

Annual Energy Audit Report

AspenPark Infra Vadodara Private Limited
Vadodara

Year: 2021-22



Annual Energy Audit for DISCOM Sector under BEE DISCOM Notification

AspenPark Infra Vadodara Private Limited

Survey No.26, Village Pipaliya, Waghodiya
Vadodara, Gujarat, 391760



Prepared For



Bureau of Energy Efficiency

[Govt. of India – Ministry of Power]
4th Floor, Sewa Bhawan, R. K. Puram, New Delhi – 110066, India

Prepared by



MITCON Consultancy & Engineering Services Ltd,

215, 2nd Floor, Ratna Business Square,
Opp. H. K. College, Ashram Road, Ahmedabad-380 009, Gujarat, India
Accredited Energy Auditor: Dr. Jignesh Patel (AEA-104)

July 2022

Disclaimer

1. This detailed energy audit report, the business plan/financial projections, if any and its contents are confidential. Accordingly, report and its contents are on the basis that they will be held in complete confidence.
2. By accepting a copy of this report, the recipient agrees to keep its contents and any other information, which is disclosed to such recipient, confidential and shall not divulge, distribute or disseminate any information contained herein, in part or in full, without the prior approval of AspenPark Infra Vadodara Private Ltd. (AIVPL) and MITCON Consultancy & Engineering Services Ltd. (MITCON).
3. This report is prepared exclusively for the benefit and for the internal use of the recipient and/or its affiliates and does not carry any right of publication or disclosure to any other party.
4. The client has engaged MITCON for preparation of energy audit report for the assessee. We have relied upon and assumed, without independent verification, the accuracy and completeness of all information given by the client which has frequently been referred in this report.
5. The report developed by MITCON has used inputs and conclusions drawn out of discussions with the client and reference to project specific studies, and other information/documents obtained by MITCON from various sources/available publicly, which MITCON believes to be reliable. MITCON has not carried out any independent verification for the truthfulness of the same and its accuracy and reliability cannot be guaranteed.
6. MITCON and their respective directors, officers, agents, employees and shareholders (collectively referred to as "Relevant Persons") expressly disclaim any responsibility or liability for any loss, damage or inconvenience caused to anybody whether directly or indirectly due to this report and the information contained herein. MITCON may be exempted from all errors and omissions in this report.
7. This presentation may include future expectations, projections, or forward looking statements. These forward looking statements involve known and unknown risks, uncertainties and other factors that may cause actual events to be materially different from future events expressed or implied by such forward looking statements.
8. This report is not directed or intended for distribution to, or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MITCON and its affiliates to any registration or licensing requirement within such jurisdiction. Persons in whose possession this document may come are required to inform them of and to observe such restriction.

- Management, MITCON

Acknowledgement

We are thankful to AspenPark Infra Vadodara Private Limited, Vadodara for their positive support in undertaking this intricate task of verification study. The energy audit field visit and data verification process would not have been completed on time without their interaction and timely support. We are grateful for their co-operation during verification and provision of data for the study. We would like to particularly thank

Mr. Apurva Shah	-	Head, SEZ
Mr. Jalpesh Kumar Panchal	-	Sr. Manager, Technical

and all other supporting staff who have given full co-operation and support. They took keen interest and gave valuable inputs during the course of study.

Study Team

The annual energy audit involved engagement of following team members representing MITCON Consultancy & Engineering Services Ltd. that was awarded the said work for AIVPL vide their PO No. AIVPOSRV/21-22/0073 dated 09 Mar 2022

Company/ Institution/ Organization	Team Member	Designation	Role
MITCON Consultancy & Engineering Services Ltd.	Mr. Jignesh Patel	Accredited Energy Auditor (AEA-0104)	Project head, review of data and report
	Mr. Sadhan kumar Sinha	Sector Expert	Review of data and report
	Mr. Chintan Shah	Certified Energy Auditor	Field visit inspection, document verification and report writing
	Mr. Mohit Gupta	Team Member	Field visit inspection, document verification and report writing
	Mr. Kalpesh Patel	Team Member	Field visit inspection, document verification and report writing

Abbreviations

AIVPL	AspenPark Infra Vadodara Pvt. Ltd.
AMI	Advanced Metering Infrastructure
AMR	Automated Meter Reading
AT & C	Aggregate Technical and Commercial
BEE	Bureau of Energy Efficiency
CKT	Circuit Kilometer
CT	Current Transformer
DC	Designated Consumer
DISCOM	Electricity Distribution Company
DT	Distribution Transformer
EA	Energy Auditor
EHT	Extra High Tension
EHV	Extra High Voltage
EM	Energy Manager
FY	Financial Year
HT	High Tension
HVDS	High Voltage Distribution System
KVA	Kilo Volt Ampere
LT	Low Tension
MoP	Ministry of Power
MU	Million Unit
MW	Mega Watt
NO	Nodal Officer
NLDC	National Load Dispatch Centre
OA	Open Access
POC	Point of Connection
PT	Potential Transformer
PX	Power Exchange
RE	Renewable Energy
RLDC	Regional Load Dispatch Centre
SDA	State Designated Agency
SLD	Single Line Diagram
SLDC	State Load Dispatch Centre
T & D	T & D Transmission and Distribution
XLPE	Cross Linked Polyethylene

Table of Contents

1	Executive Summary.....	9
1.1	Objective of the study.....	9
1.2	Brief Overview of DISCOM.....	9
1.3	Important Parameters	9
1.4	Critical Comments	9
2	Background.....	10
2.1	About PAT under NMEEE.....	10
2.2	Role of BEE.....	10
2.3	About DISCOM Sector	10
2.4	Period of Energy Auditing and accounting.....	11
3	Introduction of DISCOM [AIVPL]	12
3.1	Name and Address of Designated Consumer.....	12
3.2	Name and details of energy manager and Authorized signatory of DISCOM	12
3.3	About DISCOM.....	12
3.4	General Information	13
4	Evaluation of Energy Management System.....	15
4.1	Energy accounts for previous years	15
4.2	Input Energy Detail.....	15
4.2.1	Source of Power Purchase.....	15
4.2.2	Input Energy Feeder Wise.....	15
4.3	Infrastructure Details	15
4.3.1	Transformers and Feeders (Voltage level wise)	15
4.3.2	Number of feeders with line length and cable details	16
4.3.3	Single Line Diagram.....	16
4.3.4	Summary of Electrical Power Distribution Infrastructure	17
4.4	Energy accounts and performance in the current year	23
4.4.1	Voltage Wise Losses	23
4.4.2	Feeder and DT wise losses.....	23
4.5	Unit Performance on Energy Consumption and reduction of losses details	23
4.5.1	Net Input Energy	23
4.5.2	Total Billed Energy	24
4.5.3	Transmission & Distribution loss	25
4.5.4	Category wise energy consumption.....	26
4.5.5	Detailed Consumer Category wise Energy Consumption	26
4.5.6	Energy Consumption and reduction of losses details.....	26
4.6	Energy Conservation Measures already taken.....	27
5	Inclusions & Exclusions.....	27

6	Critical Analysis.....	27
7	Measuring Equipment and Instrument Calibration	28
	Annexures	29
	Annexure- I Introduction of Verification Team	30
	Annexure- II Minutes of Meeting with the DISCOM team	31
	Annexure- III Check List prepared by auditing Firm	32
	Annexure- IV Brief Approach, Scope & Methodology for audit	33
	Annexure- V Power Purchase Detail (Power Purchase bills)	35
	Annexure- VI Sample Single Line Diagram.....	50
	Annexure- VII Category wise Service Details	53
	Annexure- VIII List of Parameters arrived through calculation or formulae with list of documents as source of data	54
	Annexure- IX Calibration Reports	55

List of Tables

Table 1	Source of Power Purchase.....	15
Table 2	Input Energy Feeder Wise	15
Table 3	Power and Distribution Transformer Capacity	15
Table 4	Feeder and Cable Details.....	16
Table 5	Voltage Wise Losses	23
Table 6	Net Input Energy (Last 4 Years).....	23
Table 7	Net Input Energy (FY21-22)	23
Table 8	Billed Energy (Last 4 years)	24
Table 9	Billed Energy (FY20-21)	24
Table 10	T & D Loss Summary (Last 4 years)	25
Table 11	ACS - ARR Gap Summary (Last 4 years)	27

List of Figures

Figure 1	ACS-ARR Summary.....	28
Figure 2	Single Line Diagram AIVPL (1/3).....	50
Figure 3	Single Line Diagram AIVPL (2/3).....	51
Figure 4	Single Line Diagram AIVPL (3/3).....	52

1 Executive Summary

1.1 Objective of the study

- To develop and establish a framework and a set of comprehensive guidelines that all Distribution utilities across India can follow and adhere to.
- To identify areas of high loss and pilferage, and thereafter focus efforts to take corrective action

1.2 Brief Overview of DISCOM

AspenPark Infra Vadodara Private Limited has developed a Multi sector Special Economic Zone (SEZ) for Hi-tech engineering products and related services at Village Pipaliya, Taluka Waghodia, District Vadodara in the State of Gujarat, under Section 3 of the SEZ Act, 2005 (28 of 2005).

Aspen has been notified as the Developer of the SEZ by the Ministry of Commerce & Industry (Department of Commerce), Government of India, vide Notification No. S.O. 1084 (E) dated July 3, 2007.

The below parameters mentioned in section 1.3 are documented and verified during energy audit site inspection and are true to the facts for FY2021-22.

1.3 Important Parameters

- Aspen purchases power from Madhya Gujarat Viji Co. Ltd., a subsidiary of Gujarat State Electricity Corp. Ltd.
- Present Capacity of the DISCOM is 2.9 MVA of demand supply through one 10 MVA power transformer installed at AIS substation.
- Aspen provides power supply to power in two categories:
 - 1) LV/LT Connections
 - 1) HV/HT Connections
- The DISCOM does not include any residential, agriculture or water supply tariff based consumer.
- The Aspen Park is in development stage and the number of consumers expected is increasing as the project progresses.
- DISCOM has 5 Distribution transformers. There are in total 6 registered consumers of the licensee. 100% of the Licensee consumers are metered consumers. Out of its total consumer base, around 83 % of the consumers are Industrial HT consumer, and 17% of them are commercial LT consumers. DISCOM does not have any residential, agricultural or public utilities consumer.
- DISCOM has completed 100% metering at consumer end. DISCOM has also completed 100 % metering at DT level with communicable meters. DISCOM has plans to replace electronic meters to smart meter within stipulated time. All source end meters at 11kV and 33 kV are periodically tested by the supplier.
- The total connected/contracted load demand of licensee is 13.94 MW; out of which more than 99% industrial HT category, while less than 1% include LT commercial category.
- The input energy at DISCOM periphery for the FY2021-22 was 7.74 MU out of which 7.57 MU were metered and billed; and 0.17 MU (~ 2.21%) was Transmission and Distribution loss. The AT & C losses are same as T & D losses as DISCOM is able to achieve almost 100% collection efficiency.

1.4 Critical Comments

Based on physical inspection of datasheets and invoice history, no variation in the input energy billed vs reported in proforma and output energy sold vs reported in proforma was found.

2 Background

2.1 About PAT under NMEEE

In 2008, Government of India announced 'National Action Plan on Climate Change (NAPCC), identifying eight missions to promote inclusive growth in the country. The National Mission for Enhanced Energy Efficiency (NMEEE) is one of the eight identified missions under.

NAPCC. One of the initiatives under NMEEE is Perform Achieve and Trade (PAT) scheme; which is a market-based mechanism having the objective to enhance energy efficiency (target based) in the country with an option to trade the additional energy savings, in the form of energy saving certificates. Bureau of Energy Efficiency (BEE) under Ministry of Power (MoP) is implementing this scheme in 13 energy intensive sectors namely- Thermal Power Plant, Aluminum, Pulp & Paper, Chlor- Alkali, Cement, Iron & Steel, Textile, Fertilizer, Refinery, Railways, DISCOM, Petro-chemical & Buildings.

In order to further widen the coverage of PAT scheme, in subsequent phases, it is required to bring in more DISCOM units/establishments under its ambit by increasing the number of designated consumers in already notified 13 energy intensive sectors.

The baseline SEC and potential of energy conservation would be considered to arrive at the energy saving targets for newly added DCs by BEE during the subsequent phases of PAT.

2.2 Role of BEE

Role of BEE for formulation of Sector Specific Technical committee and finalization of Target setting methodology. Establishment of Energy Consumption Norms and Standards for DCs in consultation with Technical Committee. Conducting the Regional Workshops and guiding DCs regarding the PAT Scheme.

2.3 About DISCOM Sector

A healthy distribution sector is considered as the key to a financially viable power sector. One of the major challenges affecting the health of Indian distribution sector is the high aggregate technical and commercial (AT&C) losses. AT&C loss is the sum of technical loss and commercial loss. The technical loss occurs due to flow of energy into transmission and distribution network. Technological advancements could help in reduction of technical loss to an optimum level. As per international norms, the technical loss in a distribution system should be in the range of 4-5%.

On the other hand, the commercial loss is mostly man-made and occurs due to inefficient billing and collection of the energy supplied, illegal connections, theft, meter tampering, and pilferage, etc. The commercial loss is occurring mostly due to managerial issues and could be brought down to zero with efficient administrative practices. National aggregate technical and commercial losses stood at 22%. As long as AT&C losses continues to be in such a high range, it is difficult for the DISCOMs to be commercially viable.

In order to improve the energy efficiencies in the power system, State electricity Distribution Companies are included in PAT cycle II. DISCOMs having AT&C losses of 1000 Million Unit (MU) (Equivalent to 86000 MTOE) and above are notified as Designated Consumers (DCs) and targets were assigned to 44 DISCOMs for reducing the T&D losses under PAT Cycle-II. T&D losses is considered as performance matrix of electricity distribution companies under PAT.

As per the notification, which was formulated in consultation with the Bureau of Energy Efficiency (BEE), "All entities having issued distribution license by State/Joint Electricity Regulatory Commission under the Electricity Act, 2003..." are notified as DCs. After this notification, all DISCOMs will be governed under various provisions of the EC Act 2001, such as appointment of energy manager, energy accounting and auditing, identification of energy losses category-wise, and implementation of energy conservation and efficiency measures. With this, the number of DISCOM covered under the EC Act.2001 will increase from 44 to 103.

This decision will facilitate energy accounting and auditing as mandatory activity for all the DISCOM, leading to the actions towards reducing losses and increase their profitability. The amendment is expected to help DISCOMs to monitor their performance parameters and bring in transparency in the distribution sector through professional inputs, it added. It will also assist in developing projects for reducing the electricity losses by DISCOMs and implementing effective solutions.

The amendment is expected to improve the financial state of DISCOMs. The quarterly data of these DISCOMs will be collected and monitored by the government to suggest measures for increasing the efficiency and reduce the energy losses.

2.4 Period of Energy Auditing and accounting

Period of Energy accounting in this report is considered to be by FY 21-22 i.e from 1st April 2021 till 31st March 2022.

The detailed energy audit site inspection and data verification exercise initiated from 04 July 2022 and was completed on 05 July 2022. Detailed description of day wise activity is mentioned in below table.

Date & Time	Activity	Description of Work Done
04-July-2022		
10:10	Arrival on site	
10:30 till 11:30	Opening Meeting: Scope of work, timetable, and verification methodology	Meeting with concerned site engineers and officers, discussion on audit methodology and site support required
11:30 till 18:00	Substation visit and metering cross verification	Visit to AIVPL main HT Substation and individual DT for site inspection and metering, accounting related observations.
05-July-2022		
10:00 till 18:00	Proforma and Data Verification	Verification of data filled in proforma and their source document at DISCOM office.
18:15	Closing Meeting	

3 Introduction of DISCOM [AIVPL]

3.1 Name and Address of Designated Consumer

AspenPark Infra Vadodara Private Limited (Formerly known as Aspen Infrastructure Ltd.)
Survey No.26, Village Pipaliya, Waghodiya
Vadodara, Gujarat, 391760

3.2 Name and details of energy manager and Authorized signatory of DISCOM

Energy Manager:

Mr. Jalpeshkumar Panchal, Sr. Manager
AspenPark Infra Vadodara Private Ltd.
Survey No.26, Village Pipaliya, Waghodiya
Vadodara, Gujarat, 391760
(M) +91-9714877447
(E-mail) jalpesh.panchal@skeiron.com

Nodal Officer:

Mr. Apurva Shah, Head-SEZ
AspenPark Infra Vadodara Private Ltd.
Survey No.26, Village Pipaliya, Waghodiya
Vadodara, Gujarat, 391760
(M) +91- 8155889990
(E-mail) apurva.shah@skeiron.com

3.3 About DISCOM

AspenPark Infra Vadodara, a Skeiron Group company, is a renowned developer of large Industrial Parks with a focus on sustainable practices. AspenPark is a leading infrastructure company that delivers industrial ready-to-use land space with all essential utilities like power and water. Established in 2007, headquartered at Pune, the company has a presence in industrial park space in Vadodara (Gujarat).

Aspen is one of the select few developers in India to running the SEZ successfully for over 12 years, overcoming numerous operating and compliance challenges. Aspen offer end-to-end services for building large-scale, technologically advanced industrial infrastructure. Our SEZ provide the advantage of single- point access for all processes and customizations, leading to quick decisions and faster work.

Aspen's integrated Facility Management (i-FM) team, a part of Aspen SEZ vertical, provides world class & cost-effective facility management services for upkeep and maintenance of its industrial parks. The team assists in offering support services so that the clients may concentrate on their core business.

AspenPark Infra Vadodara Private Limited has developed a Multi sector Special Economic Zone (SEZ) for Hi-tech engineering products and related services at Village Pipaliya, Taluka Waghodia, District Vadodara in the State of Gujarat, under Section 3 of the SEZ Act, 2005 (28 of 2005).

Aspen has been notified as the Developer of the SEZ by the Ministry of Commerce & Industry (Department of Commerce), Government of India, vide Notification No. S.O. 1084(E) dated July 3, 2007.

In accordance with the Ministry of Commerce & Industry (Department of Commerce) Notification dated March 3, 2010 and under the provisions of the Electricity Act, 2003 (EA 2003) and in view of the Hon'ble Commission's Order dated December 16, 2009 in the matter of grant of distribution license, Aspen is a deemed Distribution Licensee in its SEZ area at Vadodara.

Presently, Aspen is catering to electricity needs of consumers/Unit holders in its licensed area. It may be noted that for Aspen, electricity distribution business is not the main activity; it is only one of the support services extended to its consumers under its main activity.

3.4 General Information

General Information			
1	Name of the DISCOM	AspenPark Infra Vadodara Private Limited (Deemed Distribution licensee)	
2	i) Year of Establishment	2008	
	ii) Government/Public/Private	Private	
3	DISCOM's Contact details & Address		
i	City/Town/Village	Pipalya, Waghodiya	
ii	District	Vadodara	
iii	State	Gujarat	Pin 391760
iv	Telephone	02668-245301/02/03	Fax NA
4	Registered Office		
i	Company's Chief Executive Name	Mr. Abhinav Singh	
ii	Designation	Director	
iii	Address	304, Super Plaza, Sandesh Press Road	
iv	City/Town/Village	Vastrapur	P.O.
v	District	Ahmedabad	
vi	State	Gujarat	Pin 380054
vii	Telephone	NA	Fax
5	Nodal Officer Details*		
i	Nodal Officer Name (Designated at DISCOM's)	Mr. Apurva Shah	
ii	Designation	Head - SEZ	
iii	Address	AspenPark Infra Vadodara Private Limited (Deemed Distribution licensee)	
iv	City/Town/Village	Pipalya, Waghodiya	P.O. NA
v	District	Vadodara	
vi	State	Gujarat	Pin 391760
vii	Telephone	8155889990	Fax NA
6	Energy Manager Details*		
i	Name	Jalpesh Panchal	
ii	Designation	Deputy Manager- Technical	Whether EA or EM NA
iii	EA/EM Registration No.	NA	

General Information				
iv	Telephone	02668-245301/02/03	Fax	NA
v	Mobile	9714877447	E-mail ID	jalpesh.panchal@skeiron.com
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	1st April-2021 to 31st March-2022		

4 Evaluation of Energy Management System

4.1 Energy accounts for previous years

DISCOM is carrying out energy audit for the first time, the energy accounting for each year will be on built in subsequent years.

4.2 Input Energy Detail

4.2.1 Source of Power Purchase

Below table describes source of power supply and their technical details

Table 1 Source of Power Purchase

Sr. No	Name of Generation Station	Contracted Capacity (In MW/MVA)	Type of Station Generation	Type of Contract	Type of Grid	Point of Connection (POC) Loss MU	Voltage Level	Remarks
1	Madhya Gujarat Vij Co. Ltd., Vadodara	DISCOM	DISCOM	Long Term Contract	Intra-state	2.21%	66 kV	-

4.2.2 Input Energy Feeder Wise

Below table describes quantum of energy injected by each power supplier.

Table 2 Input Energy Feeder Wise

Sr. No	Name of Generation Station/ Power Source	Voltage Level	Meter Sr. No.	CT/PT Ratio	Import (MU)	Export (MU)	Remarks
1	MGVCL	66 kV	CHT 50456	CT -40A/1A, PT- 66kv/110v	7.7415	0.0	MGVCL is Govt. DISCOM

4.3 Infrastructure Details

4.3.1 Transformers and Feeders (Voltage level wise)

Below table describes installed capacity and infrastructure of power distribution available with DISCOM

Table 3 Power and Distribution Transformer Capacity

Parameter	Voltage Level	Transformers			Aggregate Capacity (kVA)
		Capacity (kVA)	Quantity (Nos)	Class	
Power Transformer	66/33	10000	1	Industrial	10000
	-	-	1	-	10000
Distribution Transformer	33/0.433	63	1	Industrial	63
	11/0.433	250	1	Industrial	250
	33/0.433	750	1	Industrial	750
	33/11	2500	2	Industrial	5000
Total					6063

4.3.2 Number of feeders with line length and cable details

Table 4 Feeder and Cable Details

Voltage Level	No. of Feeder	Length of line (cKt. KM)	Type of cable	Cable Size (Sq mm)	Type (Over Head/ Underground)
33 kV	2	2	XLPE/EPR Aluminum	300 Sqmm	Underground
11kV	2	0.703	XLPE/EPR Aluminum	300 Sqmm	Underground

4.3.3 Single Line Diagram

SLD of the network is attached in annexure- VI.

4.3.4 Summary of Electrical Power Distribution Infrastructure

Form-Details of Input Infrastructure					
1	Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	Remarks (Source of data)
i	Number of circles	0	0	0	NA
ii	Number of divisions	0	0	0	NA
iii	Number of sub-divisions	0	0	0	NA
iv	Number of feeders	4	4	4	Feeder logbook data
v	Number of DTs	5	5	5	-
vi	Number of consumers	6	6	6	-
2	Parameters	66kV and above	33kV	11/22kV	LT
a. i.	Number of conventional metered consumers	0	2	3	1
ii	Number of consumers with 'smart' meters	0	0	0	0
iii	Number of consumers with 'smart prepaid' meters	0	0	0	0
iv	Number of consumers with 'AMR' meters	0	0	0	0
v	Number of consumers with 'non-smart prepaid' meters	0	0	0	0
vi	Number of unmetered consumers	0	0	0	0
vii	Number of total consumers	0	2	3	1

b.i.	Number of conventionally metered Distribution Transformers	0	1	2	3
ii	Number of DTs with communicable meters	0	0	0	0
iii	Number of unmetered DTs	0	0	0	0
iv	Number of total Transformers	0	1	2	3
c.i.	Number of metered feeders	0	4	0	0
ii	Number of feeders with communicable meters	0	0	0	0
iii	Number of unmetered feeders	0	0	0	0
iv	Number of total feeders	0	4	0	0
d.	Line length (ct km)	0.703			
e.	Length of Aerial Bunched Cables	0			
f.	Length of Underground Cables	2			
3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	8.444	Includes input energy for franchisees	
		Medium Conventional	0		
		Short Term Conventional	0		
		Banking	0		
		Long-Term Renewable energy	0		
		Medium and Short-Term RE	0	Includes power from bilateral/ PX/ DEEP	

		Captive, open access input	0	Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.	
		Sale of surplus power	0.00%		
		Quantum of inter-state transmission loss	0	As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	8.444	Based on data from Form 5	
		Power at state transmission boundary	8.444		
ii	33kV	Long-Term Conventional	0		
		Medium Conventional	0		
		Short Term Conventional	0		
		Banking	0		
		Long-Term Renewable energy	0		
		Medium and Short-Term RE	0		
		Captive, open access input	0		
		Sale of surplus power	0.00%		
		Quantum of intra-state transmission loss	0		
				Power procured from intra-state sources	0
iii		Input in DISCOM wires network	8		
iv	33 kV	Renewable Energy Procurement	0		
		Small capacity conventional/ biomass/ hydro plants Procurement	0		
		Captive, open access input	0		
v	11 kV	Renewable Energy Procurement	0		
		Small capacity conventional/ biomass/ hydro plants Procurement	0		
		Sales Migration Input	0		
vi	LT	Renewable Energy Procurement	0		
		Sales Migration Input	0		

vii		Energy Embedded within DISCOM wires network	0		
viii		Total Energy Available/ Input	8		
4	Voltage level	Energy Sales Particulars	MU	Reference	
i	LT Level	DISCOM' consumers	0.008131	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive		Non DISCOM's sales	
		Embedded generation used at LT level		Demand from embedded generation at LT level	
		Sale at LT level	0		
		Quantum of LT level losses	0		
		Energy Input at LT level	0.008131		
ii	11 kV Level	DISCOM' consumers	3	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
		Embedded generation at 11 kV level used	0	Demand from embedded generation at 11kV level	
		Sales at 11 kV level	3		
		Quantum of Losses at 11 kV	0		
		Energy input at 11 kV level	3		
iii	33 kV Level	DISCOM' consumers	5	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive		Non DISCOM's sales	
		Embedded generation at 33 kV or below level		This is DISCOM and OA demand met via energy generated at same voltage level	

		Sales at 33 kV level	5		
		Quantum of Losses at 33 kV	0		
		Energy input at 33kV Level	5		
iv	> 33 kV	DISCOM' consumers	0	Include sales to consumers in franchisee areas, un-metered consumers	
		Demand from open access, captive		Non DISCOM's sales	
		Cross border sale of energy			
		Sale to other DISCOMs			
		Banking			
		Energy input at > 33kV Level	0		
		Sales at 66kV and above (EHV)	0		
Total Energy Requirement			8		
Total Energy Sales			8		

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	0.00813	0.00813	0	0
ii	11 Kv	3.069	2.941	0.1274	4.150
iii	33 kv	5	5	0.0430	0.923
iv	> 33 kv	0	0	0	0
6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	Not Applicable
i	LT				
ii	11 Kv				
iii	33 kv				
iv	> 33 kv				

Loss Estimation for DISCOM				
T&D loss	0			
D loss	0			
T&D loss (%)	2.214			
D loss (%)	2.214			

4.4 Energy accounts and performance in the current year

4.4.1 Voltage Wise Losses

The below tables describe losses incurring at each voltage level

Table 5 Voltage Wise Losses

Parameter	> 33kV	33 kV	11 kV	LT level	Total
	A	B	C	D	E
Input Energy (MU)	0.0	4.6633	3.0690	0.008	7.742
Sales (MU)	0.0	4.620	2.942	0.008	7.570
Losses (MU)	0.0	0.0430	0.128	0.000	0.171
% Losses	0.0	0.92	4.150	4.195	2.214
Source		Power purchase bills and meter readings	Monthly Meter readings	Monthly Meter readings	Monthly Meter readings

4.4.2 Feeder and DT wise losses

Parameter	Feeder 5/6	Feeder 7	Feeder 8
	A	B	C
Input Energy (MU)	3.069	0.066	4.597
Sales (MU)	2.9416	0.064	4.557
Losses (MU)	4.150	3.634	0.891

4.5 Unit Performance on Energy Consumption and reduction of losses details

4.5.1 Net Input Energy

It is the net energy at DISCOM periphery after adjusting the transmission losses and energy traded

Table 6 Net Input Energy (Last 4 Years)

Unit	Year 2018-19	Year 2019-20	Year 2020-21	Year 2021-22
Million kWh	9.59	11.28	8.44	7.742

Table 7 Net Input Energy (FY21-22)

Source	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Total
MGVCL	0.481	0.719	0.681	0.636	0.660	0.650	0.725	0.390	0.697	0.599	0.747	0.757	7.742
Total Purchased	0.481	0.719	0.681	0.636	0.660	0.650	0.725	0.390	0.697	0.599	0.747	0.757	7.742

4.5.2 Total Billed Energy

It is the Net energy billed.

Table 8 Billed Energy (Last 4 years)

Unit	Year 2018-19	Year 2019-20	Year 2020-21	Year 2021-22
Million kWh	9.40	11.10	8.27	7.57

Table 9 Billed Energy (FY20-21)

Source	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total
Net Input	0.481	0.719	0.681	0.636	0.660	0.650	0.725	0.390	0.697	0.599	0.747	0.757	7.742
Sales at 33 kV + Aux	0.245	0.458	0.427	0.352	0.413	0.406	0.461	0.165	0.421	0.335	0.477	0.460	4.620
Sales at 11 kV	0.220	0.245	0.239	0.270	0.233	0.231	0.247	0.210	0.259	0.251	0.256	0.282	2.942
Sales at LT (kWh)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.008
T&D Loss (MU)	0.015	0.015	0.015	0.014	0.013	0.012	0.017	0.014	0.016	0.013	0.013	0.015	0.172

Variations are due to time difference in measurement as well as seasonal effect.

MITCON Consultancy & Engineering Services Ltd.

4.5.3 Transmission & Distribution loss

It is the total T & D losses incurred for specific financial year.

Table 10 T & D Loss Summary (Last 4 years)

Unit	Year 2018-19	Year 2019-20	Year 2020-21	Year 2021-22
Million kWh	0.189	0.184	0.174	0.171
%	1.97	1.64	2.06	2.21

Note -

T&D Loss in MUs = Net Input Energy at DISCOM periphery in Mus. - Total Billed Energy in Mus.

4.5.4 Category wise energy consumption

Sr No.	Year	Consumer Category	No. of Consumer	Connected Load (MW)	% Contract load	Energy sold MUs
1	2021-22	Residential	0	0	0%	0
		Agriculture	0	0	0%	0
		Comm-LT	1	0.0185	0.01%	0.0081
		Comm-HT	5	13.925	99.99%	7.562
		Others	0	0	0%	0
		Total	6	13.9435	100%	7.570

4.5.5 Detailed Consumer Category wise Energy Consumption

Sr. No	Type of Consumers	Category of Consumers (EHT/HT/LT/Others)	Voltage Level (In Voltage)	No of Consumers	Total Consumption (In MU)
1	Domestic	N/A	440 V	0	0
2	Commercial	LT	440 V	1	0.0081
3	Public Lighting	N/A	440 V	0	0
4	HT Industrial	HT	33kV/11 kV	5	7.562
5	Industrial (Small)	N/A	440kV	0	0
6	HT Res. Apartments Applicable to all areas	N/A	11 kV	0	0
7	Temp. Connection	N/A	440 kV	0	0
8	Sales to other Licensee	N/A	132kV	0	0
	TOTAL			6	7.570

4.5.6 Energy Consumption and reduction of losses details

- The DISCOM has been hovering around 2.21% T&D loss.
- AIVPL follows the GERC order and tries to keep T&D loss near technical level.
- It can be seen that major consumption of units in licensee area consists of HT connections accounting to nearly 83% of total units billed. It is understood that since supply of this consumers is through 11 kV or above voltage level, distribution and metering losses are considerably low.
- DISCOM has an overall collection efficiency of 100% in FY22, which means the T & D loss and AT & C losses are equal at 2.21%
- The overall AT & C loss of the DISCOM are considerable lower than that of the average AT & C loss benchmark of 20.66% (CEA Report, Oct 2020)
- It can be seen that installed power transformer capacity of DISCOM is to the tune of 2.9 MVA whereas the distribution transformer capacity is 10MVA.

4.6 Energy Conservation Measures already taken

AIVPL has not specifically implemented energy saving as the % losses are very low. Also, DISCOM is catering electrical power in the range of 8 to 12 MU annually, hence they do not have high revenue (in terms of Capital) so as to expend on replacement of existing utility with higher energy efficiency utility.

5 Inclusions & Exclusions

It is to be noted that no inclusion and exclusion are made in the report data provided by AIVPL during the FY21-22.

6 Critical Analysis

It is the important indicator of the financial viability of DISCOM operations is the gap between the Average Revenue Realized (ARR) per unit of energy supplied and the average cost of supply (ACS).

A DISCOM's operations will be profitable if its ARR exceeds the ACS in a given year of operation. ACS is the sum of all costs associated in supplying power such as the cost of purchasing power from various generators (conventional, non-conventional, power exchanges, etc.), cost of operating and maintaining the distribution network (such as service lines and distribution, transformers Etc.), employee cost, depreciation, and finance cost divided by the total sales to consumers.

On the other hand, ARR is the sum of the total revenue earned by charging consumers at specified tariffs for the energy supplied and subsidy received from the state government, divided by the total sales.

The Average Cost supply (Rs/kWh) and Average realized revenue (Rs. /kWh) of AIVPL on the basis of Energy Input for the FY18-19, FY19-20, FY20-21 and FY21-22 are mentioned below-

Table 11 ACS - ARR Gap Summary (Last 4 years)

Financial Year	Total Input Energy	Total Expense	Average Cost of Power Supply to Consumers	Revenue from Sales	Average Realisable Revenue	ACS-ARR Gap
	(MU)	(INR Million)	(INR/kWh)	(INR Million)	(INR/kWh)	(INR/kWh)
2018-19	9.60	73.31	7.64	75.32	7.85	-0.209
2019-20	11.29	89.24	7.91	90.75	8.04	-0.134
2020-21	8.44	66.73	7.90	67.81	8.03	-0.131
2021-22	7.74	63.197	8.16	62.832	8.30	-0.136

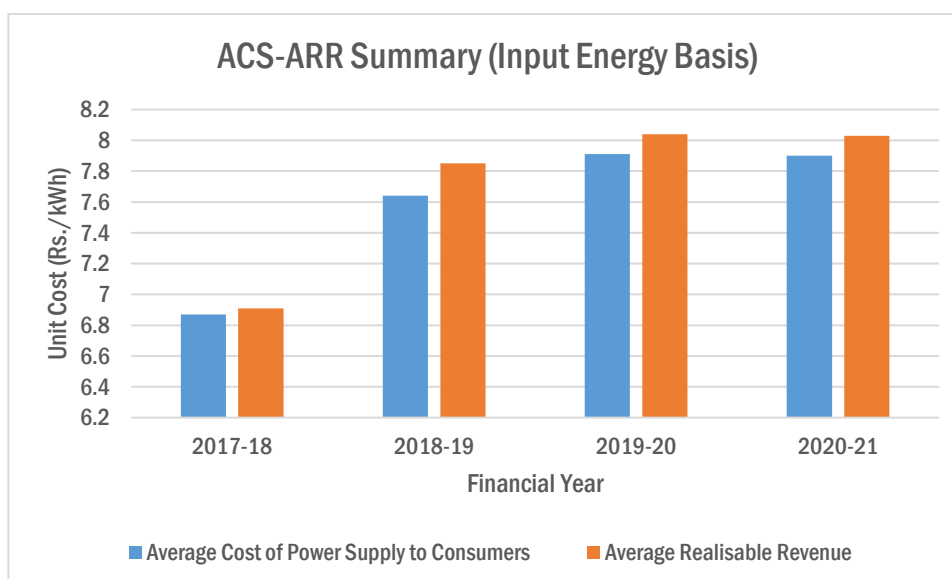


Figure 1 ACS-ARR Summary

As per 4 year ACS-ARR gap analysis values, it can be observed that DISCOM is efficient in terms of technical and collection efficiency, due to which there is always a surplus after revenue sales. As informed by the DISCOM, this surplus is being used to recover past period ACS-ARR gap, accumulated due to delay in tariff determination in the past.

It is observed that T & D loss of DISCOM is range bound from 1.64% to 2.21% and there is no space for improvement in the network that further reduce the loss of high quantum. However, energy accounting can be further improved by quantifying DT wise losses, replacement with smart meters at judicious locations and nullifying or offsetting meter errors.

7 Measuring Equipment and Instrument Calibration

AIVPL periodically calibrates their import/export energy meters. They have provided calibration certificates for some random feeders, which were verified by the Auditors.

The Calibration Certificates provided by AIVPL have been attached in Annexure IX.

Annexures

Annexure- I Introduction of Verification Team

Company/ Institution/ Organization	Team Member	Designation	Role
MITCON Consultancy & Engineering Services Ltd.	Mr. Jignesh Patel	Accredited Energy Auditor (AEA-0104)	Project head, review of data and report
	Mr. Sadhan kumar Sinha	Sector Expert	Review of data and report
	Mr. Chintan Shah	Certified Energy Auditor	Field visit inspection, document verification and report writing
	Mr. Mohit Gupta	Team Member	Field visit inspection, document verification and report writing
	Mr. Kalpesh Patel	Team Member	Field visit inspection, document verification and report writing

Annexure- II Minutes of Meeting with the DISCOM team



Ref: GPEC/EEC/BEE/2022-23/163/MOM/00

Minutes of Meeting

Date: 05-July-2022

Location: SEZ Office, Aspen SEZ, Vadodara

Caller of the Meeting: MITCON Consultancy & Engineering Services Ltd., Ahmedabad

Project: Annual Energy Audit of AIVPL for FY-2021-22

Stage of the Project:

Meeting for Annual Energy Audit of AIVPL for FY2021-22

Prime Agenda of the Meeting:

Detailed discussion and completion of Annual Energy data and verification as per BEE requirements.

Attendees:

MITCON

1. Dr. Jignesh Patel (AEA)
2. Mr. Sadhan Kumar Sinha (Sector Expert)
3. Mr. Rahul Kumar (CEA)
4. Mr. Ankit Srivastava (Team Member)
5. Mr. Kalpesh Patel (Team Member)

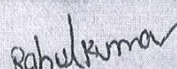
AspenPark Infra Vadodara Pvt.Ltd. (AIVPL)
(Skeiron Group)

1. Mr. Apurva Shah (Head of Department-SEZ)
2. Mr. Jalpesh Panchal (Sr. Manager-Tech)

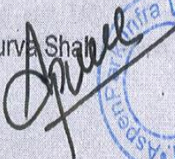
Discussed Points:

Meeting involved detail discussion on the scope of work and activities to be undertaken for the compliance of Annual Energy Audit for FY2021-22. Documents requirements, Site Visit, and providing Infrastructure details.

1. Verified the filled in data as provided in Annual Energy Accounting form along with reference documents given by the AIVPL
2. The consultant verified the category wise no of consumers, connected load, billing energy statistics
3. The consultant verified the Purchase and Sales data, Transmission/ Distribution/ AT&C Losses, Meter Testing test reports etc.
4. The consultant physically verified the infrastructure details e.g. No of voltage wise feeders, No of incoming feeders, Metered connections, No. Distribution Transformers etc.
5. All data which is being maintained by the DISCOM has been collected as per Annual energy accounting form and sample measurements have been completed


Rahul Kumar
Energy Auditor
EA-30703
For MITCON

Mr. Apurva Shah


For AIVPL



Annexure- III Check List prepared by auditing Firm

Parameter	Primary Documents from where the information can be sourced and to be kept ready for verification by Accredited Energy Auditor (Annual for FY 20-21)	Data Provided by TSL
Detailed expenditure report	Annual Reports	Petition Report
Details of purchased energy	Power purchase bills, SLDC documents, energy accounts, Audit statement, petition	MGVCL Bills to AIVPL
Transmission loss %	Calculation of transmission loss viz difference in total energy purchased and total energy drawl at distribution periphery.	SLDC
Transmission loss in (MU) Energy sold outside the periphery, Open access sale, EHT Sale	Energy accounting statements	Statement
Net input energy(received at DISCOM periphery, after adjustment) in MU	GIS Database	MGVCL Bills to AIVPL
Energy input details meter wise, with other mentioned details	SLDC document, meter log	MGVCL Bills to AIVPL
Summary of Circle wise Loss Number of metered consumers and connected load, category wise of each circle Number of un-metered consumers and connected load, category wise of each circle	Statements, Database	Database
Circle wise input Energy for billed meter energy and billed un-metered energy	Meter logs through which input energy of circle was computed. Un-metered energy with reference of calculation should be maintained	Database

Annexure- IV Brief Approach, Scope & Methodology for audit

Annual Energy Audit shall have verification of:

- a) Existing pattern of energy distribution across periphery of the company;
- b) Accounted energy flow submitted by the company at all applicable voltage levels of the distribution network,—
 - (i) Energy flow between transmission and 66kV/ 33kV/11kV incoming distribution feeders
 - (ii) Energy flow between 66kV/33kV outgoing and 11kV/6.6kV incoming feeders
 - (iii) Energy flow between 11 kV/6.6kV feeders and distribution transformers, or high voltage distribution system
 - (iv) Energy flow between Feeder to end-consumer
 - (v) Energy flow between 33/ 11 kV/0.433 kV directly to consumer

Auditor, in consultation with the nodal officer of the company shall:

- (i) The energy audit shall be conducted strictly as per BEE guidelines for DISCOM audit.
- (ii) Agree on best practice procedures on accounting of energy distributed across the network
- (iii) Collect data on energy received, and distributed, covered within the scope of energy audit.

Auditor shall:

- (i) Verify the accuracy of the data collected in consultation with the nodal officer of the company as per standard practice to assess the validity of the data collected;
- (ii) Analyse and process the data with respect to—
- (iii) Consistency of data monitoring compared to the collected data;
- (iv) Recommendations to facilitate energy accounting and improve energy efficiency;
- (v) With respect to the purpose of energy accounting in reducing losses for the company.


Prioritization and preparation of action plan:

- Report shall include following activities, namely:—
- Data collection and verification of energy distribution:
- Monthly energy consumption data of consumers and system metering from the company at following voltage levels —
- 11/33/66 kV level feeders of Sub-stations;
- 11 kV level feeders of Distribution Sub-stations;
- 440 V level, including Distribution Transformer and low tension consumer;
- Input energy details for all metered input points;
- Boundary meter details;
- Source of energy supply (e.g. electricity from grid or self-generation), including generation from renewables.
- Review of the current consumption practices in order to identify the energy loss in the system;
- Data verification, validation and correction:
- A monitoring and verification protocol to quantify on annual basis the impact of each measure with respect to energy conservation and cost reduction for reporting to Bureau and the concerned State designated agency;
- Verification and correction of input energy, taking into account the following —
- Recorded system meter reading by metering agency;
- All the input points of transmission system;
- Details provided by the transmission unit;
- Relevant records at each electricity test division for each month;
- Recorded meter reading at all export points (where energy sent outside the State is from the Distribution system); and
- System loading and corresponding infrastructure;
- Energy supplied to Open Access Consumers which is directly purchased by Open Access consumers from any supplier other than electricity distribution company; and
- Verify and validate the system metering data provided by metering agency through random field visit (particularly for data irregularity).



METHODOLOGY

- Auditor shall depute a team of experts for conducting the evaluation / audit and shall work in close association with DISCOM.
- Auditor shall submit an execution work plan for the assignment for which relevant data support will be provided by DISCOM.
- Auditor will arrange meeting and provide presentation on overview, roadmap, scenario and results of the assignment to various plant heads / operational staff / engineering staff.


Annexure- V Power Purchase Detail (Power Purchase bills)

 <p style="text-align: center;">Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AACDM7439H1ZE Website: http://www.mgvcl.com</p>								
HT BILL FOR THE MONTH OF :APR-2021						By RPAD/Hand Delivery No.		
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D						OFFICE OF EXEC. ENGINEER		
						MGVCL Division Office		
Division Office Email id:						Phone No:		Cons. GSTIN:
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee
13881	HTP-I	2900	2465	2304	2465		23215240	0.00
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day		PP Indicator
66	481440	481240	560	1	40			
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status
CHT50456	SECURE		40					Normal
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT
Current R	1730995	1734001	24467		577896	568502		
Previous R	1718959	1721970	24453		574111	564352		
Difference	12036	12031	14		3785	4150		
Diff*MF	481440	481240	560		151400	166000		
Old Met Cons.								
Enhanced Unit								
CONSUMPTION DETAILS								
A.Total Units	B.Night Units	C.TOU	D.1/3 OF Units in A		E.Night Concession Units		F.Connection Date	G.Consumer Type
481440	166000	151400	160480		166000		18-08-2008	
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments		
			17-08-2018					
CALCULATION OF CHARGES								
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs					
1st 500 KVA	500	150	75000	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount
2nd 500 KVA	500	260	130000		24880	195650.05	.2	39130.01
Next	1465	475	695875		238800	1877863.02	.15	281679.45
Excess DMD					217760	1712409.77		0
Tot Demand	2465		900875	SET OFF DETAILS				
	KWH	Rate	Amount	Total->	Wind Energy	CPP	Open	

Energy Charges	481440	4.2	2022048.00	Units	0			Access	
Night Rebate	166000	.43	71380	Amount					
Fuel charge	481440	1.81	871406.40	Adj (Credit)	0				
PF Rebate	2022048	-2.50%	-50551.20	Adj (Debit)					
EHV Rebate	2022048.00	0.75	-15165.36	AMG Charges					
TOU	151400	0.85	128690.00	CGST:		SGST:			
Tot Consumption Charge			3785922.84						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	2022048.00	871406.40	-50551.20	71380.00	-15165.36	128690.00	3785922.84		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges	Parallel Operation Charges	Current Month's Bill	Outstanding Arrears			
320809.47	0.00				4106732.31	0.00			
Delayed Payment Charges	Adv. Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
0.00	-581.72	4106150.59	10773.00	4116923.59	-4996.00	01-05-2021	03-05-2021	13-05-2021	0.00
Amount in Words: Forty One Lakhs Sixteen Thousand Nine Hundred And Twenty Three And Fifty Nine Paise Only									
Msg:TCS has been charged on the current bill as per provision of IT ACT						EXECUTIVE ENGINEER BARODA			
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									

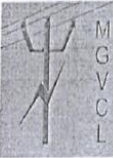
		Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AADCM7439H1ZE Website: http://www.mgvcl.com							
		HT BILL FOR THE MONTH OF :MAY-2021					By RPAD/Hand Delivery No.		
		M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA, TAL :- WAGHODIA, DIST.VADODARA 391760. WAGHODIA S/D					OFFICE OF EXEC. ENGINEER MGVCL Division Office Date: 04-06-2021		
		Division Office Email id:			Phone No:		Cons. GSTIN:		
Consumer No:	Tariff	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2152	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day	PP Indicator		
66	719160	720240	10480	.998	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1748974	1752007	24729		583576	574617			
Previous R	1730995	1734001	24467		577896	568502			
Difference	17979	18006	262		5680	6115			
Diff*MF	719160	720240	10480		227200	244600			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A	E.Night Concession Units	F.Connection Date	G.Consumer Type			
719160	244600	227200	239720	244600	18-08-2008				
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto		K.Details of Adjustments				
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount	
1st 500 KVA	500	150	75000						
2nd 500 KVA	500	260	130000		25640	185701.83	.2	37140.37	
Next	1465	475	695875		451200	3267888.67	.15	490183.3	
Excess DMD					242320	1755041.63	0	0	
Tot Demand	2465		900875						
	KWH	Rate	Amount	Total->		SET OFF DETAILS	Wind Energy	CPP	Open


Energy Charges	719160	4.2	3020472.00	Units	0		Access		
Night Rebate	244600	.43	105178	Amount					
Fuel charge	719160	1.80	1294488.00	Adj (Credit)	0				
PF Rebate	3020472	-2.40%	-72491.33	Adj (Debit)					
EHV Rebate	3020472.00	0.75	-22653.54	AMG Charges					
TOU	227200	0.85	193120.00	CGST:		SGST:			
Tot Consumption Charge			5208632.13						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	3020472.00	1294488.00	-72491.33	105178.00	-22653.54	193120.00	5208632.13		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges	Parallel Operation Charges	Current Month's Bill	Outstanding Arrears			
527323.67	0.00				5735955.00	0.00			
Delayed Payment Charges	Adv. Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
0.00	-1006209.77	4729746.03	4730.00	4734476.03	-10773.00	01-06-2021	04-06-2021	14-06-2021	0.00
Amount in Words: Forty Seven Lakhs Thirty Four Thousand Four Hundred And Seventy Six And Three Paise Only									
Msg:TCS has been charged on the current bill as per provision of IT ACT						EXECUTIVE ENGINEER BARODA			
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									


 Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyalaya Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AADCM7439H1ZE Website: http://www.mgvcl.com										
HT BILL FOR THE MONTH OF :JUN-2021						By RPAD/Hand Delivery No.				
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA, TAL :- WAGHODIA, DIST.VADODARA 391760. WAGHODIA S/D						OFFICE OF EXEC. ENGINEER MGVCL Division Office Date: 05-07-2021				
Division Office Email id:					Phone No:		Cons. GSTIN:			
Consumer No:	Tariff	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee		
13881	HTP-I	2900	2465	2040	2465		23215240	0.00		
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day	PP Indicator			
66	681040	682720	13920	.997	40					
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status		
CHT50456	SECURE		40					Normal		
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT		
Current R	1766000	1769075	25077		588988	580312				
Previous R	1748974	1752007	24729		583576	574617				
Difference	17026	17068	348		5412	5695				
Diff*MF	681040	682720	13920		216480	227800				
Old Met Cons.										
Enhanced Unit										
CONSUMPTION DETAILS										
A.Total Units	B.Night Units	C.TOU	D.1/3 OF Units in A	E.Night Concession Units	F.Connection Date	G.Consumer Type				
681040	227800	216480	227813	227800	18-08-2008					
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments				
			15-07-2022							
CALCULATION OF CHARGES										
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount		
1st 500 KVA	500	150	75000							
2nd 500 KVA	500	260	130000		24840	181802.71	.2	36360.54		
Next	1465	475	695875		420200	3075422.72	.15	461313.41		
Excess DMD					236000	1727272.16	0	0		
Tot Demand	2465		900875							
	KWH	Rate	Amount	Total->		SET OFF DETAILS		Wind Energy	CPP	Open


MITCON Consultancy & Engineering Services Ltd.

									Access
Energy Charges	681040	4.2	2860368.00	Units		0			
Night Rebate	227800	.43	97954	Amount					
				Adj (Credit)		0			
Fuel charge	681040	1.80	1225872.00	Adj (Debit)					
PF Rebate	2860368	-2.35%	-67218.65						
EHV Rebate	2860368.00	0.75	-21452.76	AMG Charges					
TOU	216480	0.85	184008.00	CGST:			SGST:		
Tot Consumption Charge			4984497.59						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	2860368.00	1225872.00	-67218.65	97954.00	-21452.76	184008.00	4984497.59		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges	Parallel Operation Charges	Current Month's Bill	Outstanding Arrears			
497673.95	0.00				5482171.54	0.00			
Delayed Payment Charges	Adv. Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
0.00	-622.97	5481548.57	5482.00	5487030.57	-4730.00	01-07-2021	05-07-2021	15-07-2021	0.00
Amount in Words: Fifty Four Lakhs Eighty Seven Thousand Thirty And Fifty Seven Paise Only									
Msg:TCS has been charged on the current bill as per provision of IT ACT						EXECUTIVE ENGINEER BARODA			
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									


		Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN:U40102GJ2003SGC042907 GSTIN:24AACDM7439H1ZF PAN NO: AACDM7439H Website: http://www.mgvcl.com						4615	
		HT BILL FOR THE MONTH OF :JUL-2021						By RPAD/Hand Delivery No.	
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D								OFFICE OF EXEC. ENGINEER MGVCL Division Office Date: 03-08-2021	
Division Office Email id:				Phone No:		Cons. GSTIN:			
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2152	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day		PF Indicator	
66	635760	637280	14880	.997	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1781894	1785007	25449		594030	585726			
Previous R	1766000	1769075	25077		588988	580312			
Difference	15894	15932	372		5042	5414			
Diff*MF	635760	637280	14880		201680	216560			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A		E.Night Concession Units	F.Connection Date	G.Consumer Type		
635760	216560	201680	211920		216560	18-08-2008			
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments		CHQ DISHONOUR DT	
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount	
1st 500 KVA	500	150	75000						
2nd 500 KVA	500	260	130000		23760	176061.03	.2	35212.21	
Next	1465	475	695875		345200	2557923.67	.15	383688.55	
Excess DMD	0	0	0		266800	1976981.56	0	0	
Tot Demand	2465		900875						
SET OFF DETAILS									
Energy Charges	KWH	Rate	Amount	Total->	Wind Energy	CPP	Open Access		
635760		4.2	2670192.00	Units	0				
Night Rebate	216560	.43	93120.8	Amount					
Fuel charge	635760	1.80	1144368.00	Adj (Credit)	0				
PF Rebate	2670192	-2.35%	-62749.51	Adj (Debit)					
EHV Rebate	2670192.00	0.75	-20026.44	AMG Charges					
TOU	201680	0.85	171428.00	CGST:			SGST:		
Tot Consumption Charge			4710966.25						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	2670192.00	1144368.00	-62749.51	93120.80	-20026.44	171428.00	4710966.25		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Operation Charges		Current Month's Bill	Outstanding Arrears	
418900.76	0.00						5129867.01	0.00	
Delayed Payment Charges	Adv.Payment / Adjust.	Net Payable	TCS	Total Payable	PREV.BILL TCS Cr	Reading Date	Bill Date	Due Date	Freeze Amount
0.00	-752.43	5129114.58		5129114.58		01-08-2021	03-08-2021	13-08-2021	0.00
Amount in Words: Fifty One Lakhs Twenty Nine Thousand One Hundred And Fourteen And Fifty Eight Paise Only									
Msg:U/S 194Q OF IT ACT, TDS @0.1% IS APPLICABLE						EXECUTIVE ENGINEER JAMBUVA			
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change FOR IMPORTANT NOTE PLEASE SEE OVERLEAF									

		Madhya Gujarat Vij Company Ltd. Reg. Of: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AADCM7439H1ZE PAN NO: AADCM7439H Website: http://www.mgvcl.com						
HT BILL FOR THE MONTH OF :AUG-2021						By RPAD/Hand Delivery No.		
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA, TAL :- WAGHODIA, DIST.VADODARA 391760. WAGHODIA S/D						OFFICE OF EXEC. ENGINEER MGVCL Division Office Date: 04-09-2021		
Division Office Email id:				Phone No:		Cons. GSTIN:		
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee
13881	HTP-I	2900	2465	2228	2465		23215240	0.00
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day	PP Indicator	
66	659640	664280	36000	.993	40			
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status
CHT50456	SECURE		40					Normal
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT
Current R	1798385	1801614	26349		599327	591262		
Previous R	1781894	1785007	25449		594030	585726		
Difference	16491	16607	900		5297	5536		
Diff*MF	659640	664280	36000		211800	221440		
Old Met Cons.								
Enhanced Unit								
CONSUMPTION DETAILS								
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A		E.Night Concession Units	F.Connection Date	G.Consumer Type	
659640	221440	211880	219800		221440	18-08-2008		
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments		
			15-07-2022					
CALCULATION OF CHARGES								
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount
1st 500 KVA	500	150	75000					
2nd 500 KVA	500	260	130000		22160	165592.41	.2	33118.48
Next	1465	475	695875		407200	3042835.18	.15	456425.28
Excess DMD					230280	1720786.06	0	0
Tot Demand	2465		900875					
	KWH	Rate	Amount	Total->		SET OFF DETAILS	CPP	Open
						Wind Energy		
Energy Charges	659640	4.2	2770488.00	Units		0		Access
Night Rebate	221440	.43	95219.2	Amount				
				Adj (Credit)		0		
Fuel charge	659640	1.90	1253316.00	Adj (Debit)				
PF Rebate	2770488	-2.15%	-59565.49					
EHV Rebate	2770488.00	0.75	-20778.66	AMG Charges				
TOU	211880	0.85	180098.00	CGST:			SGST:	
Tot Consumption Charge			4929213.65					
SUMMARY OF CHARGES								
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge	
900875.00	2770488.00	1253316.00	-59565.49	95219.20	-20778.66	180098.00	4929213.65	
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Operation Charges		Current Month's Bill	Outstanding Arrears
489543.76	0.00						5418757.41	5128.58
Delayed Payment Charges	Adv. Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date
0.00	64099.20	5487985.19	0.00	5487985.19	0.00	01-09-2021	04-09-2021	14-09-2021
Amount in Words: Fifty Four Lakhs Eighty Seven Thousand Nine Hundred And Eighty Five And Nineteen Paise Only								
Msg:U/S 194Q OF IT ACT, TDS @0.1% IS APPLICABLE						EXECUTIVE ENGINEER JAMBUVA		
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change								

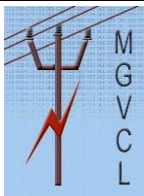
 Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AADCM7439H1ZE PAN NO: AADCM7439H Website: http://www.mgvcl.com									
HT BILL FOR THE MONTH OF :SEP-2021							By RPAD/Hand Delivery No.		
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D							OFFICE OF EXEC. ENGINEER		
							MGVCL Division Office		
							Date: 06-10-2021		
Division Office Email id:					Phone No:		Cons. GSTIN:		
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2228	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day		PP Indicator	
66	650120	652160	17760	.996	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1814638	1817918	26793		604664	596731			
Previous R	1798385	1801614	26349		599327	591262			
Difference	16253	16304	444		5337	5469			
Diff*MF	650120	652160	17760		213480	218760			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A		E.Night Concession Units		F.Connection Date	G.Consumer Type	
650120	218760	213480	216707		218760		18-08-2008		
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments			
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount	
1st 500 KVA	500	150	75000						
2nd 500 KVA	500	260	130000		21280	159430.38	.2	31886.08	
Next	1465	475	695875		400400	2999808.37	.15	449971.26	
Excess DMD					228440	1711479.08	0	0	
Tot Demand	2465		900875	SET OFF DETAILS					
	KWH	Rate	Amount	Total->	Wind Energy	CPP	Open Access		
Energy Charges	650120	4.2	2730504.00	Units	0				
Night Rebate	218760	.43	94066.8	Amount					
				Adj (Credit)	0				
Fuel charge	650120	1.90	1235228.00	Adj (Debit)					
PF Rebate	2730504	-2.30%	-62801.59						
EHV Rebate	2730504.00	0.75	-20478.78	AMG Charges					
TOU	213480	0.85	181458.00	CGST:			SGST:		
Tot Consumption Charge			4870717.83						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	2730504.00	1235228.00	-62801.59	94066.80	-20478.78	181458.00	4870717.83		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Operation Charges	Current Month's Bill	Outstanding Arrears		
481857.34	0.00					5352575.17	5488.19		
Delayed Payment Charges	Adv.Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
5.24	-5483.00	5352585.60	0.00	5352585.60	0.00	01-10-2021	06-10-2021	16-10-2021	0.00
Amount in Words: Fifty Three Lakhs Fifty Two Thousand Five Hundred And Eighty Five And Sixty Paise Only									
Msg:U/S 194Q OF IT ACT, TDS @0.1% IS APPLICABLE					EXECUTIVE ENGINEER JAMBUVA				
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									

		Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AADCM7439H1ZE PAN NO: AACDM7439H Website: http://www.mgvcl.com							
HT BILL FOR THE MONTH OF :OCT-2021							By RPAD/Hand Delivery No.		
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D							OFFICE OF EXEC. ENGINEER MGVCL Division Office Date: 01-11-2021		
Division Office Email id:					Phone No:		Cons. GSTIN:		
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2196	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day		PP Indicator	
66	725160	726920	13880	.997	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1832767	1836091	27140		610561	602723			
Previous R	1814638	1817918	26793		604664	596731			
Difference	18129	18173	347		5897	5992			
Diff*MF	725160	726920	13880		235880	239680			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 OF Units in A		E.Night Concession Units	F.Connection Date	G.Consumer Type		
725160	239680	235880	241720		239680	18-08-2008			
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments			
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount	
1st 500 KVA	500	150	75000		25000	183661.91	.2	36732.38	
2nd 500 KVA	500	260	130000		455400	3345585.32	.15	501837.8	
Next	1465	475	695875		244760	1798123.54	0	0	
Excess DMD									
Tot Demand	2465		900875						
	KWH	Rate	Amount	Total->		SET OFF DETAILS			
						Wind Energy	CPP	Open	
								Access	
Energy Charges	725160	4.2	3045672.00	Units	0				
Night Rebate	239680	.43	103062.4	Amount					
				Adj (Credit)	0				
Fuel charge	725160	1.90	1377804.00	Adj (Debit)					
PF Rebate	3045672	-2.35%	-71573.29						
EHV Rebate	3045672.00	0.75	-22842.54	AMG Charges					
TOU	235880	0.85	200498.00	CGST:			SGST:		
Tot Consumption Charge			5327370.77						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	3045672.00	1377804.00	-71573.29	103062.40	-22842.54	200498.00	5327370.77		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Operation Charges	Current Month's Bill	Outstanding Arrears		
538570.18	0.00					5865940.95	5353.60		
Delayed Payment Charges	Adv.Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
77.43	-5348.00	5866023.98	0.00	5866023.98	0.00	01-11-2021	01-11-2021	11-11-2021	0.00
Amount in Words: Fifty Eight Lakhs Sixty Six Thousand Twenty Three And Ninety Eight Paise Only									
Msg:U/S 194Q OF IT ACT, TDS @0.1% IS APPLICABLE						EXECUTIVE ENGINEER JAMBUVA			
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									

		Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AADCM7439H12E PAN NO: AADCM7439H Website: http://www.mgvcl.com							
HT BILL FOR THE MONTH OF :NOV-2021							By RPAD/Hand Delivery No.		
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D							OFFICE OF EXEC. ENGINEER MGVCL Division Office Date: 04-12-2021		
Division Office Email id:				Phone No:		Cons. GSTIN:			
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2116	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day		PP Indicator	
66	389960	389800	0	1	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1842516	1845836	27140		613818	605559			
Previous R	1832767	1836091	27140		610561	602723			
Difference	9749	9745	0		3257	2836			
Diff*MF	389960	389800	0		130280	113440			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A		E.Night Concession Units	F.Connection Date	G.Consumer Type		
389960	113440	130280	129987		113440	18-08-2008			
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments			
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount	
1st 500 KVA	500	150	75000		21920	187033.67	.2	37406.73	
2nd 500 KVA	500	260	130000		160600	1370328.79	.15	205549.32	
Next	1465	475	695875		207440	1769993.8	0	0	
Excess DMD									
Tot Demand	2465		900875						
	KWH	Rate	Amount	Total->	Wind Energy	CPP	Open		
								Access	
Energy Charges	389960	4.2	1637832.00	Units	0				
Night Rebate	113440	.43	48779.2	Amount					
				Adj (Credit)	0				
Fuel charge	389960	2.00	779920.00	Adj (Debit)					
PF Rebate	1637832	-2.50%	-40945.80						
EHV Rebate	1637832.00	0.75	-12283.74	AMG Charges					
TOU	130280	0.85	110738.00	CGST:			SGST:		
Tot Consumption Charge			3327356.26						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	1637832.00	779920.00	-40945.80	48779.20	-12283.74	110738.00	3327356.26		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Operation Charges	Current Month's Bill	Outstanding Arrears		
242956.05	0.00					3570312.31	5865.98		
Delayed Payment Charges	Adv.Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
120.06	73986.00	3650284.35	0.00	3650284.35	0.00	01-12-2021	04-12-2021	14-12-2021	0.00
Amount in Words: Thirty Six Lakhs Fifty Thousand Two Hundred And Eighty Four And Thirty Five Paise Only									
Msg:U/S 194Q OF IT ACT, TDS @0.1% IS APPLICABLE					EXECUTIVE ENGINEER JAMBUVA				
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									

 Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN: 24AADC7439H1ZE PAN NO: AADCM7439H Website: http://www.mgvcl.com									
HT BILL FOR THE MONTH OF :DEC-2021							By RPAD/Hand Delivery No.		
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D							OFFICE OF EXEC. ENGINEER MGVCL Division Office Date: 05-01-2022		
Division Office Email id:					Phone No:		Cons. GSTIN:		
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2324	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day		PP Indicator	
66	696920	699040	17160	.996	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1859939	1863312	27569		619677	611283			
Previous R	1842516	1845836	27140		613818	605559			
Difference	17423	17476	429		5859	5724			
Diff*MF	696920	699040	17160		234360	228960			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A		E.Night Concession Units	F.Connection Date	G.Consumer Type		
696920	228960	234360	232307		228960	18-08-2008			
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments			
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs		Electricity Duty	KWH	Consumption Charges	ED Rate	Amount
1st 500 KVA	500	150	75000						
2nd 500 KVA	500	260	130000			23120	173610.89	.2	34722.18
Next	1465	475	695875			417400	3134307.19	.15	470146.08
Excess DMD						256400	1925338.68	0	0
Tot Demand	2465		900875		SET OFF DETAILS				
	KWH	Rate	Amount		Total->	Wind Energy	CPP	Open	
								Access	
Energy Charges	696920	4.2	2927064.00		Units	0			
Night Rebate	228960	.43	98452.8		Amount				
					Adj (Credit)	0			
Fuel charge	696920	2.00	1393840.00		Adj (Debit)				
PF Rebate	2927064	-2.30%	-67322.47						
EHV Rebate	2927064.00	0.75	-21952.98		AMG Charges				
TOU	234360	0.85	199206.00		CGST:			SGST:	
Tot Consumption Charge			5233256.75						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	2927064.00	1393840.00	-67322.47	98452.80	-21952.98	199206.00	5233256.75		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Operation Charges	Current Month's Bill	Outstanding Arrears		
504868.25	0.00					5738125.00	0.35		
Delayed Payment Charges	Adv.Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
231.86	-3645.00	5734712.21	0.00	5734712.21	0.00	01-01-2022	05-01-2022	15-01-2022	0.00
Amount in Words: Fifty Seven Lakhs Thirty Four Thousand Seven Hundred And Twelve And Twenty One Paise Only									
Msg:U/S 194Q OF IT ACT, TDS @0.1% IS APPLICABLE					EXECUTIVE ENGINEER JAMBUVA				
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									

		Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN: 24AADCM7439H1ZE PAN NO: AADCM7439H Website: http://www.mgvcl.com							
HT BILL FOR THE MONTH OF : JAN-2022						By RPAD/Hand Delivery No.			
M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO: -33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D						OFFICE OF EXEC. ENGINEER			
						MGVCL Division Office			
						Date: 01-02-2022			
Division Office Email id:				Phone No:		Cons. GSTIN:			
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2188	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF		Actual Max DMD during day	PP Indicator	
66	598560	600920	17360	.996	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1874903	1878335	28003		624692	616295			
Previous R	1859939	1863312	27569		619677	611283			
Difference	14964	15023	434		5015	5012			
Diff*MF	598560	600920	17360		200600	200480			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A		E.Night Concession Units	F.Connection Date	G.Consumer Type		
598560	200480	200600	199520		200480	18-08-2008			
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments			
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount	
1st 500 KVA	500	150	75000		18800	145094.91	.2	29018.98	
2nd 500 KVA	500	260	130000		331200	2556140.17	.15	383421.03	
Next	1465	475	695875		248560	1918339.98	0	0	
Excess DMD									
Tot Demand	2465		900875						
	KWH	Rate	Amount	Total->	Wind Energy	CPP	Open	Access	
Energy Charges	598560	4.2	2513952.00	Units		0			
Night Rebate	200480	.43	86206.4	Amount					
				Adj (Credit)		0			
Fuel charge	598560	2.00	1197120.00	Adj (Debit)					
PF Rebate	2513952	-2.30%	-57820.90						
EHV Rebate	2513952.00	0.75	-18854.64	AMG Charges					
TOU	200600	0.85	170510.00	CGST:			SGST:		
Tot Consumption Charge			4619575.06						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	2513952.00	1197120.00	-57820.90	86206.40	-18854.64	170510.00	4619575.06		
Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Operation Charges	Current Month's Bill	Outstanding Arrears		
412440.01	0.00					5032015.07	9384.21		
Delayed Payment Charges	Adv.Payment / Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
165.79	-5735.00	5035830.07	0.00	5035830.07	0.00	01-02-2022	01-02-2022	11-02-2022	0.00
Amount in Words: Fifty Lakhs Thirty Five Thousand Eight Hundred And Thirty And Seven Paise Only									
Msg:U/S 194Q OF IT ACT, TDS @0.1% IS APPLICABLE						EXECUTIVE ENGINEER JAMBUVA			
MC-Meter Change MF-Multiplication Factor CD-Contract Demand TF-Tariff Change									

	Madhya Gujarat Vij Company Ltd. Reg. Off: Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007 CIN: U40102GJ2003SGC042907 GSTIN:24AADCM7439H1ZE PAN NO: AACDM7439H Website: http://www.mgvcl.com								
	HT BILL FOR THE MONTH OF :FEB-2022						By RPAD/Hand Delivery No.		
	M/S ASPEN PARK INFRA VADODARA PRIVATE LIMITED SURVEY NO:-33(OLD SURVEY NO :-26.) VIL :- PIPARIYA. TAL :- WAGHODIA. DIST.VADODARA 391760. WAGHODIA S/D						OFFICE OF EXEC. ENGINEER		
							MGVCL Division Office		
Division Office/ail id:						Phone No:		Cons. GSTIN:	
Consumer No:	Tarrif	Contract Demand	85% Contract Demand	Actual Max. Demand	Billing Demand	Excess Cont. DMD	SD Cash	Bank Guarantee	
13881	HTP-I	2900	2465	2224	2465		23215240	0.00	
Supp Voltage	KWH	KVAH	KVARH	Avg PF	MF	Actual Max DMD during day			PP Indicator
66	746560	748320	14920	.997	40				
Meter No:	Make	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	Meter Constant	MC/MF/CD/TF	Meter Status	
CHT50456	SECURE		40					Normal	
	KWH	KVAH	KVARH	AMD	PEAK HR	NIGHT HR	AMD DAY	AMD NIGHT	
Current R	1893567	1897043	28376		630858	622439			
Previous R	1874903	1878335	28003		624692	616295			
Difference	18664	18708	373		6166	6144			
Diff*MF	746560	748320	14920		246640	245760			
Old Met Cons.									
Enhanced Unit									
CONSUMPTION DETAILS									
A.Total Units	B.Night Units	C.TOU	D.1/3 Of Units in A		E.Night Concession Units		F.Connection Date	G.Consumer Type	
746560	245760	246640	248853		245760		18-08-2008		
H.Recoverable SD		I.Seasonal Status	J.ED Exemption Upto			K.Details of Adjustments			
			15-07-2022						
CALCULATION OF CHARGES									
Demand Charges	DMD in KVA	Rate per KVA	Amount Rs	Electricity Duty	KWH	Consumption Charges	ED Rate	Amount	
1st 500 KVA	500	150	75000		18320	137688.78	.2	27537.76	
2nd 500 KVA	500	260	130000		474200	3563974.86	.15	534596.23	
Next	1465	475	695875		254040	1909304.45	0	0	
Excess DMD									
Tot Demand	2465		900875	SET OFF DETAILS					
	KWH	Rate	Amount	Total->		Wind Energy	CPP	Open Access	
Energy Charges	746560	4.2	313552.00	Units		0			
Night Rebate	245760	.43	105676.8	Amount					
				Adj (Credit)		0			
Fuel charge	746560	2.10	1567776.00	Adj (Debit)					
PF Rebate	3135552	-2.35%	-73685.47						
EHV Rebate	3135552.00	0.75	-23516.64	AMG Charges					
TOU	246640	0.85	209644.00	CGST:			SGST:		
Tot Consumption Charge			5610968.09						
SUMMARY OF CHARGES									
Demand Charge	Energy Charge	Fuel Surcharge	PF Adj/Rebate	Night Rebate	EHV Rebate	Time Of Use Charges	Tot Consumption Charge		
900875.00	3135552.00	1567776.00	-73685.47	105676.80	-23516.64	209644.00	5610968.09		

MITCON Consultancy & Engineering Services Ltd.

Electricity Duty	Meter Charges	Cross Subsidy	Wheeling Charges		Parallel Charges	Operation	Current Month's Bill	Outstanding Arrears	
562133.98	0.00						6173102.07	5036.07	
Delayed Payment Charges	Adv.Payment Adjust.	Net Payable	TCS	Total Payable	Previous TCS	Reading Date	Bill Date	Due Date	Freeze Amount
230.14	60173.00	6238541.28	0.00	6238541.28	0.00	01-03-2022	02-03-2022	14-03-2022	0.00
Amount in Words: Sixty Two Lakhs Thirty Eight Thousand Five Hundred And Forty One And Twenty Eight Paise Only									



Madhya Gujarat Vij Company Ltd.
Reg Off' Sardar Patel Vidyut Bhavan, Race
Course, Vadodara - 390 007
GSTIN 24AADCM7439HIZE PAN NO: AADCM7439H

websites http mgvct com

235

HT BILL FOR THE MONTH OF :MÄR-2022		BY RPÄD/Hand Delivery No.
/S ASPEN PARK INFRA VADODARÄ PRIVATE LIMITED		OFFICE OF E]CEC. ENGINEER
SURVEY NO:-33 (OLD SURVEY NO :-26.) VIL PIPARIYA. TAL WAGHODIA.		CL Division Office
DIST.VÄDODARÄ 391760.		Date: 07-04-2022
GHODIA S/D		

Division Office Email id:				Phone No :		Cons. GSTIN:		
Consumer No:	Tarrif	Contract Demand	858 Contract Demand	Actual Max Demand	Billing Demand	Excess Cont.	SD Cash	Bank Guar an tee
13881	HIP-I	2900	2465	2280	2465		23215240	0.00
Supp Voltage	KWH	WAH	WARH	Avg PE'		Actual Max DI.D during day		PP Indicator
	757200	758560	11360	. 998	40			
Meter NO :	ke	CTPT Make	CTPT Srno	CT Ratio	PT Ratio	ter Constant	/MF/CD/TF	ter Status
CHT50456	SECURE		40					Normal
		KVÄH			HR	NIGHT HR	DAY	NIGHT
Current R	1912497	1916007	28660		637020	628785		
Previous R	1893567	1897043	28376		630858	622439		
Difference	18930	18964	284		6162	6346		
Diff*ME'	757200	758560	11360		246480	253840		
Old Met Cons.								
Enhanced Unit								

CONSUMPTION DETAILS

A. Total Units	B. Night Units	C. TOV	D. 1/3 Of Units in A	E. Night Concession Units	F. Connection Date	G. Consumer Type
757200	253840	246480	252400	253840	18-08-2008	
H. Recoverable SD	I Seasonal Status	J. ED Exemption VptO		K. Details of Adjustments		CHQ DISBONOUR DT
		15-07-2009				

CALCULATION OF CHARGES

Demand Charges	DI-D in	Rate per KVA	Amount						
1st 500 KVA	500	150	75000	Electricity Duty		Consumption Charges	ED Rate	ount	Exempted Amount
2nd 500 KVA	500	260	130000		734680	5576208	.15	518016.26	318414.9176
Next	1465	475	695875		22520	170926	.2	34185.16	0
Excess Db-D									
Tot Demand	2465		900875	SET OFF DETAILS					
		Rate	Amount	Total->	ind Energy	CPP	Open Access		
Energy Charges	757200	4.2	3180240.00	Units					
Night Rebate	253840	43	109151.2	Amount					
				Adj (Crediti					

MITCON Consultancy & Engineering Services Ltd.

Fuel charge	757200	2 .20	1665840.00	Adj (Debit)				
PF Rebate	3180240	-2.408	-76325.76					
EHV Rebate	3180240 . 000	.75	-23851.80	MG Charges				
TOV	246480	0.85	209508.00	CGST :		CGST :		
Tot Consumption Charge			5747134.24					
STANDARD OF CHARGES								
Demand Charge	Energy Charge	Fuel Surcharge	Adj / Rebate	Night Rebate	EBV Rebate	Time Of Use Charges	Tot Consumption Charge	
900875.00	180240.00	1665840.00	76325.76	09151 .20	23851 .80	09508.00	5747134 .24	
Electricity	meter Charges	Cross Subsidy	metering Charges	Parallel Charges	Current nth's Bill	Outstanding Arrears		
52201 . 42	div. Payment / just.	Net payable	CS	Total Payable	PREV. BILL	Reading Date	Bill Date	Due Date
Payment charges					CCS Cr			Freeze Amount
825.63	5901 .40	384301.97		384301.97		1-04-2022	7-04-2022	8-04-2022
<p>Amount in Words: Sixty Three Lakhs Eighty Four Thousand Three Hundred And One And Ninety Seven Paise Only</p>								
<p>Msg:U/S 1940 or IT Acer, TDS go .18 IS APPLICABLE</p> <p>MC—Metar Change MF—Multiplication Factor</p>						<p>ENGINEER JAMB WA</p>		
<p>CD—Contract Demand TF—Tariff Change FOR It-QORTÄNT NOTE PLEASE SEE OVERLEAF</p>								

Annexure- VI Sample Single Line Diagram

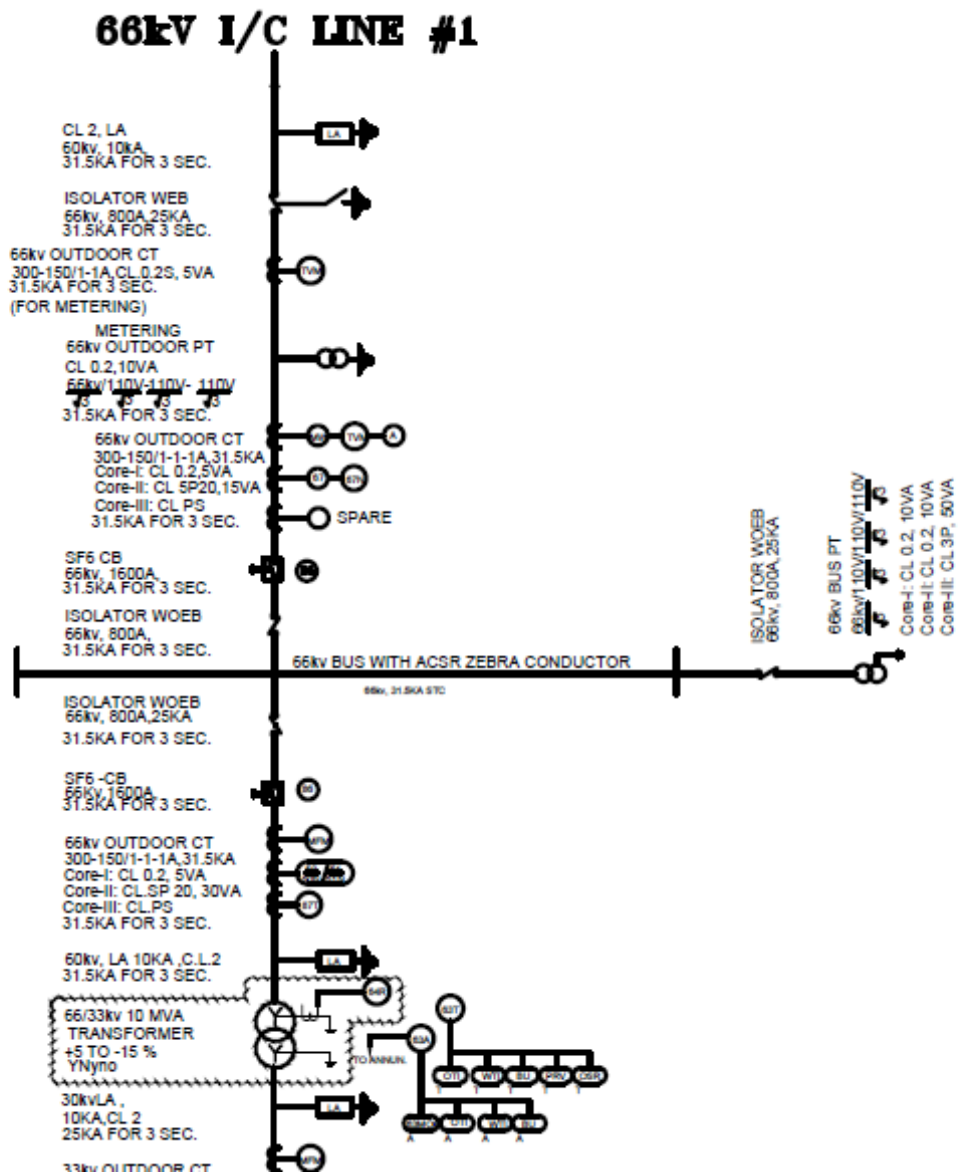


Figure 2 Single Line Diagram AIVPL (1/3)

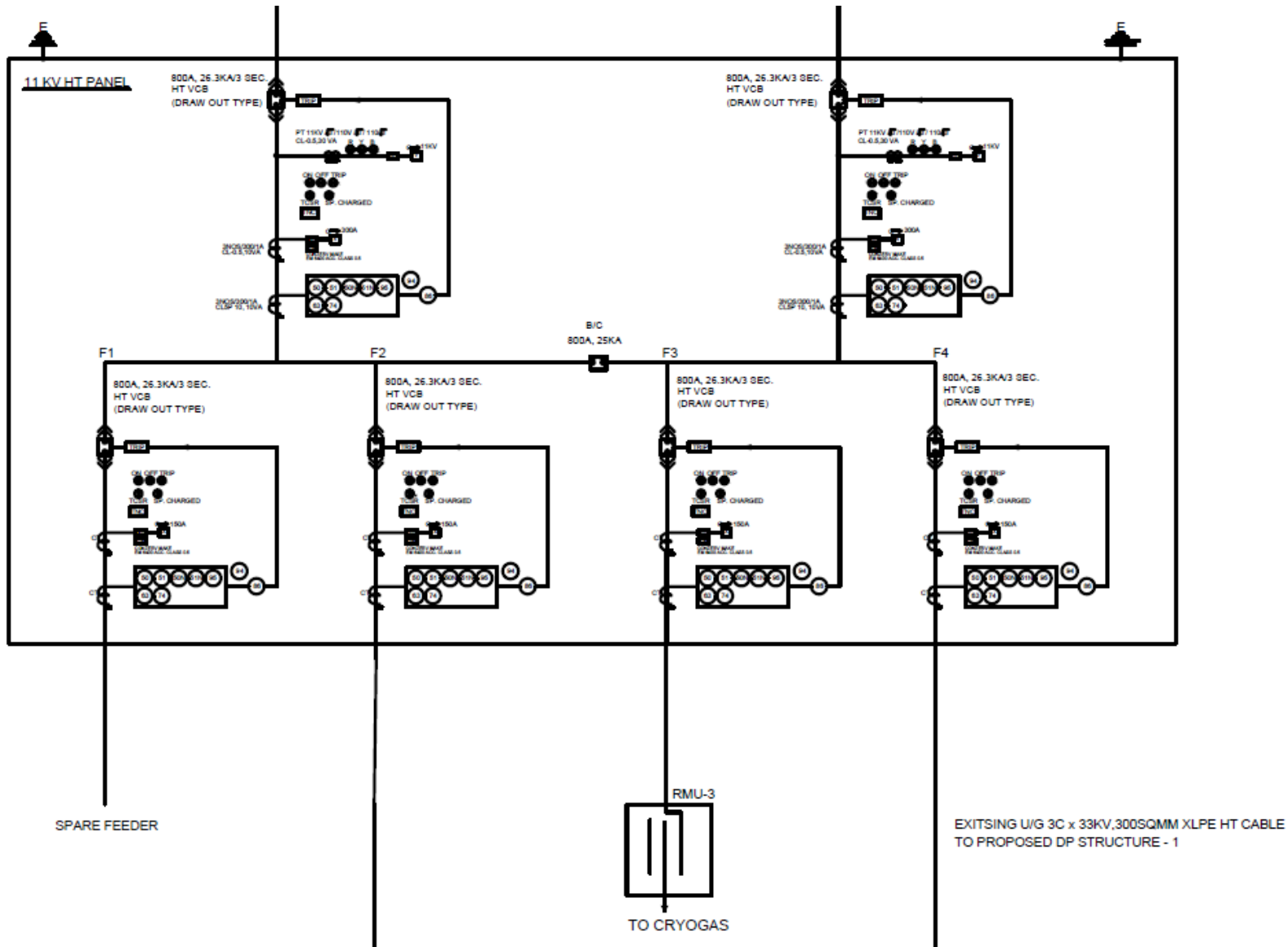


Figure 4 Single Line Diagram AIVPL (3/3)

Annexure- VII Category wise Service Details

(Details of Consumers)						
Summary of Energy						
Period 1 April 2020 to 31 March 2021						
S.No	Type of Consumers	Category of Consumers (EHT/HT/LT/Others)	Voltage Level (In Voltage)	No of Consumers	Total Consumption (In MU)	Remarks (Source of data)
1	Domestic					
2	Commercial	LT	440V	1	0.008131	Unit Holder Bills
3	IP Sets					
4	Hor. & Nur. & Coffee/Tea & Rubber (Metered)					
5	Hor. & Nur. & Coffee/Tea & Rubber (Flat)					
6	Heating and Motive Power					
7	Water Supply					
8	Public Lighting					
9	HT Water Supply					
10	HT Industrial	HT	33KV, 11KV	5	7.561979	Unit Holders and Self Bills
11	Industrial (Small)					
12	Industrial (Medium)					
13	HT Commercial					
14	Applicable to Government Hospitals & Hospitals					
15	Lift Irrigation Schemes/Lift Irrigation Societies					
16	HT Res. Apartments Applicable to all areas					
17	Mixed Load					
18	Government offices and department					
			Total	6	7.57	

Annexure- VIII List of Parameters arrived through calculation or formulae with list of documents as source of data

S.No.	Data	Unit	Sources of data
1	Input Energy Purchased	MUs	Monthly Electricity bills of MGVCL to AIVPL
2	Transmission Loss	%	SLDC Data
3	Energy sold outside the periphery	MUs	Statement
4	Open access sale	MUs	Statement
5	EHT sale	MUs	Statement
6	% of metering available at DT	%	Internal Data base
7	% of metering available at consumer end	%	Internal Data base
8	No of feeders at 66kV voltage level	Nos.	N/A
9	No of feeders at 33kV voltage level	Nos.	Internal Data base
10	No of feeders at 11kV voltage level	Nos.	Internal Data base
11	No of LT feeders level	Nos.	Internal Data base
12	Line length (ckt. km) at 66kV voltage level	Km	Internal Data base
13	Line length (ckt. km) at 33kV voltage level	Km	Internal Data base
14	Line length (ckt. km) at 11kV voltage level	Km	Internal Data base
15	Line length (km) at LT level	Km	Internal Data base
16	HT/LT ratio		Internal Data base
17	Feeder wise Import & Export Energy	MUs	Internal Data base
18	Nos. of Consumers	Nos.	Tru up Data
19	Connected Load of Consumers	MW	Statement
20	Input Energy	MUs	Monthly Electricity bills
21	Consumer wise Billed Energy		Monthly Report
22	T&D Loss	MUs	Monthly Report
23	T&D Loss	%	Monthly Report
24	Feeder meters accuracy and error	Document	Latest Calibration reports

Annexure- IX Calibration Reports

No.: 211

MADHYA GUJARAT VIJ CO. LTD.		Date: 12/05/2021	
ENERGY METER TESTING / SEALING PROFORMA		Sub division: <u>Waghodia</u>	
Meter Testing Laboratory, Baroda Division			
METER PROVIDED ON: <u>Aspen</u>		ERS parameters	
Name of Consumer: <u>Aspen Park Infra Vadodara Pvt. Ltd</u>		Volt Line (PP)	P1-31.791 P2-31.369 P3-31.226
Address: <u>S.No 33 (old S.No-26) Vill: Pipatiya, Waghodia</u>		Phase (PN)	P1-18.050 P2-18.547 P3-17.899
Contact Person: <u>Mr. Apurva Shah</u> Phone No. <u>8155889990</u>		(AMP)	L1-0.0502 L2-0.0468 L3-0.0484
Consumer No.: <u>HT-13881</u> Contract Demand: <u>2980</u> KVA		PF	1-0.1782 2-0.1737 3-0.1300
Type of Ind.: <u>SEZ</u> CPP / Wheeling: <u>---</u>		Load (KW)	1-0.16 2-0.15 3-0.11
Details of TTB		DG Set: <u>---</u> KW/KW	Avg. P.F. <u>0.1609</u> Total Load (P) <u>0.0004 MVA</u>
Make: <u>DAY</u> Sr.No: <u>---</u>		Induction Furnace: <u>---</u>	KVARH (+) (Q) <u>-0.0026 MVA</u>
DETAILS OF ENERGY METER		DETAILS OF CT & PT UNIT	
Make: <u>Secure</u> Type: <u>E3 M021</u>		KVARH (-)	
Sr. No: <u>9EC08777</u>		KVARH (S) <u>0.0026 MVA</u>	
Lab No: <u>PBQ-178/12/2008</u>		TEST Result	
PT Ratio: <u>33kv/110v</u> CT Ratio: <u>50/1</u>		Communication/Pulse mode No of pulses: <u>4</u>	
Impulse/KWH: <u>400</u> Impulse/KVARH: <u>400</u>		Reading (meter HR disp)	
Dial M.F. Unit: <u>1.0</u> Demand: <u>1.0</u>		Reading on MRI	
Class: <u>0.2s</u> Mfg. Year: <u>2008</u>		w) Final: <u>Aspen Park Infra Vadodara Pvt. Ltd.</u>	
DETAILS OF ENERGY METER		x) Initial: <u>Survey No. 25, Village Pipatiya,</u>	
KWH: <u>32560</u>		y) Diff: <u>Tal-Waghodia, Vadodara - 391760,</u>	
KVAH: <u>33098</u>		Gujarat, India	
KVARH: <u>331</u>		ERS KWH	
Year of Mfg.: <u>---</u>		KVAH: <u>---</u> KVARH (-)	
PT Make: <u>ECS</u> Ratio: <u>33kv/110v</u>		% ERROR =	
Sr. No: <u>081843, 081844, 081845</u>		<u>+0.10 %</u>	
Class of Accur: <u>0.2</u> Burden: <u>15</u> VA		KWH <u>+0.10 %</u>	
Year of Mfg.: <u>2008</u>		KVARH (+)	
Overall Multiplication Factor = $\frac{CTR \text{ Connected} \times P.T.R. \text{ connected} \times S.M.F.}{\text{Meter PTR}}$		KVAH	
= $\frac{50/1A \times 33kv/110v}{1/1A \times 33kv/110v}$		REMARKS:	
= <u>50 (FIFTY)</u>		<u>(1) This installation is visited today as per site visit charge Paid by consumer vide receipt No: M9421202105117 Dt. 11/05/21</u>	
Before Checking (As found)		After Checking (As Left)	
CT/PT		CT/PT	
1. Body		1. Body	
2. Secondary TB		2. Secondary TB	
METER Body		METER	
1. Body		1. Body	
2. Term. Cover		2. Term. Cover	
3. Opt. Port		3. Opt. Port	
4. TTB		4. TTB	
5. M.D.		5. M.D.	
6. MMB /smc		6. MMB /smc	
7. MMB Window		7. MMB Window	
8. CT Compartment		8. CT Compartment	
Original Copy Received		M.T. Lab Consumer's representation	

No.: 212

MADHYA GUJARAT VIJ CO. LTD.		Date: 12/05/2021	
ENERGY METER TESTING / SEALING PROFORMA		Sub division: <u>Waghodia</u>	
Meter Testing Laboratory, Baroda Division			
METER PROVIDED ON: <u>Unit of SEZ SE Forge Ltd.</u>		ERS parameters	
Name of Consumer: <u>Aspen Park Infra Vadodara P.L.</u>	Volt Line(P)	P1-31.919	P2-31.918
Address: <u>S.No.33(Old.S.No.26)Vill: Pipariya, Wadia</u>	Phase (PN)	P1-18.319	P2-18.472
Contact Person: <u>Mr. Apurv Shah</u> Phone No.: <u>815889990</u>	I (AMP.)	L1-0.1412	L2-0.1373
Consumer No.: <u>HT-13881</u> Contract Demand: <u>2980</u> KVA	PF	1-0.9956	2-0.9875
Type of Ind.: <u>SEZ</u> CPP / Wheeling: <u>---</u>	Load (KW)	1-2.57	2-2.50
Details of TTB		Total Load (P) <u>0.0074 MW</u>	
Make <u>DAV</u> Sr.No. <u>---</u>	DG Set: <u>---</u> KVA/KW	Avg. P.F. <u>0.9926</u>	
Induction Furnace: <u>---</u>			
DETAILS OF ENERGY METER		DETAILS OF CT & PT UNIT	
Make <u>Secura</u> Type <u>E3M021</u>	CT Make <u>AREVA</u> Type: <u>Outdoor/Indoor/Combined/Separate</u>	KWH	KVARH(+) (Q) <u>0.0008 MVA</u>
Sr. No. <u>GEC08693</u>	CT No of CT: <u>Two / Three</u>	KVARH (-)	KVAH (S) <u>0.0075 MVA</u>
Lab No. <u>PBQ-15/01/2009</u>	Sr. No. <u>ASD 001318</u>	TEST Result	
PT Ratio <u>33kv/110v</u> CT Ratio: <u>-/1A</u>	Class of Accu: <u>0.2</u> Burden: <u>5</u> VA	Communication/Pulse mode No of pulses: <u>16</u>	
Impulse/KWH: <u>400</u> Impulse/KVARH: <u>400</u>	CT ratio: <u>200/1A</u>	Reading (meter HR disp) _____ Reading on MRI _____	
Dial M.F./Unit: <u>1.0</u> Demand: <u>1.0</u>	Year of Mfg.: <u>---</u>	w) Final: <u>Aspen Park Infra Vadodara Pvt. Ltd.</u>	
Class: <u>0.2s</u> Mfg. Year: <u>2008</u>	PT Make: <u>EC5</u> Ratio: <u>33kv/110v</u>	x) Initial: <u>Tal Waghodia, Vadodara - 391760</u>	
DETAILS OF ENERGY METER		y) DHT: <u>Gujarat, India</u>	
KWH: <u>403839</u>	Sr. No. <u>081885, 081886, 081887</u>	ERS KWH _____	
KVAH: <u>405740</u>	Class of Accu: <u>0.2</u> Burden: <u>2.5</u> VA	KVAH _____ KVARH (-) _____	
KVARH: <u>10818</u>	Year of Mfg.: <u>2008</u>	% ERROR = _____	
Overall Multiplication Factor = $\frac{\text{C.T.R. Connected} \times \text{P.T.R. connected} \times \text{S.M.F.}}{\text{Meter CTR} \times \text{Meter PTR}}$		REMARKS:	
= $\frac{200/1 \times 33kv/110v}{1 \times 33kv/110v} = 200$ (Two Hundred)		This installation is visited today as per site visit charge paid by consumer vide receipt no. <u>HR421202105117</u> dt: <u>11-05-2021</u>	
Before Checking (As found)		After Checking (As Left)	
CIPT	CIPT	a) The accuracy of HT VM found with ERS meter and as found within permissible limit.	
1. Body	1. Body	Details of EAS	
2. Secondary TB	2. Secondary TB	Make: <u>Zeta</u>	
METER Body	METER	S.No: <u>050052791</u>	
1. Body	1. Body	Validity upto: <u>06/11/2021</u>	
2. Term. Cover	2. Term. Cover	Sign: _____	
3. Opt. Part	3. Opt. Part	Name: <u>Apurv Shah</u>	
4. TTB	4. TTB	Design: <u>Dr. K. K. K.</u>	
5. M.D.	5. M.D.	M.T. Lab Consumer Representation	
6. MMB/smc	6. MMB/smc	Original Copy Received <u>Apurv 12/5/21</u>	
7. MMB Window	7. MMB Window	MT <u>12/5/21</u>	
8. CT Compartment	8. CT Compartment		

No.: 213

MADHYA GUJARAT VIJ CO. LTD.		Date: 12/05/2021	
ENERGY METER TESTING / SEALING PROFORMA		Sub division: Waghodra	
Meter Testing Laboratory, Baroda Division			
METER PROVIDED ON: Unit of SEZ - Cryogas Equip. P.L.		ERS parameters	
Name of Consumer: Aspen Park Infra Vadodara Pvt. Ltd.		Volt (Line/Ph)	P1-10.852 P2-10.958 P3-10.861
Address: S.No-33 (Old S.No-26) Vill: Pipaliya, Waghodra		Phase (P/N)	P1-6.223 P2-6.312 P3-6.328
Contact Person: Mr. Apurva Shah Phone No: 8155889990		(AMP)	L1-0.01143 L2-0.0126 L3-0.0082
Consumer No: H7-13881 Contract Demand: 2980 KVA		PF	1-0.5663 2-0.8330 3-0.5784
Type of Ind.: SEZ CPP / Wheeling: _____		Load (KW)	1-0.05 2-0.07 3-0.03
Details of TTB		DG Set: _____ KVA/KW	Avg. P.F. 0.6653 Total Load (P) 0.15 MW
Make: _____ Sr.No: _____		Induction Furnace: _____	KWH _____ KVARH (4WS) 0.15
DETAILS OF ENERGY METER		DETAILS OF CT & PT UNIT	
Make: Secure Type: EAM025		11KV/22KV/33KV/44KV/52KV/220KV	
Sr. No: MSP 33912		Indoor/Indoor/Combined/Separate	
Lab No: Z8XS/216/15-03		Electronics & Electrical	
PT Ratio: 11kv/110v CT Ratio: -15A		Make: _____ Type: G/B/R/Ring/	
Impulse/KWH: 160 Impulse/KVARH: 160		CT No of CT: 5/8 / Three	
Dial M.F./Unit: 1.0 Demand: 1.0		Sr. No: 160837, 160835,	
Class: 0.2 Mfg. Year: 2011		160836	
DETAILS OF ENERGY METER		Class of Accu: 0.5 Burden: 5 VA	
KWH: 7627		CT ratio: 100/5A	
KVAH: 11508		Year of Mfg: _____	
KVARH: 7385		PT Make: ECS Ratio: 11kv/110v	
Overall Multiplication Factor = C.T.R. Connected x P.T.R. connected x SMF / Meter PTR		Sr. No: 11/0186 - N.V., N.V.	
= 100/5 (11kv/110v) / 50 (11kv/110v)		Class of Accu: 0.5 Burden: 100 VA	
= 20 (Twenty)		Year of Mfg: 2012	
Before Checking (As found)		After Checking (As Left)	
CT/PT		CT/PT	
1. Body		1. Body	
2. Secondary TB		2. Secondary TB	
METER Body	6865429 SEMS	METER	
1. Body	4326490, 81 KRISHNA	1. Body	762492, 93 KRISHNA
2. Term. Cover		2. Term. Cover	
3. Opt. Port		3. Opt. Port	
4. TTB		4. TTB	
5. M.D.		5. M.D.	
6. MMB		6. MMB	
7. MMB Window		7. MMB Window	
8. CT Compartment		8. CT Compartment	762490, 91 KRISHNA
Original Copy Received		M.T. Lab Consumer's representative	

TEST Result

Communication/Pulse mode No of pulses: 2

Reading (meter HR displ) Reading on MRI

w) Final: Aspen Park Infra Vadodara Pvt. Ltd.

x) Initial: Survey No-26, Village Pipaliya,

y) Dist: Tal-Waghodra, Vadodara - 391760,

Gujarat, India

ERS KWH _____ KVARH (-) _____

% ERROR = KWH + 0.03%
KVARH(+) _____
KVAH _____

REMARKS:

This installation is visited today as per site visit charge paid by consumer vide receipt no. H442120210517 dt: 11/5/21

2) The accuracy of HT TWT tested with ERS meter and it found within permissible limit as only pt. error of 0.03% is observed. Defect of ERS lab is confirmed. Meter Kesa. Se. no. 650052 29. Validity up to: 06/11/2021

Sign: _____

Name: Apurva Shah

Design: B.T. Engr

M.T. Lab Consumer's representative

Original Copy Received

Apurva Shah

12/5/21

Date: 12/5/21

No.: 214

MADHYA GUJARAT VIJ CO. LTD.		Date: 12/05/2021	
METER TESTING / SEALING PROFORMA		Sub division: Nagnodiya	
Meter Testing Laboratory, Baroda Division		Ind. P.C. ERS parameters	
METER PROVIDED ON: Unit of SEZ - Persimg Alloy		ERS parameters	
Name of Consumer: <u>Aspen Park Infra Vadodara P.L.</u>	Volt (Line/Ph): P1-10.606 P2-10.616 P3-10.592		
Address: <u>S.No. 33 (Olds. No. 26) Vill: Pipaliya, Nagnodiya.</u>	Phase (PN): P1-0.099 P2-0.164 P3-6.127		
Contact Person: <u>Mr. Apurva Shah</u> Phone No. <u>815889990</u>	(AMP): L1-0.0611 L2-0.0524 L3-0.0591		
Consumer No. <u>47-13881</u> Contract Demand: <u>2950</u> KVA	PF: 10.8825 20.8883 30.8441		
Type of Ind.: <u>SEZ</u> CPP / Wheeling: <u>---</u>	Load (KW): 1-0.30 2-0.27 3-0.31		
Details of TTB		Avg. P.F. <u>0.8297</u> Total Load (P) <u>0.88 KW</u>	
Make: <u>---</u> Sr.No. <u>---</u>	DG Set: <u>---</u> KV/KWH	KWH	
Induction Furnace: <u>---</u>		KVARH (+) <u>0.59</u>	
DETAILS OF ENERGY METER		KVARH (-) <u>---</u> KVARH (S) <u>1.06</u>	
Make: <u>Secure</u> Type: <u>E3M025</u>	DETAILS OF CT & PT UNIT	TEST Result	
Sr. No.: <u>MSP 33915</u>	11KV/22KV/33KV/33KV/132KV/220KV	Communication/Pulse mode No of pulses: <u>2</u>	
Lab No.: <u>28XSL1913-05</u>	Outdoor/Indoor/Combined/Separate	Reading (meter HR disp) <u>---</u> Reading on MRI <u>---</u>	
PT Ratio: <u>11KV/110V</u> CT Ratio: <u>-15A</u>	Make: <u>Krishna</u> Type: <u>06(BOR)Ring</u>	w) Final: <u>Aspen Park Infra Vadodara Pvt. Ltd.</u>	
Impulse/KWH: <u>160</u> Impulse/KVARH: <u>160</u>	CT No of CT: Two / Three	x) Initial: <u>Survey No. 26 Village Pipaliya,</u>	
Dial M.F. Unit: <u>1.0</u> Demand: <u>1.0</u>	Sr. No.: <u>AGD 2493</u>	y) Dist: <u>Tal-Waghodia, Vadodara - 391760.</u>	
Class: <u>0.2S</u> Mfg. Year: <u>2011</u>	Class of Accr: <u>0.5</u> Burden: <u>2.5 VA</u>	Gujarat, India	
DETAILS OF ENERGY METER		ERS KWH	
KWH: <u>6319</u>	Year of Mfg.: <u>---</u>	KVAH <u>---</u> KVARH (-) <u>---</u>	
KVAH: <u>13802</u>	PT Make: <u>ECS</u> Ratio: <u>11KV/110V</u>	% ERROR = <u>+</u> KWH <u>+0.08%</u>	
KVARH: <u>11913</u>	Sr. No.: <u>11/018647, 50, 46</u>	KVARH (+) <u>---</u>	
Overall Multiplication Factor = $\frac{CTR_{connected} \times PTR_{connected} \times SME}{Meter\ CTR \times Meter\ PTR}$		KVAH <u>---</u>	
= $\frac{106/5 \times 11KV/110}{576 \times 11KV/110} = 20$ (Twenty)		REMARKS:	
Before Checking (As found)		1) This installation is visited today as per site visit charge paid by consumer vide receipt No. MA421202105117 Dt. 11/05/21	
After Checking (As Left)		2) The accuracy of HT turn tested with ERS meter & its found within permissible limit	
CT/PT	CT/PT	Detail of ERS	
1. Body	1. Body	Make: <u>ZERA</u>	
2. Secondary TB	2. Secondary TB	Sr. No.: <u>050052791</u>	
METER Body	METER	Validity upto: <u>06/11/21</u>	
1. Body	1. Body	Sign: <u>Apurva Shah</u> 12/5/21	
2. Term. Cover	2. Term. Cover	Name: <u>Apurva Shah</u>	
3. Opt. Port	3. Opt. Port	Design: <u>Dy. Engr</u>	
4. TTB	4. TTB	M.T. Lab Consumer's representative	
5. M.D.	5. M.D.		
6. MMB	6. MMB		
7. MMB Window	7. MMB Window		
8. CT Compartment	8. CT Compartment		
Original Copy Received			

No.: 215

MADHYA GUJARAT VIJ CO. LTD.		Date: 12/05/2021	
ENERGY METER TESTING / SEALING PROFORMA		Sub division: <u>Waghodia</u>	
Meter Testing Laboratory, Baroda Division			
METER PROVIDED ON: <u>Unit of SEZ - Borco Products (I) Ltd.</u>		ERS parameters	
Name of Consumer: <u>Aspen Park Infra Vadodara Pvt. Ltd.</u>	Volt Line (V)	P1-10.67	P2-10.61
Address: <u>S.No. 33 (Old S.No. 20) Vill: Pipaliya, Waghodia</u>	Phase (PH)	P1-6.135	P2-6.159
Contact Person: <u>Mr. Apurva Shah</u> Phone No.: <u>8155389990</u>	I (AMP.)	L1-0.566	L2-0.547
Consumer No.: <u>H7-13881</u> Contract Demand: <u>2980</u> KVA	PF	1-0.985	2-0.985
Type of Ind.: <u>SEZ</u> CPP / Wheeling: <u>---</u>	Load (KW)	1-3.421	2-3.298
Details of TTB		DG Set: <u>---</u> KVA/KW	Avg. P.F. <u>0.988</u>
Make: <u>---</u> Sr.No.: <u>---</u>	Induction Furnace: <u>---</u>	KWH	Total Load (P) <u>9.995 KW</u>
DETAILS OF ENERGY METER		DETAILS OF CT & PT UNIT	
Make: <u>Secura</u> Type: <u>E3M025</u>	CT/11KV/20KV/33KV/66KV/110KV/220KV/432KV	KVARH (-)	KVARH (+) <u>1.582</u>
Sr. No.: <u>MSP 33929</u>	Indoor/Combined/Separate	KVARH (S)	<u>10.12</u>
Lab No.: <u>28XSI170113-0A</u>	Make: <u>Krishna</u> Type: <u>CC/Ring/</u>	TEST Result <u>---</u>	
PT Ratio: <u>11KV/110V</u> CT Ratio: <u>-15A</u>	CT No of CT: <u>Two / Three</u>	Communication/Pulse mode No of pulses: <u>16</u>	
Impulse KWH: <u>160</u> Impulse KVARH: <u>160</u>	Sr. No.: <u>AGF 2063</u>	Reading (meter HR disp)	
Dial M.F. Unit: <u>1.0</u> Demand: <u>1.0</u>	Class of Accu: <u>0.5</u> Burden: <u>5</u> VA	Reading on MRI	
Class: <u>0.2s</u> Mfg. Year: <u>2011</u>	CT ratio: <u>200/5A</u>	w) Final	KWH
DETAILS OF ENERGY METER		x) Initial	KVARH
KWH: <u>488965</u>	PT Make: <u>ECS</u> Ratio: <u>11KV/110V</u>	y) Diff	KVAH
KVAH: <u>491308</u>	Sr. No.: <u>11/01868, 49, 73</u>	ERS KWH	
KVARH: <u>9175</u>	Class of Accu: <u>0.5</u> Burden: <u>100</u> VA	KVAH	
Overall Multiplication Factor = $\frac{\text{CTR, Connected} \times \text{PTR, connected} \times \text{SME}}{\text{Meter CTR} \times \text{Meter PTR}}$		REMARKS:	
= $\frac{200/5A \times 11KV/110V}{5/5A \times 11KV/110V} = 20 \text{ (FOURTY)}$		1) This installation is visited today as per site visit charge paid by consumer vide receipt No. M942120210517 dt. 11/05/21	
Before Checking (As found)		After Checking (As Left)	
CIPI		CIPI	
1. Body		1. Body	
2. Secondary TB		2. Secondary TB	
METER Body	<u>8863A3 SEMI</u>	METER	<u>---</u>
1. Body	<u>2299701, 02 KRISHNA</u>	1. Body	<u>76A2602, 03 KRISHNA</u>
2. Term. Cover	<u>1364725, 26 KRISHNA</u>	2. Term. Cover	<u>---</u>
3. Opt. Port	<u>136A727 KRISHNA</u>	3. Opt. Port	<u>---</u>
4. TTB	<u>---</u>	4. TTB	<u>---</u>
5. M.D.	<u>1364728 KRISHNA</u>	5. M.D.	<u>---</u>
6. MMB/SMC	<u>186A729, 30 KRISHNA</u>	6. MMB/SMC	<u>76A2504, 05 KRISHNA</u>
7. MMB Window	<u>---</u>	7. MMB Window	<u>---</u>
8. CT Compartment	<u>---</u>	8. CT Compartment	<u>76A2498, 99 KRISHNA</u>
Original Copy Received		M.T. Lab Consumer's representative	