor. Hence, it is suggested to change the conductor from ACSR Rabbit to ACSR Dog conductor.
4. Changing the conductor from ACSR Rabbit to ACSR Dog, will reduce the HT losses by 0.395 MUs.

Considering the cost of purchase of 1 unit to Rs. 4.1, the annual savings shall be Rs. 16.2 Lakh

5. The cost of investment per phase shall be as follows:
 - a. Conductor Cost: Rs. 12 Lakh
 - b. Stringing Cost: Rs. 0.4 Lakh
 - c. Miscellaneous Cost: Rs. 1 Lakh

d. Total Cost (03 Phase): Rs. 40.2 Lakh

6. The simple payback shall be 30 Months
7. Also, there will be many non-tangible savings.

5.3.2 Theoretical Loss of Adhoi Agricultural Feeder

Basic Details of Feeder			
1	Circle		Anjar
2	Division		Bhachau
3	Sub-Division		Samkhiyali
4	Feeder ID		121601
5	Feeder Name		Adhoi AG
6	Feeder Type		Agriculture
7	Connected Load	kVA	8905
8	Line Voltage	V	11000
9	Units Sent	MU	13.266288
10	Units Sold	MU	6.447436
11	LDF		2

HT cables and Conductors Length			
1	34 sq. mm AAAC length	ckt km	60.45

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	155
2	50	0
3	63	44
4	100	0
5	200	0
6	500	0
7	10	64
8	16	98
9	5	0

Operating Data			
1	Connected Load	kVA	8905
2	Peak Current	A	283
3	Voltage Regulation	%	11.29
4	Average Power Factor		0.86
5	Outage Hours	hrs	57
6	Additional Outage Minutes	min	25

Calculations			
1	Total Outage Minutes	Min	3445
2	Total supply hours per year	hours	8702.58
3	Peak Load	kVA	5391.72
4	Diversity Factor		1.65
5	Load Factor		0.33
6	Load Loss Factor		0.15
7	Total HT Impedance @ 35°C	ohm	65.83
8	Total HT Loss	kWh	2803015.57

9	Total LT Loss	kWh	38934.61
10	Total Copper Loss of CRGO Transformers	kWh	203698.58
11	Total Iron Loss of CRGO Transformers	kWh	284313.40
12	Total Copper Loss of Amorphous Transformers	kWh	0
13	Total Iron Loss of Amorphous Transformers	kWh	0
14	Total Theoretical Loss	kWh	3329962.15
15	% Theoretical Loss	%	25.10
16	% Actual Loss	%	51.40

Remarks:

1. The theoretical loss is around 25.1% while actual loss is around 51.4 %. The difference in the theoretical as well as actual loss shall be due to the distribution of load across the feeder. As the load is considered as consolidated in the current method of calculation. Also, such higher difference in the losses indicates the possibility of un-authorized use of electrical energy which is not part of the metering.
2. The length of conductor is more than 60 circuit km. This is quite a higher length for the feeder.
3. It is observed that majority of the conductor is 34 sq.mm size. The peak current is however, 283 A, and the simple average current is 93 A.
4. The peak current being 283 A is quite higher for the AAAC Wesel conductor. Hence, it is suggested to change the conductor from AAAC Wesel to ACSR Dog conductor.
5. Changing the conductor from AAC Wesel to ACSR Dog, will reduce the HT losses by 1.68 MUs.

Considering the cost of purchase of 1 unit to Rs. 4.1, the annual savings shall be Rs. 68.9 Lakh

The cost of investment per phase shall be as follows:

- a. Conductor Cost: Rs. 74 Lakh
- b. Stringing Cost: Rs. 2.5 Lakh
- c. Miscellaneous Cost: Rs. 6 Lakh
- d. Total Cost (03 Phase): Rs. 247.5 Lakh

The simple payback shall be **44 Months**

6. Alternatively, since, the feeder is such long, the feeder can be upgraded from 11 kV to 22 kV system. The annual savings will be around 2.1 MUs.

The annual savings with purchase cost of Rs. 4.1/kWh would be thus, Rs. 86.1 Lakh

Approximate investment for the system shall be

- a. 22 kV/430 V Transformers: Rs. 238 Lakh
- b. Cost of sending and Transformer: Rs. 50 Lakh
- c. Additional Costing: Rs. 62 Lakh

d. Total Costing: Rs. 350 Lakh

The simple payback shall be 49 Months.

The savings based on upgradation of Transformers is not calculated in above calculation.

7. As per third alternative, **feeder bifurcation** Must be looked at. The major load Must be placed as near as possible from the substation.

5.3.3 Theoretical Loss of Bhambhan Jyotirgram Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		Botad
2	Division		Botad
3	Sub-Division		Botad Rural
4	Feeder ID		341302
5	Feeder Name		11 kV Bhambhan JGY
6	Feeder Type		Jyotirgram
7	Connected Load	kVA	1320
8	Line Voltage	V	11000
9	Units Sent	MU	13.69
10	Units Sold	MU	7.18
11	LDF		2

HT cables and Conductors Length			
1	34 sq. mm AAAC length	ckt km	0
2	50 sq. mm ACSR length	ckt km	17
3	90 sq. mm ABC	ckt km	0.18
4	70 sq. mm ABC	ckt km	0.6

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	1
2	50	0
3	63	8
4	100	0
5	200	3
6	500	0
7	10	0
8	16	5
9	5	2

Operating Data			
1	Connected Load	kVA	1320
2	Peak Current	A	42
3	Voltage Regulation	%	3.12
4	Average Power Factor		0.92
5	Outage Hours	hrs	0
6	Additional Outage Minutes	min	25

Calculations			
1	Total Outage Minutes	Min	25
2	Total supply hours per year	hours	8759.58
3	Peak Load	kVA	800.18
4	Diversity Factor		1.65
5	Load Factor		2.12
6	Load Loss Factor		4.03
7	Total HT Impedance @ 35°C	ohm	11.8
8	Total HT Loss	kWh	799068.56
9	Total LT Loss	kWh	373702.62
10	Total Copper Loss of CRGO Transformers	kWh	808059.14
11	Total Iron Loss of CRGO Transformers	kWh	29388.40
12	Total Copper Loss of Amorphous Transformers	kWh	0
13	Total Iron Loss of Amorphous Transformers	kWh	0
14	Total Theoretical Loss	kWh	2010218.72
15	% Theoretical Loss	%	14.68
16	% Actual Loss	%	47.59

Remarks:

1. The theoretical loss is around 15%, while the actual loss is around 47.6%. This clearly indicates that there are some un-authorized connections in the feeder or un-authorized use of electrical energy in the system.
2. Still, the technical loss being around 15% is considered as quite higher. The peak current data may be misleading and is recommended to check the data.
3. The average current through the feeder is 154 A. However, depending upon the peak ampere, the suggestion of change in conductor or anything else can be given.

5.3.4 Theoretical Loss of GIDC Babra Feeder (Urban)

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		Amreli
2	Division		Amreli 1
3	Sub-Division		Babra Town
4	Feeder ID		62508
5	Feeder Name		11 kV GIDC Babra
6	Feeder Type		Urban
7	Connected Load	kVA	3934
8	Line Voltage	V	11300
9	Units Sent	MU	6.23232

10	Units Sold	MU	5.185238
11	LDF		1.5

HT cables and Conductors Length			
1	50 sq. mm ACSR length	ckt km	10.01
2	105 sq. mm ACSR length	ckt km	2
3	185 sq. mm XLPE cable length	ckt km	0.85
4	95 sq. mm ABC	ckt km	0.05

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	5
2	50	0
3	63	11
4	100	12
5	200	3
6	500	0
7	10	11
8	16	2
9	5	10
10	375	1

No. of 11 kV Amorphous Transformers		
	kVA	No
1	25	0
2	50	0
3	63	9
4	100	10
5	200	0
6	500	0
7	10	0
8	16	0
9	5	0
10	375	0

Operating Data			
1	Connected Load	kVA	5307
2	Peak Current	A	112
3	Voltage Regulation	%	7.03
4	Average Power Factor		0.94
5	Outage Hours	Hrs	95
6	Additional Outage Minutes	Min	25

6

Calculations			
1	Total Outage Minutes	Min	5725.00
2	Total supply hours per year	hours	8664.58
3	Peak Load	kVA	2192.02
4	Diversity Factor		2.42
5	Load Factor		0.358
6	Load Loss Factor		0.17
7	Total HT Impedance @ 35°C	ohm	7.85

8	Total HT Loss	kWh	218421.6
9	Total LT Loss	kWh	30725.14
10	Total Copper Loss of CRGO Transformers	kWh	57883.44
11	Total Iron Loss of CRGO Transformers	kWh	74402.78
12	Total Copper Loss of Amorphous Transformers	kWh	24498.12
13	Total Iron Loss of Amorphous Transformers	kWh	12277.71
14	Total Theoretical Loss	kWh	418209
15	% Theoretical Loss	%	6.71
16	% Actual Loss	%	16.80

Remarks:

1. The theoretical loss in the feeder is 6.7% and the actual loss in the feeder is 16.8%. This indicates that there are either un-metered connections or consumers that are un-authorizedly using the energy.

5.3.5 Theoretical Loss of Giriraj Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		RAJKOT RURAL CIRCLE
2	Division		RAJKOT RURAL DIVISION
3	Sub-Division		PADDHARI
4	Feeder ID		10735
5	Feeder Name		GIRIRAJ
6	Feeder Type		Industrial
7	Connected Load	kVA	5281
8	Line Voltage	V	11000
9	Units Sent	MU	16.74414
10	Units Sold	MU	15.915617
11	LDF		2

HT cables and Conductors Length			
1	50 sq. mm ACSR length	ckt km	5.6
2	105 sq. mm ACSR length	ckt km	5.3
3	185 sq. mm XLPE cable length	ckt km	0.09
4	70 sq. mm ABC	ckt km	0.2

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	2
2	50	0
3	63	2
4	100	0
5	200	0
6	500	0

7	10	0
8	16	0
9	5	4

Operating Data			
1	Connected Load	kVA	5281
2	Peak Current	A	259
3	Voltage Regulation	%	10.79
4	Average Power Factor		0.97
5	Outage Hours	hrs	44
6	Additional Outage Minutes	min	5

Calculations			
1	Total Outage Minutes	Min	2645.00
2	Total supply hours per year	hours	8715.92
3	Peak Load	kVA	4934.47
4	Diversity Factor		1.07
5	Load Factor		0.40
6	Load Loss Factor		0.21
7	Total HT Impedance @ 35°C	ohm	6.20
8	Total HT Loss	kWh	828773.10
9	Total LT Loss	kWh	3370.84
10	Total Copper Loss of CRGO Transformers	kWh	6177.90
11	Total Iron Loss of CRGO Transformers	kWh	5752.51
12	Total Copper Loss of Amorphous Transformers	kWh	0.00
13	Total Iron Loss of Amorphous Transformers	kWh	0.00
14	Total Theoretical Loss	kWh	844074.35
15	% Theoretical Loss	%	5.04
16	% Actual Loss	%	4.95

Remarks:

1. As per the available data, major load on the feeder is towards the tail end. Hence, it is recommended to carry-out bifurcation of feeder through another substation if possible. If feasible, the feeder can also be made as ring feeder.
2. The theoretical loss and the actual loss are almost nearby and are around 5%. Hence, the feeder performance can be considered as good.

5.3.6 Theoretical Loss of Green City Urban Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		PORBANDAR

2	Division		PORBANDAR RURAL
3	Sub-Division		RANAVAV
4	Feeder ID		360201
5	Feeder Name		GREEN CITY
6	Feeder Type		URBAN
7	Connected Load	kVA	3922
8	Line Voltage	V	11000
9	Units Sent	MU	9.90262
10	Units Sold	MU	8.239328
11	LDF		1.5

HT cables and Conductors Length			
1	34 sq. mm AAAC length	ckt km	0.58
2	50 sq. mm ACSR length	ckt km	10.64
3	105 sq. mm ACSR length	ckt km	0.02
4	95 sq. mm ABC	ckt km	0.19

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	6
2	50	0
3	63	11
4	100	16
5	200	0
6	500	0
7	10	6
8	16	3
9	5	6

No. of 11 kV Amorphous Transformers		
	kVA	No
1	25	0
2	50	0
3	63	7
4	100	9
5	200	0
6	500	0
7	10	0
8	16	0
9	5	0

Operating Data			
1	Connected Load	kVA	3922
2	Peak Current	A	147
3	Voltage Regulation	%	3.06
4	Average Power Factor		0.8
5	Outage Hours	hrs	10
6	Additional Outage Minutes	min	57

Calculations

1	Total Outage Minutes	Min	657.00
2	Total supply hours per year	hours	8749.05
3	Peak Load	kVA	2800.64
4	Diversity Factor		1.40
5	Load Factor		0.51
6	Load Loss Factor		0.31
7	Total HT Impedance @ 35°C	ohm	7.92
8	Total HT Loss	kWh	663833.27
9	Total LT Loss	kWh	155701.02
10	Total Copper Loss of CRGO Transformers	kWh	110120.10
11	Total Iron Loss of CRGO Transformers	kWh	64349.26
12	Total Copper Loss of Amorphous Transformers	kWh	44271.32
13	Total Iron Loss of Amorphous Transformers	kWh	10551.35
14	Total Theoretical Loss	kWh	1048826.32
15	% Theoretical Loss	%	10.59
16	% Actual Loss	%	16.80

Remarks:

1. The difference between the actual loss and theoretical loss of the feeder is quite lower. However, the theoretical loss is around 10.6%, which can be considered as on higher side. It is also observed that the peak ampere is 147 A, which is well within the limit of Rabbit conductor. Hence, there is no requirement of conductor upgradation. The power factor of this feeder is observed to be 0.8, which is a significant contributor in the losses. Hence, if feasible, attempts should be made to upgrade the power factor. This can reduce the losses by 0.17 MUs, which is equivalent to Rs. 7.28 Lakh. Also, it is recommended to carry out analysis for unbalance in load.

5.3.7 Theoretical Loss of Gundala Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		Bhuj
2	Division		Mandvi
3	Sub-Division		Mundra 1
4	Feeder ID		74503
5	Feeder Name		11 kV Gundala AG
6	Feeder Type		Agriculture
7	Connected Load	kVA	2779
8	Line Voltage	V	11000
9	Units Sent	MU	6.28

10	Units Sold	MU	5.33
11	LDF		2

HT cables and Conductors Length			
1	34 sq. mm AAAC length	ckt km	9.2
2	55 sq. mm AAAC length	ckt km	33.1
3	105 sq. mm ACSR length	ckt km	0
4	95 sq. mm ABC	ckt km	0

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	20
2	50	0
3	63	9
4	100	0
5	200	0
6	500	0
7	10	72
8	16	62
9	5	0

Operating Data			
1	Connected Load	kVA	4062
2	Peak Current	A	190
3	Voltage Regulation	%	4.95
4	Average Power Factor		1
5	Outage Hours	hrs	213
6	Additional Outage Minutes	min	5

Calculations			
1	Total Outage Minutes	Min	12785.00
2	Total supply hours per year	hours	8546.92
3	Peak Load	kVA	3619.88
4	Diversity Factor		1.12
5	Load Factor		0.20
6	Load Loss Factor		0.07
7	Total HT Impedance @ 35°C	ohm	34.64
8	Total HT Loss	kWh	876749.41
9	Total LT Loss	kWh	11806.95
10	Total Copper Loss of CRGO Transformers	kWh	23733.28
11	Total Iron Loss of CRGO Transformers	kWh	93075.92
12	Total Copper Loss of Amorphous Transformers	kWh	0.00
13	Total Iron Loss of Amorphous Transformers	kWh	0.00
14	Total Theoretical Loss	kWh	1005365.56
15	% Theoretical Loss	%	16.01
16	% Actual Loss	%	15.17

Remarks:

1. The difference between the actual loss and theoretical loss of the feeder is quite lower. However, the theoretical loss is around 16.1%, which can be considered as on higher side. It is also observed that the peak ampere is 190 A, which is near the limit of Rabbit conductor. Hence, there is no requirement of conductor upgradation. The power factor of the feeder unity. Since, it is agricultural feeder, most of the load occurs simultaneously. The length of feeder is also quite long. Hence, it is suggested that if feasible, feeder bifurcation can be carried out.

5.3.8 Theoretical Loss of Lion JGY Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		Junagadh
2	Division		Veraval
3	Sub-Division		Talala
4	Feeder ID		8294
5	Feeder Name		11 kV Lion JGY
6	Feeder Type		Jyotirgram
7	Connected Load	kVA	4062
8	Line Voltage	V	11000
9	Units Sent	MU	3.48
10	Units Sold	MU	2.56
11	LDF		2

HT cables and Conductors Length			
1	50 sq. mm ACSR length	ckt km	1
2	95 sq. mm ABC	ckt km	35.4
3	105 sq. mm ACSR length	ckt km	0
4	70 sq. mm ABC	ckt km	0

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	19
2	50	0
3	63	16
4	100	15
5	200	1
6	500	0
7	10	12
8	16	9
9	5	4

Operating Data			
1	Connected Load	kVA	4062
2	Peak Current	A	63
3	Voltage Regulation	%	4.25
4	Average Power Factor		0.96
5	Outage Hours	hrs	223
6	Additional Outage Minutes	min	10

Calculations			
1	Total Outage Minutes	Min	13390.00
2	Total supply hours per year	hours	8536.83
3	Peak Load	kVA	1200.28
4	Diversity Factor		3.38
5	Load Factor		0.35
6	Load Loss Factor		0.17
7	Total HT Impedance @ 35°C	ohm	12.69
8	Total HT Loss	kWh	82108.59
9	Total LT Loss	kWh	10756.82
10	Total Copper Loss of CRGO Transformers	kWh	73610.59
11	Total Iron Loss of CRGO Transformers	kWh	88655.01
12	Total Copper Loss of Amorphous Transformers	kWh	0.00
13	Total Iron Loss of Amorphous Transformers	kWh	0.00
14	Total Theoretical Loss	kWh	255131.02
15	% Theoretical Loss	%	7.32
16	% Actual Loss	%	26.43

Remarks:

The difference between Actual loss and Technical theoretical loss is around 19%. The type of feeder being Jyotigram, it supplies electrical energy to rural area. There is very high probability of un-authorized electrical connection being present along the feeder, even though the major LT circuit is of 6.5 km length and is of ABC conductors. However, this makes the length of feeder quite long.

5.3.9 Theoretical Loss of Mahavir GIDC Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		Jamnagar
2	Division		Jamnagar City 2
3	Sub-Division		Industrial GIDC
4	Feeder ID		174004

5	Feeder Name		Mahavir
6	Feeder Type		GIDC
7	Connected Load	kVA	9516.00
8	Line Voltage	V	11000.00
9	Units Sent	MU	10.59
10	Units Sold	MU	9.95
11	LDF		2

HT cables and Conductors Length			
1	105 sq. mm ACSR length	ckt km	2.31
2	185 sq. mm XLPE cable length	ckt km	0.7
3	95 sq. mm ABC	ckt km	0.2
4	70 sq. mm ABC	ckt km	0

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	3
2	50	0
3	63	19
4	100	32
5	200	0
6	500	0
7	10	0
8	16	0
9	5	0

No. of 11 kV Amorphous Transformers		
	kVA	No
1	25	1
2	50	0
3	63	13
4	100	18
5	200	0
6	500	0
7	10	0
8	16	0
9	5	0

Operating Data			
1	Connected Load	kVA	9516
2	Peak Current	A	257
3	Voltage Regulation	%	2.46
4	Average Power Factor		0.97
5	Outage Hours	hrs	84
6	Additional Outage Minutes	min	25

Calculations			
1	Total Outage Minutes	Min	5065.00
2	Total supply hours per year	hours	8675.58
3	Peak Load	kVA	4896.36
4	Diversity Factor		1.94
5	Load Factor		0.26

6	Load Loss Factor		0.10
7	Total HT Impedance @ 35°C	ohm	1.22
8	Total HT Loss	kWh	79902.23
9	Total LT Loss	kWh	53106.21
10	Total Copper Loss of CRGO Transformers	kWh	46865.12
11	Total Iron Loss of CRGO Transformers	kWh	104454.02
12	Total Copper Loss of Amorphous Transformers	kWh	22440.74
13	Total Iron Loss of Amorphous Transformers	kWh	20725.97
14	Total Theoretical Loss	kWh	327494.29
15	% Theoretical Loss	%	3.09
16	% Actual Loss	%	5.96

Remarks:

The difference between Actual loss and Technical theoretical loss is around 3%, which is very low. This difference is due to the assumptions made during calculation of theoretical loss. Also, the total loss is 5.96%, which is very low. Hence, the performance of this feeder can be considered as good.

5.3.10 Theoretical Loss of Maxworld Industrial Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		Morbi
2	Division		Morbi
3	Sub-Division		Morbi Rural
4	Feeder ID		153307
5	Feeder Name		Maxworld
6	Feeder Type		Industrial
7	Connected Load	kVA	4811
8	Line Voltage	V	11000
9	Units Sent	MU	21.77
10	Units Sold	MU	16.05
11	LDF		2

HT cables and Conductors Length			
1	105 sq. mm ACSR length	ckt km	2.74
2	185 sq. mm XLPE cable length	ckt km	0
3	95 sq. mm ABC	ckt km	0
4	70 sq. mm ABC	ckt km	0

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	0
2	50	0
3	63	7
4	100	4
5	200	1

6	500	0
7	10	0
8	16	0
9	5	0

Operating Data			
1	Connected Load	kVA	4811
2	Peak Current	A	224
3	Voltage Regulation	%	2.41
4	Average Power Factor		0.9
5	Outage Hours	hrs	63
6	Additional Outage Minutes	min	15

Calculations			
1	Total Outage Minutes	Min	3795.00
2	Total supply hours per year	hours	8696.75
3	Peak Load	kVA	4267.65
4	Diversity Factor		1.13
5	Load Factor		0.65
6	Load Loss Factor		0.47
7	Total HT Impedance @ 35°C	ohm	1.20
8	Total HT Loss	kWh	268930.27
9	Total LT Loss	kWh	91319.84
10	Total Copper Loss of CRGO Transformers	kWh	67168.11
11	Total Iron Loss of CRGO Transformers	kWh	24176.97
12	Total Copper Loss of Amorphous Transformers	kWh	0.00
13	Total Iron Loss of Amorphous Transformers	kWh	0.00
14	Total Theoretical Loss	kWh	451595.18
15	% Theoretical Loss	%	2.07
16	% Actual Loss	%	26.29

Remarks:

The difference in theoretical and actual loss is quite high. The feeder length is very small. Hence, it is clear that there are un-authorized connection in this feeder.

5.3.11 Theoretical Loss of Nishkalank JGY Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		BHAVNAGAR
2	Division		City 2
3	Sub-Division		Ghogha
4	Feeder ID		118604

5	Feeder Name		Niskalank JGY
6	Feeder Type		Jyotigram Rural
7	Connected Load	kVA	4445
8	Line Voltage	V	11000
9	Units Sent	MU	5.46762
10	Units Sold	MU	3.29
11	LDF		2

HT cables and Conductors Length			
1	50 sq. mm ACSR length	ckt km	52.07
2	185 sq. mm XLPE cable length	ckt km	0.05
3	95 sq. mm ABC	ckt km	0
4	70 sq. mm ABC	ckt km	1.276

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	17
2	50	0
3	63	9
4	100	18
5	200	0
6	500	0
7	10	20
8	16	9
9	5	77

Operating Data			
1	Connected Load	kVA	4445
2	Peak Current	A	65
3	Voltage Regulation	%	5.56
4	Average Power Factor		0.95
5	Outage Hours	hrs	1
6	Additional Outage Minutes	min	0

Calculations			
1	Total Outage Minutes	Min	60
2	Total supply hours per year	hours	8759
3	Peak Load	kVA	1238.38
4	Diversity Factor		3.58936675
5	Load Factor		0.5305988
6	Load Loss Factor		0.331347828
7	Total HT Impedance @ 35°C	ohm	35.93455861
8	Total HT Loss	kWh	479328.8942
9	Total LT Loss	kWh	19578.19873
10	Total Copper Loss of CRGO Transformers	kWh	181359.4555
11	Total Iron Loss of CRGO Transformers	kWh	99940.19
12	Total Copper Loss of Amorphous Transformers	kWh	0
13	Total Iron Loss of Amorphous Transformers	kWh	0
14	Total Theoretical Loss	kWh	780206.7385
15	% Theoretical Loss	%	14.27
16	% Actual Loss	%	39.81

Remarks:

The difference in theoretical and actual loss is quite high. The feeder is Jyotigram feeder, hence, majority of the load is rural load.

Also, the theoretical loss being 14.27% is quite high, this being due to the fact that the length of the feeder is more than 50 km. Hence, it is suggested to look after feeder bifurcation of creating provision for ring main system.

Also, being the rural feeder, it is recommended to carry out study for load balancing and to balance any unbalanced load if feasible.

The total loss is 39.81%. Hence, it is clear that there are un-authorized connection in this feeder.

5.3.12 Theoretical Loss of Vadod JGY Feeder

The theoretical loss calculation is as follows:

Basic Details of Feeder			
1	Circle		Surendranagar
2	Division		Limbdi
3	Sub-Division		Limbdi Rural
4	Feeder ID		98802
5	Feeder Name		11 kV Vadod JGY
6	Feeder Type		Jyotigram
7	Connected Load	kVA	4346
8	Line Voltage	V	11000
9	Units Sent	MU	14.38
10	Units Sold	MU	4.14
11	LDF		2

HT cables and Conductors Length			
1	50 sq. mm ACSR length	ckt km	46.82
2	185 sq. mm XLPE cable length	ckt km	0.4
3	95 sq. mm ABC	ckt km	0.9
4	70 sq. mm ABC	ckt km	0.6

No. of 11 kV CRGO Transformers		
	kVA	No
1	25	7
2	50	0
3	63	6
4	100	6
5	200	0

6	500	0
7	10	1
8	16	8
9	5	8

No. of 11 kV Amorphous Transformers		
	kVA	No
1	25	10
2	50	0
3	63	15
4	100	10
5	200	4
6	500	0
7	10	0
8	16	0
9	5	4

Operating Data			
1	Connected Load	kVA	4346
2	Peak Current	A	159
3	Voltage Regulation	%	8.93
4	Average Power Factor		0.93
5	Outage Hours	hrs	154
6	Additional Outage Minutes	min	30

Calculations			
1	Total Outage Minutes	Min	9270.00
2	Total supply hours per year	hours	8605.50
3	Peak Load	kVA	3029.27
4	Diversity Factor		1.43
5	Load Factor		0.59
6	Load Loss Factor		0.40
7	Total HT Impedance @ 35°C	ohm	32.35
8	Total HT Loss	kWh	3117088.14
9	Total LT Loss	kWh	188747.75
10	Total Copper Loss of CRGO Transformers	kWh	83259.97
11	Total Iron Loss of CRGO Transformers	kWh	35325.58
12	Total Copper Loss of Amorphous Transformers	kWh	132011.39
13	Total Iron Loss of Amorphous Transformers	kWh	23363.93
14	Total Theoretical Loss	kWh	3579796.76
15	% Theoretical Loss	%	24.90
16	% Actual Loss	%	71.20

Remarks:

The difference in theoretical and actual loss is quite high. The feeder is Jyotigram feeder, hence, majority of the load is rural load.

Also, the theoretical loss being 24.9% is quite high, this being due to the fact that the length of the feeder is more than 45 km. Hence, it is suggested to look after feeder bifurcation or creating provision for ring main system. The peak current being 159 A is on the boundary condition for Rabbit conductor. Hence, it is suggested to upgrade the conductor from Rabbit to Dog.

Also, being the rural feeder, it is recommended to carry out study for load balancing and to balance any unbalanced load if feasible.

The total loss is 71.2%. Hence, it is clear that there are un-authorized connection in this feeder.

6. ENERGY LOSS OCCURRING ACROSS PGVCL NETWORK

Energy Distributed to various customers.

Energy is distributed to various customers through 12 Circles, 45 Divisions, 243 sub-divisions and 8569 feeders through 1005097 distribution transformers.

The energy sold by various sub divisions in various categories is as follows:

6.1 Urban Feeders:

		DIST LOSSES OF URBAN CATEGORY				
	SDN /DIVISION/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Prahlad Plot	11	51.09	44.90	6.19	12.11
SDN	Sorathiya Wadi	17	78.99	73.89	5.10	6.46
SDN	Aji-1	10	69.86	58.45	11.41	16.34
SDN	Aji Industrial	13	79.94	73.63	6.31	7.89
SDN	Milpara	9	55.48	51.34	4.14	7.47
SDN	Aji-2	11	99.27	87.29	11.98	12.06
SDN	Kothariya	9	74.49	55.16	19.33	25.95
DN	Rajkot City-1	80	509.13	444.67	64.46	12.66
SDN	Pradhuman Nagar	11	75.09	68.37	6.72	8.95
SDN	Udyognagar	11	89.00	83.36	5.64	6.34
SDN	Mahila College	11	81.77	77.81	3.96	4.85
SDN	Laxminagar	15	113.43	107.04	6.38	5.63
SDN	Bedinaka	8	81.76	69.53	12.23	14.95
DN	Rajkot City-2	56	441.05	406.12	34.94	7.92
SDN	Vavadi	31	279.50	250.29	29.21	10.45
SDN	Kalawad Rd.	12	84.89	79.90	4.99	5.88
SDN	Mavadi	8	76.66	70.11	6.55	8.55
SDN	Madhapar	10	122.61	103.65	18.96	15.47
SDN	Nana Mava	12	84.16	79.84	4.32	5.14
SDN	Raiya Road	8	76.24	69.54	6.70	8.78
DN	Rajkot City-3	81	724.06	653.33	70.73	9.77
CIRCLE	Rajkot City	217	1674.2	1504.1	170.13	10.16
SDN	Gondal Town	13.00	87.09	69.32	17.77	20.41
SDN	Gondal Rural	1.00	39.71	36.40	3.31	8.33
SDN	Gondal Rural-2	4.00	5.57	5.25	0.32	5.70
SDN	Vasavad	0.00	0.00	0.00	0.00	0.00

		DIST LOSSES OF URBAN CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Kotda	0.00	0.00	0.00	0.00	0.00
DN	Gondal	18.00	132.37	110.97	21.40	16.17
SDN	Dhoraji Town	11.00	57.82	52.15	5.68	9.82
SDN	Dhoraji Rural	0.00	1.21	1.21	0.01	0.71
SDN	Upleta Town	5.00	56.35	51.48	4.87	8.64
SDN	Upleta Rural	0.00	3.21	2.56	0.65	20.22
SDN	Bhayavadar	1.00	6.44	5.90	0.54	8.38
DN	Dhoraji	17.00	125.03	113.29	11.74	9.39
SDN	Paddhari	2.00	21.46	19.03	2.43	11.33
SDN	Shapar	0.00	0.00	0.00	0.00	0.00
SDN	Lodhika	0.00	0.00	0.00	0.00	0.00
SDN	Metoda	0.00	0.00	0.00	0.00	0.00
SDN	Kuvadava	2.00	19.22	18.33	0.90	4.66
SDN	Ronki	4.00	18.39	15.67	2.72	14.80
SDN	Pardi	0.00	0.00	0.00	0.00	0.00
DN	Rajkot Rural	8.00	59.07	53.02	6.05	10.24
SDN	Vichhiya	0.00	0.00	0.00	0.00	0.00
SDN	Jasdan	8.00	34.38	26.44	7.94	23.08
SDN	Sardhar	0.00	0.00	0.00	0.00	0.00
SDN	Atkot	0.00	0.00	0.00	0.00	0.00
SDN	Tramba	1.00	2.34	2.33	0.01	0.51
DN	Jasdan	9.00	36.72	28.77	7.95	21.64
SDN	Jamkandorna	0.00	0.00	0.00	0.00	0.00
SDN	Jetpur Town	19.00	136.15	124.95	11.20	8.22
SDN	Jetpur Rural	0.00	3.06	2.93	0.12	4.07
SDN	Mandlikpur	6.00	53.75	48.38	5.36	9.97
SDN	Jamkandorna 2	0.00	0.00	0.00	0.00	0.00
DN	Jetpur	25.00	192.95	176.27	16.68	8.65
CIRCLE	Rajkot Rural	77.00	546.15	482.32	63.82	11.69
SDN	Morbi Town-1	11.00	106.28	96.42	9.86	9.28
SDN	Nazarbaug	14.00	96.19	82.45	13.74	14.28
SDN	Morbi Rural		0.00	0.00	0.00	0.00
SDN	Lalpar	3.00	42.78	39.91	2.86	6.70
SDN	Tankara	2.00	14.90	13.07	1.83	12.31
SDN	Shanala	4.00	43.13	39.08	4.05	9.39
SDN	Mota Dhahisara		0.00	0.00	0.00	0.00
SDN	Jetpar		0.00	0.00	0.00	0.00
DN	Morbi	34.00	303.28	270.93	32.34	10.67
SDN	Sara		0.00	0.00	0.00	0.00
SDN	Halvad Town	7.00	40.43	34.40	6.03	14.92
SDN	Halvad Rural		0.00	0.00	0.00	0.00
SDN	Charadava		0.00	0.00	0.00	0.00
DN	Halvad	7.00	40.43	34.40	6.03	14.92
SDN	Wankaner Town	6.00	45.74	38.15	7.59	16.60
SDN	Wankaner Rural-1	2.00	11.42	9.61	1.81	15.81
SDN	Wankaner Rural-2		0.00	0.00	0.00	0.00
DN	Wankaner	8.00	57.16	47.76	9.40	16.44
CIRCLE	Morbi	49.00	400.87	353.09	47.78	11.92
SDN	Udhyognagar	13.00	95.43	90.56	4.87	5.11
SDN	Kirtimandir	6.00	44.42	41.42	3.00	6.74
SDN	Kamlabaug	8.00	36.61	34.11	2.49	6.81
SDN	Coastal		0.74	0.71	0.03	4.06

		DIST LOSSES OF URBAN CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Porbandar City	27.00	177.20	166.81	10.39	5.87
SDN	Kutiya	2.00	9.29	8.33	0.96	10.33
SDN	Bantwa				0.00	
SDN	Bagvadar				0.00	
SDN	Ranavav	5.00	20.89	17.92	2.96	14.18
SDN	Rana-Kandorna	1.00	3.64	3.25	0.38	10.53
DN	Porbandar Rural	8.00	33.82	29.51	4.31	12.73
SDN	Keshod Town	9.00	43.70	41.51	2.18	5.00
SDN	Keshod Rural-1		0.00	0.00	0.00	-94.25
SDN	Keshod Rural-2	1.00	0.62	0.58	0.03	5.07
SDN	Maliya Hatina				0.00	
DN	Keshod	10.00	44.31	42.10	2.22	5.00
SDN	Chorwad				0.00	
SDN	Mangrol Town	5.00	45.67	42.15	3.52	7.70
SDN	Mangrol Rural		0.13	0.12	0.01	8.38
SDN	Madhavpur				0.00	
DN	Mangrol	5.00	45.80	42.27	3.53	7.70
CIRCLE	Porbandar	50.00	301.13	280.69	20.44	6.79
SDN	Central Zone	14.00	64.88	54.19	10.69	16.48
SDN	Patel Colony	14.00	107.30	60.20	47.09	43.89
SDN	Darbargadh	7.00	66.82	34.91	31.91	47.76
SDN	Satrasa	15.00	75.61	59.82	15.79	20.89
SDN	Hapa	0.00	0.00	0.00	0.00	0.00
DN	Jamnagar City-1	50.00	314.60	209.11	105.49	33.53
SDN	Khambhalia Gate	9.00	77.15	45.20	31.95	41.41
SDN	Industrial - Gidc	5.00	18.52	15.84	2.67	14.44
SDN	Jamnagar Rural	0.00	1.81	1.14	0.67	37.17
SDN	Sikka	2.00	15.42	6.73	8.69	56.34
SDN	Shapar	0.00	0.00	0.00	0.00	0.00
SDN	Nagarseem	0.00	0.01	0.00	0.01	70.35
DN	Jamnagar City-2	16.00	112.91	68.92	43.99	38.96
SDN	Jodiya	1.00	6.22	3.07	3.15	50.61
SDN	Dhrol Rural	0.00	0.00	0.00	0.00	0.00
SDN	Kalawad (West)	0.00	0.12	0.11	0.01	10.08
SDN	Kalawad (East)	2.00	13.49	11.49	2.00	14.84
SDN	Dhrol Town	3.00	16.64	14.21	2.43	14.61
SDN	Nikawa	0.00	0.00	0.00	0.00	0.00
SDN	Amran	0.00	0.00	0.00	0.00	0.00
DN	Jamnagar Rural	6.00	36.47	28.88	7.59	20.82
SDN	Khambhalia(R)	0.00	0.00	0.00	0.00	11.54
SDN	Khambhalia(T)	5.00	47.61	38.60	9.02	18.94
SDN	Vadatra	0.00	0.00	0.00	0.00	0.00
SDN	Bhanvad	2.00	10.74	8.59	2.14	19.98
DN	Khambhaliya	7.00	58.35	47.19	11.16	19.13
SDN	Jamjodhpur (East)	0.00	0.00	0.00	0.00	0.00
SDN	Jamjodhpur (West)	3.00	14.73	13.02	1.70	11.57
SDN	Lalpur	1.00	6.95	5.91	1.04	14.95
SDN	Verad	0.00	0.00	0.00	0.00	0.00
SDN	Shamana	0.00	0.00	0.00	0.00	0.00
DN	Jamjodhpur	4.00	21.67	18.93	2.74	12.65
SDN	Bhatia	1.00	11.74	9.31	2.43	20.70
SDN	Dwarka	4.00	23.78	22.57	1.21	5.10

		DIST LOSSES OF URBAN CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Okha	1.00	8.48	7.80	0.68	8.05
SDN	Kalyanpur	0.00	0.00	0.00	0.00	0.00
DN	Dwarka	6.00	44.00	39.67	4.33	9.83
CIRCLE	Jamnagar	89.00	588.00	412.70	175.30	29.81
SDN	Central	9.00	48.15	42.17	5.97	12.41
SDN	GIDC	8.00	53.49	48.22	5.27	9.86
SDN	Gandhigram	9.00	64.87	48.12	16.74	25.81
SDN	Satellite	8.00	60.83	57.25	3.58	5.89
DN	Junagadh City	34.00	227.34	195.77	31.57	13.89
SDN	Visavadar-1	1.00	4.01	3.65	0.36	9.08
SDN	Visavadar-2	0.00	0.00	0.00	0.00	0.00
SDN	Bhesan	0.00	0.00	0.00	0.00	0.00
SDN	Bilkha	0.00	0.00	0.00	0.00	0.00
SDN	Junagadh Rural	0.00	0.23	0.07	0.17	70.57
DN	Junagadh-1	1.00	4.24	3.72	0.53	12.47
SDN	Shapur	0.00	0.00	0.00	0.00	-39.44
SDN	Manavadar-1	7.00	23.76	21.36	2.40	10.11
SDN	Manavadar-2	0.00	0.97	0.85	0.12	12.24
SDN	Mendarda	0.00	0.00	0.00	0.00	0.00
SDN	Vanthali	1.00	6.23	5.04	1.18	18.99
DN	Junagadh-2	8.00	30.95	27.25	3.70	11.96
SDN	Veraval-Gidc	14.00	68.70	58.42	10.28	14.96
SDN	Veraval Town	11.00	58.55	44.83	13.72	23.43
SDN	Prabhas Patan	0.00	1.16	0.85	0.31	26.59
SDN	Talala	0.00	0.00	0.00	0.00	0.00
SDN	Pranchi	0.00	0.00	0.00	0.00	0.00
SDN	Ankolwadi	0.00	0.00	0.00	0.00	0.00
SDN	Sutrapada	0.00	0.00	0.00	0.00	0.00
DN	Veraval	25.00	128.41	104.10	24.31	18.93
CIRCLE	Junagadh	68.00	390.95	330.84	60.11	15.38
SDN	Bhuj City-1	15.00	73.22	70.17	3.06	4.17
SDN	Bhuj City-2	9.00	60.37	51.73	8.63	14.30
SDN	Bhuj Rural	0.00	0.00	0.00	0.00	0.00
SDN	Madhapar	2.00	23.94	23.32	0.62	2.57
SDN	Deshalpar	0.00	0.00	0.00	0.00	0.00
SDN	Khavda	0.00	0.00	0.00	0.00	0.00
SDN	Kukma	0.00	0.00	0.00	0.00	0.00
DN	Bhuj	26.00	158.71	146.08	12.63	7.96
SDN	Mandvi Town	4.00	19.38	17.52	1.86	9.62
SDN	Mandvi Rural	0.00	0.00	0.00	0.00	0.00
SDN	Dahisara	0.00	0.00	0.00	0.00	0.00
SDN	Mundra-1	2.00	29.68	27.60	2.09	7.04
SDN	Mundra-2	0.00	0.00	0.00	0.00	0.00
SDN	Gadhasisa	0.00	0.00	0.00	0.00	0.00
DN	Mandvi	6.00	49.06	45.11	3.95	8.06
SDN	Nakhatrana	0.00	0.00	0.00	0.00	0.00
SDN	Ravapar	0.00	0.00	0.00	0.00	0.00
SDN	Dayapar	0.00	0.00	0.00	0.00	0.00
SDN	Kothara	0.00	0.00	0.00	0.00	0.00
SDN	Naliya	0.00	0.00	0.00	0.00	0.00
DN	Nakhatrana	0.00	0.00	0.00	0.00	0.00
CIRCLE	Bhuj	32.00	207.77	191.19	16.58	7.98

		DIST LOSSES OF URBAN CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Anjar Town	8.00	57.88	49.60	8.28	14.31
SDN	Anjar R-1	0.00	0.00	0.00	0.00	0.00
SDN	Anjar R-2	0.00	0.00	0.00	0.00	0.00
DN	Anjar	8.00	58.30	49.68	8.62	14.79
SDN	Adipur	3.00	33.20	27.20	6.01	18.09
SDN	Gandhidham	20.00	147.93	127.38	20.55	13.89
SDN	Kandla	0.00	0.00	0.00	0.00	0.00
SDN	Rambaug	3.00	27.57	23.59	3.98	14.44
DN	Gandhidham	26.00	213.19	181.72	31.47	14.76
SDN	Bachau	5.00	28.85	24.65	4.20	14.56
SDN	Rapar	2.00	13.48	11.60	1.88	13.95
SDN	Bhimasar	0.00	0.00	0.00	0.00	0.00
SDN	Samkhiyali	0.00	0.00	0.00	0.00	0.00
DN	Bhachau	7.00	42.33	36.25	6.08	14.36
CIRCLE	Anjar	41.00	313.83	267.65	46.17	14.71
SDN	Power House	8.00	58.26	53.85	4.40	7.56
SDN	Khargate	8.00	50.99	46.23	4.76	9.34
SDN	Diamond	9.00	56.26	49.86	6.40	11.38
SDN	Kalanala	13.00	83.72	78.78	4.94	5.90
SDN	Kumbharwada	8.00	51.09	46.85	4.24	8.29
DN	Bhavnagar City-1	46.00	300.32	275.58	24.74	8.24
SDN	Vartej	1.00	7.92	6.78	1.14	14.34
SDN	Vallabhipur	1.00	5.85	5.03	0.82	14.07
SDN	Shihor Rural	0.00	0.00	0.00	0.00	0.00
SDN	Shihor Town	7.00	40.13	35.59	4.55	11.33
SDN	Sanosara	0.00	0.00	0.00	0.00	0.00
DN	Bhavnagar Rural	9.00	53.91	47.40	6.51	12.07
SDN	Mahuva T	7.00	69.18	60.86	8.32	12.03
SDN	Mahuva R1	3.00	45.55	39.77	5.78	12.68
SDN	Mahuva R2	1.00	13.18	11.66	1.52	11.54
SDN	Jesar	0.00	0.00	0.00	0.00	0.00
SDN	Bagdana	0.00	0.00	0.00	0.00	0.00
DN	Mahuva	11.00	127.92	112.30	15.62	12.21
SDN	Palitana Town	7.00	36.76	31.30	5.46	14.86
SDN	Talaja	1.00	3.06	2.68	0.38	12.52
SDN	Gariyadhar-1	4.00	17.20	14.34	2.86	16.61
SDN	Palitana Rural	0.00	0.45	0.33	0.12	27.10
SDN	Trapaj	2.00	8.66	6.94	1.72	19.85
SDN	Ghodidhal	0.00	0.15	0.12	0.03	21.70
SDN	Gariyadhar-2	0.00	0.05	0.04	0.01	25.68
SDN	Talaja 2	5.00	24.29	20.50	3.79	15.59
DN	Palitana	19.00	90.62	76.24	14.38	15.87
SDN	Hill Drive	8.00	60.79	55.87	4.92	8.10
SDN	Kaliyabid	7.00	53.55	50.80	2.75	5.13
SDN	Chitra	9.00	46.12	39.83	6.29	13.64
SDN	Mamsa	0.00	0.00	0.00	0.00	0.00
SDN	Ghogha	1.00	2.20	2.41	-0.20	-9.20
DN	Bhavnagar City-2	25.00	162.67	148.91	13.76	8.46
CIRCLE	Bhavnagar	110.00	735.42	660.42	75.01	10.20
SDN	Botad Town-1	7.00	52.72	44.24	8.48	16.09
SDN	Botad Town-2	4.00	29.43	25.81	3.62	12.30
SDN	Botad Rural	0.00	0.00	0.00	0.00	0.00

		DIST LOSSES OF URBAN CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Barwala	1.00	8.51	5.96	2.55	29.95
SDN	Paliyad	0.00	0.00	0.00	0.00	0.00
SDN	Ranpur	2.00	14.02	11.56	2.46	17.54
DN	Botad	14.00	104.69	87.57	17.11	16.35
SDN	Gadhada	0.00	0.00	0.00	0.00	0.00
SDN	Gadhada R2	2.00	15.55	11.36	4.19	26.95
SDN	Dhasa	0.00	0.00	0.00	0.00	0.00
SDN	Dhola	0.00	0.00	0.00	0.00	0.00
DN	Gadhada	2.00	15.55	11.36	4.19	26.95
CIRCLE	Botad	16.00	120.23	98.93	21.30	17.72
SDN	Amreli Town	11.00	105.77	93.67	12.10	11.44
SDN	Amreli Rural	0.00	0.00	0.00	0.00	0.00
SDN	Lathi	1.00	8.02	7.07	0.96	11.92
SDN	Chital	1.00	4.88	4.18	0.71	14.46
SDN	Liliya	1.00	5.31	5.07	0.23	4.38
SDN	Babra Town	4.00	24.43	21.31	3.12	12.77
SDN	Damnagar	2.00	11.01	9.70	1.32	11.96
SDN	Babra Rural	0.00	0.00	0.00	0.00	0.00
DN	Amreli-1	20.00	159.42	140.99	18.43	11.56
SDN	Dhari 1	2.00	13.66	11.97	1.69	12.37
SDN	Bagasara	2.00	14.90	12.66	2.24	15.03
SDN	Kukavav	1.00	4.25	3.77	0.48	11.37
SDN	Vadia	1.00	3.39	3.12	0.27	7.84
SDN	Chalala	2.00	6.80	5.80	0.99	14.62
SDN	Dhari 2	0.00	0.00	0.00	0.00	0.00
DN	Amreli-2	8.00	43.01	37.33	5.67	13.19
SDN	Savarkundla Town	8.00	43.55	38.63	4.91	11.29
SDN	Savarkundla Rural	0.00	0.00	0.00	0.00	0.00
SDN	Rajula Town	3.00	28.21	22.90	5.31	18.81
SDN	Jafrabad	2.00	16.45	14.35	2.10	12.78
SDN	Khambha	0.0	0.0	0.0	0.0	0.0
SDN	Vijapadi	0.0	0.0	0.0	0.0	0.0
SDN	Rajula Rural	0.0	0.0	0.0	0.0	0.0
DN	Savarkundla	13.0	88.2	75.9	12.3	14.0
SDN	Una 1	0.0	0.0	0.0	0.0	0.0
SDN	Una 2	0.0	4.2	3.3	0.9	22.3
SDN	Kodinar 1	3.0	33.2	18.3	14.8	44.7
SDN	Una Town	5.0	37.9	30.6	7.2	19.1
SDN	Kodinar 2	0.0	0.4	0.2	0.3	63.2
SDN	Dhokadva	0.0	0.0	0.0	0.0	0.0
SDN	Girgadhda	0.0	0.0	0.0	0.0	0.0
DN	Una	8.0	75.7	52.4	23.3	30.7
CIRCLE	Amreli	49.0	366.29	306.61	59.68	16.29
SDN	Surendranagar City-1	8.00	60.26	51.84	8.42	13.97
SDN	S'Nagar City-2	8.00	98.71	86.76	11.94	12.10
SDN	Joravnagar	3.00	37.47	33.03	4.44	11.85
SDN	Wadhwan	2.00	23.10	17.34	5.75	24.91
SDN	Muli	1.00	10.98	6.63	4.36	39.66
SDN	Chotila	3.00	43.28	35.71	7.56	17.47
SDN	Than	8.00	70.71	54.67	16.03	22.68
SDN	S'Nagar-Rural	0.00	1.14	0.99	0.15	13.31
SDN	Lakhtar	1.00	7.10	5.65	1.45	20.45

		DIST LOSSES OF URBAN CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Surendranagar	34.00	352.75	292.63	60.11	17.04
SDN	Limbdi-Town	3.00	54.16	44.47	9.70	17.91
SDN	Limbdi-Rural	1.00	2.43	1.97	0.46	19.11
SDN	Chuda	1.00	6.59	5.38	1.21	18.40
SDN	Sayla	3.00	20.59	14.65	5.94	28.85
DN	Limbdi	8.00	83.78	66.46	17.32	20.67
SDN	Dhrangadhra Rural	0.00	0.66	0.51	0.15	22.25
SDN	Dhrangadhra Town	6.00	59.07	41.69	17.38	29.43
SDN	Rajsitapur	0.00	0.00	0.00	0.00	0.00
SDN	Patdi	1.00	10.38	8.75	1.63	15.74
SDN	Dasada	0.00	0.00	0.00	0.00	15.27
SDN	Bavli	0.00	0.30	0.24	0.06	20.24
DN	Dhrangadhra	7.00	70.42	51.19	19.23	27.30
CIRCLE	Surendranagar	49.00	506.94	410.29	96.65	19.07
CIRCLE	PGVCL	847	6151.82	5298.84	852.98	13.87

6.2 Industrial Feeders:

		DIST LOSSES OF IND CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Aji Industrial	13	76.43	74.09	2.33	3.05
DN	Rajkot City-1	13	76.43	74.09	2.33	3.05
SDN	Vavadi	1.00	9.10	8.72	0.38	4.18
DN	Rajkot City-3	1	9.10	8.72	0.38	4.18
CIRCLE	Rajkot City	14	85.52	82.81	2.71	3.17
SDN	Gondal Town	0.00	0.00	0.00	0.00	0.00
SDN	Gondal Rural	0.00	226.48	214.94	11.54	5.09
SDN	Gondal Rural-2	18.00	0.00	0.00	0.00	0.00
SDN	Vasavad	0.00	0.00	0.00	0.00	0.00
SDN	Kotda	2.00	38.13	34.97	3.17	8.30
DN	Gondal	20.00	264.61	249.91	14.70	5.56
SDN	Dhoraji Town	3.00	31.73	30.63	1.10	3.47
SDN	Dhoraji Rural	0.00	0.35	0.33	0.02	4.67
SDN	Upleta Town	0.00	0.00	0.00	0.00	0.00
SDN	Upleta Rural	0.00	0.00	0.00	0.00	0.00
SDN	Bhayavadar	0.00	0.00	0.00	0.00	0.00
DN	Dhoraji	3.00	32.08	30.96	1.12	3.49
SDN	Paddhari	6.00	92.49	88.21	4.28	4.63
SDN	Shapar	50.00	448.80	424.91	23.89	5.32
SDN	Lodhika	0.00	0.02	0.02	0.00	5.98
SDN	Metoda	2.00	19.91	19.00	0.91	4.57
SDN	Kuvadava	9.00	98.33	93.38	4.96	5.04
SDN	Ronki	0.00	0.00	0.00	0.00	-30.89
SDN	Pardi	9.00	90.29	85.90	4.40	4.87
DN	Rajkot Rural	76.00	749.85	711.42	38.43	5.13

DIST LOSSES OF IND CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Vichhiya	0.00	0.00	0.00	0.00	0.00
SDN	Jasdan	0.00	0.00	0.00	0.00	0.00
SDN	Sardhar	0.00	0.00	0.00	0.00	0.00
SDN	Atkot	0.00	0.00	0.00	0.00	0.00
SDN	Tramba	1.00	22.07	22.32	-0.25	-1.16
DN	Jasdan	1.00	22.07	22.32	-0.25	-1.16
SDN	Jamkandorna	1.00	7.18	6.93	0.25	3.48
SDN	Jetpur Town	0.00	0.00	0.00	0.00	0.00
SDN	Jetpur Rural	0.00	0.00	0.00	0.00	0.00
SDN	Mandlikpur	0.00	0.00	0.00	0.00	0.00
SDN	Jamkandorna 2	0.00	0.00	0.00	0.00	0.00
DN	Jetpur	1.00	7.18	6.93	0.25	3.48
CIRCLE	Rajkot Rural	101.00	1075.79	1021.55	54.25	5.04
SDN	Morbi Town-1		0.00	0.00	0.00	0.00
SDN	Nazarbaug	1.00	6.95	6.76	0.20	2.80
SDN	Morbi Rural	46.00	563.98	537.63	26.35	4.67
SDN	Lalpar	75.00	991.91	961.01	30.90	3.11
SDN	Tankara	14.00	129.18	124.87	4.31	3.34
SDN	Shanala	11.00	168.62	164.57	4.05	2.40
SDN	Mota Dhahisara	1.00	7.65	7.48	0.16	2.16
SDN	Jetpar	52.00	951.56	915.67	35.89	3.77
DN	Morbi	200.00	2819.85	2718.00	101.85	3.61
SDN	Sara		0.00	0.00	0.00	0.00
SDN	Halvad Town	3.00	31.50	31.39	0.11	0.36
SDN	Halvad Rural	1.00	22.62	21.88	0.74	3.29
SDN	Charadava	4.00	34.80	33.23	1.56	4.50
DN	Halvad	8.00	88.92	86.50	2.42	2.72
SDN	Wankaner Town	79.00	989.43	961.16	28.27	2.86
SDN	Wankaner Rural-1	10.00	95.42	91.88	3.54	3.71
SDN	Wankaner Rural-2	20.00	290.20	280.44	9.76	3.36
DN	Wankaner	109.00	1375.05	1333.48	41.57	3.02
CIRCLE	Morbi	317.00	4283.83	4137.98	145.84	3.40
SDN	Hapa	2.00	16.80	16.43	0.37	2.21
DN	Jamnagar City-1	2.00	16.80	16.43	0.37	2.21
SDN	Khambhalia Gate	0.00	0.00	0.00	0.00	0.00
SDN	Sikka	2.00	6.28	6.11	0.17	2.76
DN	Jamnagar City-2	2.00	6.28	6.11	0.17	2.76
SDN	Khambhalia(R)	1.00	1.04	1.01	0.04	3.55
DN	Khambhaliya	1.00	1.04	1.01	0.04	3.55
CIRCLE	Jamnagar	5.00	24.13	23.55	0.58	2.41
SDN	Central	0.00	0.00	0.00	0.00	0.00
SDN	GIDC	5.00	47.28	44.50	2.78	5.88
SDN	Gandhigram	0.00	0.00	0.00	0.00	0.00
SDN	Satellite	0.00	0.00	0.00	0.00	0.00
DN	Junagadh City	5.00	47.28	44.50	2.78	5.88
SDN	Visavadar-1	0.00	0.00	0.00	0.00	0.00
SDN	Visavadar-2	0.00	0.00	0.00	0.00	0.00
SDN	Bhesan	1.00	1.00	1.13	-0.12	-12.16
SDN	Bilkha	2.00	2.80	2.71	0.09	3.06
SDN	Junagadh Rural	3.00	16.35	15.71	0.64	3.91
DN	Junagadh-1	6.00	20.15	19.55	0.60	2.99
SDN	Shapur	1.00	0.96	0.95	0.01	1.30

DIST LOSSES OF IND CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Manavadar-1	0.00	0.00	0.00	0.00	0.00
SDN	Manavadar-2	0.00	0.00	0.00	0.00	0.00
SDN	Mendarda	0.00	0.00	0.00	0.00	0.00
SDN	Vanthali	0.00	0.11	0.11	0.00	0.24
DN	Junagadh-2	1.00	1.08	1.06	0.01	1.19
SDN	Veraval-Gidc	8.00	74.71	73.27	1.44	1.93
SDN	Veraval Town	0.00	0.00	0.00	0.00	0.00
SDN	Prabhas Patan	0.00	0.02	0.02	0.00	-0.86
SDN	Talala	0.00	0.00	0.00	0.00	0.00
SDN	Pranchi	0.00	0.00	0.00	0.00	0.00
SDN	Ankolwadi	0.00	0.00	0.00	0.00	0.00
SDN	Sutrapada	0.00	0.00	0.00	0.00	0.00
DN	Veraval	8.00	74.73	73.29	1.44	1.93
CIRCLE	Junagadh	20.00	143.24	138.41	4.84	3.38
SDN	Bhuj City-1	0.00	0.00	0.00	0.00	0.00
SDN	Bhuj City-2	1.00	6.08	6.01	0.07	1.16
SDN	Bhuj Rural	1.00	1.89	1.83	0.05	2.80
SDN	Madhapar	1.00	6.22	6.13	0.09	1.41
SDN	Deshalpar	1.00	2.41	2.39	0.02	0.84
SDN	Khavda	0.00	0.00	0.00	0.00	0.00
SDN	Kukma	5.00	44.75	44.47	0.28	0.61
DN	Bhuj	9.00	61.35	60.84	0.51	0.82
SDN	Mandvi Town	2.00	8.64	8.54	0.09	1.06
SDN	Mandvi Rural	1.00	5.32	5.26	0.06	1.13
SDN	Dahisara	1.00	0.61	0.60	0.01	0.98
SDN	Mundra-1	2.00	7.05	7.00	0.06	0.80
SDN	Mundra-2	1.00	0.90	0.89	0.01	0.82
SDN	Gadhasisa	2.00	2.34	2.32	0.02	0.89
DN	Mandvi	9.00	24.85	24.61	0.24	0.98
SDN	Nakhatrana	0.00	0.00	0.00	0.00	0.00
SDN	Ravapar	1.00	2.29	2.25	0.04	1.86
SDN	Dayapar	0.00	0.00	0.00	0.00	0.00
SDN	Kothara	0.00	0.00	0.00	0.00	0.00
SDN	Naliya	1.00	0.32	0.31	0.01	1.97
DN	Nakhatrana	2.00	2.61	2.56	0.05	1.88
CIRCLE	Bhuj	20.00	88.81	88.01	0.80	0.90
SDN	Anjar Town	1.00	6.48	6.35	0.13	2.01
SDN	Anjar R-1	2.00	12.22	11.98	0.24	1.97
SDN	Anjar R-2	2.00	3.70	3.65	0.05	1.35
DN	Anjar	5.00	22.41	21.99	0.42	1.88
SDN	Adipur	0.00	0.77	0.73	0.05	5.84
SDN	Gandhidham	0.00	0.00	0.00	0.00	0.00
SDN	Kandla	11.00	77.79	73.51	4.28	5.51
SDN	Rambaug	12.00	80.45	73.14	7.32	9.09
DN	Gandhidham	23.00	159.02	147.38	11.64	7.32
SDN	Bachau	5.00	32.13	31.59	0.54	1.67
SDN	Rapar	0.00	0.00	0.00	0.00	0.00
SDN	Bhimasar	0.00	0.00	0.00	0.00	0.00
SDN	Samkhiyali	1.00	1.06	1.05	0.01	0.88
DN	Bhachau	6.00	33.19	32.65	0.54	1.64
CIRCLE	Anjar	34.00	214.62	202.01	12.61	5.88
SDN	Power House	0.00	0.00	0.00	0.00	0.00

DIST LOSSES OF IND CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Khargate	0.00	0.00	0.00	0.00	0.00
SDN	Diamond	0.00	0.00	0.00	0.00	0.00
SDN	Kalanala	0.00	0.00	0.00	0.00	0.00
SDN	Kumbharwada	0.00	0.00	0.00	0.00	0.00
DN	Bhavnagar City-1	0.00	0.00	0.00	0.00	0.00
SDN	Vartej	2.00	23.35	21.76	1.59	6.80
SDN	Vallabhipur	1.00	7.99	7.94	0.05	0.67
SDN	Shihor Rural	17.00	122.28	116.18	6.10	4.99
SDN	Shihor Town	1.00	8.12	7.83	0.30	3.67
SDN	Sanosara	0.00	0.00	0.00	0.00	0.00
DN	Bhavnagar Rural	21.00	161.75	153.71	8.04	4.97
SDN	Mahuva T	1.00	3.18	2.99	0.19	6.00
SDN	Mahuva R1	0.00	2.88	2.76	0.13	4.39
SDN	Mahuva R2	1.00	12.32	11.53	0.80	6.47
SDN	Jesar	0.00	0.00	0.00	0.00	0.00
SDN	Bagdana	0.00	0.00	0.00	0.00	0.00
DN	Mahuva	2.00	18.39	17.28	1.11	6.06
SDN	Palitana Town	0.00	0.00	0.00	0.00	0.00
SDN	Talaja	0.00	0.00	0.00	0.00	0.00
SDN	Gariyadhar-1	0.00	0.00	0.00	0.00	0.00
SDN	Palitana Rural	0.00	0.00	0.00	0.00	0.00
SDN	Trapaj	0.00	0.00	0.00	0.00	0.00
SDN	Ghodidhal	1.00	0.18	0.18	0.00	0.95
SDN	Gariyadhar-2	0.00	0.00	0.00	0.00	0.00
SDN	Talaja 2	0.00	0.00	0.00	0.00	0.00
DN	Palitana	1.00	0.18	0.18	0.00	0.95
SDN	Hill Drive	0.00	0.00	0.00	0.00	0.00
SDN	Kaliyabid	0.00	0.00	0.00	0.00	0.00
SDN	Chitra	10.00	82.64	78.61	4.04	4.88
SDN	Mamsa	7.00	42.02	40.82	1.21	2.87
SDN	Ghogha	1.00	5.67	5.63	0.05	0.81
DN	Bhavnagar City-2	18.00	130.34	125.05	5.29	4.06
CIRCLE	Bhavnagar	42.00	310.66	296.22	14.44	4.65
SDN	Botad Town-1	1.00	2.73	2.70	0.03	1.01
SDN	Botad Town-2	2.00	9.31	8.93	0.39	4.15
SDN	Botad Rural	0.00	0.00	0.00	0.00	0.00
SDN	Barwala	0.00	0.00	0.00	0.00	0.00
SDN	Paliyad	1.00	23.68	22.09	1.59	6.72
SDN	Ranpur	0.00	0.00	0.00	0.00	0.00
DN	Botad	4.00	35.72	33.72	2.00	5.61
SDN	Gadhada	0.00	0.00	0.00	0.00	0.00
SDN	Gadhada R2	1.00	6.55	6.54	0.01	0.20
SDN	Dhasa	0.00	0.00	0.00	0.00	0.00
SDN	Dhola	0.00	0.00	0.00	0.00	0.00
DN	Gadhada	1.00	6.55	6.54	0.01	0.20
CIRCLE	Botad	5.00	42.27	40.25	2.02	4.77
SDN	Amreli Town	0.00	0.00	0.00	0.00	0.00
SDN	Amreli Rural	0.00	0.00	0.00	0.00	0.00
SDN	Lathi	0.00	0.00	0.00	0.00	0.00
SDN	Chital	0.00	0.00	0.00	0.00	0.00
SDN	Liliya	0.00	0.00	0.00	0.00	0.00
SDN	Babra Town	0.00	0.00	0.00	0.00	0.00

DIST LOSSES OF IND CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Damnagar	0.00	0.00	0.00	0.00	0.00
SDN	Babra Rural	2.00	4.01	3.96	0.05	1.27
DN	Amreli-1	2.00	4.01	3.96	0.05	1.27
SDN	Dhari 1	0.00	0.00	0.00	0.00	0.00
SDN	Bagasara	0.00	0.00	0.00	0.00	0.00
SDN	Kukavav	0.00	0.00	0.00	0.00	0.00
SDN	Vadia	0.00	0.00	0.00	0.00	0.00
SDN	Chalala	0.00	0.00	0.00	0.00	0.00
SDN	Dhari 2	0.00	0.00	0.00	0.00	0.00
DN	Amreli-2	0.00	0.00	0.00	0.00	0.00
SDN	Savarkundla Town	0.00	0.00	0.00	0.00	0.00
SDN	Savarkundla Rural	0.00	0.00	0.00	0.00	0.00
SDN	Rajula Town	3.00	6.40	6.51	-0.10	-1.63
SDN	Jafrabad	0.00	0.00	0.00	0.00	0.00
SDN	Khambha	0.0	0.0	0.0	0.0	0.0
SDN	Vijapadi	0.0	0.0	0.0	0.0	0.0
SDN	Rajula Rural	1.0	0.9	0.7	0.2	18.3
DN	Savarkundla	4.0	7.3	7.3	0.1	0.9
SDN	Una 1	0.0	0.0	0.0	0.0	0.0
SDN	Una 2	0.0	0.0	0.0	0.0	0.0
SDN	Kodinar 1	0.0	0.0	0.0	0.0	0.0
SDN	Una Town	0.0	0.0	0.0	0.0	0.0
SDN	Kodinar 2	2.0	4.1	4.1	0.0	0.6
SDN	Dhokadva	0.0	0.0	0.0	0.0	0.0
SDN	Girgadhda	0.0	0.0	0.0	0.0	0.0
DN	Una	2.0	4.1	4.1	0.0	0.6
CIRCLE	Amreli	8.00	15.45	15.32	0.14	0.88
SDN	Surendranagar City-1	0.00	0.00	0.00	0.00	0.00
SDN	S'Nagar City-2	0.00	0.00	0.00	0.00	0.00
SDN	Joravnagar	0.00	0.00	0.00	0.00	0.00
SDN	Wadhwan	0.00	0.00	0.00	0.00	0.00
SDN	Muli	1.00	0.42	0.41	0.01	3.02
SDN	Chotila	0.00	0.00	0.00	0.00	0.00
SDN	Than	1.00	5.81	5.65	0.17	2.87
SDN	S'Nagar-Rural	5.00	38.98	37.61	1.37	3.51
SDN	Lakhtar	0.00	0.00	0.00	0.00	0.00
DN	Surendranagar	7.00	45.22	43.67	1.55	3.42
SDN	Limbdi-Town	0.00	0.00	0.00	0.00	0.00
SDN	Limbdi-Rural	1.00	3.55	3.42	0.12	3.41
SDN	Chuda	0.00	0.00	0.00	0.00	0.00
SDN	Sayla	1.00	4.60	4.44	0.16	3.55
DN	Limbdi	2.00	8.14	7.86	0.28	3.49
SDN	Dhrangadhra Rural	0.00	0.00	0.00	0.00	0.00
SDN	Dhrangadhra Town	0.00	0.00	0.00	0.00	0.00
SDN	Rajsitapur	1.00	13.80	13.60	0.20	1.44
SDN	Patdi	1.00	2.34	2.34	0.00	-0.05
SDN	Dasada	0.00	0.00	0.00	0.00	0.00
SDN	Bavli	0.00	0.00	0.00	0.00	0.00
DN	Dhrangadhra	2.00	16.14	15.94	0.20	1.23
CIRCLE	Surendranagar	11.00	69.50	67.47	2.03	2.92
CIRCLE	PGVCL	577	6353.82	6113.58	240.25	3.78

6.3 Jyotirgram Feeders:

DIST LOSSES OF JGY CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-20	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Vavadi	6	50.48	45.82	4.66	9.23
DN	Rajkot City-3	6	51.98	46.91	5.07	9.75
CIRCLE	Rajkot City	6	51.98	46.91	5.07	9.75
SDN	Gondal Town	0.00	0.00	0.00	0.00	0.00
SDN	Gondal Rural	11.00	76.68	54.07	22.61	29.49
SDN	Gondal Rural-2	9.00	37.87	23.28	14.58	38.51
SDN	Vasavad	11.00	46.25	30.10	16.15	34.91
SDN	Kotda	9.00	60.57	40.91	19.65	32.45
DN	Gondal	40.00	221.36	148.36	72.99	32.98
SDN	Dhoraji Town	0.00	0.08	0.07	0.01	15.34
SDN	Dhoraji Rural	9.00	31.85	26.57	5.27	16.56
SDN	Upleta Town	0.00	0.09	0.06	0.03	36.60
SDN	Upleta Rural	10.00	47.44	38.88	8.55	18.03
SDN	Bhayavadar	7.00	18.24	12.58	5.67	31.06
DN	Dhoraji	26.00	97.70	78.16	19.54	20.00
SDN	Paddhari	20.00	75.76	63.78	11.98	15.81
SDN	Shapar	7.00	73.55	67.75	5.81	7.90
SDN	Lodhika	9.00	33.45	25.34	8.11	24.24
SDN	Metoda	4.00	14.60	12.45	2.15	14.75
SDN	Kuvadava	11.00	78.01	69.31	8.70	11.15
SDN	Ronki	13.00	89.25	70.65	18.60	20.84
SDN	Pardi	12.00	118.41	105.52	12.89	10.89
DN	Rajkot Rural	76.00	483.04	414.80	68.24	14.13
SDN	Vichhiya	15.00	54.36	14.37	39.99	73.56
SDN	Jasdan	3.00	12.08	7.29	4.79	39.64
SDN	Sardhar	8.00	27.21	14.45	12.77	46.91
SDN	Atkot	14.00	47.36	20.51	26.86	56.71
SDN	Tramba	12.00	30.31	16.55	13.76	45.40
DN	Jasdan	52.00	171.33	73.17	98.17	57.30
SDN	Jamkandorna	9.00	31.60	23.06	8.53	27.01
SDN	Jetpur Town	0.00	1.35	1.07	0.29	21.21
SDN	Jetpur Rural	10.00	39.09	33.03	6.06	15.51
SDN	Mandlikpur	8.00	24.47	18.62	5.85	23.91
SDN	Jamkandorna 2	10.00	18.49	7.45	11.05	59.74
DN	Jetpur	37.00	115.01	83.23	31.79	27.64
CIRCLE	Rajkot Rural	231.00	1088.44	797.71	290.73	26.71
SDN	Morbi Rural	14.00	209.55	207.06	2.49	1.19
SDN	Lalpar	5.00	43.64	41.45	2.19	5.01
SDN	Tankara	20.00	135.74	122.65	13.09	9.65
SDN	Shanala	17.00	132.52	121.05	11.47	8.66
SDN	Mota Dhahisara	17.00	113.27	93.25	20.02	17.67
SDN	Jetpar	15.00	186.52	174.12	12.39	6.64
DN	Morbi	88.00	821.24	759.59	61.65	7.51
SDN	Sara	7.00	15.51	6.95	8.56	55.19
SDN	Halvad Town	6.00	16.98	8.52	8.46	49.80
SDN	Halvad Rural	10.00	26.44	11.05	15.38	58.18
SDN	Charadava	7.00	27.49	17.76	9.72	35.38

DIST LOSSES OF JGY CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-20	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Halvad	30.00	86.41	44.29	42.12	48.74
SDN	Wankaner Town	2.00	4.54	2.65	1.90	41.73
SDN	Wankaner Rural-1	16.00	65.20	46.73	18.47	28.32
SDN	Wankaner Rural-2	14.00	34.63	21.57	13.06	37.71
DN	Wankaner	32.00	104.38	70.95	33.42	32.02
CIRCLE	Morbi	150.00	1012.03	874.84	137.20	13.56
SDN	Udhyognagar		0.06	0.03	0.04	58.69
SDN	Coastal	10.00	18.37	14.59	3.78	20.59
DN	Porbandar City	10.00	18.43	14.62	3.82	20.71
SDN	Kutiyana	9.00	12.30	8.86	3.43	27.93
SDN	Bantwa	10.00	21.74	18.31	3.43	15.79
SDN	Bagvadar	16.00	15.61	10.29	5.32	34.07
SDN	Ranavav	8.00	15.23	10.36	4.86	31.94
SDN	Rana-Kandorna	10.00	12.24	8.98	3.26	26.65
DN	Porbandar Rural	53.00	77.11	56.80	20.31	26.34
SDN	Keshod Town		0.37	0.08	0.29	77.66
SDN	Keshod Rural-1	11.00	18.36	14.04	4.32	23.53
SDN	Keshod Rural-2	12.00	23.88	18.88	5.00	20.94
SDN	Maliya Hatina	9.00	19.92	13.36	6.56	32.94
DN	Keshod	32.00	62.55	46.37	16.18	25.86
SDN	Chorwad	10.00	34.66	22.22	12.44	35.90
SDN	Mangrol Town		1.39	1.11	0.28	20.07
SDN	Mangrol Rural	7.00	13.75	10.22	3.53	25.68
SDN	Madhavpur	8.00	22.70	15.20	7.50	33.05
DN	Mangrol	25.00	72.50	48.74	23.76	32.77
CIRCLE	Porbandar	120.00	230.60	166.53	64.06	27.78
SDN	Central Zone	0.00	0.00	0.00	0.00	0.00
SDN	Patel Colony	0.00	0.00	0.00	0.00	0.00
SDN	Darbargadh	0.00	0.00	0.00	0.00	0.00
SDN	Satrasta	0.00	0.00	0.00	0.00	0.00
SDN	Hapa	12.00	59.58	36.30	23.28	39.08
DN	Jamnagar City-1	12.00	59.58	36.30	23.28	39.08
SDN	Khambhalia Gate	0.00	0.00	0.00	0.00	0.00
SDN	Industrial - Gidc	0.00	0.00	0.00	0.00	0.00
SDN	Jamnagar Rural	19.00	75.50	44.89	30.61	40.54
SDN	Sikka	14.00	35.89	15.65	20.24	56.39
SDN	Shapar	5.00	29.33	15.10	14.23	48.50
SDN	Nagarseem	11.00	104.76	77.84	26.92	25.70
DN	Jamnagar City-2	49.00	245.47	153.48	91.99	37.48
SDN	Jodiya	6.00	11.26	9.24	2.01	17.89
SDN	Dhrol Rural	11.00	37.41	15.88	21.53	57.56
SDN	Kalawad (West)	13.00	35.29	24.35	10.94	31.00
SDN	Kalawad (East)	8.00	28.87	22.91	5.97	20.67
SDN	Dhrol Town	4.00	8.71	6.06	2.65	30.45
SDN	Nikawa	11.00	27.31	18.31	9.00	32.95
SDN	Amran	7.00	15.19	10.09	5.10	33.56
DN	Jamnagar Rural	60.00	164.04	106.84	57.20	34.87
SDN	Khambhalia(R)	8.00	48.94	14.38	34.56	70.62
SDN	Khambhalia(T)	5.00	8.39	5.55	2.84	33.89
SDN	Vadatra	11.00	25.23	8.12	17.11	67.82
SDN	Bhanvad	9.00	15.60	6.96	8.64	55.37
DN	Khambhalia	33.00	98.17	35.01	63.16	64.34

DIST LOSSES OF JGY CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-20	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Jamjodhpur (East)	12.00	20.20	9.84	10.36	51.28
SDN	Jamjodhpur (West)	7.00	15.75	8.66	7.10	45.05
SDN	Lalpur	8.00	22.89	9.96	12.93	56.49
SDN	Verad	9.00	15.95	8.30	7.65	47.96
SDN	Shamana	11.00	12.64	6.65	5.99	47.40
DN	Jamjodhpur	47.00	87.43	43.41	44.03	50.35
SDN	Bhatia	7.00	23.76	9.02	14.74	62.03
SDN	Dwarka	8.00	14.96	12.28	2.68	17.91
SDN	Okha	5.00	31.28	24.36	6.92	22.12
SDN	Kalyanpur	15.00	33.08	15.06	18.02	54.46
DN	Dwarka	35.00	103.08	60.72	42.35	41.09
CIRCLE	Jamnagar	236.00	757.76	435.75	322.01	42.49
SDN	Central	0.00	0.00	0.00	0.00	0.00
SDN	GIDC	0.00	0.25	0.20	0.06	22.40
SDN	Gandhigram	0.00	0.00	0.00	0.00	0.00
SDN	Satellite	0.00	0.00	0.00	0.00	24.23
DN	Junagadh City	0.00	0.26	0.20	0.06	22.42
SDN	Visavadar-1	11.00	21.36	16.80	4.56	21.35
SDN	Visavadar-2	10.00	18.29	15.42	2.86	15.66
SDN	Bhesan	12.00	34.30	27.72	6.59	19.20
SDN	Bilkha	8.00	18.25	15.68	2.57	14.07
SDN	Junagadh Rural	9.00	26.51	23.54	2.97	11.21
DN	Junagadh-1	50.00	118.71	99.16	19.55	16.47
SDN	Shapur	8.00	20.26	16.49	3.78	18.64
SDN	Manavadar-1	5.00	5.78	4.42	1.37	23.66
SDN	Manavadar-2	7.00	14.73	11.80	2.93	19.86
SDN	Mendarda	13.00	28.78	22.20	6.58	22.86
SDN	Vanthali	6.00	15.66	11.71	3.95	25.21
DN	Junagadh-2	39.00	85.21	66.61	18.60	21.82
SDN	Veraval-Gidc	0.00	0.12	0.04	0.08	65.69
SDN	Veraval Town	0.00	0.00	0.00	0.00	0.00
SDN	Prabhas Patan	7.00	28.51	14.92	13.59	47.67
SDN	Talala	12.00	37.43	29.77	7.66	20.46
SDN	Pranchi	12.00	18.27	7.80	10.47	57.31
SDN	Ankolwadi	8.00	20.51	13.17	7.34	35.79
SDN	Sutrapada	7.00	31.00	9.51	21.49	69.32
DN	Veraval	46.00	135.85	75.22	60.63	44.63
CIRCLE	Junagadh	135.00	340.03	241.19	98.84	29.07
SDN	Bhuj City-1	0.00	0.00	0.00	0.00	0.00
SDN	Bhuj City-2	0.00	0.00	0.00	0.00	0.00
SDN	Bhuj Rural	10.00	39.19	30.43	8.77	22.37
SDN	Madhapar	12.00	58.59	53.02	5.57	9.51
SDN	Deshalpar	11.00	28.82	25.01	3.81	13.21
SDN	Khavda	11.00	17.77	9.73	8.04	45.24
SDN	Kukma	8.00	63.87	48.48	15.40	24.10
DN	Bhuj	52.00	208.64	166.89	41.75	20.01
SDN	Mandvi Town	8.00	31.94	28.60	3.35	10.47
SDN	Mandvi Rural	9.00	44.41	40.10	4.32	9.72
SDN	Dahisara	6.00	32.78	30.03	2.76	8.41
SDN	Mundra-1	10.00	37.28	31.55	5.73	15.38
SDN	Mundra-2	11.00	33.58	29.35	4.22	12.58
SDN	Gadhasisa	5.00	15.51	14.50	1.01	6.53

DIST LOSSES OF JGY CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-20	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Mandvi	49.00	195.50	174.12	21.38	10.94
SDN	Nakhatrana	12.00	42.92	35.88	7.04	16.40
SDN	Ravapar	11.00	22.45	19.21	3.24	14.44
SDN	Dayapar	16.00	18.53	14.94	3.58	19.35
SDN	Kothara	12.00	22.85	18.97	3.89	17.00
SDN	Naliya	9.00	25.25	21.63	3.61	14.31
DN	Nakhtrana	60.00	131.99	110.63	21.36	16.18
CIRCLE	Bhuj	161.00	536.14	451.65	84.49	15.76
SDN	Anjar Town	0.00	0.00	0.00	0.00	0.00
SDN	Anjar R-1	16.00	96.54	83.04	13.50	13.98
SDN	Anjar R-2	12.00	55.00	40.58	14.42	26.22
DN	Anjar	28.00	154.81	126.29	28.53	18.43
SDN	Adipur	8.00	59.00	35.34	23.66	40.11
SDN	Gandhidham	0.00	0.00	0.00	0.00	0.00
SDN	Kandla	0.00	0.00	0.00	0.00	0.00
SDN	Rambaug	4.00	37.05	24.87	12.18	32.87
DN	Gandhidham	12.00	96.06	60.21	35.84	37.31
SDN	Bachau	13.00	54.38	41.65	12.72	23.40
SDN	Rapar	12.00	17.08	11.24	5.84	34.19
SDN	Bhimasar	9.00	19.64	14.25	5.40	27.47
SDN	Samkhiyali	9.00	44.29	30.31	13.98	31.56
DN	Bhachau	43.00	135.39	97.45	37.94	28.02
CIRCLE	Anjar	83.00	386.26	283.95	102.31	26.49
SDN	Power House	0.00	0.00	0.00	0.00	0.00
SDN	Khargate	0.00	0.00	0.00	0.00	0.00
SDN	Diamond	0.00	0.00	0.00	0.00	0.00
SDN	Kalanala	0.00	0.00	0.00	0.00	0.00
SDN	Kumbharwada	0.00	0.00	0.00	0.00	0.00
DN	Bhavnagar City-1	0.00	0.00	0.00	0.00	0.00
SDN	Vartej	8.00	54.66	33.69	20.97	38.36
SDN	Vallabhipur	13.00	36.08	21.51	14.56	40.37
SDN	Shihor Rural	10.00	49.39	25.54	23.85	48.29
SDN	Shihor Town	0.00	0.00	0.00	0.00	0.00
SDN	Sanosara	9.00	26.90	15.62	11.28	41.92
DN	Bhavnagar Rural	40.00	167.03	96.37	70.66	42.30
SDN	Mahuva T	0.00	1.11	0.52	0.58	52.66
SDN	Mahuva R1	13.00	49.26	29.44	19.82	40.24
SDN	Mahuva R2	11.00	53.71	31.68	22.03	41.01
SDN	Jesar	8.00	29.65	11.40	18.25	61.56
SDN	Bagdana	9.00	19.99	10.43	9.56	47.83
DN	Mahuva	41.00	153.71	83.47	70.25	45.70
SDN	Palitana Town	0.00	0.28	0.16	0.12	42.45
SDN	Talaja	9.00	22.51	10.78	11.73	52.13
SDN	Gariyadhar-1	3.00	8.49	5.03	3.46	40.80
SDN	Palitana Rural	9.00	34.68	18.25	16.43	47.38
SDN	Trapaj	6.00	25.24	12.58	12.66	50.17
SDN	Ghodidhal	11.00	29.48	16.11	13.36	45.33
SDN	Gariyadhar-2	9.00	19.38	12.04	7.34	37.88
SDN	Talaja 2	4.00	14.07	7.96	6.12	43.45
DN	Palitana	51.00	154.14	82.90	71.24	46.21
SDN	Hill Drive	0.00	0.00	0.00	0.00	0.00
SDN	Kaliyabid	0.00	0.00	0.00	0.00	0.00

DIST LOSSES OF JGY CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-20	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Chitra	1.00	4.37	3.20	1.17	26.81
SDN	Mamsa	8.00	22.18	12.10	10.08	45.43
SDN	Ghogha	5.00	33.73	21.28	12.45	36.91
DN	Bhavnagar City-2	14.00	60.27	36.58	23.70	39.31
CIRCLE	Bhavnagar	146.00	535.16	299.32	235.84	44.07
SDN	Botad Town-1	0.00	0.28	0.15	0.13	46.87
SDN	Botad Town-2	1.00	9.05	5.01	4.04	44.62
SDN	Botad Rural	9.00	46.95	23.92	23.03	49.05
SDN	Barwala	8.00	35.29	12.74	22.54	63.88
SDN	Paliyad	6.00	39.94	21.41	18.53	46.39
SDN	Ranpur	9.00	62.37	34.64	27.73	44.47
DN	Botad	33.00	193.88	97.88	96.00	49.52
SDN	Gadhada	7.00	29.36	16.58	12.78	43.53
SDN	Gadhada R2	3.00	9.96	6.17	3.79	38.05
SDN	Dhasa	11.00	49.32	36.74	12.58	25.50
SDN	Dhola	9.00	27.98	13.99	13.99	50.00
DN	Gadhada	30.00	116.61	73.47	43.13	36.99
CIRCLE	Botad	63.00	310.48	171.35	139.13	44.81
SDN	Amreli Town	0.00	0.00	0.00	0.00	0.00
SDN	Amreli Rural	15.00	39.52	29.21	10.31	26.08
SDN	Lathi	8.00	21.26	15.36	5.90	27.76
SDN	Chital	5.00	16.26	11.48	4.78	29.39
SDN	Liliya	5.00	17.69	15.47	2.22	12.55
SDN	Babra Town	3.00	11.00	7.32	3.68	33.43
SDN	Damnagar	6.00	29.08	21.07	8.01	27.55
SDN	Babra Rural	5.00	20.68	13.02	7.66	37.03
DN	Amreli-1	47.00	155.48	112.93	42.55	27.37
SDN	Dhari 1	3.00	4.42	3.51	0.91	20.56
SDN	Bagasara	6.00	13.10	9.38	3.72	28.42
SDN	Kukavav	6.00	16.75	12.62	4.14	24.70
SDN	Vadia	10.00	24.98	18.49	6.49	25.99
SDN	Chalala	9.00	12.12	6.96	5.15	42.53
SDN	Dhari 2	10.00	17.12	11.44	5.68	33.17
DN	Amreli-2	44.00	88.49	62.39	26.09	29.49
SDN	Savarkundla Town	0.00	0.03	0.02	0.01	31.49
SDN	Savarkundla Rural	10.00	31.31	20.06	11.25	35.93
SDN	Rajula Town	3.00	23.85	15.17	8.69	36.42
SDN	Jafrabad	8.00	29.73	16.09	13.64	45.88
SDN	Khambha	10.0	25.1	13.6	11.6	46.0
SDN	Vijapadi	8.0	29.1	17.7	11.4	39.2
SDN	Rajula Rural	9.0	26.9	12.6	14.3	53.1
DN	Savarkundla	48.0	166.1	95.2	70.9	42.66
SDN	Una 1	6.0	33.5	17.8	15.7	46.8
SDN	Una 2	10.0	33.1	18.0	15.2	45.8
SDN	Kodinar 1	4.0	28.8	12.0	16.8	58.5
SDN	Una Town	0.0	0.0	0.0	0.0	0.0
SDN	Kodinar 2	18.0	84.8	29.5	55.3	65.19
SDN	Dhokadva	9.0	27.2	13.9	13.3	48.9
SDN	Girgadhda	6.0	24.2	14.0	10.2	42.3
DN	Una	53.0	231.7	105.2	126.5	54.60
CIRCLE	Amreli	192.00	641.69	375.70	265.98	41.45
SDN	Surendranagar City-1	0.00	0.00	0.00	0.00	0.00

DIST LOSSES OF JGY CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-20	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	S'Nagar City-2	0.00	0.00	0.00	0.00	0.00
SDN	Joravnagar	0.00	0.00	0.00	0.00	0.00
SDN	Wadhwan	2.00	11.36	5.43	5.93	52.21
SDN	Muli	8.00	30.07	13.90	16.17	53.77
SDN	Chotila	13.00	40.98	14.72	26.26	64.08
SDN	Than	7.00	37.19	22.24	14.96	40.21
SDN	S'Nagar-Rural	8.00	37.26	23.91	13.35	35.83
SDN	Lakhtar	5.00	20.55	13.20	7.34	35.74
DN	Surendranagar	43.00	177.42	93.40	84.01	47.35
SDN	Limbdi-Town	0.00	0.84	0.20	0.64	75.69
SDN	Limbdi-Rural	11.00	86.94	22.96	63.99	73.60
SDN	Chuda	8.00	41.31	11.64	29.67	71.82
SDN	Sayla	10.00	51.45	13.82	37.63	73.13
DN	Limbdi	29.00	180.54	48.63	131.92	73.07
SDN	Dhrangadhra Rural	6.00	30.39	21.14	9.24	30.42
SDN	Dhrangadhra Town	0.00	0.00	0.00	0.00	0.00
SDN	Rajsitapur	6.00	30.54	13.32	17.22	56.38
SDN	Patdi	6.00	35.61	16.57	19.03	53.45
SDN	Dasada	11.00	44.06	28.64	15.43	35.01
SDN	Bavli	8.00	24.05	9.08	14.98	62.27
DN	Dhrangadhra	37.00	164.65	88.75	75.89	46.09
CIRCLE	Surendranagar	109.00	522.60	230.78	291.82	55.84
CIRCLE	PGVCL	1632	6413.18	4375.69	2037.49	31.77

6.4 Agricultural Feeders:

DIST LOSSES OF AG DOM CATEGORY						
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Rajkot City-2	0	0.00	0.00		
SDN	Vavadi	3	4.08	4.09	-0.02	-0.42
DN	Rajkot City-3	3	6.38	5.63	0.75	11.77
CIRCLE	Rajkot City	3	6.38	5.63	0.75	11.77
SDN	Gondal Town	0.00	0.00	0.00	0.00	0.00
SDN	Gondal Rural	25.00	46.93	41.81	5.12	10.92
SDN	Gondal Rural-2	29.00	51.78	41.05	10.74	20.74
SDN	Vasavad	38.00	74.39	67.34	7.04	9.47
SDN	Kotda	21.00	42.86	33.96	8.89	20.75
DN	Gondal	113.00	215.96	184.16	31.80	14.72
SDN	Dhoraji Town	0.00	0.00	0.00	0.00	0.00
SDN	Dhoraji Rural	41.00	74.69	80.25	-5.56	-7.45
SDN	Upleta Town	0.00	0.00	0.00	0.00	0.00
SDN	Upleta Rural	41.00	64.54	63.20	1.33	2.07
SDN	Bhayavadar	34.00	59.91	57.05	2.86	4.78
DN	Dhoraji	116.00	199.13	200.50	-1.37	-0.69
SDN	Paddhari	35.00	50.86	52.56	-1.69	-3.33
SDN	Shapar	0.00	0.00	0.00	0.00	0.00
SDN	Lodhika	19.00	30.45	32.23	-1.79	-5.87
SDN	Metoda	6.00	7.98	8.97	-0.98	-12.30
SDN	Kuvadava	11.00	26.95	25.95	1.00	3.69
SDN	Ronki	27.00	42.84	39.43	3.41	7.95

		DIST LOSSES OF AG DOM CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Pardi	12.00	14.13	14.85	-0.72	-5.13
DN	Rajkot Rural	110.00	173.21	173.99	-0.79	-0.45
SDN	Vichhiya	36.00	70.81	40.10	30.71	43.37
SDN	Jasdan	23.00	20.05	16.80	3.26	16.23
SDN	Sardhar	26.00	47.19	32.66	14.54	30.80
SDN	Atkot	58.00	64.33	44.02	20.31	31.57
SDN	Tramba	27.00	41.94	37.15	4.79	11.41
DN	Jasdan	170.00	244.31	170.72	73.60	30.12
SDN	Jamkandorna	25.00	31.46	31.38	0.08	0.27
SDN	Jetpur Town	0.00	0.00	0.00	0.00	0.00
SDN	Jetpur Rural	29.00	61.01	63.91	-2.90	-4.76
SDN	Mandlikpur	15.00	23.95	23.00	0.96	3.99
SDN	Jamkandorna 2	28.00	38.93	33.59	5.33	13.70
DN	Jetpur	97.00	155.35	151.88	3.47	2.23
CIRCLE	Rajkot Rural	606.00	987.96	881.25	106.71	10.80
SDN	Morbi Rural	12.00	12.55	14.74	-2.19	-17.45
SDN	Lalpar	11.00	16.70	16.54	0.16	0.97
SDN	Tankara	38.00	55.19	55.99	-0.80	-1.45
SDN	Shanala	16.00	15.39	14.72	0.67	4.35
SDN	Mota Dhahisara	3.00	1.73	1.66	0.07	3.83
SDN	Jetpar	11.00	12.22	19.88	-7.66	-62.72
DN	Morbi	91.00	113.79	123.54	-9.76	-8.57
SDN	Sara	52.00	274.99	103.40	171.59	62.40
SDN	Halvad Town	54.00	170.88	127.69	43.19	25.28
SDN	Halvad Rural	42.00	131.66	90.13	41.53	31.54
SDN	Charadava	64.00	255.17	181.76	73.41	28.77
DN	Halvad	212.00	832.70	502.98	329.72	39.60
SDN	Wankaner Town	4.00	8.35	7.66	0.69	8.24
SDN	Wankaner Rural-1	47.00	78.75	67.55	11.20	14.22
SDN	Wankaner Rural-2	46.00	142.00	81.99	60.00	42.26
DN	Wankaner	97.00	229.09	157.20	71.89	31.38
CIRCLE	Morbi	400.00	1175.58	783.72	391.86	33.33
SDN	Udhyognagar	1.00	0.34	0.28	0.06	16.69
SDN	Coastal	12.00	31.06	27.24	3.82	12.30
DN	Porbandar City	13.00	31.40	27.52	3.88	12.35
SDN	Kutiya	16.00	32.66	28.35	4.31	13.19
SDN	Bantwa	19.00	25.65	22.48	3.17	12.35
SDN	Bagvadar	33.00	89.82	75.06	14.76	16.43
SDN	Ranavav	25.00	35.46	29.39	6.07	17.11
SDN	Rana-Kandorna	25.00	56.59	49.54	7.05	12.45
DN	Porbandar Rural	118.00	240.18	204.82	35.35	14.72
SDN	Keshod Town	8.00	13.63	12.43	1.20	8.77
SDN	Keshod Rural-1	33.00	70.05	62.07	7.99	11.40
SDN	Keshod Rural-2	34.00	60.79	54.10	6.69	11.00
SDN	Maliya Hatina	24.00	44.15	33.22	10.93	24.77
DN	Keshod	99.00	188.62	161.82	26.80	14.21
SDN	Chorwad	26.00	96.49	63.63	32.87	34.06
SDN	Mangrol Town	3.00	16.18	12.32	3.86	23.87
SDN	Mangrol Rural	22.00	79.07	60.84	18.24	23.06
SDN	Madhavpur	12.00	28.03	21.25	6.78	24.18
DN	Mangrol	63.00	219.77	158.03	61.74	28.09
CIRCLE	Porbandar	293.00	679.97	552.20	127.77	18.79

		DIST LOSSES OF AG DOM CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Hapa	23.00	49.52	41.96	7.57	15.28
DN	Jamnagar City-1	23.00	49.52	41.96	7.57	15.28
SDN	Jamnagar Rural	30.00	54.82	41.52	13.30	24.26
SDN	Sikka	17.00	27.74	15.25	12.49	45.03
SDN	Shapar	8.00	18.63	15.16	3.47	18.64
SDN	Nagarseem	3.00	3.98	3.48	0.50	12.54
DN	Jamnagar City-2	58.00	105.16	75.41	29.76	28.30
SDN	Jodiya	14.00	23.26	25.64	-2.38	-10.22
SDN	Dhrol Rural	30.00	56.56	41.15	15.41	27.25
SDN	Kalawad (West)	38.00	75.75	65.12	10.64	14.04
SDN	Kalawad (East)	25.00	43.01	40.41	2.59	6.03
SDN	Dhrol Town	18.00	28.85	25.84	3.00	10.42
SDN	Nikawa	34.00	50.38	49.03	1.36	2.69
SDN	Amran	10.00	18.32	17.36	0.96	5.23
DN	Jamnagar Rural	169.00	296.13	264.55	31.58	10.67
SDN	Khambhalia(R)	21.00	46.61	26.72	19.89	42.67
SDN	Khambhalia(T)	8.00	17.68	11.52	6.16	34.86
SDN	Vadatra	30.00	77.26	37.61	39.66	51.33
SDN	Bhanvad	21.00	45.77	28.13	17.64	38.55
DN	Khambhaliya	80.00	187.32	103.97	83.35	44.49
SDN	Jamjodhpur (East)	38.00	60.96	49.16	11.80	19.36
SDN	Jamjodhpur (West)	27.00	57.78	41.55	16.23	28.08
SDN	Lalpur	38.00	70.35	43.88	26.47	37.63
SDN	Verad	28.00	45.40	31.62	13.78	30.34
SDN	Shamana	19.00	39.69	33.43	6.26	15.77
DN	Jamjodhpur	150.00	274.18	199.65	74.53	27.18
SDN	Bhatia	19.00	35.07	23.25	11.82	33.70
SDN	Dwarka	9.00	15.07	9.46	5.62	37.27
SDN	Okha	3.00	4.71	2.40	2.31	48.98
SDN	Kalyanpur	36.00	76.22	37.48	38.75	50.83
DN	Dwarka	67.00	131.07	72.58	58.49	44.62
CIRCLE	Jamnagar	547.00	1043.39	758.11	285.28	27.34
SDN	GIDC	1.00	0.12	0.15	-0.03	-22.77
SDN	Gandhigram	1.00	0.21	0.19	0.02	10.50
DN	Junagadh City	2.00	0.34	0.35	-0.01	-1.76
SDN	Visavadar-1	48.00	103.29	88.42	14.88	14.40
SDN	Visavadar-2	42.00	99.69	96.59	3.09	3.10
SDN	Bhesan	50.00	97.55	89.98	7.57	7.76
SDN	Bilkha	21.00	53.16	60.62	-7.47	-14.04
SDN	Junagadh Rural	26.00	55.96	65.14	-9.18	-16.40
DN	Junagadh-1	187.00	409.64	400.75	8.89	2.17
SDN	Shapur	12.00	25.05	31.51	-6.46	-25.81
SDN	Manavadar-1	15.00	19.38	19.47	-0.09	-0.46
SDN	Manavadar-2	24.00	39.53	42.07	-2.54	-6.43
SDN	Mendarda	29.00	74.60	87.62	-13.02	-17.46
SDN	Vanthali	23.00	35.72	39.87	-4.15	-11.62
DN	Junagadh-2	103.00	194.28	220.55	-26.27	-13.52
SDN	Prabhas Patan	21.00	101.24	51.41	49.83	49.22
SDN	Talala	16.00	45.31	41.46	3.85	8.50
SDN	Pranchi	20.00	68.06	33.94	34.12	50.13
SDN	Ankolwadi	21.00	47.50	42.77	4.73	9.96
SDN	Sutrapada	14.00	40.94	20.26	20.68	50.52

		DIST LOSSES OF AG DOM CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Veraval	92.00	303.06	189.85	113.22	37.36
CIRCLE	Junagadh	384.00	907.33	811.50	95.83	10.56
SDN	Bhuj Rural	29.00	114.72	85.33	29.39	25.62
SDN	Madhapar	42.00	163.86	112.56	51.31	31.31
SDN	Deshalpar	34.00	110.73	101.58	9.16	8.27
SDN	Khavda	1.00	0.95	0.58	0.38	39.50
SDN	Kukma	36.00	215.63	104.99	110.63	51.31
DN	Bhuj	142.00	605.89	405.04	200.86	33.15
SDN	Mandvi Town	18.00	73.66	59.35	14.30	19.42
SDN	Mandvi Rural	35.00	119.02	96.23	22.79	19.15
SDN	Dahisara	20.00	97.08	86.08	11.00	11.33
SDN	Mundra-1	15.00	34.33	26.57	7.76	22.60
SDN	Mundra-2	22.00	91.06	73.53	17.54	19.26
SDN	Gadhasisa	19.00	92.73	80.72	12.01	12.96
DN	Mandvi	129.00	507.88	422.48	85.40	16.81
SDN	Nakhatrana	43.00	171.93	156.60	15.33	8.92
SDN	Ravapar	28.00	104.00	86.94	17.07	16.41
SDN	Dayapar	9.00	20.94	12.14	8.79	42.00
SDN	Kothara	53.00	198.21	166.95	31.26	15.77
SDN	Naliya	7.00	21.46	15.80	5.66	26.35
DN	Nakhatrana	140.00	516.54	438.44	78.11	15.12
CIRCLE	Bhuj	411.00	1630.32	1265.95	364.37	22.35
SDN	Anjar Town	4.00	26.29	19.31	6.99	26.57
SDN	Anjar R-1	40.00	138.11	92.12	45.99	33.30
SDN	Anjar R-2	48.00	218.34	120.38	97.96	44.87
DN	Anjar	92.00	382.74	231.80	150.94	39.44
SDN	Adipur	2.00	4.50	3.42	1.08	24.09
SDN	Gandhidham	0.00	0.00	0.00	0.00	0.00
SDN	Kandla	0.00	0.00	0.00	0.00	0.00
SDN	Rambaug	0.00	0.78	0.78	0.00	0.46
DN	Gandhidham	2.00	5.28	4.20	1.09	20.59
SDN	Bachau	42.00	255.40	117.96	137.44	53.81
SDN	Rapar	35.00	157.22	65.97	91.24	58.04
SDN	Bhimasar	17.00	80.71	30.43	50.28	62.30
SDN	Samkhiyali	12.00	78.28	34.80	43.48	55.55
DN	Bhachau	106.00	571.61	249.16	322.45	56.41
CIRCLE	Anjar	200.00	959.63	485.16	474.47	49.44
SDN	Power House	0.00	0.00	0.00	0.00	-107.91
SDN	Khargate	0.00	0.00	0.00	0.00	0.00
SDN	Diamond	1.00	0.08	0.41	-0.33	-418.15
SDN	Kalanala	1.00	0.08	0.14	-0.06	-74.69
SDN	Kumbharwada	0.00	0.00	0.00	0.00	0.00
DN	Bhavnagar City-1	2.00	0.16	0.55	-0.39	-243.10
SDN	Vartej	17.00	53.43	44.96	8.47	15.86
SDN	Vallabhipur	12.00	15.84	12.98	2.86	18.06
SDN	Shihor Rural	23.00	48.86	36.96	11.90	24.36
SDN	Shihor Town	1.00	6.22	4.39	1.83	29.38
SDN	Sanosara	18.00	44.83	39.83	5.00	11.14
DN	Bhavnagar Rural	71.00	169.17	139.12	30.06	17.77
SDN	Mahuva T	2.00	3.68	3.56	0.12	3.23
SDN	Mahuva R1	25.00	48.31	39.11	9.20	19.04
SDN	Mahuva R2	24.00	43.87	39.17	4.69	10.70

		DIST LOSSES OF AG DOM CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Jesar	17.00	39.37	24.76	14.61	37.11
SDN	Bagdana	26.00	48.68	36.79	11.90	24.44
DN	Mahuva	94.00	183.90	143.39	40.51	22.03
SDN	Palitana Town	2.00	3.13	2.34	0.79	25.22
SDN	Talaja	24.00	45.83	33.45	12.38	27.02
SDN	Gariyadhar-1	9.00	16.46	15.94	0.52	3.16
SDN	Palitana Rural	14.00	39.62	26.73	12.89	32.54
SDN	Trapaj	24.00	40.47	32.05	8.42	20.80
SDN	Ghodidhal	19.00	31.34	29.61	1.73	5.52
SDN	Gariyadhar-2	17.00	32.75	30.48	2.27	6.94
SDN	Talaja 2	12.00	27.72	25.03	2.68	9.68
DN	Palitana	121.00	237.31	195.62	41.69	17.57
SDN	Hill Drive	0.00	0.00	0.00	0.00	0.00
SDN	Kaliyabid	0.00	0.00	0.00	0.00	0.00
SDN	Chitra	2.00	2.92	2.07	0.85	29.15
SDN	Mamsa	20.00	50.79	31.50	19.30	37.99
SDN	Ghogha	6.00	13.45	9.50	3.95	29.38
DN	Bhavnagar City-2	28.00	67.16	43.06	24.10	35.88
CIRCLE	Bhavnagar	316.00	657.70	521.74	135.96	20.67
SDN	Botad Town-1	0.00	0.00	0.00	0.00	0.00
SDN	Botad Town-2	12.00	27.93	25.72	2.21	7.92
SDN	Botad Rural	26.00	49.90	47.12	2.79	5.58
SDN	Barwala	12.00	29.72	25.06	4.66	15.69
SDN	Paliyad	24.00	57.77	39.48	18.30	31.67
SDN	Ranpur	25.00	57.80	44.68	13.12	22.70
DN	Botad	99.00	223.13	182.05	41.08	18.41
SDN	Gadhada	25.00	50.74	40.31	10.42	20.55
SDN	Gadhada R2	14.00	27.76	24.89	2.87	10.34
SDN	Dhasa	27.00	48.06	43.94	4.12	8.57
SDN	Dhola	15.00	25.02	19.55	5.46	21.83
DN	Gadhada	81.00	151.57	128.69	22.88	15.09
CIRCLE	Botad	180.00	374.70	310.74	63.95	17.07
SDN	Amreli Town	0.00	0.00	0.00	0.00	0.00
SDN	Amreli Rural	39.00	60.49	61.10	-0.61	-1.00
SDN	Lathi	30.00	55.55	45.82	9.73	17.52
SDN	Chital	23.00	45.41	42.36	3.05	6.72
SDN	Liliya	11.00	20.94	17.70	3.24	15.49
SDN	Babra Town	19.00	41.40	31.78	9.62	23.23
SDN	Damnagar	13.00	28.21	27.23	0.99	3.50
SDN	Babra Rural	24.00	46.57	41.19	5.38	11.55
DN	Amreli-1	159.00	298.58	267.18	31.40	10.52
SDN	Dhari 1	11.00	33.02	31.35	1.67	5.07
SDN	Bagasara	29.00	61.83	52.51	9.33	15.08
SDN	Kukavav	28.00	42.45	41.23	1.22	2.87
SDN	Vadia	39.00	64.14	60.82	3.32	5.18
SDN	Chalala	20.00	45.51	39.09	6.42	14.11
SDN	Dhari 2	33.00	68.32	59.90	8.42	12.32
DN	Amreli-2	160.00	315.26	284.88	30.38	9.64
SDN	Savarkundla Town	6.00	15.22	14.53	0.69	4.54
SDN	Savarkundla Rural	20.00	50.57	45.87	4.70	9.30
SDN	Rajula Town	3.00	3.64	3.22	0.42	11.46
SDN	Jafrabad	10.00	21.67	16.84	4.83	22.28

		DIST LOSSES OF AG DOM CATEGORY				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Khambha	22.0	30.1	29.0	1.1	3.5
SDN	Vijapadi	22.0	59.4	48.2	11.2	18.8
SDN	Rajula Rural	18.0	35.3	27.2	8.1	22.9
DN	Savarkundla	101.0	215.9	184.9	31.0	14.35
SDN	Una 1	13.0	28.9	22.0	6.9	23.8
SDN	Una 2	10.0	24.8	20.1	4.7	18.9
SDN	Kodinar 1	9.0	27.3	17.1	10.2	37.3
SDN	Una Town	5.0	7.2	5.0	2.3	31.6
SDN	Kodinar 2	33.0	89.9	59.0	30.8	34.3
SDN	Dhokadva	18.0	43.8	36.7	7.2	16.4
SDN	Girgadhda	11.0	29.1	27.1	2.0	6.8
DN	Una	99.0	251.0	187.0	64.0	25.51
CIRCLE	Amreli	519.00	1080.73	923.95	156.78	14.51
SDN	Surendranagar City-1	0.00	0.01	0.01	0.00	3
SDN	S'Nagar City-2	0.00	0.00	0.00	0.00	0
SDN	Joravnagar	0.00	0.39	0.33	0.06	15.45
SDN	Wadhwan	4.00	13.45	10.52	2.92	21.75
SDN	Muli	41.00	175.49	88.86	86.62	49.36
SDN	Chotila	23.00	88.32	36.15	52.17	59.07
SDN	Than	25.00	99.57	49.44	50.13	50.35
SDN	S'Nagar-Rural	20.00	70.85	42.81	28.04	39.57
SDN	Lakhtar	0.00	0.01	0.01	0.00	-38.07
DN	Surendranagar	113.00	448.07	228.13	219.95	49.09
SDN	Limbdi-Town	0.00	0.14	0.17	-0.03	-18.07
SDN	Limbdi-Rural	11.00	11.84	12.95	-1.11	-9.41
SDN	Chuda	22.00	46.28	33.99	12.29	26.55
SDN	Sayla	25.00	69.45	26.32	43.13	62.10
DN	Limbdi	58.00	127.71	73.43	54.28	42.50
SDN	Dhrangadhra Rural	40.00	119.72	88.01	31.71	26.49
SDN	Dhrangadhra Town	5.00	24.10	18.59	5.51	22.86
SDN	Rajsitapur	39.00	115.14	88.32	26.82	23.29
SDN	Patdi	8.00	12.09	11.63	0.47	3.85
SDN	Dasada	18.00	18.80	16.14	2.66	14.14
SDN	Bavli	69.00	277.66	134.20	143.46	51.67
DN	Dhrangadhra	179.00	567.52	356.89	210.63	37.11
CIRCLE	Surendranagar	350.00	1143.31	658.45	484.85	42.41
CIRCLE	PGVCL	4209	10647.00	7958.40	2688.60	25.25

6.4 HT Express Feeders:

		HT EXP				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Aji Industrial	2	22.15	22.02	0.13	0.57
DN	Rajkot City-1	2	22.15	22.02	0.13	0.57
SDN	Pradhuman Nagar	1	4.63	4.62	0.01	0.20
DN	Rajkot City-2	1	4.63	4.62	0.01	0.20
SDN	Vavadi	1	2.23	2.25	-0.02	-0.99
DN	Rajkot City-3	1	2.23	2.25	-0.02	-0.99
CIRCLE	Rajkot City	4	29.00	28.89	0.11	0.39
SDN	Gondal Rural	2.00	12.70	12.53	0.17	1.33

		HT EXP				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Gondal Rural-2	1.00	7.82	7.67	0.15	1.91
SDN	Kotda	1.00	10.74	10.29	0.45	4.20
DN	Gondal	4.00	31.25	30.48	0.77	2.46
SDN	Ronki	1.00	3.31	3.19	0.12	3.66
DN	Rajkot Rural	1.00	3.31	3.19	0.12	3.66
SDN	Vichhiya	2.00	2.45	2.44	0.01	0.44
SDN	Jasdan	1.00	14.11	13.84	0.27	1.90
SDN	Atkot	2.00	49.99	46.58	3.41	6.82
DN	Jasdan	5.00	66.55	62.86	3.69	5.54
CIRCLE	Rajkot Rural	10.00	101.11	96.54	4.58	4.53
SDN	Udhyognagar	1.00	14.69	14.68	0.01	0.07
DN	Porbandar City	1.00	14.69	14.68	0.01	0.07
SDN	Chorwad	2.00	8.65	8.42	0.23	2.63
DN	Mangrol	2.00	8.65	8.42	0.23	2.63
CIRCLE	Porbandar	3.00	23.34	23.10	0.24	1.02
SDN	Central Zone	1.00	7.07	7.00	0.07	0.98
SDN	Patel Colony	1.00	3.34	3.32	0.03	0.80
SDN	Satrapta	1.00	0.37	0.37	0.00	0.78
SDN	Hapa	5.00	42.93	42.30	0.63	1.47
DN	Jamnagar City-1	8.00	53.71	52.98	0.73	1.36
SDN	Khambhalia Gate	1.00	5.99	5.93	0.06	1.05
SDN	Sikka	3.00	10.07	9.96	0.12	1.15
SDN	Shapar	2.00	12.62	12.34	0.28	2.19
DN	Jamnagar City-2	6.00	28.68	28.22	0.46	1.59
SDN	Jodiya	1.00	1.31	1.28	0.02	1.85
SDN	Dhrol Rural	2.00	22.92	22.68	0.24	1.06
SDN	Kalawad (East)	1.00	16.60	16.31	0.29	1.74
SDN	Nikawa	1.00	21.37	21.31	0.06	0.28
DN	Jamnagar Rural	5.00	62.19	61.58	0.61	0.99
SDN	Khambhalia(R)	1.00	2.45	2.40	0.04	1.81
SDN	Khambhalia(T)	2.00	4.53	4.50	0.03	0.76
DN	Khambhaliya	3.00	6.98	6.90	0.08	1.13
SDN	Shamana	1.00	2.98	2.94	0.04	1.36
DN	Jamjodhpur	1.00	2.98	2.94	0.04	1.36
SDN	Dwarka	1.00	9.86	9.77	0.09	0.90
SDN	Okha	1.00	1.11	1.11	0.00	0.00
DN	Dwarka	2.00	10.96	10.88	0.09	0.81
CIRCLE	Jamnagar	25.00	165.51	163.50	2.01	1.21
SDN	Gandhigram	2.00	11.36	11.28	0.07	0.63
DN	Junagadh City	2.00	11.36	11.28	0.07	0.63
SDN	Bhesan	1.00	0.15	0.16	-0.01	-5.28
SDN	Bilkha	1.00	2.44	2.46	-0.02	-0.67
DN	Junagadh-1	2.00	2.59	2.62	-0.02	-0.93
SDN	Pranchi	1.00	0.64	0.64	0.00	0.00
DN	Veraval	1.00	0.64	0.64	0.00	0.00
CIRCLE	Junagadh	5.00	14.58	14.54	0.05	0.32
SDN	Bhuj City-1	3.00	11.37	11.22	0.15	1.34
SDN	Bhuj City-2	1.00	8.54	8.40	0.13	1.56
SDN	Bhuj Rural	1.00	0.87	0.84	0.03	0.00
SDN	Madhapar	1.00	2.14	2.14	0.01	0.36
SDN	Deshalpar	1.00	0.20	0.20	0.00	0.70
SDN	Khavda	1.00	17.91	22.87	-4.97	-27.74
SDN	Kukma	7.00	27.28	27.07	0.22	0.80

		HT EXP				
	SDN /DIVISION/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Bhuj	15.00	68.31	72.73	-4.42	-6.48
SDN	Dahisara	1.00	4.37	4.33	0.04	1.00
SDN	Mundra-1	4.00	42.49	42.07	0.43	1.00
SDN	Mundra-2	5.00	17.57	17.38	0.19	1.06
DN	Mandvi	10.00	64.43	63.78	0.66	1.02
SDN	Dayapar	1.00	0.21	0.21	0.00	1.32
SDN	Kothara	3.00	13.68	13.52	0.16	1.20
DN	Nakhtrana	4.00	14.17	14.00	0.17	1.21
CIRCLE	Bhuj	29.00	146.91	150.51	-3.60	-2.45
SDN	Anjar Town	1.00	15.11	14.74	0.36	2.41
SDN	Anjar R-1	6.00	26.37	25.90	0.47	1.80
SDN	Anjar R-2	8.00	49.41	48.28	1.12	2.27
DN	Anjar	15.00	90.89	88.93	1.96	2.16
SDN	Adipur	1.00	5.90	5.81	0.09	1.53
SDN	Gandhidham	2.00	10.73	10.53	0.20	1.90
SDN	Kandla	9.00	78.71	75.78	2.93	3.72
SDN	Rambaug	10.00	71.55	70.21	1.33	1.86
DN	Gandhidham	22.00	166.89	162.33	4.56	2.73
SDN	Bachau	8.00	63.05	62.46	0.58	0.92
SDN	Rapar	1.00	0.10	0.10	0.00	0.56
SDN	Samkhiyali	4.00	13.36	13.24	0.12	0.93
DN	Bhachau	13.00	76.51	75.80	0.71	0.92
CIRCLE	Anjar	50.00	334.29	327.06	7.23	2.16
SDN	Kumbharwada	2.00	12.66	12.69	-0.03	-0.24
DN	Bhavnagar City-1	2.00	12.66	12.69	-0.03	-0.24
SDN	Vartej	5.00	42.31	39.89	2.42	5.72
SDN	Shihor Rural	25.00	195.94	188.70	7.24	3.69
SDN	Shihor Town	2.00	13.82	13.24	0.58	4.22
SDN	Sanosara	1.00	0.30	0.30	0.00	0.19
DN	Bhavnagar Rural	33.00	252.38	242.13	10.25	4.06
SDN	Mahuva R2	1.00	8.62	8.43	0.19	2.21
DN	Mahuva	1.00	8.62	8.43	0.19	2.21
SDN	Palitana Town	1.00	14.19	13.91	0.28	1.99
SDN	Palitana Rural	0.00	0.00	0.00	0.00	0.00
SDN	Trapaj	4.00	16.46	15.93	0.54	3.25
DN	Palitana	5.00	30.65	29.83	0.82	2.67
SDN	Mamsa	8.00	58.63	55.52	3.11	5.30
SDN	Ghogha	1.00	0.29	0.29	-0.01	-1.92
DN	Bhavnagar City-2	9.00	58.92	55.82	3.10	5.27
CIRCLE	Bhavnagar	50.00	363.23	348.91	14.33	3.94
SDN	Botad Rural	1.00	19.86	18.97	0.88	4.45
DN	Botad	1.00	19.86	18.97	0.88	4.45
SDN	Dhasa	1.00	17.97	16.92	1.06	5.88
DN	Gadhada	1.00	17.97	16.92	1.06	5.88
CIRCLE	Botad	2.00	37.83	35.89	1.94	5.13
SDN	Amreli Town	1.00	18.49	18.43	0.06	0.31
SDN	Lathi	2.00	42.61	41.86	0.76	1.77
SDN	Babra Town	5.00	29.81	29.63	0.18	0.61
SDN	Babra Rural	1.00	2.71	2.70	0.01	0.31
DN	Amreli-1	9.00	93.62	92.61	1.00	1.07
SDN	Dhari 1	1.00	0.16	0.16	0.00	0.29
SDN	Kukavav	1.00	1.17	1.16	0.00	0.42
SDN	Vadia	1.00	0.00	0.00	0.00	0.98

		HT EXP				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Dhari 2	1.00	0.06	0.06	0.00	0.13
DN	Amreli-2	4.00	1.39	1.38	0.01	0.40
SDN	Savarkundla Rural	1.00	2.34	2.31	0.03	1.44
SDN	Rajula Town	1.00	2.88	2.84	0.04	1.46
SDN	Jafrabad	1.00	1.78	1.76	0.02	1.24
SDN	Rajula Rural	1.0	0.0	0.0	0.0	0.0
DN	Savarkundla	4.0	7.0	6.9	0.1	1.4
SDN	Una 1	1.0	1.0	1.0	0.0	0.6
SDN	Kodinar 1	1.0	0.0	0.0	0.0	0.0
DN	Una	2.0	1.0	1.0	0.0	0.6
CIRCLE	Amreli	19.0	103.1	101.9	1.113	1.08
SDN	Muli	1.00	11.29	10.64	0.66	5.83
SDN	Chotila	1.00	12.12	11.83	0.29	2.42
SDN	Lakhtar	1.00	10.41	10.08	0.33	3.15
DN	Surendranagar	3.00	33.82	32.54	1.28	3.78
SDN	Dhrangadhra Rural	1.00	3.90	3.81	0.09	2.24
SDN	Dhrangadhra Town	1.00	1.27	1.23	0.04	3.00
SDN	Rajsitapur	1.00	8.77	8.25	0.52	5.96
SDN	Patdi	1.00	4.97	4.78	0.19	3.87
SDN	Dasada	1.00	0.44	0.44	0.01	1.50
SDN	Bavli	2.00	32.54	31.76	0.78	2.39
DN	Dhrangadhra	7.00	51.89	50.27	1.62	3.13
CIRCLE	Surendranagar	10.00	85.72	82.81	2.90	3.39
CIRCLE	PGVCL	207	1404.58	1373.68	30.89	2.20

6.5 EHT Feeders:

		EHT				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Aji Industrial	1	36.87	36.87	0.00	0.00
DN	Rajkot City-1	1	36.87	36.87	0.00	0.00
SDN	Udyognagar	1	11.71	11.71	0.00	0.00
DN	Rajkot City-2	1	11.71	11.71	0.00	0.00
SDN	Vavadi	2	50.93	50.93	0.00	0.00
DN	Rajkot City-3	2	50.93	50.93	0.00	0.00
CIRCLE	Rajkot City	4	99.51	99.51	0.00	0.00
SDN	Gondal Rural	1.00	0.00	0.00	0.00	0.00
SDN	Gondal Rural-2	0.00	7.91	7.91	0.00	0.00
SDN	Vasavad	1.00	0.91	0.91	0.00	0.00
SDN	Kotda	0.00	0.00	0.00	0.00	0.00
DN	Gondal	2.00	8.82	8.82	0.00	0.00
SDN	Paddhari	2.00	29.02	29.02	0.00	0.00
SDN	Kuvadava	1.00	55.52	55.52	0.00	0.00
SDN	Pardi	1.00	13.54	13.54	0.00	0.00
DN	Rajkot Rural	4.00	98.08	98.08	0.00	0.00
SDN	Vichhiya	1.00	4.72	4.72	0.00	0.00
SDN	Tramba	1.00	3.22	3.22	0.00	0.00
DN	Jasdan	2.00	7.94	7.94	0.00	0.00
CIRCLE	Rajkot Rural	8.00	114.84	114.84	0.00	0.00
SDN	Morbi Rural	1.00	15.14	15.14	0.00	0.00
SDN	Lalpar	9.00	159.27	159.27	0.00	0.00

	SDN /DIVISION/CIRCLE	EHT				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Tankara	1.00	19.75	19.75	0.00	0.00
SDN	Shanala	2.00	34.85	34.85	0.00	0.00
SDN	Mota Dhahisara	1.00	51.77	51.77	0.00	0.00
DN	Morbi	14.00	280.78	280.78	0.00	0.00
DN	Halvad	0.00	0.00	0.00	0.00	0.00
SDN	Wankaner Town	5.00	116.24	116.24	0.00	0.00
SDN	Wankaner Rural-1	1.00	24.21	24.21	0.00	0.00
SDN	Wankaner Rural-2	2.00	28.92	28.92	0.00	0.00
DN	Wankaner	8.00	169.38	169.38	0.00	0.00
CIRCLE	Morbi	22.00	450.16	450.16	0.00	0.00
SDN	Kamlabaug	1.00	2.96	2.96	0.00	0.00
DN	Porbandar City	1.00	2.96	2.96	0.00	0.00
SDN	Ranavav	1.00	7.78	7.78	0.00	0.00
DN	Porbandar Rural	1.00	7.78	7.78	0.00	0.00
DN	Mangrol	0.00	0.00	0.00	0.00	0.00
CIRCLE	Porbandar	2.00	10.74	10.74	0.00	0.00
SDN	Satrasta	1.00	12.52	12.52	0.00	0.00
DN	Jamnagar City-1	1.00	12.52	12.52	0.00	0.00
SDN	Sikka	3.00	85.11	85.11	0.00	0.00
SDN	Shapar	1.00	43.67	43.67	0.00	0.00
DN	Jamnagar City-2	4.00	128.78	128.78	0.00	0.00
SDN	Dhrol Rural	1.00	0.00	0.00	0.00	0.00
DN	Jamnagar Rural	1.00	0.00	0.00	0.00	0.00
SDN	Khambhalia(R)	3.00	69.01	69.01	0.00	0.00
DN	Khambhaliya	3.00	69.01	69.01	0.00	0.00
SDN	Bhatia	1.00	2.82	2.82	0.00	0.00
SDN	Okha	1.00	6.31	6.31	0.00	0.00
DN	Dwarka	2.00	9.13	9.13	0.00	0.00
CIRCLE	Jamnagar	11.00	219.45	219.45	0.00	0.00
SDN	Shapur	1.00	0.42	0.42	0.00	0.00
DN	Junagadh-2	1.00	0.42	0.42	0.00	0.00
SDN	Veraval Town	1.00	11.02	11.02	0.00	0.00
SDN	Prabhas Patan	0.00	0.00	0.00	0.00	0.00
SDN	Pranchi	1.00	84.44	84.44	0.00	0.00
SDN	Sutrapada	1.00	2.83	2.83	0.00	0.00
DN	Veraval	3.00	98.30	98.30	0.00	0.00
CIRCLE	Junagadh	4.00	98.72	98.72	0.00	0.00
SDN	Khavda	2.00	6.34	6.34	0.00	0.00
SDN	Kukma	2.00	22.16	22.16	0.00	0.00
DN	Bhuj	4.00	28.51	28.51	0.00	0.00
SDN	Mundra-1	6.00	194.03	194.03	0.00	0.00
SDN	Mundra-2	1.00	105.19	105.19	0.00	0.00
DN	Mandvi	7.00	299.22	299.22	0.00	0.00
SDN	Naliya	1.00	2.45	2.45	0.00	0.00
DN	Nakhtrana	1.00	2.45	2.45	0.00	0.00
CIRCLE	Bhuj	12.00	330.18	330.18	0.00	0.00
SDN	Anjar Town	1.00	33.11	33.11	0.00	0.00
SDN	Anjar R-1	6.00	107.08	107.08	0.00	0.00
SDN	Anjar R-2	5.00	283.11	283.11	0.00	0.00
DN	Anjar	12.00	423.30	423.30	0.00	0.00
SDN	Adipur	4.00	20.45	20.45	0.00	0.00
SDN	Kandla	3.00	96.43	96.43	0.00	0.00

	SDN /DIVISON/CIRCLE	EHT				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Rambaug	6.00	57.26	57.26	0.00	0.00
DN	Gandhidham	13.00	174.13	174.13	0.00	0.00
SDN	Bachau	3.00	57.59	57.59	0.00	0.00
SDN	Bhimasar	2.00	48.03	48.03	0.00	0.00
SDN	Samkhiyali	7.00	258.58	258.58	0.00	0.00
DN	Bhachau	12.00	364.20	364.20	0.00	0.00
CIRCLE	Anjar	37.00	961.64	961.64	0.00	0.00
SDN	Khargate	1.00	19.82	19.82	0.00	0.00
SDN	Diamond	1.00	18.19	18.19	0.00	0.00
DN	Bhavnagar City-1	2.00	38.00	38.00	0.00	0.00
SDN	Vallabhipur	1.00	111.21	111.21	0.00	0.00
SDN	Shihor Rural	2.00	93.46	93.46	0.00	0.00
SDN	Sanosara	1.00	0.36	0.36	0.00	0.00
DN	Bhavnagar Rural	4.00	205.04	205.04	0.00	0.00
SDN	Trapaj	1.00	42.95	42.95	0.00	0.00
DN	Palitana	1.00	42.95	42.95	0.00	0.00
SDN	Chitra	1.00	44.16	44.16	0.00	0.00
SDN	Mamsa	1.00	19.73	19.73	0.00	0.00
SDN	Ghogha	0.00	0.00	0.00	0.00	0.00
DN	Bhavnagar City-2	2.00	63.89	63.89	0.00	0.00
CIRCLE	Bhavnagar	9.00	349.88	349.88	0.00	0.00
SDN	Barwala	1.00	76.09	76.09	0.00	0.00
SDN	Paliyad	2.00	8.99	8.99	0.00	0.00
SDN	Ranpur	2.00	1.68	1.68	0.00	0.00
DN	Botad	5.00	86.76	86.76	0.00	0.00
SDN	Gadhada R2	1.00	22.06	22.06	0.00	0.00
DN	Gadhada	1.00	22.06	22.06	0.00	0.00
CIRCLE	Botad	6.00	108.83	108.83	0.00	0.00
SDN	Lathi	1.00	15.55	15.55	0.00	0.00
SDN	Damnagar	1.00	1.58	1.58	0.00	0.00
SDN	Babra Rural	1.00	2.85	2.85	0.00	0.00
DN	Amreli-1	3.00	19.98	19.98	0.00	0.00
SDN	Savarkundla Town	1.00	0.22	0.22	0.00	0.00
SDN	Savarkundla Rural	0.00	0.00	0.00	0.00	0.00
SDN	Rajula Town	1.00	47.52	47.52	0.00	0.00
SDN	Jafrabad	3.00	262.08	262.08	0.00	0.00
DN	Savarkundla	5.0	309.8	309.8	0.0	0.0
CIRCLE	Amreli	8.0	329.8	329.8	0.000	0.00
SDN	Surendranagar City-1	1.00	124.56	124.56	0.00	0.00
SDN	S'Nagar City-2	0.00	0.00	0.00	0.00	0.00
SDN	Joravnagar	0.00	0.00	0.00	0.00	0.00
SDN	Wadhwan	0.00	0.00	0.00	0.00	0.00
SDN	Muli	1.00	14.90	14.90	0.00	0.00
SDN	Chotila	0.00	0.00	0.00	0.00	0.00
SDN	Than	1.00	14.98	14.98	0.00	0.00
SDN	S'Nagar-Rural	1.00	152.46	152.46	0.00	0.00
SDN	Lakhtar	1.00	297.73	297.73	0.00	0.00
DN	Surendranagar	5.00	604.64	604.64	0.00	0.00
SDN	Limbdi-Town	0.00	0.00	0.00	0.00	0.00
SDN	Limbdi-Rural	2.00	18.95	18.95	0.00	0.00
SDN	Chuda	0.00	0.00	0.00	0.00	0.00
SDN	Sayla	1.00	5.97	5.97	0.00	0.00

		EHT				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Limbdi	3.00	24.92	24.92	0.00	0.00
SDN	Dhrangadhra Rural	0.00	0.00	0.00	0.00	0.00
SDN	Dhrangadhra Town	0.00	0.00	0.00	0.00	0.00
SDN	Rajsitapur	1.00	33.73	33.73	0.00	0.00
DN	Dhrangadhra	1.00	33.73	33.73	0.00	0.00
CIRCLE	Surendranagar	9.00	663.29	663.29	0.00	0.00
CIRCLE	PGVCL	132	3737.04	3737.04	0.00	0.00

6.6 SST Feeders:

		SST				
	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Sorathiya Wadi	1	0.02	0.02	0.00	1.14
SDN	Aji-1	1	0.04	0.04	0.00	3.51
SDN	Aji Industrial	2	0.06	0.06	0.00	0.99
DN	Rajkot City-1	4	0.11	0.11	0.00	1.82
SDN	Pradhuman Nagar	1	0.05	0.05	0.00	0.22
SDN	Udyognagar	2	0.07	0.07	0.00	1.38
SDN	Laxminagar	1	0.03	0.03	0.00	0.74
SDN	Bedinaka	1	0.01	0.01	0.00	0.97
DN	Rajkot City-2	5	0.15	0.15	0.00	0.87
SDN	Vavadi	5	0.19	0.18	0.00	2.19
SDN	Kalawad Rd.	1	0.05	0.05	0.00	0.25
SDN	Mavadi	1	0.02	0.02	0.00	1.96
SDN	Madhapar	2	0.06	0.06	0.00	2.85
SDN	Nana Mava	1	0.03	0.03	0.00	1.90
SDN	Raiya Road	1	0.02	0.02	0.00	1.79
DN	Rajkot City-3	11	0.36	0.36	0.01	1.97
CIRCLE	Rajkot City	20	0.63	0.62	0.01	1.68
SDN	Gondal Town	2.00	0.11	0.10	0.01	5.47
SDN	Gondal Rural	5.00	0.15	0.14	0.01	7.55
SDN	Gondal Rural-2	6.00	0.08	0.07	0.01	7.36
SDN	Vasavad	6.00	0.15	0.14	0.01	5.52
SDN	Kotda	3.00	0.07	0.06	0.00	6.49
DN	Gondal	22.00	0.55	0.51	0.04	6.45
SDN	Dhoraji Town	2.00	0.09	0.08	0.00	5.27
SDN	Dhoraji Rural	4.00	0.08	0.08	0.00	4.16
SDN	Upleta Town	1.00	0.05	0.04	0.00	5.86
SDN	Upleta Rural	6.00	0.09	0.09	0.00	5.19
SDN	Bhayavadar	6.00	0.27	0.25	0.01	4.72
DN	Dhoraji	19.00	0.57	0.54	0.03	4.89
SDN	Paddhari	9.00	0.19	0.17	0.01	6.78
SDN	Shapar	5.00	0.12	0.12	0.01	4.97
SDN	Lodhika	3.00	0.07	0.07	0.00	6.20
SDN	Metoda	4.00	0.09	0.08	0.01	10.56
SDN	Kuvadava	4.00	0.12	0.12	0.01	6.74
SDN	Ronki	7.00	0.90	0.81	0.09	10.07
SDN	Pardi	4.00	0.34	0.31	0.03	9.59
DN	Rajkot Rural	36.00	1.84	1.68	0.16	8.95

	SDN /DIVISON/CIRCLE	SST				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Vichhiya	8.00	0.16	0.16	0.00	1.44
SDN	Jasdan	4.00	0.15	0.15	0.00	1.17
SDN	Sardhar	4.00	0.10	0.09	0.00	1.43
SDN	Atkot	8.00	0.15	0.14	0.00	1.71
SDN	Tramba	5.00	0.09	0.09	0.00	1.28
DN	Jasdan	29.00	0.64	0.63	0.01	1.41
SDN	Jamkandorna	4.00	0.07	0.07	0.00	4.74
SDN	Jetpur Town	3.00	0.84	0.80	0.03	4.11
SDN	Jetpur Rural	5.00	0.09	0.08	0.00	1.87
SDN	Mandlikpur	4.00	0.20	0.10	0.10	50.90
SDN	Jamkandorna 2	4.00	0.08	0.08	0.01	6.43
DN	Jetpur	20.00	1.28	1.13	0.15	11.55
CIRCLE	Rajkot Rural	126.00	4.88	4.49	0.39	7.89
SDN	Morbi Town-1		0.00	0.00	0.00	0.00
SDN	Nazarbaug	1.00	0.12	0.14	-0.02	-16.66
SDN	Morbi Rural	6.00	0.37	0.38	-0.01	-2.69
SDN	Lalpar	8.00	0.37	0.35	0.02	4.48
SDN	Tankara	9.00	0.25	0.25	0.01	2.58
SDN	Shanala	9.00	0.14	0.12	0.02	15.19
SDN	Mota Dhahisara	5.00	0.16	0.15	0.01	5.15
SDN	Jetpar	6.00	0.15	0.14	0.01	7.86
DN	Morbi	44.00	1.56	1.53	0.04	2.24
SDN	Sara	6.00	0.11	0.11	0.00	2.36
SDN	Halvad Town	11.00	0.75	0.74	0.01	0.88
SDN	Halvad Rural	6.00	0.10	0.09	0.00	1.20
SDN	Charadava	8.00	0.37	0.34	0.03	7.63
DN	Halvad	31.00	1.32	1.28	0.04	2.90
SDN	Wankaner Town	5.00	0.27	0.27	0.00	0.38
SDN	Wankaner Rural-1	7.00	0.12	0.11	0.01	9.67
SDN	Wankaner Rural-2	13.00	0.55	0.51	0.04	7.64
DN	Wankaner	25.00	0.94	0.88	0.05	5.84
CIRCLE	Morbi	100.00	3.82	3.69	0.13	3.35
SDN	Udhyognagar	3.00	0.06	0.06	0.00	2.62
SDN	Kirtimandir					
SDN	Kamlabaug	2.00	0.17	0.16	0.01	4.69
SDN	Coastal	2.00	0.04	0.03	0.00	2.91
DN	Porbandar City	7.00	0.26	0.25	0.01	3.96
SDN	Kutiyana	4.00	0.09	0.09	0.00	2.02
SDN	Bantwa	4.00	0.07	0.07	0.00	2.49
SDN	Bagvadar	7.00	0.22	0.22	0.01	2.48
SDN	Ranavav	7.00	0.38	0.37	0.01	3.41
SDN	Rana-Kandorna	4.00	0.08	0.08	0.00	1.72
DN	Porbandar Rural	26.00	0.85	0.83	0.02	2.77
SDN	Keshod Town	1.00	0.02	0.02	0.00	2.72
SDN	Keshod Rural-1	5.00	0.14	0.14	0.00	2.39
SDN	Keshod Rural-2	5.00	0.14	0.13	0.00	2.74
SDN	Maliya Hatina	5.00	0.13	0.13	0.00	1.70
DN	Keshod	16.00	0.43	0.42	0.01	2.31
SDN	Chorwad	4.00	0.11	0.10	0.00	2.25
SDN	Mangrol Town	1.00	0.05	0.05	0.00	2.80
SDN	Mangrol Rural	1.00	0.03	0.03	0.00	3.21
SDN	Madhavpur	3.00	0.09	0.09	0.00	-0.97

	SDN /DIVISON/CIRCLE	SST				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Mangrol	9.00	0.28	0.28	0.00	1.46
CIRCLE	Porbandar	58.00	1.83	1.78	0.05	2.64
SDN	Central Zone	1.00	0.07	0.07	0.00	2.21
SDN	Patel Colony	0.00	0.01	0.01	0.00	8.15
SDN	Darbagadh	1.00	0.03	0.03	0.00	12.64
SDN	Satrasta	3.00	0.23	0.21	0.02	7.19
SDN	Hapa	6.00	0.36	0.33	0.04	10.46
DN	Jamnagar City-1	11.00	0.71	0.65	0.06	8.63
SDN	Khambhalia Gate	0.00	0.00	0.00	0.00	0.00
SDN	Industrial - Gidc	4.00	0.11	0.10	0.01	8.66
SDN	Jamnagar Rural	7.00	0.15	0.14	0.02	10.17
SDN	Sikka	5.00	0.10	0.08	0.02	17.90
SDN	Shapar	2.00	0.04	0.04	0.00	8.08
SDN	Nagarseem	0.00	0.00	0.00	0.00	0.00
DN	Jamnagar City-2	18.00	0.40	0.35	0.05	11.46
SDN	Jodiya	3.00	0.06	0.06	0.01	7.71
SDN	Dhrol Rural	4.00	0.08	0.08	0.00	5.56
SDN	Kalawad (West)	5.00	0.10	0.09	0.01	8.54
SDN	Kalawad (East)	3.00	0.11	0.11	0.01	5.54
SDN	Dhrol Town	4.00	0.14	0.13	0.01	5.87
SDN	Nikawa	7.00	0.14	0.12	0.02	11.82
SDN	Amran	2.00	0.06	0.06	0.00	5.61
DN	Jamnagar Rural	28.00	0.69	0.64	0.05	7.49
SDN	Khambhalia(R)	3.00	0.15	0.13	0.02	15.66
SDN	Khambhalia(T)	2.00	0.09	0.09	0.00	4.65
SDN	Vadatra	6.00	0.11	0.10	0.02	15.82
SDN	Bhanvad	4.00	0.10	0.11	0.00	-4.21
DN	Khambhaliya	15.00	0.46	0.42	0.04	9.00
SDN	Jamjodhpur (East)	7.00	0.13	0.12	0.01	6.86
SDN	Jamjodhpur (West)	7.00	0.16	0.14	0.02	11.03
SDN	Lalpur	6.00	0.12	0.11	0.01	8.77
SDN	Verad	7.00	0.34	0.31	0.03	8.66
SDN	Shamana	4.00	0.08	0.07	0.01	9.64
DN	Jamjodhpur	31.00	0.82	0.74	0.07	8.96
SDN	Bhatia	4.00	0.28	0.26	0.02	5.46
SDN	Dwarka	3.00	0.06	0.06	0.00	7.37
SDN	Okha	1.00	0.02	0.01	0.01	62.92
SDN	Kalyanpur	5.00	0.11	0.10	0.01	10.07
DN	Dwarka	13.00	0.47	0.42	0.04	9.22
CIRCLE	Jamnagar	116.00	3.54	3.23	0.32	8.93
SDN	Central	0.00	0.00	0.00	0.00	0.00
SDN	GIDC	1.00	0.04	0.04	0.00	2.02
SDN	Gandhigram	1.00	0.03	0.03	0.00	2.71
SDN	Satellite	1.00	0.06	0.06	0.00	3.77
DN	Junagadh City	3.00	0.13	0.12	0.00	2.96
SDN	Visavadar-1	8.00	0.39	0.38	0.01	3.14
SDN	Visavadar-2	6.00	0.15	0.15	0.00	1.15
SDN	Bhesan	8.00	0.19	0.18	0.00	2.22
SDN	Bilkha	3.00	0.10	0.09	0.00	2.30
SDN	Junagadh Rural	2.00	0.07	0.07	0.00	3.42
DN	Junagadh-1	27.00	0.89	0.87	0.02	2.55
SDN	Shapur	4.00	0.56	0.55	0.01	1.51

	SDN /DIVISON/CIRCLE	SST				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Manavadar-1	3.00	0.07	0.07	0.00	1.45
SDN	Manavadar-2	3.00	0.24	0.24	0.00	1.53
SDN	Mendarda	6.00	0.13	0.13	0.00	1.10
SDN	Vanthali	3.00	0.08	0.08	0.01	9.65
DN	Junagadh-2	19.00	1.09	1.07	0.02	2.09
SDN	Veraval-Gidc	3.00	0.14	0.14	0.00	0.59
SDN	Veraval Town	1.00	0.06	0.06	0.00	0.95
SDN	Prabhas Patan	2.00	0.04	0.04	0.00	0.40
SDN	Talala	5.00	0.20	0.19	0.00	0.76
SDN	Pranchi	5.00	0.28	0.28	0.00	0.55
SDN	Ankolwadi	5.00	0.11	0.11	0.00	1.57
SDN	Sutrapada	3.00	0.05	0.05	0.00	1.18
DN	Veraval	24.00	0.87	0.87	0.01	0.79
CIRCLE	Junagadh	73.00	2.98	2.93	0.06	1.88
SDN	Bhuj City-1	2.00	0.22	0.23	-0.01	-2.35
SDN	Bhuj City-2	0.00	0.00	0.00	0.00	0.00
SDN	Bhuj Rural	6.00	0.12	0.12	0.00	1.66
SDN	Madhapar	9.00	0.34	0.34	0.00	0.50
SDN	Deshalpar	6.00	0.14	0.14	0.00	2.80
SDN	Khavda	4.00	0.11	0.10	0.01	6.10
SDN	Kukma	5.00	0.09	0.09	0.00	0.26
DN	Bhuj	32.00	1.03	1.02	0.01	0.90
SDN	Mandvi Town	4.00	0.13	0.13	0.00	0.98
SDN	Mandvi Rural	6.00	0.25	0.25	0.00	1.09
SDN	Dahisara	3.00	0.11	0.11	0.00	1.07
SDN	Mundra-1	6.00	0.32	0.31	0.01	1.78
SDN	Mundra-2	4.00	0.06	0.06	0.00	-0.83
SDN	Gadhasisa	4.00	0.07	0.07	0.00	1.16
DN	Mandvi	27.00	0.94	0.93	0.01	1.19
SDN	Nakhatrana	6.00	0.32	0.31	0.01	1.73
SDN	Ravapar	4.00	0.08	0.08	0.00	1.49
SDN	Dayapar	4.00	0.11	0.11	0.00	2.26
SDN	Kothara	7.00	0.12	0.12	0.00	1.66
SDN	Naliya	2.00	0.06	0.05	0.00	1.72
DN	Nakhtrana	23.00	0.69	0.68	0.01	1.77
CIRCLE	Bhuj	82.00	2.67	2.63	0.03	1.23
SDN	Anjar Town	1.00	0.25	0.24	0.01	4.27
SDN	Anjar R-1	6.00	0.10	0.09	0.01	6.37
SDN	Anjar R-2	8.00	0.37	0.35	0.02	4.65
DN	Anjar	15.00	0.72	0.69	0.03	4.76
SDN	Adipur	2.00	0.04	0.04	0.00	2.18
SDN	Gandhidham	0.00	0.00	0.00	0.00	0.00
SDN	Kandla	2.00	0.07	0.07	0.00	3.67
SDN	Rambaug	3.00	0.07	0.07	0.00	4.45
DN	Gandhidham	7.00	0.18	0.17	0.01	3.66
SDN	Bachau	7.00	0.13	0.12	0.00	2.30
SDN	Rapar	9.00	0.09	0.09	0.00	1.32
SDN	Bhimasar	2.00	0.04	0.03	0.01	21.31
SDN	Samkhiyali	4.00	0.19	0.18	0.00	2.05
DN	Bhachau	22.00	0.44	0.43	0.02	3.54
CIRCLE	Anjar	44.00	1.35	1.29	0.06	4.21
SDN	Power House	1.00	0.26	0.26	0.00	0.30

	SDN /DIVISON/CIRCLE	SST				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Khargate	0.00	0.00	0.00	0.00	0.00
SDN	Diamond	2.00	0.03	0.03	0.00	0.24
SDN	Kalanala	0.00	0.00	0.00	0.00	0.00
SDN	Kumbharwada	0.00	0.00	0.00	0.00	0.00
DN	Bhavnagar City-1	3.00	0.29	0.29	0.00	0.29
SDN	Vartej	4.00	0.28	0.27	0.00	1.68
SDN	Vallabhipur	4.00	0.39	0.37	0.02	5.00
SDN	Shihor Rural	8.00	0.19	0.19	0.01	3.92
SDN	Shihor Town	0.00	0.00	0.00	0.00	-6.52
SDN	Sanosara	3.00	0.07	0.07	0.00	0.46
DN	Bhavnagar Rural	19.00	0.93	0.90	0.03	3.46
SDN	Mahuva T	1.00	0.04	0.04	0.00	2.95
SDN	Mahuva R1	5.00	0.09	0.09	0.00	4.33
SDN	Mahuva R2	4.00	0.19	0.18	0.01	3.60
SDN	Jesar	2.00	0.04	0.04	0.00	5.28
SDN	Bagdana	4.00	0.10	0.09	0.00	4.42
DN	Mahuva	16.00	0.47	0.45	0.02	4.02
SDN	Palitana Town	2.00	0.08	0.08	0.00	0.89
SDN	Talaja	3.00	0.02	0.02	0.00	2.19
SDN	Gariyadhar-1	2.00	0.05	0.05	0.00	2.20
SDN	Palitana Rural	3.00	0.22	0.21	0.01	6.49
SDN	Trapaj	3.00	0.05	0.05	0.00	1.86
SDN	Ghodidhal	4.00	0.07	0.07	0.00	1.94
SDN	Gariyadhar-2	3.00	0.06	0.05	0.00	1.51
SDN	Talaja 2	3.00	0.07	0.07	0.00	2.00
DN	Palitana	23.00	0.63	0.61	0.02	3.41
SDN	Hill Drive	1.00	0.02	0.02	0.00	0.33
SDN	Kaliyabid	0.00	0.00	0.00	0.00	0.00
SDN	Chitra	3.00	0.03	0.03	0.00	0.58
SDN	Mamsa	6.00	0.10	0.10	0.00	0.89
SDN	Ghogha	1.00	0.03	0.03	0.00	1.16
DN	Bhavnagar City-2	11.00	0.18	0.18	0.00	0.82
CIRCLE	Bhavnagar	72.00	2.49	2.42	0.07	3.00
SDN	Botad Town-1	2.00	0.06	0.05	0.00	0.39
SDN	Botad Town-2	1.00	0.01	0.01	0.00	0.65
SDN	Botad Rural	4.00	0.29	0.28	0.01	2.09
SDN	Barwala	3.00	0.12	0.12	0.00	0.54
SDN	Paliyad	3.00	0.13	0.13	0.00	0.30
SDN	Ranpur	4.00	0.08	0.08	0.00	2.19
DN	Botad	17.00	0.68	0.67	0.01	1.33
SDN	Gadhada	3.00	0.04	0.04	0.00	0.51
SDN	Gadhada R2	2.00	0.05	0.05	0.00	-4.11
SDN	Dhasa	5.00	0.22	0.22	0.00	0.20
SDN	Dhola	3.00	0.06	0.06	0.00	0.44
DN	Gadhada	13.00	0.37	0.37	0.00	-0.28
CIRCLE	Botad	30.00	1.05	1.04	0.01	0.76
SDN	Amreli Town	1.00	0.10	0.10	0.00	3.16
SDN	Amreli Rural	6.00	0.14	0.14	0.00	1.90
SDN	Lathi	5.00	0.12	0.11	0.00	0.80
SDN	Chital	4.00	0.83	0.80	0.03	3.56
SDN	Liliya	2.00	0.05	0.05	0.00	0.63
SDN	Babra Town	2.00	0.05	0.04	0.00	1.04

	SDN /DIVISON/CIRCLE	SST				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Damnagar	1.00	0.05	0.05	0.00	1.36
SDN	Babra Rural	4.00	0.09	0.09	0.00	1.65
DN	Amreli-1	25.00	1.42	1.39	0.04	2.77
SDN	Dhari 1	2.00	0.05	0.05	0.00	2.22
SDN	Bagasara	3.00	0.07	0.07	0.00	1.62
SDN	Kukavav	3.00	0.07	0.07	0.00	0.80
SDN	Vadia	7.00	0.13	0.13	0.00	2.27
SDN	Chalala	3.00	0.10	0.10	0.00	2.13
SDN	Dhari 2	6.00	0.14	0.14	0.00	1.48
DN	Amreli-2	24.00	0.56	0.55	0.01	1.77
SDN	Savarkundla Town	3.00	0.21	0.21	0.00	1.16
SDN	Savarkundla Rural	6.00	0.13	0.13	0.00	1.50
SDN	Rajula Town	2.00	0.05	0.05	0.00	2.00
SDN	Jafrabad	3.00	0.08	0.08	0.00	1.49
SDN	Khambha	4.0	0.1	0.1	0.0	1.6
SDN	Vijapadi	3.0	0.1	0.1	0.0	2.1
SDN	Rajula Rural	3.0	0.1	0.1	0.0	2.5
DN	Savarkundla	24.0	0.7	0.7	0.0	1.6
SDN	Una 1	3.0	0.1	0.1	0.0	0.4
SDN	Una 2	3.0	0.1	0.1	0.0	2.2
SDN	Kodinar 1	2.0	0.1	0.1	0.0	3.5
SDN	Una Town	1.0	0.1	0.1	0.0	2.0
SDN	Kodinar 2	7.0	0.1	0.1	0.0	2.0
SDN	Dhokadva	3.0	0.2	0.2	0.0	1.8
SDN	Girgadhda	1.0	0.0	0.0	0.0	2.1
DN	Una	20.0	0.6	0.6	0.0	1.9
CIRCLE	Amreli	93.0	3.30	3.23	0.07	2.18
SDN	Surendranagar City-1	1.00	0.02	0.02	0.00	1.24
SDN	S'Nagar City-2	1.00	0.12	0.12	0.00	0.22
SDN	Joravnagar	0.00	0.00	0.00	0.00	0.00
SDN	Wadhwan	2.00	0.04	0.04	0.00	0.56
SDN	Muli	6.00	0.10	0.10	0.00	1.21
SDN	Chotila	5.00	0.09	0.09	0.00	1.52
SDN	Than	5.00	0.09	0.09	0.00	1.31
SDN	S'Nagar-Rural	3.00	0.06	0.06	0.00	3.35
SDN	Lakhtar	1.00	0.02	0.02	0.00	1.44
DN	Surendranagar	24.00	0.55	0.54	0.01	1.24
SDN	Limbdi-Town	1.00	0.39	0.38	0.00	0.66
SDN	Limbdi-Rural	4.00	0.46	0.45	0.01	2.14
SDN	Chuda	6.00	0.06	0.06	0.00	2.84
SDN	Sayla	6.00	0.16	0.16	0.00	1.26
DN	Limbdi	17.00	1.06	1.04	0.02	1.51
SDN	Dhrangadhra Rural	6.00	0.09	0.09	0.00	2.92
SDN	Dhrangadhra Town	3.00	0.21	0.21	0.00	1.05
SDN	Rajsitapur	5.00	0.11	0.11	0.00	1.24
SDN	Patdi	2.00	0.05	0.05	0.00	1.21
SDN	Dasada	3.00	0.06	0.06	0.00	1.30
SDN	Bavli	8.00	0.15	0.14	0.00	1.61
DN	Dhrangadhra	27.00	0.66	0.65	0.01	1.50
CIRCLE	Surendranagar	68.00	2.26	2.23	0.03	1.44
CIRCLE	PGVCL	882	30.80	29.58	1.22	3.96

6.7 GIDC Feeders:

	SDN /DIVISON/CIRCLE	GIDC				
		No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Metoda	38.00	362.33	347.62	14.71	4.06
DN	Rajkot Rural	38.00	362.33	347.62	14.71	4.06
CIRCLE	Rajkot Rural	38.00	362.33	347.62	14.71	4.06
SDN	Industrial - Gidc	33.00	237.73	227.72	10.01	4.21
DN	Jamnagar City-2	33.00	237.73	227.72	10.01	4.21
CIRCLE	Jamnagar	33.00	237.73	227.72	10.01	4.21
SDN	Bhuj City-2	1.00	3.72	3.71	0.01	0.19
SDN	Bhuj Rural	1.00	1.87	1.86	0.01	0.73
DN	Bhuj	2.00	5.59	5.57	0.02	0.36
SDN	Mundra-1	1.00	1.64	1.62	0.02	1.02
DN	Mandvi	1.00	1.64	1.62	0.02	1.02
CIRCLE	Bhuj	3.00	7.23	7.20	0.04	0.51
SDN	Anjar Town	1.00	4.59	4.54	0.05	1.05
DN	Anjar	1.00	4.59	4.54	0.05	1.05
SDN	Kandla	1.00	7.00	6.86	0.14	1.99
SDN	Rambaug	2.00	6.33	6.18	0.16	2.47
DN	Gandhidham	3.00	13.33	13.03	0.30	2.22
CIRCLE	Anjar	4.00	17.91	17.57	0.34	1.92
SDN	Shihor Town	2.00	10.89	10.40	0.49	4.48
DN	Bhavnagar Rural	2.00	10.89	10.40	0.49	4.48
SDN	Chitra	2.00	9.34	9.31	0.03	0.33
DN	Bhavnagar City-2	2.00	9.34	9.31	0.03	0.33
CIRCLE	Bhavnagar	4.00	20.23	19.71	0.52	2.57
SDN	S'Nagar City-2	1.00	8.07	7.92	0.16	1.93
DN	Surendranagar	1.00	8.07	7.92	0.16	1.93
CIRCLE	Surendranagar	1.00	8.07	7.92	0.16	1.93
CIRCLE	PGVCL	83	653.51	627.74	25.77	3.94

6.8 Overall Subdivisions:

	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Prahlad Plot	11	51.09	44.90	6.19	12.11
SDN	Sorathiya Wadi	18	79.01	73.91	5.10	6.46
SDN	Aji-1	11	69.90	58.48	11.42	16.33
SDN	Aji Industrial	31	215.44	206.68	8.77	4.07
SDN	Milpara	9	55.48	51.34	4.14	7.47
SDN	Aji-2	11	99.27	87.29	11.98	12.06
SDN	Kothariya	9	74.49	55.16	19.33	25.95
DN	Rajkot City-1	100	644.69	577.77	66.92	10.38
SDN	Pradhuman Nagar	13	79.77	73.04	6.73	8.44
SDN	Udyognagar	14	100.79	95.14	5.64	5.60
SDN	Mahila College	11	81.77	77.81	3.96	4.85
SDN	Laxminagar	16	113.45	107.07	6.38	5.63
SDN	Bedinaka	9	81.77	69.54	12.23	14.95
DN	Rajkot City-2	63	457.55	422.60	34.95	7.64
SDN	Vavadi	49	396.50	362.28	34.21	8.63

	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Kalawad Rd.	13	84.94	79.95	4.99	5.88
SDN	Mavadi	9	76.68	70.12	6.55	8.54
SDN	Madhapar	12	124.72	105.04	19.68	15.78
SDN	Nana Mava	13	85.59	80.92	4.67	5.46
SDN	Raiya Road	9	76.61	69.80	6.81	8.89
DN	Rajkot City-3	105	845.04	768.12	76.92	9.10
CIRCLE	Rajkot City	268	1947.28	1768.49	178.79	9.18
SDN	Gondal Town	15	87.20	69.42	17.78	20.39
SDN	Gondal Rural	69	402.65	359.89	42.76	10.62
SDN	Gondal Rural-2	43	111.03	85.24	25.79	23.23
SDN	Vasavad	56	121.69	98.49	23.20	19.06
SDN	Kotda	36	152.36	120.19	32.17	21.11
DN	Gondal	219	874.92	733.22	141.70	16.20
SDN	Dhoraji Town	16	89.72	82.92	6.80	7.57
SDN	Dhoraji Rural	54	108.18	108.44	-0.26	-0.24
SDN	Upleta Town	6	56.48	51.58	4.91	8.69
SDN	Upleta Rural	57	115.27	104.73	10.54	9.15
SDN	Bhayavadar	48	84.86	75.78	9.08	10.70
DN	Dhoraji	181	454.51	423.45	31.06	6.83
SDN	Paddhari	74	269.78	252.77	17.01	6.30
SDN	Shapar	62	522.48	492.77	29.70	5.69
SDN	Lodhika	31	63.99	57.67	6.33	9.89
SDN	Metoda	54	404.92	388.12	16.80	4.15
SDN	Kuvadava	38	278.16	262.61	15.56	5.59
SDN	Ronki	52	154.70	129.76	24.94	16.12
SDN	Pardi	38	236.72	220.12	16.60	7.01
DN	Rajkot Rural	349	1930.75	1803.81	126.93	6.57
SDN	Vichhiya	62	132.50	61.78	70.71	53.37
SDN	Jasdan	41	80.78	64.53	16.25	20.12
SDN	Sardhar	38	74.50	47.20	27.31	36.65
SDN	Atkot	80	161.82	111.24	50.58	31.26
SDN	Tramba	47	99.96	81.66	18.30	18.31
DN	Jasdan	268	549.56	366.41	183.15	33.33
SDN	Jamkandorna	39	70.32	61.45	8.87	12.62
SDN	Jetpur Town	21	138.34	126.82	11.52	8.33
SDN	Jetpur Rural	44	103.24	99.96	3.29	3.18
SDN	Mandlikpur	34	102.37	90.10	12.27	11.99
SDN	Jamkandorna 2	42	57.50	41.11	16.39	28.50
DN	Jetpur	180.00	471.78	419.44	52.34	11.09
CIRCLE	Rajkot Rural	1197.00	4281.51	3746.33	535.18	12.50
SDN	Morbi Town-1	11.00	106.28	96.42	9.86	9.28
SDN	Nazarbaug	16.00	103.27	89.37	13.91	13.47
SDN	Morbi Rural	79.00	801.59	774.95	26.63	3.32
SDN	Lalpar	111.00	1254.66	1218.53	36.13	2.88
SDN	Tankara	84.00	355.03	336.58	18.45	5.20
SDN	Shanala	59.00	394.66	374.40	20.27	5.14
SDN	Mota Dhahisara	27.00	174.58	154.32	20.26	11.60
SDN	Jetpar	84.00	1150.45	1109.82	40.63	3.53
DN	Morbi	471.00	4340.52	4154.39	186.13	4.29
SDN	Sara	65.00	290.61	110.46	180.15	61.99
SDN	Halvad Town	81.00	260.54	202.74	57.80	22.19
SDN	Halvad Rural	59.00	180.81	123.16	57.65	31.89
SDN	Charadava	83.00	317.82	233.09	84.73	26.66

	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Halvad	288.00	1049.79	669.45	380.34	36.23
SDN	Wankaner Town	101.00	1164.57	1126.13	38.45	3.30
SDN	Wankaner Rural-1	83.00	275.12	240.10	35.02	12.73
SDN	Wankaner Rural-2	95.00	496.30	413.44	82.86	16.70
DN	Wankaner	279.00	1935.99	1779.66	156.33	8.08
CIRCLE	Morbi	1038.00	7326.30	6603.50	722.80	9.87
SDN	Udhyognagar	18.00	110.58	105.61	4.98	4.50
SDN	Kirtimandir	6.00	44.42	41.42	3.00	6.74
SDN	Kamlabaug	11.00	39.74	37.24	2.50	6.29
SDN	Coastal	24.00	50.21	42.58	7.64	15.21
DN	Porbandar City	59.00	244.95	226.84	18.11	7.39
SDN	Kutiyaana	31.00	54.34	45.63	8.71	16.02
SDN	Bantwa	33.00	47.46	40.86	6.60	13.91
SDN	Bagvadar	56.00	105.65	85.57	20.08	19.01
SDN	Ranavav	46.00	79.74	65.83	13.91	17.44
SDN	Rana-Kandorna	40.00	72.55	61.86	10.69	14.74
DN	Porbandar Rural	206.00	359.73	299.74	59.99	16.68
SDN	Keshod Town	18.00	57.72	54.05	3.67	6.36
SDN	Keshod Rural-1	49.00	88.56	76.25	12.31	13.90
SDN	Keshod Rural-2	52.00	85.43	73.70	11.72	13.72
SDN	Maliya Hatina	38.00	64.21	46.71	17.50	27.25
DN	Keshod	157.00	295.91	250.71	45.20	15.28
SDN	Chorwad	42.00	139.91	94.37	45.54	32.55
SDN	Mangrol Town	9.00	63.29	55.63	7.66	12.10
SDN	Mangrol Rural	30.00	92.99	71.21	21.78	23.42
SDN	Madhavpur	23.00	50.81	36.54	14.28	28.10
DN	Mangrol	104.00	347.00	257.74	89.26	25.72
CIRCLE	Porbandar	526.00	1247.60	1035.03	212.56	17.04
SDN	Central Zone	16.00	72.02	61.25	10.76	14.95
SDN	Patel Colony	15.00	110.64	63.52	47.12	42.59
SDN	Darbagadh	8.00	66.85	34.94	31.91	47.74
SDN	Satrasa	20.00	88.73	72.92	15.81	17.82
SDN	Hapa	48.00	169.20	137.31	31.89	18.85
DN	Jamnagar City-1	107.00	507.44	369.94	137.50	27.10
SDN	Khambhalia Gate	10.00	83.15	51.13	32.01	38.50
SDN	Industrial - Gidc	42.00	256.35	243.66	12.69	4.95
SDN	Jamnagar Rural	56.00	132.28	87.68	44.60	33.71
SDN	Sikka	46.00	180.61	138.89	41.72	23.10
SDN	Shapar	18.00	104.29	86.31	17.98	17.24
SDN	Nagarseem	14.00	108.74	81.32	27.42	25.22
DN	Jamnagar City-2	186.00	865.42	689.00	176.42	20.39
SDN	Jodiya	25.00	42.11	39.29	2.81	6.68
SDN	Dhrol Rural	48.00	116.98	79.78	37.20	31.80
SDN	Kalawad (West)	56.00	111.26	89.66	21.60	19.41
SDN	Kalawad (East)	39.00	102.08	91.23	10.86	10.64
SDN	Dhrol Town	29.00	54.34	46.24	8.10	14.90
SDN	Nikawa	53.00	99.20	88.77	10.43	10.51
SDN	Amran	19.00	33.56	27.51	6.06	18.05
DN	Jamnagar Rural	269.00	559.53	462.48	97.04	17.34
SDN	Khambhalia(R)	37.00	168.21	113.65	54.55	32.43
SDN	Khambhalia(T)	22.00	78.31	60.25	18.06	23.07
SDN	Vadatra	47.00	102.61	45.82	56.78	55.34
SDN	Bhanvad	36.00	72.21	43.79	28.42	39.36

	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Khambhaliya	142.00	421.33	263.51	157.82	37.46
SDN	Jamjodhpur (East)	57.00	81.29	59.12	22.17	27.27
SDN	Jamjodhpur (West)	44.00	88.42	63.38	25.04	28.32
SDN	Lalpur	53.00	100.30	59.85	40.45	40.33
SDN	Verad	44.00	61.68	40.23	21.45	34.78
SDN	Shamana	35.00	55.39	43.09	12.30	22.20
DN	Jamjodhpur	233.00	387.09	265.67	121.42	31.37
SDN	Bhatia	32.00	73.67	44.66	29.00	39.37
SDN	Dwarka	25.00	63.73	54.12	9.60	15.07
SDN	Okha	12.00	51.91	41.99	9.92	19.11
SDN	Kalyanpur	56.00	109.41	52.64	56.77	51.89
DN	Dwarka	125.00	298.71	193.41	105.30	35.25
CIRCLE	Jamnagar	1062.00	3039.51	2244.01	795.50	26.17
SDN	Central	9.00	48.15	42.17	5.97	12.41
SDN	GIDC	15.00	101.19	93.11	8.09	7.99
SDN	Gandhigram	13.00	76.46	59.62	16.84	22.02
SDN	Satellite	9.00	60.90	57.32	3.58	5.88
DN	Junagadh City	46.00	286.70	252.22	34.48	12.03
SDN	Visavadar-1	68.00	129.05	109.24	19.81	15.35
SDN	Visavadar-2	58.00	118.12	112.16	5.96	5.04
SDN	Bhesan	72.00	133.19	119.17	14.03	10.53
SDN	Bilkha	35.00	76.74	81.57	-4.83	-6.29
SDN	Junagadh Rural	40.00	99.12	104.52	-5.40	-5.45
DN	Junagadh-1	273.00	556.23	526.66	29.57	5.32
SDN	Shapur	26.00	47.25	49.92	-2.67	-5.64
SDN	Manavadar-1	30.00	49.00	45.32	3.68	7.52
SDN	Manavadar-2	34.00	55.47	54.96	0.51	0.91
SDN	Mendarda	48.00	103.51	109.95	-6.45	-6.23
SDN	Vanthali	33.00	57.81	56.82	0.99	1.71
DN	Junagadh-2	171.00	313.03	316.97	-3.94	-1.26
SDN	Veraval-Gidc	25.00	143.67	131.88	11.80	8.21
SDN	Veraval Town	13.00	69.63	55.91	13.72	19.70
SDN	Prabhas Patan	30.00	130.97	67.24	63.73	48.66
SDN	Talala	33.00	82.94	71.43	11.51	13.88
SDN	Pranchi	39.00	171.70	127.10	44.59	25.97
SDN	Ankolwadi	34.00	68.12	56.05	12.07	17.72
SDN	Sutrapada	25.00	74.83	32.66	42.17	56.36
DN	Veraval	199.00	741.86	542.26	199.60	26.91
CIRCLE	Junagadh	689.00	1897.83	1638.11	259.72	13.69
SDN	Bhuj City-1	20.00	85.22	81.85	3.37	3.96
SDN	Bhuj City-2	12.00	78.70	69.85	8.84	11.24
SDN	Bhuj Rural	48.00	159.85	121.27	38.58	24.14
SDN	Madhapar	67.00	255.10	197.51	57.59	22.58
SDN	Deshalpar	53.00	142.30	129.31	12.99	9.13
SDN	Khavda	19.00	43.08	39.63	3.45	8.02
SDN	Kukma	63.00	373.78	247.26	126.52	33.85
DN	Bhuj	282.00	1138.03	886.68	251.35	22.09
SDN	Mandvi Town	36.00	133.75	114.14	19.60	14.66
SDN	Mandvi Rural	51.00	169.01	141.84	27.17	16.07
SDN	Dahisara	31.00	134.96	121.15	13.81	10.23
SDN	Mundra-1	46.00	346.82	330.74	16.08	4.64
SDN	Mundra-2	44.00	248.35	226.40	21.95	8.84
SDN	Gadhasisa	30.00	110.65	97.60	13.05	11.79

	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
DN	Mandvi	238.00	1143.54	1031.88	111.66	9.76
SDN	Nakhatrana	61.00	215.17	192.79	22.37	10.40
SDN	Ravapar	44.00	128.83	108.48	20.35	15.80
SDN	Dayapar	30.00	39.78	27.40	12.38	31.13
SDN	Kothara	75.00	234.87	199.55	35.32	15.04
SDN	Naliya	20.00	49.81	40.53	9.28	18.63
DN	Nakhtrana	230.00	668.46	568.76	99.70	14.92
CIRCLE	Bhuj	750.00	2950.03	2487.32	462.71	15.69
SDN	Anjar Town	17.00	146.99	130.56	16.43	11.18
SDN	Anjar R-1	76.00	380.85	320.30	60.55	15.90
SDN	Anjar R-2	83.00	609.93	496.36	113.57	18.62
DN	Anjar	176.00	1137.77	947.22	190.55	16.75
SDN	Adipur	20.00	123.87	92.98	30.89	24.94
SDN	Gandhidham	22.00	158.65	137.90	20.75	13.08
SDN	Kandla	26.00	264.50	256.21	8.29	3.14
SDN	Rambaug	40.00	281.06	256.09	24.97	8.88
DN	Gandhidham	108.00	828.08	743.17	84.91	10.25
SDN	Bachau	83.00	491.52	336.04	155.49	31.63
SDN	Rapar	59.00	187.97	89.01	98.97	52.65
SDN	Bhimasar	30.00	148.42	92.73	55.68	37.52
SDN	Samkhiyali	37.00	395.77	338.17	57.60	14.55
DN	Bhachau	209.00	1223.68	855.94	367.74	30.05
CIRCLE	Anjar	493.00	3189.53	2546.33	643.19	20.17
SDN	Power House	9.00	58.52	54.11	4.40	7.53
SDN	Khargate	9.00	70.81	66.05	4.76	6.73
SDN	Diamond	13.00	74.56	68.48	6.07	8.14
SDN	Kalanala	14.00	83.80	78.93	4.88	5.82
SDN	Kumbharwada	10.00	63.75	59.55	4.21	6.60
DN	Bhavnagar City-1	55.00	351.44	327.11	24.32	6.92
SDN	Vartej	37.00	181.95	147.36	34.59	19.01
SDN	Vallabhipur	32.00	177.37	159.05	18.32	10.33
SDN	Shihor Rural	85.00	510.13	461.03	49.10	9.62
SDN	Shihor Town	13.00	79.18	71.44	7.74	9.78
SDN	Sanosara	32.00	72.46	56.19	16.27	22.46
DN	Bhavnagar Rural	199.00	1021.09	895.06	126.03	12.34
SDN	Mahuva T	11.00	77.19	67.97	9.22	11.94
SDN	Mahuva R1	46.00	146.09	111.17	34.92	23.90
SDN	Mahuva R2	42.00	131.89	102.66	29.24	22.17
SDN	Jesar	27.00	69.07	36.20	32.87	47.59
SDN	Bagdana	39.00	68.77	47.31	21.46	31.21
DN	Mahuva	165.00	493.01	365.31	127.70	25.90
SDN	Palitana Town	12.00	54.44	47.79	6.66	12.23
SDN	Talaja	37.00	71.43	46.93	24.50	34.30
SDN	Gariyadhar-1	18.00	42.20	35.36	6.84	16.22
SDN	Palitana Rural	26.00	74.97	45.51	29.46	39.30
SDN	Trapaj	40.00	133.84	110.50	23.34	17.44
SDN	Ghodidhal	35.00	61.22	46.09	15.13	24.71
SDN	Gariyadhar-2	29.00	52.24	42.61	9.63	18.43
SDN	Talaja 2	24.00	66.15	53.56	12.59	19.03
DN	Palitana	221.00	556.48	428.34	128.14	23.03
SDN	Hill Drive	9.00	60.81	55.89	4.92	8.10
SDN	Kaliyabid	7.00	53.55	50.80	2.75	5.13
SDN	Chitra	28.00	189.59	177.21	12.38	6.53

	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Mamsa	50.00	193.45	159.77	33.69	17.41
SDN	Ghogha	15.00	55.36	39.12	16.24	29.33
DN	Bhavnagar City-2	109.00	552.77	482.79	69.97	12.66
CIRCLE	Bhavnagar	749.00	2974.78	2498.61	476.17	16.01
SDN	Botad Town-1	10.00	55.79	47.15	8.64	15.49
SDN	Botad Town-2	20	75.73	65.47	10.25	13.54
SDN	Botad Rural	40	117.01	90.30	26.71	22.82
SDN	Barwala	25	149.73	119.98	29.75	19.87
SDN	Paliyad	36	130.51	92.10	38.41	29.43
SDN	Ranpur	42	135.96	92.64	43.32	31.86
DN	Botad	173	664.72	507.63	157.09	23.63
SDN	Gadhada	35	80.14	56.93	23.20	28.96
SDN	Gadhada R2	23	81.92	71.06	10.86	13.25
SDN	Dhasa	44	115.57	97.82	17.75	15.36
SDN	Dhola	27	53.05	33.60	19.45	36.66
DN	Gadhada	129	330.68	259.41	71.26	21.55
CIRCLE	Botad	302	995.39	767.04	228.35	22.94
SDN	Amreli Town	13	124.35	112.19	12.16	9.78
SDN	Amreli Rural	60	100.15	90.45	9.70	9.69
SDN	Lathi	47	143.11	125.77	17.35	12.12
SDN	Chital	33	67.38	58.81	8.56	12.71
SDN	Liliya	19	43.99	38.29	5.70	12.95
SDN	Babra Town	33	106.68	90.08	16.59	15.56
SDN	Damnagar	23	69.94	59.62	10.32	14.75
SDN	Babra Rural	37	76.91	63.81	13.10	17.03
DN	Amreli-1	265.00	732.51	639.03	93.47	12.76
SDN	Dhari 1	19	51.31	47.03	4.27	8.33
SDN	Bagasara	40	89.91	74.62	15.29	17.01
SDN	Kukavav	39	64.70	58.85	5.84	9.03
SDN	Vadia	58	92.64	82.55	10.08	10.88
SDN	Chalala	34	64.52	51.95	12.57	19.48
SDN	Dhari 2	50	85.64	71.54	14.10	16.46
DN	Amreli-2	240.00	448.70	386.54	62.16	13.85
SDN	Savarkundla Town	18	59.24	53.62	5.62	9.49
SDN	Savarkundla Rural	37	84.36	68.37	15.99	18.95
SDN	Rajula Town	16	112.56	98.21	14.35	12.75
SDN	Jafrabad	27.00	331.80	311.20	20.60	6.21
SDN	Khambha	36.0	55.35	42.72	12.6	22.8
SDN	Vijapadi	33.0	88.55	65.96	22.6	25.5
SDN	Rajula Rural	32.0	63.16	40.61	22.5	35.7
DN	Savarkundla	199.0	795.00	680.68	114.3	14.4
SDN	Una 1	23.0	63.50	40.96	22.5	35.5
SDN	Una 2	23.0	62.21	41.41	20.8	33.4
SDN	Kodinar 1	19.0	89.32	47.48	41.8	46.8
SDN	Una Town	11.0	45.18	35.67	9.5	21.1
SDN	Kodinar 2	60.0	179.37	92.92	86.4	48.2
SDN	Dhokadva	30.0	71.19	50.73	20.5	28.7
SDN	Girgadhda	18.0	53.31	41.12	12.2	22.9
DN	Una	184.0	564.10	350.28	213.8	37.9
CIRCLE	Amreli	888.0	2540.31	2056.55	483.766	19.04
SDN	Surendranagar City-1	10.00	184.85	176.43	8.42	4.55
SDN	S'Nagar City-2	10.00	106.91	94.81	12.10	11.32
SDN	Joravnagar	3.00	37.86	33.36	4.50	11.89

	SDN /DIVISON/CIRCLE	No of feeders as on MAR-21	Sent MUs	Sold MUs	MUs Loss	% Loss MAR-21
SDN	Wadhwan	10.00	47.95	33.34	14.61	30.47
SDN	Muli	59.00	243.27	135.44	107.82	44.32
SDN	Chotila	45.00	184.78	98.50	86.29	46.70
SDN	Than	47.00	228.36	147.07	81.29	35.60
SDN	S'Nagar-Rural	37.00	300.75	257.84	42.91	14.27
SDN	Lakhtar	9.00	335.82	326.70	9.12	2.72
DN	Surendranagar	230.00	1670.54	1303.48	367.06	21.97
SDN	Limbdi-Town	4.00	55.53	45.22	10.31	18.57
SDN	Limbdi-Rural	30.00	124.17	60.70	63.47	51.11
SDN	Chuda	37.00	94.23	51.07	43.17	45.81
SDN	Sayla	46.00	152.22	65.35	86.86	57.07
DN	Limbdi	117.00	426.16	222.35	203.81	47.83
SDN	Dhrangadhra Rural	53.00	154.75	113.56	41.19	26.62
SDN	Dhrangadhra Town	15.00	84.65	61.72	22.93	27.09
SDN	Rajsitapur	53.00	202.09	157.33	44.76	22.15
SDN	Patdi	19.00	65.44	44.12	21.32	32.58
SDN	Dasada	33.00	63.36	45.27	18.09	28.55
SDN	Bavli	87.00	334.70	175.42	159.28	47.59
DN	Dhrangadhra	260.00	905.00	597.42	307.58	33.99
CIRCLE	Surendranagar	607.00	3001.69	2123.25	878.45	29.27
CIRCLE	PGVCL	8569	35391.76	29514.57	5877.19	16.61

The overall Division wise Energy Losses for different feeders is as follows:

SDN /DIVISON/CIRCLE	URB	IND	JGY	AG	HT EXP	EHT	SST	GIDC	OVERALL
Rajkot City-1	12.66	3.05	0.00		0.57	0.00	1.82		10.38
Rajkot City-2	7.92	0.00	0.00		0.20	0.00	0.87		7.64
Rajkot City-3	9.77	4.18	9.75	11.77	-0.99	0.00	1.97		9.10
Gondal	16.17	5.56	32.98	14.72	2.46	0.00	6.45	0.00	16.20
Dhoraji	9.39	3.49	20.00	-0.69	0.00	0.00	4.89	0.00	6.83
Rajkot Rural	10.24	5.13	14.13	-0.45	3.66	0.00	8.95	4.06	6.57
Jasdan	21.64	-1.16	57.30	30.12	5.54	0.00	1.41	0.00	33.33
Jetpur	8.65	3.48	27.64	2.23	0.00	0.00	11.55	0.00	11.09
Morbi	10.67	3.61	7.51	-8.57		0.00	2.24	0.00	4.29
Halvad	14.92	2.72	48.74	39.60		0.00	2.90	0.00	36.23
Wankaner	16.44	3.02	32.02	31.38		0.00	5.84	0.00	8.08
Porbandar City	5.87		20.71	12.35	0.07		3.96		7.39
Porbandar Rural	12.73		26.34	14.72	0.00	0.00	2.77		16.68
Keshod	5.00		25.86	14.21			2.31		15.28
Mangrol	7.70		32.77	28.09	2.63		1.46		25.72
Jamnagar City-1	33.53	2.21	39.08	15.28	1.36	0.00	8.63	0.00	27.10
Jamnagar City-2	38.96	2.76	37.48	28.30	1.59	0.00	11.46	4.21	20.39
Jamnagar Rural	20.82	0.00	34.87	10.67	0.99	0.00	7.49	0.00	17.34
Khambhaliya	19.13	3.55	64.34	44.49	1.13	0.00	9.00	0.00	37.46
Jamjodhpur	12.65	0.00	50.35	27.18	1.36	0.00	8.96	0.00	31.37
Dwarka	9.83	0.00	41.09	44.62	0.81	0.00	9.22	0.00	35.25

Junagadh City	13.89	5.88	22.42	-1.76	0.63	0.00	2.96	0.00	12.03
Junagadh-1	12.47	2.99	16.47	2.17	-0.93	0.00	2.55	0.00	5.32
Junagadh-2	11.96	1.19	21.82	-13.52	0.00	0.00	2.09	0.00	-1.26
Veraval	18.93	1.93	44.63	37.36	0.00	0.00	0.79	0.00	26.91
Bhuj	7.96	0.82	20.01	33.15	-6.48	0.00	0.90	0.36	22.09
Mandvi	8.06	0.98	10.94	16.81	1.02	0.00	1.19	1.02	9.76
Nakhtrana	0.00	1.88	16.18	15.12	1.21	0.00	1.77	0.00	14.92
Anjar	14.79	1.88	18.43	39.44	2.16	0.00	4.76	1.05	16.75
Gandhidham	14.76	7.32	37.31	20.59	2.73	0.00	3.66	2.22	10.25
Bhachau	14.36	1.64	28.02	56.41	0.92	0.00	3.54	0.00	30.05
Bhavnagar City-1	8.24	0.00	0.00	-243.10	-0.24	0.00	0.29	0.00	6.92
Bhavnagar Rural	12.07	4.97	42.30	17.77	4.06	0.00	3.46	4.48	12.34
Mahuva	12.21	6.06	45.70	22.03	2.21	0.00	4.02	0.00	25.90
Palitana	15.87	0.95	46.21	17.57	2.67	0.00	3.41	0.00	23.03
Bhavnagar City-2	8.46	4.06	39.31	35.88	5.27	0.00	0.82	0.33	12.66
Botad	16.35	5.61	49.52	18.41	4.45	0.00	1.33	0.00	23.63
Gadhada	26.95	0.20	36.99	15.09	5.88	0.00	-0.28	0.00	21.55
Amreli-1	11.56	1.27	27.37	10.52	1.07	0.00	2.77	0.00	12.76
Amreli-2	13.19	0.00	29.49	9.64	0.40	0.00	1.77	0.00	13.85
Savarkundla	14.0	0.9	42.66	14.35	1.4	0.0	1.6	0.0	14.4
Una	30.7	0.6	54.60	25.51	0.6	0.0	1.9	0.0	37.9
Surendranagar	17.04	3.42	47.35	49.09	3.78	0.00	1.24	1.93	21.97
Limbdi	20.67	3.49	73.07	42.50	0.00	0.00	1.51	0.00	47.83
Dhrangadhra	27.30	1.23	46.09	37.11	3.13	0.00	1.50	0.00	33.99

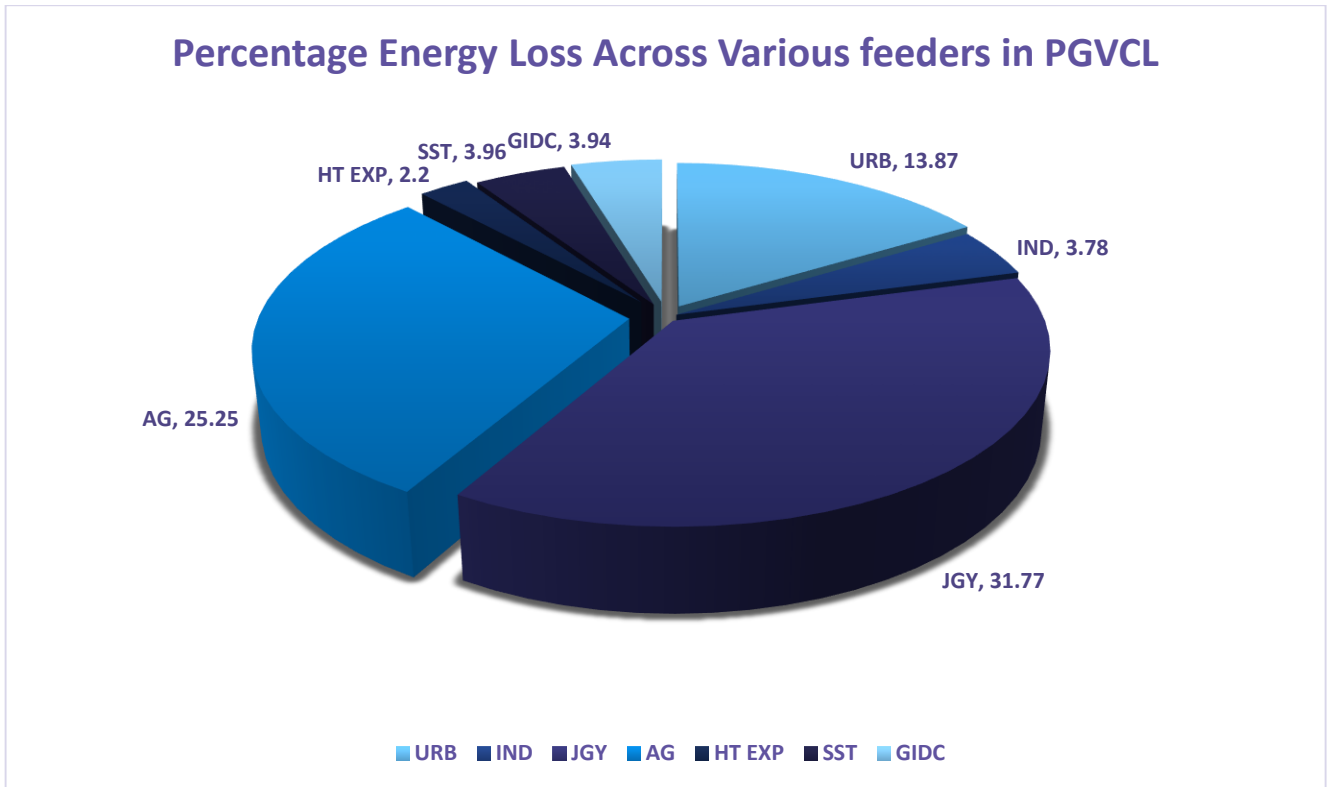
The circle wise losses are as follows:

SDN /DIVISON/CIRCLE	URB	IND	JGY	AG	HT EXP	EHT	SST	GIDC	OVERALL
Rajkot City	10.16	3.17	9.75	11.77	0.39	0.00	1.68		9.18
Rajkot Rural	11.69	5.04	26.71	10.80	4.53	0.00	7.89	4.06	12.50
Morbi	11.92	3.40	13.56	33.33		0.00	3.35		9.87
Porbandar	6.79		27.78	18.79	1.02	0.00	2.64		17.04
Jamnagar	29.81	2.41	42.49	27.34	1.21	0.00	8.93	4.21	26.17
Junagadh	15.38	3.38	29.07	10.56	0.32	0.00	1.88	0.00	13.69
Bhuj	7.98	0.90	15.76	22.35	-2.45	0.00	1.23	0.51	15.69
Anjar	14.71	5.88	26.49	49.44	2.16	0.00	4.21	1.92	20.17
Bhavnagar	10.20	4.65	44.07	20.67	3.94	0.00	3.00	2.57	16.01
Botad	17.72	4.77	44.81	17.07	5.13	0.00	0.76	0.00	22.94

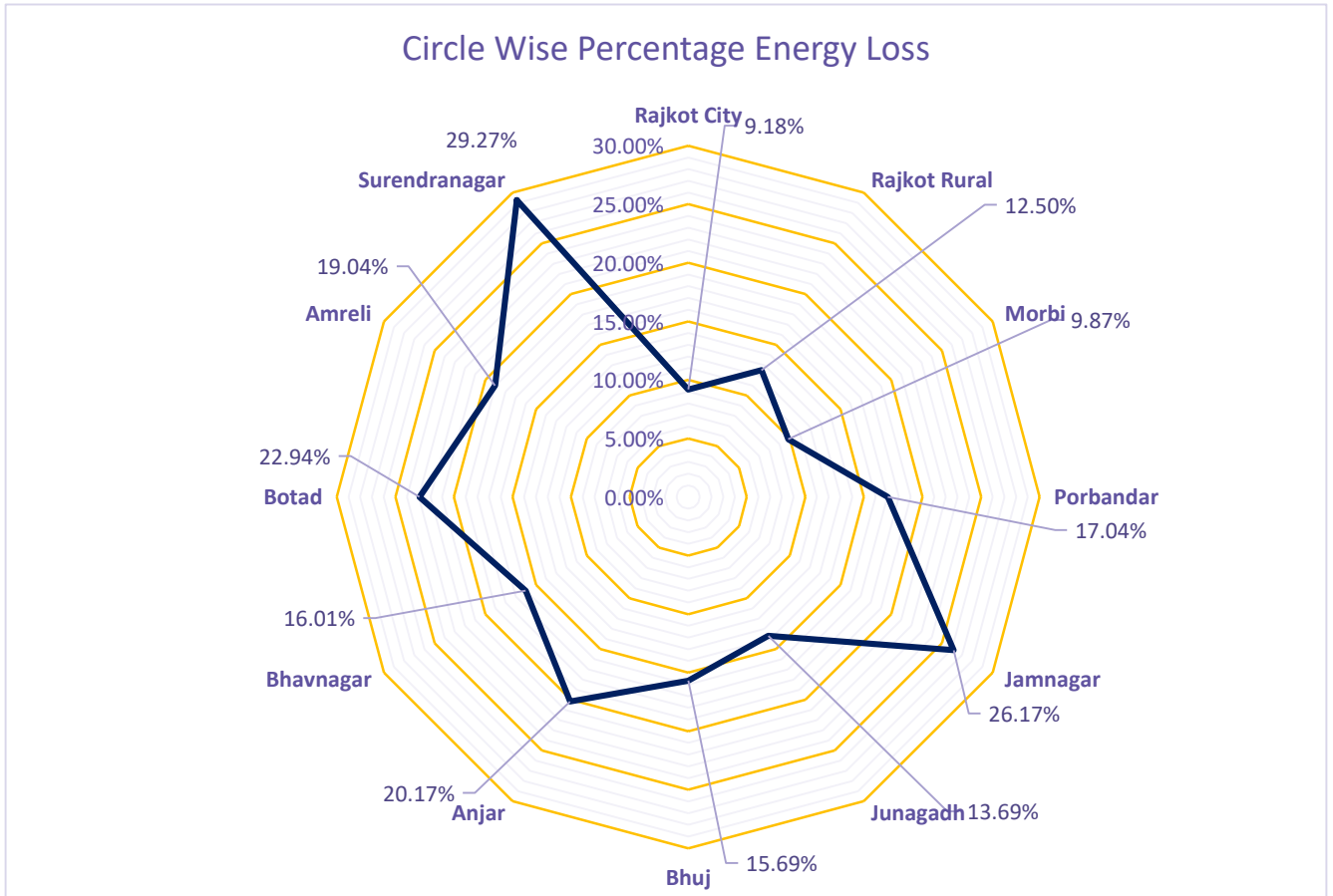
Amreli	16.29	0.88	41.45	14.51	1.08	0.00	2.18	0.00	19.04
Surendranagar	19.07	2.92	55.84	42.41	3.39	0.00	1.44	1.93	29.27
PGVCL	13.87	3.78	31.77	25.25	2.20	0.00	3.96	3.94	16.61

The above data can be analyzed as follows:

1. Energy losses occurring in PGVCL across various feeder types:

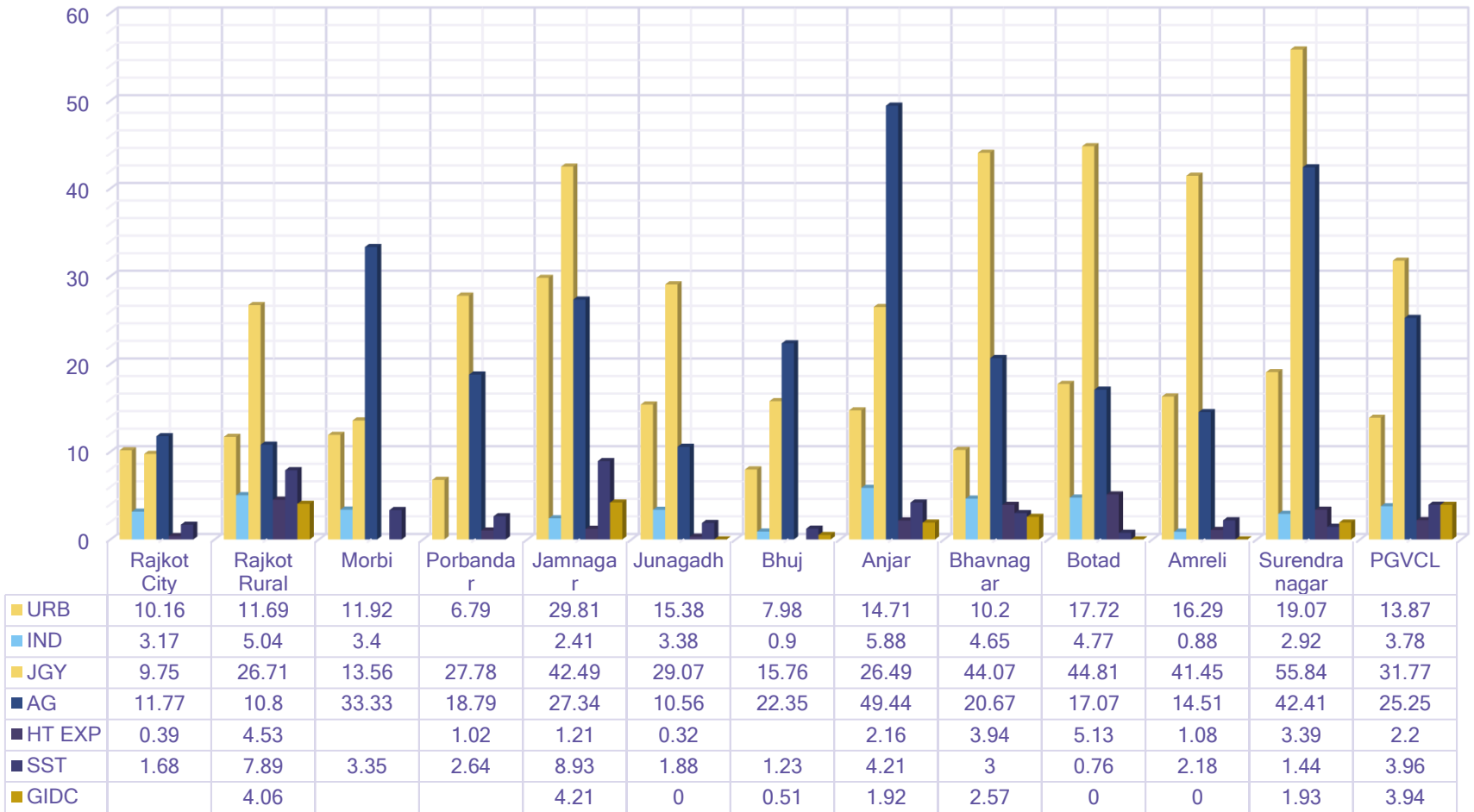


2. Percentage loss across various circles

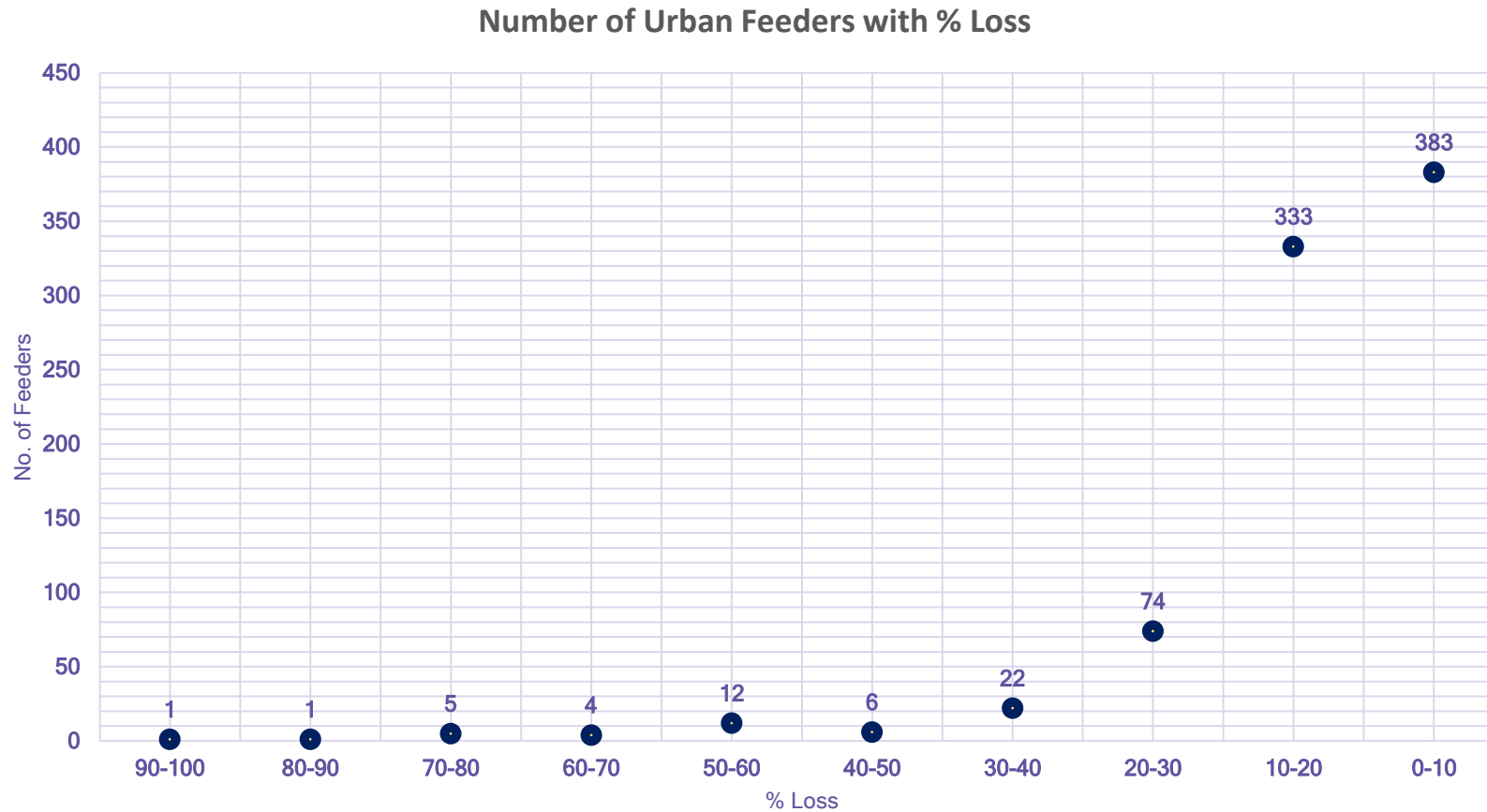


3. The detailed losses per circle is as follows:

Percentage losses in various feeders across PGVCL Circles

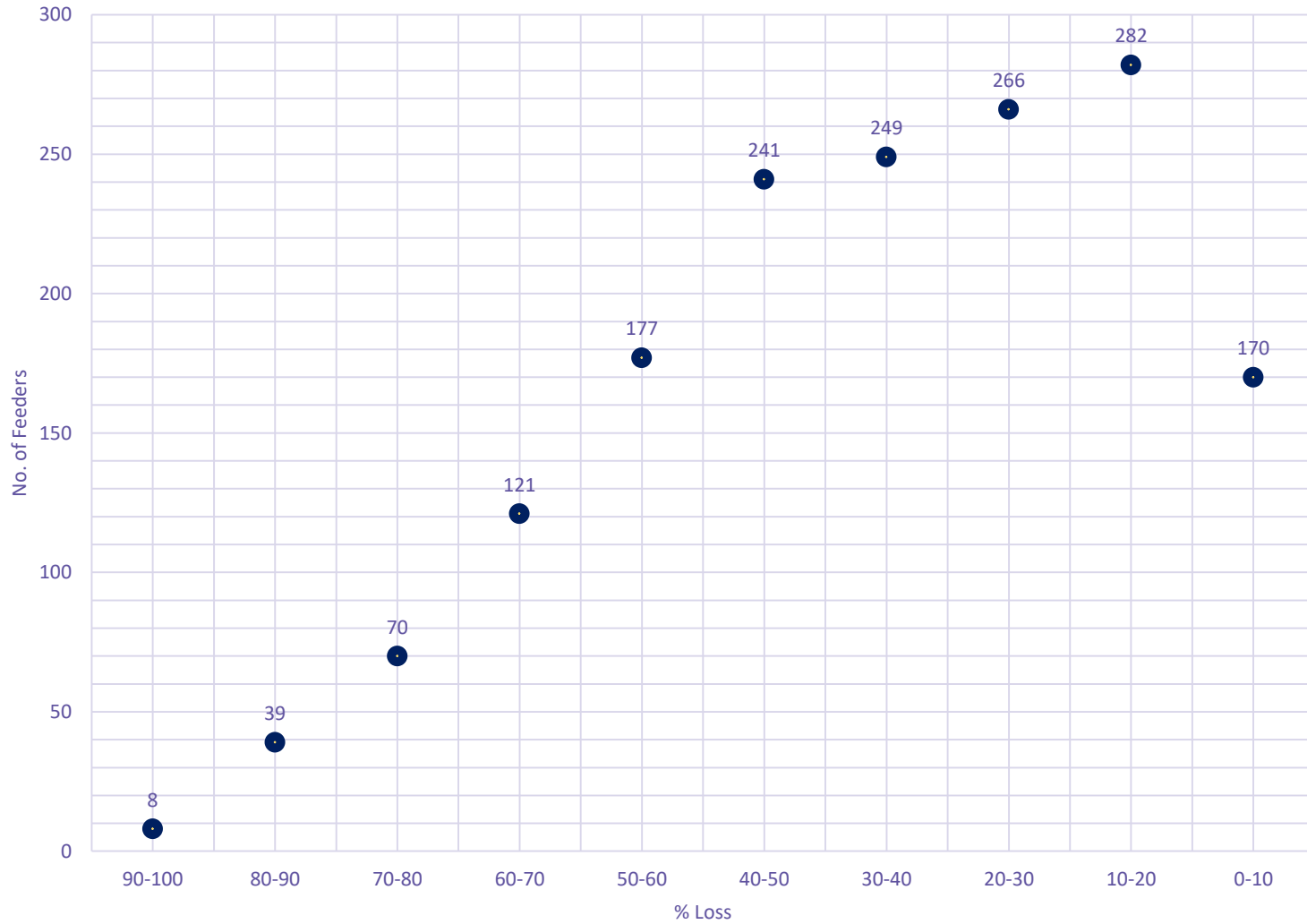


4. Number of Urban Feeders with respect to % Loss

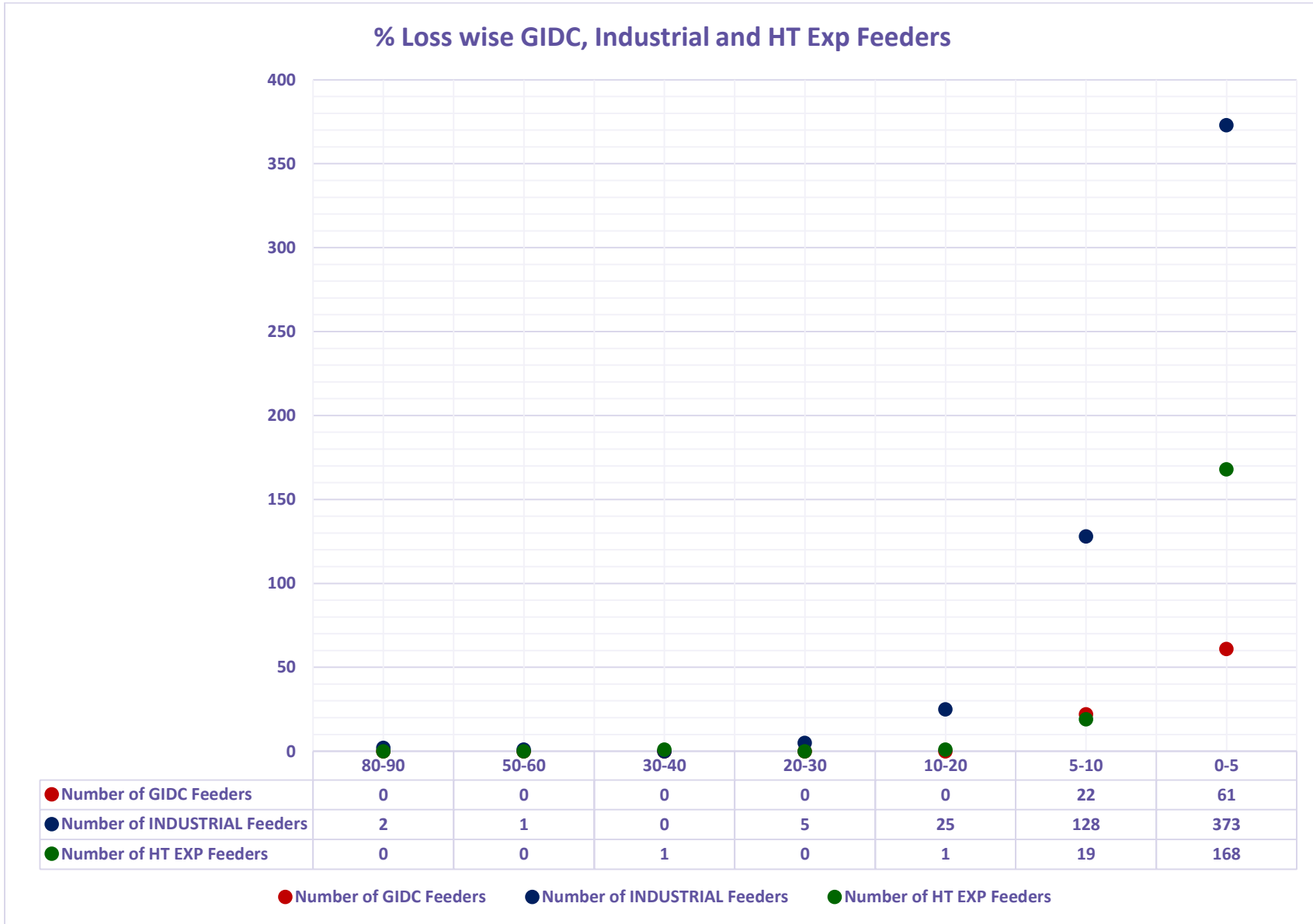


5. Number of Jyotrigram Feeders with respect to % loss

Number of Jyotigram Feeders with % Loss

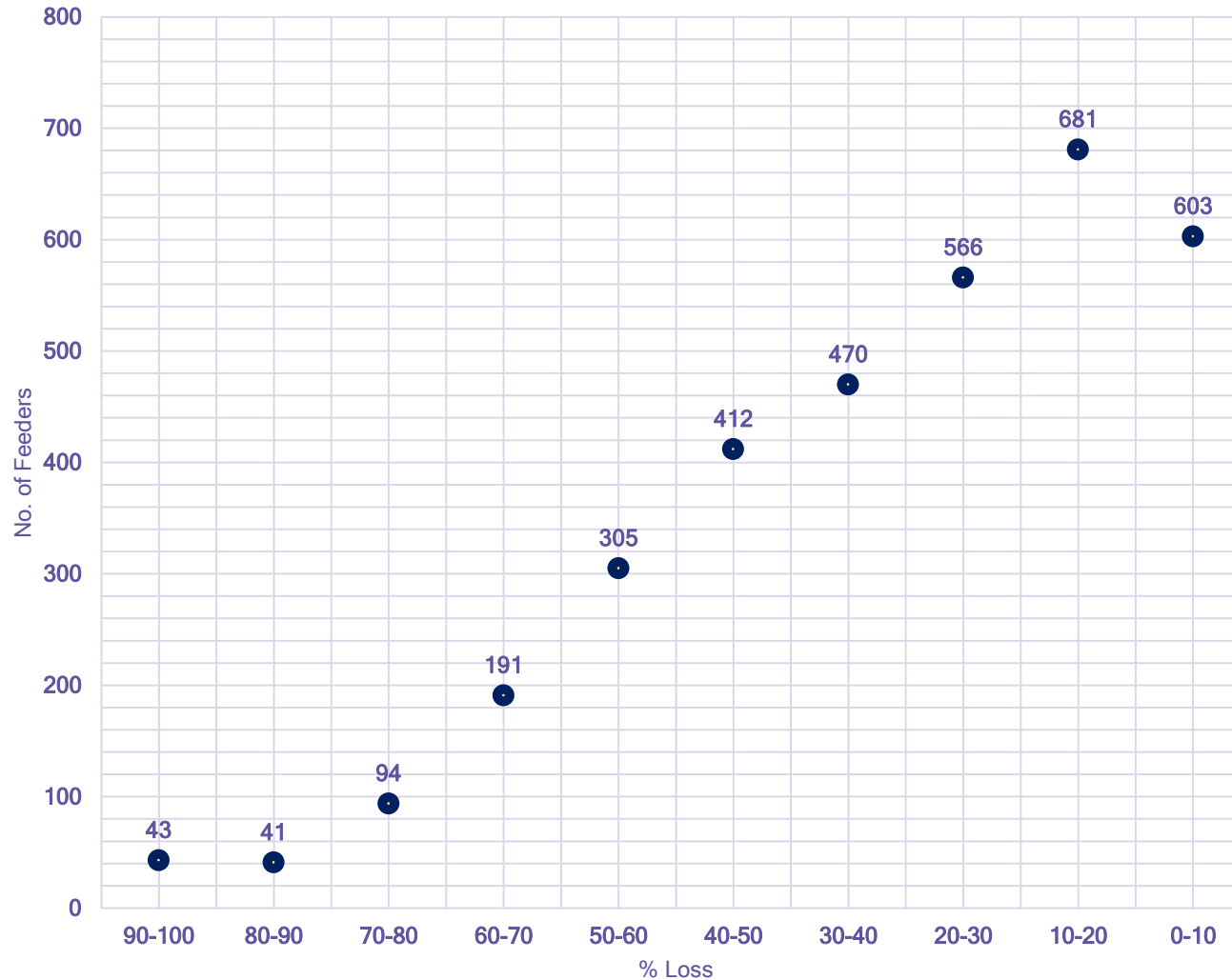


6. No. of Industrial, GIDC and HT Express Feeders with respect to percentage loss



7. No. of Agricultural Feeders with respect to percentage loss

Number of Agricultural Feeders with % Loss



Remarks on the above-mentioned data are separately provided in auditor's remark chapter.

6.9 Feeders of Concern:

Those feeders where the losses are much higher and some action can be taken to reduce the T&D losses can be considered as feeders of concern.

These feeders can be given as:

- Feeders whose T&D loss is more than 15% can be considered as feeders of concern for Urban, Industrial, GIDC feeders.
- Feeders having more than 50% of T&D loss in Jyotirgram and Agricultural category are considered as feeders of concern.

However, it is not possible to take actions on every feeder at same instant.

Following technical actions can be taken:

1. Feeder bifurcation.
2. Replacement of conductors with higher capacity conductors.
3. Implementation of Ring Main System.
4. Implementation of HVDS system.
5. Replacement of present 11 kV overhead conductors by UG Cables.
6. Replacement of CRGO transformers by Amorphous transformers.
7. Utilizing DSM with other implementing agencies.

The actions are needed to be taken based on:

1. Technical feasibility
2. Financial feasibility

ANNEXURE – SECTOR SPECIFIC PROFORMA OF PGVCL

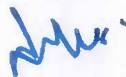
General Information				
1	Name of the DISCOM	Paschim Gujarat Vij Company Limited		
2	i) Year of Establishment	2005		
	ii) Government/Public/Private	Public		
3	DISCOM's Contact details & Address			
i	City/Town/Village	Rajkot		
ii	District	Rajkot		
iii	State	GUJARAT	Pin	360004
iv	Telephone	0281-2380425/27	Fax	0281-2380428
4	Registered Office			
i	Company's Chief Executive Name	Sh. J J Gandhi		
ii	Designation	Chief Engineer (Tech)		
iii	Address	Regd. & Corporate Office, "Paschim Gujarat Vij Seva Sadan", Nana Mava Main Road, Laxminagar, Rajkot		
iv	City/Town/Village	Rajkot	P.O.	Postal Colony Post Office, Gondal Road, Rajkot
v	District	Rajkot		
vi	State	GUJARAT	Pin	360004
vii	Telephone	0281-2380425/27	Fax	0281-2380428
5	Nodal Officer Details*			
i	Nodal Officer Name (Designated at DISCOM's)	Sh. J J Gandhi		
ii	Designation	Chief Engineer (Tech)		
iii	Address	Regd. & Corporate Office, "Paschim Gujarat Vij Seva Sadan", Nana Mava Main Road, Laxminagar, Rajkot		
iv	City/Town/Village	Rajkot	P.O.	Postal Colony Post Office, Gondal Road, Rajkot
v	District	Rajkot		
vi	State	GUJARAT	Pin	360004
vii	Telephone	0281-2380425/27	Fax	0281-2380428
6	Energy Manager Details*			
i	Name	Sh G S Vaghela		
ii	Designation	Deputy Engineer	Whether EA or EM	EA
iii	EA/EM Registration No.	EA-11477		
iv	Telephone	0281-2380425/27	Fax	0281-2380428
v	Mobile	9825208540	E-mail ID	dernd.pgvccl@gebmail.com
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	1st April, 2020 - 31st March, 2021		

Performance Summary of Electricity Distribution Companies

1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st April, 2020 - 31st March, 2021	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	35830.38
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	35391.76
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	29514.57
(b)	Overall Distribution (D) loss Details	Million kwh	5877.19
		%	16.61%
	Collection Efficiency	%	100.38%
(c)	Aggregate Technical & Commercial Loss	%	16.29%

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: Sh J J Gandhi - CE(Tech)

Name of the DISCOM: PGVCL

Full Address:- Regd. & Corporate Office,
"Paschim Gujarat Vij Seva Sadan",
Nana Mava Main Road, Laxminagar, Rajkot

Seal

Chief Engineer
PGVCL - Corporate Office
Rajkot.

Signature:-



Name of Energy Manager: G S Vaghela

Registration Number: EA-11477

Details of Division Wise Losses (See note below**)																								
Division Wise Losses																								
Period From 1st April, 2020 to 31st March, 2021																								
S.No	Name of circle	Circle code	Name of Division	Consumer profile							Energy parameters					Losses		Commercial Parameter			AT & C loss (%)			
				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)	Metered energy	Unmetered/assessment energy	Total energy	% of energy consumption	T&D loss (MU)	T&D loss (%) (Overall Distribution Loss)	Billed Amount in Rs. Crore		Collected Amount in Rs. Crore	Collection Efficiency	
1	Rajkot City	280000	Rajkot City-1	Residential	122442	0	122442	68%	142.50	0.00	142.50346	30%	644.69	577.77	0.00	577.769537	100%	66.921318	10%	152.59	153.76	100.77%		
				Agricultural	0	0	0	0%	0.00	0.00	0	0%				0	0%			0.00	0.00	0.00%		
				Commercial/Industrial-LT	56924	0	56924	32%	262.65	0.00	262.64822	56%				0	0%			0	0%	195.28	193.65	99.17%
				Commercial/Industrial-HT	119	0	119	0%	58.61	0.00	58.609	12%				0	0%			0	0%	115.20	118.34	102.73%
				Others	628	0	628	0%	7.76	0.00	7.763737	2%				0	0%			0	0%	5.88	5.47	93.03%
Sub-total				180113	0	180113	100%	471.524417	0.00	471.524417	100%	644.69	577.769537	0	577.769537	100%	66.921318	10%	468.939177	471.2221431	100.49%	9.94%		
2	Rajkot City	280000	Rajkot City-2	Residential	113832	0	113832	74%	236.39	0.00	236.39264	51%	457.55	422.60	0.00	422.598649	100%	34.946366	8%	165.48	167.37	101.14%		
				Agricultural	0	0	0	0%	0.00	0.00	0	0%				0	0%			0.00	0.00	0.00%		
				Commercial/Industrial-LT	39551	0	39551	26%	184.08	0.00	184.08332	40%				0	0%			0	0%	132.84	131.59	99.05%
				Commercial/Industrial-HT	83	0	83	0%	32.18	0.00	32.18	7%				0	0%			0	0%	50.99	52.25	102.48%
				Others	950	0	950	1%	13.33	0.00	13.327834	3%				0	0%			0	0%	9.74	9.78	100.39%
Sub-total				154416	0	154416	100%	465.983794	0.00	465.983794	100%	457.55	422.598649	0	422.598649	100%	34.946366	8%	359.056728	360.9891665	100.54%	7.14%		
3	Rajkot City	280000	Rajkot City-3	Residential	206897	0	206897	85%	296.99	0.00	296.992	46%	845.04	764.35	3.77	768.119331	100%	76.920532	9%	221.30	223.75	101.10%		
				Agricultural	983	394	1377	1%	3.02	1.74	4.757265	1%				0	0%			0.42	0.40	93.78%		
				Commercial/Industrial-LT	37564	0	37564	15%	245.65	0.00	245.65	38%				0	0%			0	0%	215.42	213.73	99.22%
				Commercial/Industrial-HT	142	0	142	0%	82.53	0.00	82.533	13%				0	0%			0	0%	156.23	159.55	102.13%
				Others	-1461	0	-1461	-1%	16.38	0.00	16.375877	3%				0	0%			0	0%	20.73	20.61	99.41%
Sub-total				244125	394	244519	100%	644.570296	1.737846	646.308142	100%	845.04	764.350537	3.768794	768.119331	100%	76.920532	9%	614.102401	618.0374502	100.64%	8.52%		
4	Rajkot Rural	400000	Gondal	Residential	89484	0	89484	55%	72.88	0.00	72.875	12%	874.92	639.04	94.18	733.222133	100%	141.696342	16%	64.78	65.89	101.71%		
				Agricultural	47789	8083	55872	34%	235.04	43.28	278.319063	47%				0	0%			19.18	19.23	100.26%		
				Commercial/Industrial-LT	16270	0	16270	10%	90.44	0.00	90.4385	15%				0	0%			0	0%	82.89	83.60	100.85%
				Commercial/Industrial-HT	270	0	270	0%	136.16	0.00	136.16	23%				0	0%			0	0%	259.89	269.81	103.81%
				Others	1652	0	1652	1%	11.73	0.00	11.730636	2%				0	0%			0	0%	11.81	11.90	100.71%
Sub-total				155465	8083	163548	100%	546.247218	43.275981	589.523199	100%	874.92	639.04388	94.178253	733.222133	100%	141.696342	16%	438.562225	450.4261751	102.71%	13.93%		
5	Rajkot Rural	400000	Dhoraji	Residential	86209	0	86209	61%	86.84	0.00	86.8355	21%	454.51	321.33	102.12	423.448151	100%	31.062243	7%	58.89	59.93	101.75%		
				Agricultural	31849	6893	38742	28%	175.35	47.17	222.523674	54%				0	0%			16.40	16.36	99.74%		
				Commercial/Industrial-LT	14676	0	14676	10%	80.34	0.00	80.3435	19%				0	0%			0	0%	83.83	85.07	101.48%
				Commercial/Industrial-HT	66	0	66	0%	15.97	0.00	15.97	4%				0	0%			0	0%	16.86	17.20	102.07%
				Others	1092	0	1092	1%	10.14	0.00	10.140593	2%				0	0%			0	0%	8.64	8.40	97.14%
Sub-total				133892	6893	140785	100%	368.643835	47.169432	415.813267	100%	454.51	321.332015	102.116136	423.448151	100%	31.062243	7%	184.627667	186.9574651	101.26%	5.66%		
6	Rajkot Rural	400000	Rajkot Rural	Residential	69961	0	69961	52%	70.62	0.00	70.622	7%	1930.75	1722.19	81.62	1803.814002	100%	126.934958	7%	49.13	49.58	100.91%		
				Agricultural	38407	7762	46169	34%	165.91	37.72	203.636094	19%				0	0%			16.49	16.59	100.59%		
				Commercial/Industrial-LT	16900	0	16900	13%	306.61	0.00	306.6075	28%				0	0%			0	0%	298.20	305.98	102.61%
				Commercial/Industrial-HT	965	0	965	1%	488.34	0.00	488.336	45%				0	0%			0	0%	897.80	924.14	102.93%
				Others	1065	0	1065	1%	11.83	0.00	11.827091	1%				0	0%			0	0%	11.43	11.71	102.51%
Sub-total				127298	7762	135060	100%	1043.306187	37.722498	1081.028685	100%	1930.75	1722.192786	81.621216	1803.814002	100%	126.934958	7%	1273.05086	1307.998257	102.75%	4.01%		
7	Rajkot Rural	400000	Jasdan	Residential	59675	0	59675	49%	40.81	0.00	40.814	10%	549.56	295.85	70.55	366.407811	100%	183.152285	33%	31.46	32.13	102.14%		
				Agricultural	45640	6529	52169	43%	213.62	32.62	246.239259	62%				0	0%			18.37	18.94	103.08%		
				Commercial/Industrial-LT	9408	0	9408	8%	37.50	0.00	37.499	9%				0	0%			0	0%	27.58	28.29	102.56%
				Commercial/Industrial-HT	45	0	45	0%	65.28	0.00	65.283	16%				0	0%			0	0%	103.07	106.58	103.41%
				Others	1137	0	1137	1%	10.45	0.00	10.446363	3%				0	0%			0	0%	10.47	8.22	78.57%
Sub-total				115905	6529	122434	100%	367.666159	32.615463	400.281622	100%	549.56	295.853975	70.553836	366.407811	100%	183.152285	33%	190.943785	194.1556949	101.68%	32.21%		
8	Rajkot Rural	400000	Jetpur	Residential	65367	0	65367	58%	69.20	0.00	69.1995	19%	471.78	352.20	67.24	419.43903	100%	52.33631	11%	54.74	55.74	101.83%		
				Agricultural	27864	5048	32912	29%	143.25	31.02	174.269955	47%				0	0%			13.66	13.66	100.00%		
				Commercial/Industrial-LT	12760	0	12760	11%	94.57	0.00	94.5685	25%				0	0%			0	0%	97.87	98.14	100.28%
				Commercial/Industrial-HT	102	0	102	0%	27.64	0.00	27.64	7%				0	0%			0	0%	44.17	44.98	101.83%
				Others	841	0	841	1%	6.70	0.00	6.697234	2%				0	0%			0	0%	5.90	5.81	98.46%
Sub-total				106934	5048	111982	100%	341.350983	31.024206	372.375189	100%	471.78	352.198399	67.240631	419.43903	100%	52.33631	11%	216.339752	218.3322432	100.92%	10.27%		

Details of Division Wise Losses (See note below**)																						
Division Wise Losses																						
Period From 1st April, 2020 to 31st March, 2021																						
S.No	Name of circle	Circle code	Name of Division	Consumer profile								Energy parameters					Losses		Commercial Parameter			AT & C loss (%)
				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	Billed energy (MU)		% of energy consumption	T&D loss (MU)	T&D loss (%) (Overall Distribution Loss)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency		
9	Morbi	420000	Morbi	Residential	146562	0	146562	72%	154.16	0.00	154.1605	10%	4340.52	4089.39	65.00	4154.390507	100%	186.126979	4%	149.44	150.21	100.52%
				Agricultural	19759	3795	23554	12%	100.60	29.75	130.354563	9%				0	0%			10.64	10.54	99.12%
				Commercial/Industrial-LT	31143	0	31143	15%	223.42	0.00	223.4185	15%				0	0%			209.12	205.52	98.28%
				Commercial/Industrial-HT	1336	0	1336	1%	955.42	0.00	955.418	65%				0	0%			2605.20	2699.32	103.61%
				Others	294	0	294	0%	14.38	0.00	14.382403	1%				0	0%			16.09	16.51	102.56%
Sub-total				199094	3795	202889	100%	1447.979543	29.754423	1477.733966	100%	4340.52	4089.39411	64.996397	4154.390507	100%	186.126979	4%	2990.48818	3082.104306	103.06%	1.36%
10	Morbi	420000	Halvad	Residential	34401	0	34401	49%	25.46	0.00	25.4595	5%	1049.79	312.14	357.31	669.449485	100%	380.33773	36%	20.05	20.03	99.92%
				Agricultural	22022	7764	29786	42%	241.78	165.19	406.965648	83%				0	0%			34.79	36.74	105.62%
				Commercial/Industrial-LT	6084	0	6084	9%	26.12	0.00	26.123	5%				0	0%			22.48	22.65	100.75%
				Commercial/Industrial-HT	47	0	47	0%	29.30	0.00	29.3	6%				0	0%			70.77	71.66	101.25%
				Others	389	0	389	1%	4.95	0.00	4.95297	1%				0	0%			19.18	8.64	45.05%
Sub-total				62943	7764	70707	100%	327.611035	165.190083	492.801118	100%	1049.79	312.141374	357.308111	669.449485	100%	380.33773	36%	167.265045	159.7199546	95.49%	39.11%
11	Morbi	420000	Wankaner	Residential	38569	0	38569	55%	26.44	0.00	26.438	4%	1935.99	1710.03	69.63	1779.660454	100%	156.332385	8%	28.93	28.59	98.83%
				Agricultural	19469	3248	22717	32%	139.20	31.46	170.666931	25%				0	0%			15.68	15.44	98.51%
				Commercial/Industrial-LT	7106	0	7106	10%	50.29	0.00	50.2885	7%				0	0%			49.38	49.88	101.02%
				Commercial/Industrial-HT	365	0	365	1%	426.45	0.00	426.447	63%				0	0%			1122.55	1156.01	102.98%
				Others	1153	0	1153	2%	5.95	0.00	5.949102	1%				0	0%			7.54	7.21	95.57%
Sub-total				66662	3248	69910	100%	648.326346	31.463187	679.789533	100%	1935.99	1710.032324	69.62813	1779.660454	100%	156.332385	8%	1224.07802	1257.130632	102.70%	5.59%
12	Porbandar	260000	Porbandar City	Residential	73102	0	73102	77%	87.74	0.00	87.7415	42%	244.95	210.09	16.75	226.84178	100%	18.110734	7%	64.61	65.65	101.60%
				Agricultural	4899	1989	6888	7%	12.83	7.74	20.575515	10%				0	0%			1.72	1.68	97.33%
				Commercial/Industrial-LT	14305	0	14305	15%	55.73	0.00	55.728	27%				0	0%			44.60	43.23	96.93%
				Commercial/Industrial-HT	62	0	62	0%	39.20	0.00	39.2	19%				0	0%			53.85	53.84	99.98%
				Others	635	0	635	1%	5.89	0.00	5.891744	3%				0	0%			5.70	4.62	80.91%
Sub-total				93003	1989	94992	100%	201.394266	7.742493	209.136759	100%	244.95	210.088962	16.752818	226.84178	100%	18.110734	7%	170.487841	169.0127006	99.13%	8.19%
13	Porbandar	260000	Porbandar Rural	Residential	72036	0	72036	57%	47.36	0.00	47.359	18%	359.73	175.88	123.86	299.741777	100%	59.993123	17%	38.02	37.90	99.68%
				Agricultural	34839	11362	46201	36%	121.87	57.30	179.172237	66%				0	0%			14.88	14.90	100.14%
				Commercial/Industrial-LT	7891	0	7891	6%	24.47	0.00	24.472	9%				0	0%			17.17	17.12	99.71%
				Commercial/Industrial-HT	24	0	24	0%	11.88	0.00	11.875	4%				0	0%			18.37	17.21	93.71%
				Others	1155	0	1155	1%	6.64	0.00	6.643365	2%				0	0%			12.57	4.36	34.67%
Sub-total				115945	11362	127307	100%	212.217879	57.303723	269.521602	100%	359.73	175.877109	123.864668	299.741777	100%	59.993123	17%	101.002923	91.48826643	90.58%	24.53%
14	Porbandar	260000	Keshod	Residential	58958	0	58958	56%	45.88	0.00	45.8785	18%	295.91	149.93	100.79	250.710412	100%	45.203291	15%	35.74	35.88	100.38%
				Agricultural	27123	8048	35171	33%	114.74	46.68	161.427894	64%				0	0%			12.29	12.41	100.94%
				Commercial/Industrial-LT	10200	0	10200	10%	34.95	0.00	34.95	14%				0	0%			25.72	25.68	99.82%
				Commercial/Industrial-HT	5	0	5	0%	1.35	0.00	1.35	1%				0	0%			1.10	1.10	100.25%
				Others	1128	0	1128	1%	7.03	0.00	7.032224	3%				0	0%			6.57	5.88	89.40%
Sub-total				97414	8048	105462	100%	203.95572	46.682898	250.638618	100%	295.91	149.925347	100.785065	250.710412	100%	45.203291	15%	81.4300657	80.94149538	99.40%	15.78%
15	Porbandar	260000	Mangrol	Residential	58956	0	58956	58%	42.52	0.00	42.5155	22%	347.00	154.13	103.61	257.740933	100%	89.256432	26%	36.17	36.29	100.34%
				Agricultural	22923	10129	33052	33%	60.47	48.08	108.547779	56%				0	0%			9.71	9.89	101.81%
				Commercial/Industrial-LT	8408	0	8408	8%	29.47	0.00	29.465	15%				0	0%			25.93	25.78	99.44%
				Commercial/Industrial-HT	20	0	20	0%	9.13	0.00	9.125	5%				0	0%			18.35	18.62	101.49%
				Others	556	0	556	1%	4.54	0.00	4.538299	2%				0	0%			4.84	3.45	71.36%
Sub-total				90863	10129	100992	100%	146.113923	48.077655	194.191578	100%	347.00	154.12743	103.613503	257.740933	100%	89.256432	26%	94.9949655	94.03584448	98.99%	26.47%
16	Jamnagar	290000	Jamnagar City-1	Residential	117417	0	117417	76%	158.47	0.00	158.4655	47%	507.44	348.18	21.76	369.940549	100%	137.500763	27%	118.82	117.49	98.88%
				Agricultural	7619	1840	9459	6%	36.35	10.05	46.399938	14%				0	0%			3.84	3.83	99.71%
				Commercial/Industrial-LT	25646	0	25646	17%	83.82	0.00	83.8195	25%				0	0%			63.65	64.53	101.37%
				Commercial/Industrial-HT	73	0	73	0%	39.71	0.00	39.705	12%				0	0%			70.93	73.04	102.97%
				Others	1132	0	1132	1%	8.10	0.00	8.09575	2%				0	0%			7.08	6.34	89.51%
Sub-total				151887	1840	153727	100%	326.439036	10.046652	336.485688	100%	507.44	348.184916	21.755633	369.940549	100%	137.500763	27%	264.331939	265.224806	100.34%	26.85%

Details of Division Wise Losses (See note below**)																						
Division Wise Losses																						
Period From 1st April, 2020 to 31st March, 2021																						
S.No	Name of circle	Circle code	Name of Division	Consumer profile								Energy parameters					Losses		Commercial Parameter			AT & C loss (%)
				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	Billed energy (MU)		% of energy consumption	T&D loss (MU)	T&D loss (%) (Overall Distribution Loss)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency		
17	Jamnagar	290000	Jamnagar City-2	Residential	97914	0	97914	70%	109.41	0.00	109.4145	20%	865.42	644.89	44.10	688.995327	100%	176.424207	20%	83.75	80.95	96.66%
				Agricultural	14107	3888	17995	13%	66.81	20.41	87.215739	16%				0	0%			6.71	6.01	89.61%
				Commercial/Industrial-LT	22399	0	22399	16%	192.46	0.00	192.4555	36%				0	0%			158.00	162.67	102.96%
				Commercial/Industrial-HT	186	0	186	0%	144.82	0.00	144.819	27%				0	0%			224.80	225.83	100.46%
				Others	873	0	873	1%	7.71	0.00	7.709585	1%				0	0%			10.15	8.43	83.06%
Sub-total				135479	3888	139367	100%	521.208192	20.406132	541.614324	100%	865.42	644.890881	44.104446	688.995327	100%	176.424207	20%	483.420189	483.9046251	100.10%	20.31%
18	Jamnagar	290000	Jamnagar Rural	Residential	72125	0	72125	49%	51.02	0.00	51.023	11%	559.53	318.91	143.57	462.482941	100%	97.043112	17%	42.60	42.09	98.81%
				Agricultural	54395	11404	65799	44%	268.04	66.40	334.43907	72%				0	0%			24.94	24.62	98.71%
				Commercial/Industrial-LT	8765	0	8765	6%	27.92	0.00	27.915	6%				0	0%			22.85	22.73	99.49%
				Commercial/Industrial-HT	54	0	54	0%	41.02	0.00	41.02	9%				0	0%			79.56	85.01	106.85%
				Others	1305	0	1305	1%	9.97	0.00	9.97482	2%				0	0%			7.51	7.30	97.12%
Sub-total				136644	11404	148048	100%	397.969038	66.402852	464.37189	100%	559.53	318.911328	143.571613	462.482941	100%	97.043112	17%	177.456114	181.7420354	102.42%	15.35%
19	Jamnagar	290000	Khambhaliya	Residential	50536	0	50536	52%	46.07	0.00	46.071	17%	421.33	209.16	54.34	263.507323	100%	157.82126	37%	32.86	32.61	99.22%
				Agricultural	28858	5436	34294	36%	133.89	25.09	158.978718	58%				0	0%			11.32	11.42	100.84%
				Commercial/Industrial-LT	10741	0	10741	11%	33.38	0.00	33.379	12%				0	0%			25.68	25.79	100.42%
				Commercial/Industrial-HT	23	0	23	0%	27.90	0.00	27.895	10%				0	0%			75.54	74.63	98.79%
				Others	727	0	727	1%	7.24	0.00	7.24157	3%				0	0%			5.97	6.15	103.04%
Sub-total				90885	5436	96321	100%	248.476954	25.088334	273.565288	100%	421.33	209.16415	54.343173	263.507323	100%	157.82126	37%	151.377571	150.5888872	99.48%	37.78%
20	Jamnagar	290000	Jamjodhpur	Residential	45394	0	45394	46%	33.96	0.00	33.962	10%	387.09	161.07	104.61	265.672333	100%	121.416076	31%	21.85	22.00	100.67%
				Agricultural	38561	7077	45638	47%	220.20	48.18	268.3797	78%				0	0%			20.00	20.15	100.76%
				Commercial/Industrial-LT	5890	0	5890	6%	19.57	0.00	19.5715	6%				0	0%			16.69	16.77	100.44%
				Commercial/Industrial-HT	16	0	16	0%	14.12	0.00	14.12	4%				0	0%			9.69	9.80	101.14%
				Others	875	0	875	1%	6.59	0.00	6.591317	2%				0	0%			6.12	6.01	98.18%
Sub-total				90736	7077	97813	100%	294.44704	48.177477	342.624517	100%	387.09	161.066668	104.605665	265.672333	100%	121.416076	31%	74.3585925	74.72954577	100.50%	31.02%
21	Jamnagar	290000	Dwarka	Residential	54886	0	54886	60%	39.85	0.00	39.8505	20%	298.71	161.22	32.19	193.410918	100%	105.299157	35%	38.03	38.05	100.06%
				Agricultural	22927	3366	26293	29%	84.11	14.87	98.976657	49%				0	0%			7.47	7.59	101.56%
				Commercial/Industrial-LT	10030	0	10030	11%	32.88	0.00	32.883	16%				0	0%			27.96	27.57	98.61%
				Commercial/Industrial-HT	47	0	47	0%	23.22	0.00	23.22	11%				0	0%			27.44	28.82	105.03%
				Others	156	0	156	0%	7.19	0.00	7.190764	4%				0	0%			4.27	4.01	93.84%
Sub-total				88046	3366	91412	100%	187.249801	14.871112	202.120921	100%	298.71	161.218529	32.192389	193.410918	100%	105.299157	35%	105.173127	106.0401792	100.82%	34.72%
22	Junagadh	390000	Junagadh City	Residential	97814	0	97814	79%	130.09	0.00	130.0855	51%	286.70	252.13	0.10	252.223028	100%	34.480591	12%	89.47	90.71	101.39%
				Agricultural	95	5	100	0%	0.54	0.04	0.589107	0%				0	0%			0.06	0.06	99.98%
				Commercial/Industrial-LT	24298	0	24298	20%	91.42	0.00	91.424	36%				0	0%			69.83	70.83	101.44%
				Commercial/Industrial-HT	42	0	42	0%	16.52	0.00	16.515	6%				0	0%			27.72	28.20	101.74%
				Others	1882	0	1882	2%	17.42	0.00	17.417115	7%				0	0%			16.38	21.01	128.21%
Sub-total				124131	5	124136	100%	255.986313	0.044409	256.030722	100%	286.70	252.126977	0.096051	252.223028	100%	34.480591	12%	203.456298	210.8031049	103.61%	8.85%
23	Junagadh	390000	Junagadh-1	Residential	68900	0	68900	53%	58.39	0.00	58.3875	12%	556.23	278.26	248.40	526.657639	100%	29.569267	5%	40.08	40.47	100.97%
				Agricultural	39508	12650	52158	40%	247.93	115.73	363.659013	77%				0	0%			29.05	28.75	98.98%
				Commercial/Industrial-LT	7445	0	7445	6%	28.71	0.00	28.705	6%				0	0%			21.88	22.12	101.08%
				Commercial/Industrial-HT	39	0	39	0%	11.96	0.00	11.963	3%				0	0%			15.61	16.17	103.56%
				Others	1230	0	1230	1%	10.28	0.00	10.280449	2%				0	0%			10.33	10.32	99.96%
Sub-total				117122	12650	129772	100%	357.261964	115.732998	472.994962	100%	556.23	278.260383	248.397256	526.657639	100%	29.569267	5%	116.947433	117.8289574	100.75%	4.60%
24	Junagadh	390000	Junagadh-2	Residential	63806	0	63806	56%	52.28	0.00	52.2785	17%	313.03	179.57	137.39	316.968481	100%	-3.935981	-1%	34.80	35.32	101.50%
				Agricultural	32139	9330	41469	36%	156.83	63.86	220.684434	71%				0	0%			16.56	16.51	99.68%
				Commercial/Industrial-LT	7415	0	7415	7%	24.50	0.00	24.4955	8%				0	0%			18.99	19.13	100.75%
				Commercial/Industrial-HT	18	0	18	0%	6.24	0.00	6.24	2%				0	0%			8.74	8.47	96.92%
				Others	1182	0	1182	1%	8.05	0.00	8.045449	3%				0	0%			8.43	6.89	81.68%
Sub-total				104560	9330	113890	100%	247.888457	63.855426	311.743883	100%	313.03	179.573677	137.394804	316.968481	100%	-3.935981	-1%	87.5232413	86.32050745	98.63%	0.13%

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				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	Billed energy (MU)		% of energy consumption	T&D loss (MU)	T&D loss (%) (Overall Distribution Loss)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency			
25	Junagadh	390000	Veraval	Residential	89182	0	89182	59%	83.84	0.00	83.8405	22%	741.86	424.53	117.73	542.25982	100%	199.603862	27%	66.86	67.29	100.64%	
				Agricultural	32638	11502	44140	29%	97.55	54.49	152.039517	39%				0	0%			13.43	13.62	101.41%	
				Commercial/Industrial-LT	17123	0	17123	11%	61.71	0.00	61.7145	16%				0	0%			51.36	51.58	100.44%	
				Commercial/Industrial-HT	146	0	146	0%	82.61	0.00	82.605	21%				0	0%			167.56	167.88	100.19%	
				Others	1624	0	1624	1%	9.13	0.00	9.129073	2%				0	0%			13.14	9.34	71.04%	
Sub-total				140713	11502	152215	100%	334.838354	54.490236	389.32859	100%	741.86	424.529109	117.730711	542.25982	100%	199.603862	27%	312.355015	309.7071533	99.15%	27.53%	
26	Bhuj	310000	Bhuj	Residential	117760	0	117760	73%	130.25	0.00	130.2465	21%	1138.03	583.74	302.94	886.68204	100%	251.351405	22%	101.39	100.17	98.80%	
				Agricultural	12131	4798	16929	11%	145.57	140.51	286.074132	46%				0	0%			25.50	25.25	99.01%	
				Commercial/Industrial-LT	23628	0	23628	15%	98.89	0.00	98.8945	16%				0	0%			83.74	82.39	98.39%	
				Commercial/Industrial-HT	126	0	126	0%	88.76	0.00	88.755	14%				0	0%			166.57	167.45	100.53%	
				Others	2007	0	2007	1%	22.39	0.00	22.387431	4%				0	0%			39.11	25.71	65.74%	
Sub-total				155652	4798	160450	100%	485.851417	140.506146	626.357563	100%	1138.03	583.743892	302.938148	886.68204	100%	251.351405	22%	416.31196	400.9760516	96.32%	24.96%	
27	Bhuj	310000	Mandvi	Residential	111376	0	111376	74%	122.54	0.00	122.5365	21%	1143.54	736.30	295.58	1031.876468	100%	111.661228	10%	76.78	76.83	100.07%	
				Agricultural	15631	6955	22586	15%	128.57	136.85	265.417266	45%				0	0%			25.28	24.86	98.32%	
				Commercial/Industrial-LT	15547	0	15547	10%	60.30	0.00	60.297	10%				0	0%			51.36	50.56	98.45%	
				Commercial/Industrial-HT	85	0	85	0%	126.64	0.00	126.635	21%				0	0%			378.29	381.57	100.87%	
				Others	1600	0	1600	1%	20.20	0.00	20.196651	3%				0	0%			23.78	20.27	85.24%	
Sub-total				144239	6955	151194	100%	458.23628	136.846137	595.082417	100%	1143.54	736.297187	295.579281	1031.876468	100%	111.661228	10%	555.489583	554.087537	99.75%	9.99%	
28	Bhuj	310000	Nakhtrana	Residential	67864	0	67864	71%	52.66	0.00	52.6615	12%	668.46	321.17	247.59	568.760768	100%	99.702242	15%	37.25	36.73	98.61%	
				Agricultural	13526	3909	17435	18%	206.32	114.00	320.319366	75%				0	0%			33.11	33.17	100.19%	
				Commercial/Industrial-LT	8435	0	8435	9%	23.83	0.00	23.829	6%				0	0%			18.46	18.79	101.79%	
				Commercial/Industrial-HT	29	0	29	0%	15.79	0.00	15.785	4%				0	0%			27.11	27.02	99.68%	
				Others	2180	0	2180	2%	14.21	0.00	14.214138	3%				0	0%			17.63	18.07	102.47%	
Sub-total				92034	3909	95943	100%	312.811101	113.997903	426.809004	100%	668.46	321.169039	247.591729	568.760768	100%	99.702242	15%	133.550489	133.7726693	100.17%	14.77%	
29	Anjar	450000	Anjar	Residential	62722	0	62722	78%	105.87	0.00	105.872	20%	1137.77	780.44	166.77	947.217239	100%	190.550584	17%	58.55	58.91	100.62%	
				Agricultural	5953	2339	8292	10%	87.49	77.71	165.202659	32%				0	0%			14.57	14.41	98.88%	
				Commercial/Industrial-LT	8729	0	8729	11%	52.57	0.00	52.5685	10%				0	0%			37.28	38.24	102.58%	
				Commercial/Industrial-HT	120	0	120	0%	187.01	0.00	187.005	36%				0	0%			496.37	515.91	103.94%	
				Others	791	0	791	1%	10.72	0.00	10.720965	2%				0	0%			33.79	17.46	51.67%	
Sub-total				78315	2339	80654	100%	443.661234	77.70789	521.369124	100%	1137.77	780.442899	166.77434	947.217239	100%	190.550584	17%	640.555933	644.9242724	100.68%	16.18%	
30	Anjar	450000	Gandhidham	Residential	78281	0	78281	79%	192.44	0.00	192.437	35%	828.08	741.39	1.78	743.173595	100%	84.906833	10%	117.64	117.49	99.88%	
				Agricultural	821	124	945	1%	4.00	0.82	4.820538	1%				0	0%			0.42	0.41	97.81%	
				Commercial/Industrial-LT	18876	0	18876	19%	139.66	0.00	139.659	25%				0	0%			96.87	98.15	101.33%	
				Commercial/Industrial-HT	344	0	344	0%	205.63	0.00	205.625	37%				0	0%			422.21	433.16	102.59%	
				Others	625	0	625	1%	6.40	0.00	6.401463	1%				0	0%			5.47	5.57	101.91%	
Sub-total				98947	124	99071	100%	548.127133	0.815868	548.943001	100%	828.08	741.392938	1.780657	743.173595	100%	84.906833	10%	642.599647	654.7924068	101.90%	8.55%	
31	Anjar	450000	Bhachau	Residential	56844	0	56844	68%	48.64	0.00	48.635	9%	1223.68	676.15	179.79	855.942751	100%	367.736413	30%	27.57	27.00	97.92%	
				Agricultural	12802	3929	16731	20%	135.08	81.92	216.999273	42%				0	0%			17.46	17.26	98.86%	
				Commercial/Industrial-LT	7654	0	7654	9%	42.56	0.00	42.562	8%				0	0%			39.08	39.44	100.92%	
				Commercial/Industrial-HT	118	0	118	0%	199.27	0.00	199.265	38%				0	0%			463.41	465.15	100.38%	
				Others	1783	0	1783	2%	10.43	0.00	10.431804	2%				0	0%			66.24	10.62	16.03%	
Sub-total				79201	3929	83130	100%	435.974978	81.918099	517.893077	100%	1223.68	676.154471	179.78828	855.942751	100%	367.736413	30%	613.755028	559.4628374	91.15%	36.24%	
32	Bhavnagar	270000	Bhavnagar City-1	Residential	92368	0	92368	75%	114.83	0.00	114.8295	45%	351.44	326.70	0.41	327.113666	100%	24.322988	7%	90.44	91.35	101.01%	
				Agricultural	68	45	113	0%	0.17	0.19	0.360381	0%				0	0%			0.03	0.03	108.22%	
				Commercial/Industrial-LT	29165	0	29165	24%	98.02	0.00	98.0215	38%				0	0%			93.09	93.20	100.12%	
				Commercial/Industrial-HT	60	0	60	0%	36.15	0.00	36.145	14%				0	0%			71.57	72.43	101.19%	
				Others	1158	0	1158	1%	8.55	0.00	8.54562	3%				0	0%			5.21	5.41	103.85%	
Sub-total				122819	45	122864	100%	257.715326	0.186675	257.902001	100%	351.44	326.702863	0.410803	327.113666	100%	24.322988	7%	260.340471	262.416698	100.80%	6.18%	

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				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	Billed energy (MU)		% of energy consumption	T&D loss (MU)	T&D loss (%) (Overall Distribution Loss)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency			
Input energy (MU)	Metered energy	Unmetered/assessment energy	Total energy																				
33	Bhavnagar	270000	Bhavnagar Rural	Residential	67934	0	67934	65%	49.73	0.00	49.73	9%	1021.09	808.88	86.18	895.060657	100%	126.026057	12%	41.85	41.78	99.81%	
				Agricultural	20741	5542	26283	25%	92.12	39.86	131.977653	23%				0	0%			10.51	10.71	101.90%	
				Commercial/Industrial-LT	8336	0	8336	8%	41.40	0.00	41.402	7%				0	0%			35.00	35.50	101.43%	
				Commercial/Industrial-HT	176	0	176	0%	333.23	0.00	333.23	59%				0	0%			448.88	456.18	101.63%	
				Others	1736	0	1736	2%	9.31	0.00	9.30535	2%				0	0%			28.44	8.64	30.38%	
Sub-total					98923	5542	104465	100%	525.789694	39.855309	565.645003	100%	1021.09	808.877625	86.183032	895.060657	100%	126.026057	12%	564.686081	552.8087069	97.90%	14.19%
34	Bhavnagar	270000	Mahuva	Residential	76556	0	76556	61%	48.78	0.00	48.7795	15%	493.01	295.43	69.88	365.307502	100%	127.703635	26%	48.95	49.49	101.11%	
				Agricultural	30731	5902	36633	29%	154.38	32.17	186.555528	56%				0	0%			14.52	15.14	104.32%	
				Commercial/Industrial-LT	11235	0	11235	9%	47.28	0.00	47.2785	14%				0	0%			42.07	42.42	100.81%	
				Commercial/Industrial-HT	171	0	171	0%	43.49	0.00	43.485	13%				0	0%			66.63	68.48	102.78%	
				Others	1454	0	1454	1%	9.20	0.00	9.202544	3%				0	0%			9.31	9.43	101.28%	
Sub-total					120147	5902	126049	100%	303.130092	32.17098	335.301072	100%	493.01	295.426603	69.880899	365.307502	100%	127.703635	26%	181.47342	184.9588313	101.92%	24.48%
35	Bhavnagar	270000	Palitana	Residential	97430	0	97430	58%	71.89	0.00	71.8885	18%	556.48	321.17	107.16	428.335417	100%	128.140618	23%	58.78	59.05	100.47%	
				Agricultural	43601	10802	54403	32%	188.42	49.50	237.916305	59%				0	0%			17.63	18.45	104.60%	
				Commercial/Industrial-LT	15087	0	15087	9%	45.03	0.00	45.034	11%				0	0%			35.88	36.57	101.91%	
				Commercial/Industrial-HT	57	0	57	0%	29.07	0.00	29.07	7%				0	0%			69.17	68.10	98.45%	
				Others	2279	0	2279	1%	20.22	0.00	20.221442	5%				0	0%			12.41	10.28	82.83%	
Sub-total					158454	10802	169256	100%	354.630718	49.499529	404.130247	100%	556.48	321.174167	107.16125	428.335417	100%	128.140618	23%	193.875586	192.4399245	99.26%	23.60%
36	Bhavnagar	270000	Bhavnagar City-2	Residential	99526	0	99526	77%	112.58	0.00	112.5795	31%	552.77	462.13	20.66	482.792201	100%	69.973515	13%	88.44	89.21	100.87%	
				Agricultural	11445	2073	13518	10%	51.12	9.54	60.661122	16%				0	0%			4.31	4.31	99.97%	
				Commercial/Industrial-LT	14689	0	14689	11%	82.26	0.00	82.256	22%				0	0%			75.19	75.75	100.75%	
				Commercial/Industrial-HT	144	0	144	0%	101.80	0.00	101.804	28%				0	0%			152.98	156.11	102.05%	
				Others	1245	0	1245	1%	10.44	0.00	10.443789	3%				0	0%			8.19	7.08	86.47%	
Sub-total					127049	2073	129122	100%	358.205515	9.538896	367.744411	100%	552.77	462.131183	20.661018	482.792201	100%	69.973515	13%	329.098933	332.4622298	101.02%	11.77%
37	Botad	410000	Botad	Residential	88030	0	88030	60%	74.07	0.00	74.074	17%	664.72	416.50	91.12	507.62798	100%	157.087916	24%	55.10	54.88	99.62%	
				Agricultural	34872	6693	41565	29%	163.06	42.02	205.081155	48%				0	0%			15.71	15.83	100.76%	
				Commercial/Industrial-LT	15044	0	15044	10%	54.25	0.00	54.248	13%				0	0%			44.21	44.32	100.25%	
				Commercial/Industrial-HT	54	0	54	0%	85.08	0.00	85.08	20%				0	0%			160.98	167.18	103.85%	
				Others	1082	0	1082	1%	10.78	0.00	10.775985	3%				0	0%			11.92	12.35	103.58%	
Sub-total					139082	6693	145775	100%	387.241152	42.017988	429.25914	100%	664.72	416.504576	91.123404	507.62798	100%	157.087916	24%	287.914682	294.5567079	102.31%	21.87%
38	Botad	410000	Gadhada	Residential	50096	0	50096	56%	33.25	0.00	33.2525	14%	330.68	195.79	63.62	259.414586	100%	71.264092	22%	27.26	27.40	100.51%	
				Agricultural	27791	5364	33155	37%	130.98	29.42	160.393125	68%				0	0%			12.12	12.45	102.76%	
				Commercial/Industrial-LT	5849	0	5849	7%	21.34	0.00	21.343	9%				0	0%			20.72	20.27	97.85%	
				Commercial/Industrial-HT	27	0	27	0%	15.14	0.00	15.14	6%				0	0%			44.30	45.71	103.19%	
				Others	794	0	794	1%	6.23	0.00	6.229614	3%				0	0%			5.54	4.91	88.62%	
Sub-total					84557	5364	89921	100%	206.942975	29.415264	236.358239	100%	330.68	195.794151	63.620435	259.414586	100%	71.264092	22%	109.92588	110.7354087	100.74%	20.97%
39	Amreli	270000	Amreli-1	Residential	114694	0	114694	59%	102.39	0.00	102.39	17%	732.51	513.32	125.71	639.033023	100%	93.474135	13%	77.78	78.33	100.71%	
				Agricultural	50084	9040	59124	31%	270.87	58.18	329.057328	54%				0	0%			24.86	24.98	100.47%	
				Commercial/Industrial-LT	17173	0	17173	9%	67.44	0.00	67.4395	11%				0	0%			53.89	53.99	100.19%	
				Commercial/Industrial-HT	104	0	104	0%	99.31	0.00	99.305	16%				0	0%			140.24	144.80	103.25%	
				Others	1984	0	1984	1%	15.31	0.00	15.312097	2%				0	0%			21.10	16.71	79.18%	
Sub-total					184039	9040	193079	100%	555.319882	58.184043	613.503925	100%	732.51	513.324765	125.708258	639.033023	100%	93.474135	13%	317.87178	318.8085965	100.29%	12.50%
40	Amreli	270000	Amreli-2	Residential	72165	0	72165	55%	47.99	0.00	47.985	12%	448.70	233.41	153.14	386.544424	60%	62.158809	14%	41.65	42.20	101.33%	
				Agricultural	40357	8581	48938	37%	255.28	71.11	326.390037	80%				0	0%			24.62	24.80	100.74%	
				Commercial/Industrial-LT	8796	0	8796	7%	19.88	0.00	19.88	5%				0	0%			14.12	14.24	100.79%	
				Commercial/Industrial-HT	14	0	14	0%	5.88	0.00	5.88	1%				0	0%			3.11	4.30	138.55%	
				Others	1342	0	1342	1%	9.74	0.00	9.743566	2%				0	0%			14.77	8.35	56.51%	
Sub-total					122674	8581	131255	100%	338.77272	71.105883	409.878603	100%	448.70	233.409301	153.135123	386.544424	100%	62.158809	14%	98.2654005	93.88683814	95.54%	17.69%

Details of Division Wise Losses (See note below**)

Division Wise Losses

Period From 1st April, 2020 to 31st March, 2021

S.No	Name of circle	Circle code	Name of Division	Consumer profile																			Energy parameters				Losses		Commercial Parameter			AT & C loss (%)
				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	Billed energy (MU)				T&D loss (MU)	T&D loss (%) (Overall Distribution Loss)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency											
													Input energy (MU)	Metered energy	Unmetered/assessment energy	Total energy						% of energy consumption										
41	Amreli	270000	Savarkundla	Residential	105140	0	105140	65%	83.32	0.00	83.315	19%	795.00	582.34	98.34	680.683996	100%	114.31989	14%	63.70	63.82	100.20%										
				Agricultural	35482	6794	42276	26%	171.75	45.51	217.263369	49%				0	0%			16.17	16.19	100.13%										
				Commercial/Industrial-LT	13235	0	13235	8%	43.32	0.00	43.319	10%				0	0%			36.63	36.85	100.58%										
				Commercial/Industrial-HT	67	0	67	0%	86.06	0.00	86.06	19%				0	0%			263.73	258.11	97.87%										
				Others	1925	0	1925	1%	11.98	0.00	11.981631	3%				0	0%			23.20	11.15	48.06%										
Sub-total				155849	6794	162643	100%	396.427242	45.511758	441.939	100%	795.00	582.3428	98.341196	680.683996	100%	114.31989	14%	403.428461	386.1142642	95.71%	18.05%										
42	Amreli	270000	Una	Residential	89263	0	89263	60%	71.28	0.00	71.282	24%	564.10	234.42	115.86	350.284026	100%	213.813556	38%	50.47	50.58	100.20%										
				Agricultural	34155	11461	45616	31%	105.29	53.61	158.898939	53%				0	0%			13.19	13.19	100.04%										
				Commercial/Industrial-LT	12437	0	12437	8%	44.88	0.00	44.8815	15%				0	0%			32.85	32.75	99.68%										
				Commercial/Industrial-HT	42	0	42	0%	16.31	0.00	16.305	5%				0	0%			11.95	12.25	102.57%										
				Others	796	0	796	1%	8.32	0.00	8.318159	3%				0	0%			23.45	22.76	97.05%										
Sub-total				136693	11461	148154	100%	246.072538	53.61306	299.685598	100%	564.10	234.420047	115.863979	350.284026	100%	213.813556	38%	131.906451	131.5247233	99.71%	38.08%										
43	Surendranagar	380000	Surendranagar	Residential	137649	0	137649	71%	113.07	0.00	113.0655	14%	1670.54	1185.47	118.01	1303.478354	#DIV/0!	367.060528	22%	97.51	97.50	99.99%										
				Agricultural	25394	4638	30032	15%	208.43	54.40	262.827396	34%				0	#DIV/0!			21.59	21.96	101.74%										
				Commercial/Industrial-LT	25048	0	25048	13%	122.36	0.00	122.356	16%				0	#DIV/0!			117.08	117.10	100.02%										
				Commercial/Industrial-HT	158	0	158	0%	270.26	0.00	270.26	34%				0	#DIV/0!			687.32	690.25	100.43%										
				Others	1226	0	1226	1%	14.87	0.00	14.874058	2%				0	#DIV/0!			54.93	21.51	39.15%										
Sub-total				189475	4638	194113	100%	728.981536	54.401418	783.382954	100%	1670.54	1185.471176	118.007178	1303.478354	100%	367.060528	22%	978.430006	948.322764	96.92%	24.37%										
44	Surendranagar	380000	Limbd	Residential	52434	0	52434	63%	31.75	0.00	31.7455	11%	426.16	184.44	37.91	222.346262	100%	203.808849	48%	21.70	21.18	97.58%										
				Agricultural	20467	3148	23615	28%	102.20	17.48	119.685399	42%				0	0%			7.96	7.84	98.52%										
				Commercial/Industrial-LT	6486	0	6486	8%	33.60	0.00	33.604	12%				0	0%			33.52	34.31	102.36%										
				Commercial/Industrial-HT	46	0	46	0%	94.65	0.00	94.65	33%				0	0%			88.68	94.42	106.48%										
				Others	513	0	513	1%	7.48	0.00	7.477463	3%				0	0%			13.24	8.95	67.61%										
Sub-total				79946	3148	83094	100%	269.677399	17.484963	287.162362	100%	426.16	184.440965	37.905297	222.346262	100%	203.808849	48%	165.096785	166.7007112	100.97%	47.32%										
45	Surendranagar	380000	Dhrangadhra	Residential	71822	0	71822	67%	48.71	0.00	48.712	11%	905.00	356.44	240.98	597.423561	100%	307.577015	34%	38.33	38.25	99.78%										
				Agricultural	19943	6438	26381	25%	212.14	111.37	323.509347	71%				0	0%			25.57	26.12	102.15%										
				Commercial/Industrial-LT	8188	0	8188	8%	34.18	0.00	34.1795	7%				0	0%			29.22	28.01	95.88%										
				Commercial/Industrial-HT	53	0	53	0%	38.89	0.00	38.885	9%				0	0%			97.57	102.18	104.71%										
				Others	1165	0	1165	1%	11.48	0.00	11.484867	3%				0	0%			26.03	12.81	49.20%										

Details of Division Wise Losses (See note below**)

Division Wise Losses																						
Period From 1st April, 2020 to 31st March, 2021																						
S.No	Name of circle	Circle code	Name of Division	Consumer profile								Energy parameters				Losses		Commercial Parameter			AT & C loss (%)	
				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	Billed energy (MU)				T&D loss (MU)	T&D loss (%) (Overall Distribution Loss)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore		Collection Efficiency
Sub-total				101171	6438	107609	100%	345.39923	111.3715	456.77071	100%	905.000576	356.442206	240.981355	597.4236	100%	307.577	34%	216.732	207.3714	95.68%	36.84%
76	Total		Residential	3764379	0	3764379	64%	3865.1821	0	3865.1821	19%	35391.765	24830.516	4684.055	29514.57	100%	5877.19	16.61%	2961.57	2971.834	100.35%	
			Agricultural	1070408	256117	1326525	23%	5853.2033	2165.025	8018.2281	39%				0	0%			642.725	646.6789	100.62%	
			Commercial/Industrial-L	702579	0	702579	12%	3515.6985	0	3515.6985	17%				0	0%			2995.47	3006.494	100.37%	
			Commercial/Industrial-H	6290	0	6290	0%	4865.897	0	4865.897	23%				0	0%			10503.1	10759.2	102.44%	
			Others	49885	0	49885	1%	467.644	0	467.644	2%				0	0%			690.249	476.3575	69.01%	
77	At company level			5593541	256117	5849658	100%	18567.62	2165.02	20732.65	100%	35391.76	24830.52	4684.05	29514.57	100%	5877.19	16.61%	17793.1	17860.6	100.38%	16.29%

** 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

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: Sh J J Gandhi - CE(Tech)

Name of the DISCOM: PGVCL
 Full Address:- Regd. & Corporate Office,
 "Paschim Gujarat Vij Seva Sadan",
 Nana Mava Main Road, Laxminagar, Rajkot
 Seal

Chief Engineer
 PGVCL - Corporate Office
 Rajkot.

Signature:-

Name of Energy Manager: G S Vaghela

Registration Number: EA-11477