Annual Energy Accounting Report

Designated Consumer



Maharashtra Airport Development Company Limited W Building, 1st Floor,Khapri, Nagpur - 441108



Bureau of Energy Efficiency [Govt. of India – Ministry of Power] 4th Floor, SewaBhawan, R. K. Puram, New Delhi – 110066, India.

Prepared by

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- Mr. SamreshChatterjee- Chief Engineer
- Mr. D. R. Deshmukh Executive Engineer Electrical

Mr. AmolGhode- Assistant Engineer

andallothersupportingstaffwhohavegivenfullco-operationandsupport. Theytookkeeninterest and gave valuable inputs during the course ofstudy.

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TheAnnualEnergyAccountingauditinvolvedengagementoffollowingteammembersrepresentingSavecalEnergySolutionsLLPthatwasawardedthesaidworkbyDevelopmentCompany Limited.

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1 ExecutiveSummary

1.1 Brief Overview of Maharashtra Airport Development Company Limited (SEZ MIHAN)

Maharashtra Airport Development Company Limited (MADC) has been appointed by the Government of Maharashtra as the Nodal Agency and also Special Planning Authority for the planning and development of Multi-modal International Hub Airport at Nagpur (MIHAN) notified area to leverage on Nagpur's unique locational advantage.

The Government of India has already accorded approval and notified MIHAN-SEZ as a multiproduct SEZ. MADC has already leased out about 600 ha. land in MIHAN-SEZ to majors IT companies like Infosys, TCS, Tech-Mahindra and other blue chip companies like Tata Aeronautics Limited, Kolland, Hexaware BPS (Caliberpoint), Lupin Pharma., Air India Boeing Inc., Reliance Aero Infrastructure etc. for setting up of IT parks, manufacturing units and MRO facilities etc. AIIMS, IIM and Govt. Engineering Colleges is also establishing their campus in the MIHAN area. Considering the overall development of MIHAN and its surrounding there could be demand of commercial and residential facility. The development of all support infrastructures, which MADC has committed to provide, is almost completed.

In order to provide electricity to the consumers, MADC constructed the electrical distribution network including 5 Power Sub-Station (4 in SEZ & 1 in NON SEZ) along with 4 DTH (2 in SEZ & 2 in NON SEZ). Earlier, the electrical distribution network including 33/11KV sub stations was under M/s. AMNEPL for operation and maintenance, but AMNEPL stopped power supply to MIHAN area in April – 2014 and handed over the network to MADC in same month. Since then, MADC was carrying out the operation and maintenance of infrastructure network and started purchasing and distribution of power.

2 Summary of Critical Analysis by Energy Auditor (including status and progress in compliance to prerequisites to energy accounting) and Management Analysis (Responses of DISCOM management on Comments by Auditor)

FY 2021-22 Summary

- Total no. of consumer during FY 2021-22 is 84.
- Total connected load during FY 2021-22 is 39.77 MW.
- Total Input energy (Purchased Energy) from MSEDCL during FY 2021-22 is 68 MU.
- T&D loss during FY 2021-22 is 1.73 MU i.e. 2.54 % of total Input Energy.
- AT&C loss during FY 2021-22 is 2.26 %.

Observation & Recommendations

- All Distribution transformers shall be metered with communicable meters. Presently MADC have no arrangement of DT metering in 33KV/11KV/415V voltage level.
- All consumer meter to be replaced with smart meter.
- The energy accounting and audit system and software shall be developed to create monthly, quarterly and yearly energy accounting reports.
- It is recommended to replace old in-efficient DTs with BEE Star rated DTs at all LT and HT Level (upto 2.5 MVA rating) having IS:1180 in phases during scheduled replacements. This will reduce the No-Load losses and Full-Load Losses for theDISCOMs.

3 Background

3.1 Extant Regulations and role of BEE

Energy Accounting means accounting of all energy inflows at various voltage levels in the distribution periphery of the network, including renewable energy generation and open access consumers, and energy consumption by the end consumers. Energy accounting and a consequent annual energy audit would help to identify areas of high loss and pilferage, and thereafter focus efforts to take corrective action.

Owing to the impact of energy auditing on the entire distribution and retail supply business and absence of an existing framework with dedicated focus on the same, it was imperative to develop a set of comprehensive guidelines that all Distribution utilities across India can follow and adhere to.

Bureau of Energy Efficiency (BEE) through Ministry of Power, Government of India issued regulations for Conduct of Mandatory Annual Energy Audit and Periodic Energy Accounting in DISCOMs. As per the regulation, all Electricity Distribution Companies are mandated to conduct annual energy audit and periodic energy accounting on quarterly basis.

These Regulations for Energy audit in Electricity Distribution Companies provides broad framework for conduct of Annual Energy Audit though and Quarterly Periodic Energy Accounting with necessary Pre-requisites and reporting requirements to be met.

3.2 Purpose of audit and accounting Report

Energy accounting is prompt and accurate accounting of the Energy inflows at various voltage levels of the network and the subsequent energy consumption by the end customers. Energy accounting and a consequent energy audit would help identify areas of high loss and pilferage, and focus efforts to take corrective action.

Objectives

- Quantify & determine actual energy consumption/losses (Consumer category wise)
- Identify areas of leakage, wastage or inefficient use, to reduce T&D losses
- Enable Independent 3rd party energy audit/ accounting of the distribution system
- Enable the Distribution utilities in undertaking targeted efficiency activities to reduce losses.
- Identification of overloaded segments of the network for necessary capacity additions.
- Facilitating the assessment of energy consumption & subsidy by state Govt.

3.3 **Period of Energy Auditing and accounting**

Intervals of time for conduct of annual energy audit.-

(1) Every electricity distribution company shallconduct an annual energy audit for every financial year and submit the annual energy audit report to theBureau and respective State Designated Agency and also made available on the website of the electricitydistribution company within a period of four months from the expiry of the relevant financial year:Provided that on the commencement of these regulations, the first annual energy audit of everyelectricity distribution company shall be conducted within six months from the date of such commencement,by taking into account the energy accounting of electricity distribution company for the financial yearimmediately preceding the date of the commencement of these regulations.28 THE GAZETTE OF INDIA : EXTRAORDINARY [PART III—SEC.4]

(2) Where a new electricity distribution company is established after the commencement of these regulations, such electricity distribution company shall conduct its first annual energy audit on completion of the first financial year from the date of being notified as designated consumer.

Intervals of time for conduct of periodic energy accounting.-

(1) Every electricity distribution companyshall —

(a) ensure that all feeder wise, circle wise and division wise periodic energy accounting shall be conducted by the energy manager of the electricity distribution company for each quarter of the financialyear; and

(b) submit the periodic energy accounting report to the Bureau and respective State Designated Agencyand also made available on the website of electricity distribution company within forty-five days from thedate of the periodic energy accounting.

(2) After the commencement of these regulations, every electricity distribution company shall,

Notwithstanding anything in sub-regulation

(1), Every electricity distribution companyshall ----

(a) conduct its first periodic energy accounting, for the last quarter of the financial year immediately preceding the date of such commencement; and

(b) conduct its subsequent periodic energy accounting for each quarter of the financial year for a period of two financial years from the date of such commencement, and submit the periodic energy accounting report within sixty days from the date of periodic energyaccounting.

4 Introduction of DISCOMs (DC)

4.1 Name and Address of Designated Consumer

Maharashtra Airport Development Company Limited (SEZ MIHAN)

CorporateOffice : W Building, 1st Floor, Khapri, Nagpur, Maharashtra-441108

4.2 RegistrationNumber Name and contact details of energy manager (BEE Certified, if any) and Authorized signatory ofDC (Nodal Officer)

Energy Manager - Mr. D. R . Deshmukh (EA-9885)

Authorised signatory – Mr. D. R . Deshmukh (Executive Engineer Electrical)

Mob. 91- 9370472612

Email id. deshmukh.dr@madcindia.org

4.3 Summary profile of DCs (Assets, Energy Flow, Consumer base, salient features etc.)

Consumer Details

S.No.	Consumer No.	Consumer Details	Connected Load kW	Consumer Category				
HT Consumer 33 KV								
1	3	M/S AI Engineering Services Ltd.	7485	HT Commercial				
2	11	M/S Tata Consultancy Services	3500	HT Commercial				
3	19	M/S Lupin Ltd.	7372	HT Commercial				
		HT Consumer 11 KV						
1	1	M/S Chief Engineer MADC	2000	Government offices and department				
2	2	M/S Chief Engineer MADC Ltd. WTP	250	HT Water Supply				
3	4	M/S Tata Advanced Systens Limited	4500	HT Commercial				
4	7	M/S KOLLAND Developers Ltd.	500	HT Commercial				
5	8	HexawraeTechnoloies Ltd. (Caliber Point Business Solution Ltd.)	600	HT Commercial				
6	9	M/S KANAV Agronomy	298	HT Commercial				
7	10	M/S Diet Food International	422	HT Commercial				
8	12	M/S Smart Data Enterprises	430	HT Commercial				
9	13	M/S Tech Mahindra Limited	650	HT Commercial				
10	14	M/S Infosys Limited	300	HT Commercial				

		1	1	
11	17	M/S AAR INDAMER Technics Pvt. Ltd.	600	HT Commercial
12	18	M/S Infocept Tech. Pct. Ltd. (unit III)	300	HT Commercial
13	20	M/S HCL Tech. Limited	3000	HT Commercial
14	21	M/S Dassault Reliance aerospace limited	2420	HT Commercial
15	22	M/S Thales Reliance Defence System Ltd.	800	HT Commercial
16	23	M/S Tata Consultancy Services	500	HT Commercial
17	24	M/S AAR INDAMER Technics Pvt. Ltd.	1400	HT Commercial
18	25	M/S Infosys Limited	192	HT Commercial
		LT Consumer	T	
1	3	M/S Cenosphere India Pvt Ltd	80	Commercial
2	4	M/S Meta Tech Air Systems Pvt. Ltd	85	Commercial
3	5	M/S Sub Divisional Engineer BSNL	13	Commercial
4	6	M/S Chief Engineer MADC Nagpur	86	Public Lighting
5	7	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department
6	8	M/S Chief Engineer MADC Nagpur	80	Public Lighting
7	9	M/S Chief Engineer MADC Nagpur	80	Public Lighting
8	10	M/S Chief Engineer MADC Nagpur	40	Public Lighting
0	44	M/S Abhijeet MADC Nagpur energy pvt.		Government offices and
9	11	Ltd		department
10	15	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department
11	16	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department
12	17	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department
13	18	M/S Chief Engineer MADC Nagpur	14.74	Government offices and department
14	19	M/S Hass Corporation Pvt Ltd.	15	Commercial
15	20	M/S Devesh Pramod Khandelwal	78	Commercial
16	22	M/S Globallogic India Ltd	94	Commercial
17	23	M/S Veolia India Pvt. Limited	5.59	Commercial
18	26	M/S Chief Engineer MADC Nagpur	60	Public Lighting
19	28	M/S Chief Engineer MADC Nagpur	45	Water Supply
20	29	M/S Ebix Software India Oct. Ltd	60	Commercial
21	31	M/S Indus Towers Itd.	15	Commercial
22	32	M/S Infocept Technologies Unit 3	80	Commercial
23	33	M/S Indus Towers Ltd	15	Commercial
24	34	M/S State Bank of India	12	Commercial
25	35	M/S Hazel Mercantile Limited	6.5	Commercial
26	37	M/S Lupin Ltd.	1	Commercial
27	39	M/S Reliance JioInficomm Ltd.	5	Commercial
28	40	M/S Reliance JioInfocomm Ltd.	5	Commercial
29	42	M/S Reliance JioInfocomm Ltd.	1	Commercial
30	43	M/S Railtel Corporation of India Ltd.	10	Commercial
31	46	M/S GIF Technologies pvt. Ltd	60	Commercial
32	47	M/S Techture Structure Pvt. Ltd.	9	Commercial
33	48	M/S Altius Customer Services Pvt. Ltd.	70	Commercial
33	48	IVI/S AITIUS CUSTOMER Services Pvt. Ltd.	70	Commercial

34	49	M/S Haldiram Foods InternationsIPvt. Ltd.	1.5	Commercial
35	50	M/S PatanjaliAyurved Limited	16	Commercial
36	51	M/S Turgis& Gaillard India Pvt Ltd	1	Commercial
37	52	M/S Lighthouse infosystemPvt. Ltd.	150	Commercial
38	53	M/S Citius BPO(India) Pvt. Ltd.	20	Commercial
39	55	M/S Globallogic India Ltd.	70	Commercial
40	56	M/S Globallogic India Ltd.	100	Commercial
41	57	M/S Breads N Beyond	15	Commercial
42	58	M/S ESSEM Compliance Solutions Pvt Ltd.	10	Commercial
43	59	M/S Ascent Business Solution	20	Commercial
44	61	M/S HCL Technologies Ltd.	100	Commercial
45	63	M/S TRT Technologies	120	Commercial
46	64	M/S Infosys Ltd.	135	Commercial
47	65	M/S Chief Engineer MADC Nagpur	1	Public Lighting
48	66	M/S Sagacious IP Pvt. Ltd.	40	Commercial
49	67	M/S DNJ Creation LLP (unit 3)	50	Commercial
50	69	M/S Indo Healthcare Pvt. Ltd.	7.5	Commercial
51	70	M/S Maximist for Education & Software Pvt. Ltd.	30	Commercial
52	71	M/S Arfamo Perfumes Pvt. Ltd.	16.5	Commercial
53	72	M/S Canera Bank	5	Commercial
54	73	M/S Sanman Trade Impex Ltd.	8	Commercial
55	74	M/S Escion Research Labs Pvt Ltd.	10	Commercial
56	75	M/S Persistent Systems Ltd.	40	Commercial
57	76	M/S Chief Engineer MADC Nagpur	30	Public Lighting
58	77	M/S Infocept Tech. Pvt. Ltd. (Unit 4)	40	Commercial
59	78	M/S Neeyamo Enterprise Solutions Pvt Ltd	10	Commercial
60	79	M/S Reliance JIO Infocom Ltd	8	Commercial
61	80	M/S Reliance JIO Infocom Ltd	8	Commercial
62	81	M/S Reliance Jio Infocom Ltd	8	Commercial
63	82	M/S RelinaceJioInfocom Itd	8	Commercial





Infrastructure Details

		SEZ AREA						Total		
S.NO.	Item Description	AMBPL S/S	PSS- 1	PSS- 2	PSS- 3	PSS- 4	DTH- 1	DTH- 4	CFB	for SEZ Area
1	Transformer Details	;								
1.1	82.5MVA 220/33kv Oil Type	3								3.00
1.2	16 MVA, 33/11 KV, Dyn 11, Oil Type		2.00	2.00	2.00	2.00				8.00
1.3	630 KVA, 11/0.425 KV Dry Type		1.00	1.00	1.00	1.00				4.00
1.4	630 KVA, 11/0.425 KV Oil Type						2.00	2.00		4.00
1.5	2500 KVA, 11/0.425 KV, Dry Type								2.00	2.00
1.6	1000 KVA, 11/10425 KV. Oil Type								1.00	1.00
2	Feeder Details									
2.1	33 KV Outgoing Feeders including VCB, Relays, MFM, CT, PT etc from AMNPI s/s To 4nos MADC Substation.	4								4.00
2.2	33 KV Feeders including VCB, Relays, MFM, CT Pt etc.		2.00	2.00	2.00	2.00				8.00

2.3	11 KV Feeders Including VCB Relays, MFM, CT, PT etc.	17.00	17.00	17.00	17.00			2.00	70.00
2.4	LT Feeder including ACB, Relays, MFM, CT, PT etc.	1.00	1.00	1.00	1.00	2.00	2.00	12.00	20.00
3	Line Length								
3.1	Line length (ckt. km) at 33kV voltage level								53.48
3.2	Line length (ckt. km) at 11kV voltage level								49.54
3.3	Line length (km) at LT level								7.27
3.4	Length of Aerial Bunched Cables								0
3.5	Length of Underground Cables								110.29

5 Discussion and Analysis

5.1 Energy accounts for previous years (Discussion and data in tabular format)

Not Applicable

5.2 Energy accounts and performance in the current year (% losses – aggregate, voltage-wise and category-wise, division-wise, feeder and DT wise)

Quarterly Summary of Input energy, Billed Energy &T&D Loss

S.N	Description	Unit	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Annual 2021-22
1	Energy Input	Mus	17.67	18.87	16.05	15.42	68.00
2	Billed Energy	Mus	17.24	18.37	15.61	15.05	66.27
3	T&D Loss	Mus	0.42	0.50	0.44	0.37	1.73
	T&D Loss	%	2.40%	2.66%	2.71%	2.38%	2.54%



No. of Consumer with Connected Load

S. No	Name of Circle	Number of Metered Connections	Number of Unmetered Connections	Total Connected Load (MW)
1	MADC	84	0	39.77

Consumer Category With T&D Loss

Name of Circle	Consumer Category	Input Energy (Mus)	Billed Energy (MUS)	T&D Loss (Mus)	T&D Loss %
	Residential		0		
	Agricultural	68.00	0	1.73	2.54%
MADC	Commercial/Industrial-LT		1.38		
	Commercial/Industrial-HT		61.84		
	Others		3.06		
Total		68.00	66.27	1.73	3%



Infrastructure details

S.N	Parameter	Unit	FY 2021-22
1	Total Nos. of Circle	Nos.	1
2	Total Nos. of Metered Connection	Nos.	84
3	Total Nos. of Un metered Connection	Nos.	0
4	Connected Load of Metered Connections	MW	39.77
5	Connected Load of Unmetered Connections	MW	0
6	% of metering available at DT	%	0
7	% of metering available at consumer end	%	100
8	No of feeders at 66kV voltage level	Nos.	3
9	No of feeders at 33kV voltage level	Nos.	12
10	No of feeders at 11kV voltage level	Nos.	70
11	No of LT feeders level	Nos.	20
12	Line length (ckt. km) at 66kV voltage level	Km	0
13	Line length (ckt. km) at 33kV voltage level	Km	53.48
14	Line length (ckt. km) at 11kV voltage level	Km	49.54
15	Line length (km) at LT level	Km	7.27
16	Length of Aerial Bunched Cables	Km	0
17	Length of Underground Cables	Km	110.29
18	HT/LT ratio	Unit less	14.17

5.3 Unit-wise performance

				Ene	ergy	Lo	sses	Com	mercial Par	ameter		
Name	Consumer Category	l otal Number e	l otal Number of	I otal Connected	paran	neters	T2D	חצד	Billed	Collected		AI & C
of circle		connections (Nos)	connections Load (Nos) (MW)		Total energy	loss (MU)	loss (%)	Amount in Rs. Crore	Amount in Rs. Crore	Collection Efficiency	loss (%)	
	Residential	0	0			0			0	0	0.00%	
	Agricultural	0	0		0		0	0	0.00%			
MADC	Commercial/Industrial- LT	49	1.77	68	68	1.38	1.73	2.54%	0.73	0.65	88.47%	2.26%
	Commercial/Industrial- HT	19	35.27		61.84			25.47	25.71	100.91%	2.20%	
	Others	16	2.73		3.06			1.35	1.28	94.84%		
Total		84	39.77	68	66.27	1.73	2.54%	27.56	27.64	100.29%		

• Total no. of consumer during FY 2021-22 is 84.

• Total connected load during FY 2021-22 is 39.77 MW.

- Total Input energy (Purchased Energy) from MSEDCL during FY 2021-22 is 68 MU.
- T&D loss during FY 2021-22 is 1.73 MU i.e. 2.54 % of total Input Energy.
- AT&C loss during FY 2021-22 is 2.26 %.

5.4 Energy Conservation measures already taken and proposed for future

- MADC had already installed Energy Efficient equipment's and lighting in office buildings and streets.
- MADC also encouraging its consumers for use of energy efficient equipment's and lightings.
- MADC is conducting Annual energy audit of office buildings to identify energy saving opportunity.

5.5 Critical analysis by Energy Auditor

Observation & Recommendations:

- All Distribution transformers shall be metered with communicable meters. Presently MADC have no arrangement of DT metering in 33KV/11KV/415V voltage level.
- All consumer meter to be replaced with smart meter.
- The energy accounting and audit system and software shall be developed to create monthly, quarterly and yearly energy accounting reports.
- It is recommended to replace old in-efficient DTs with BEE Star rated DTs at all LT and HT Level (upto 2.5 MVA rating) having IS:1180 in phases during scheduled replacements. This will reduce the No-Load losses and Full-Load Losses for theDISCOMs.

5.6 Inclusion and Exclusions

Not Applicable

6 Notes of the EA/EM along with queries and replies to data gaps

Observation & Recommendations:

- All Distribution transformers shall be metered with communicable meters. Presently MADC have no arrangement of DT metering in 33KV/11KV/415V voltage level.
- All consumer meter to be replaced with smart meter.
- The energy accounting and audit system and software shall be developed to create monthly, quarterly and yearly energy accounting reports.
- It is recommended to replace old in-efficient DTs with BEE Star rated DTs at all LT and HT Level (upto 2.5 MVA rating) having IS:1180 in phases during scheduled replacements. This will reduce the No-Load losses and Full-Load Losses for theDISCOMs.

7 Annexures

7.1 Introduction of Verification Firm

Savecal Energy Solutions LLP office: 3215/21, Behind Gagan Regency, Tatibandh, Raipur, C.G.-492001 Tel: +91-9131136645/+91-7773012647 Email: savecalenergysolutions@gmail.com

7.2 Minutes of Meeting with the DISCOM team

	MINUTES OF MEETING	
MADC	Maharashtra Airport Development Company Limited (SEZ MIHAN), Nagpur	Date: 11 May 2022
Savecal	Savecal Energy Solutions LLP , Raipur	Revision : NA

121		Annual Energ (SEZ MIHAN	y Accounting), Nagpur	of Maharasht	ra Airport De	evelopment Company Limite
Date		11.05.2022	Time	5.00 PM	Venue	MADC Office, Nagpur
MADC Lin	mited, Nagpur	1. Mr. D. R 2. Mr. Amo	. Deshmukh , ol Ghode ,			
Savecal Energy Solutions LLP, Raipur		1. Mr. San 2. Mr. Him 3. Mr. Niles	jay Annaso Kh anshu Bhatt sh Jain	ot	4. Mr. A	shok Shriwastava
Meeting ir discussed	volved detailed d //reviewed:	liscussion on the	data provided	by MADC Lir	nited, Nagp	ur. Following points were
All Discus a. b. c. d. e. f. All Dis arrang All col The e yearly It is re MVA i and F	ssed following po The Purchase DT metering is Input energy. The billed ener The consumer The AT&C loss Following are stribution transfor gement of DT me nsumer meter to I nergy accounting energy accounting energy accounting commended to re rating) having IS: ull-Load Losses f	ints with authoriz energy is verified not provided at o gy is taken from details and conn is taken from Ao the major observ mers shall be me tering in 33KV/11 be replaced with and audit system or replaced with and audit system or the DISCOMs	eed person of f I from MSEDC different voltag Consumer Bill ected load det coount stateme ation of audit: etered with con IKV/415V volta smart meter. m and software cient DTs with luring schedule	MADC Limited L e level. So, T s. ails are taken ent. nmunicable m age level. e shall be dev BEE Star rate ed replaceme	I, Nagpur. otal purchas from Consu neters. Prese eloped to cru ed DTs at all nts. This will	e energy is considered as umer Bills. ently MADC have no eate .monthly, quarterly and LT and HT Level (upto 2.5 I reduce the No-Load losses

Signed on behalf MADC	Limited, Nagpur	Signed on behalf of Savecal Ralpur	Energy Solutions LLP,
Name	Signature & Date	Name	Signature & Date
1. Mr. D. R. Deshmukh	Rohmenter	1. Mr. Sanjay Annaso Khot	Dr. Saniay Annaso Kh Accrediter, Engray Auditor (AE)
2. Mr. Amol Ghode	1 organs	2. Mr. Himanshu Bhatt	10
	own	3. Mr. Nileah Jain	and the second
		4. Mr. Ashok Shrivastava	Aprovastava

7.3 Check List prepared by auditing Firm

7.3.1 Check List

(I) data collection and verification of energy distribution-

(a) monthly energy consumption data of consumers and system metering from electricitydistribution company at following voltage levels —

(i) 33/66/132 kV levels, including 33/66/132kV feeder and Sub-station;

(ii) 11/22 kV levels, including 11/22 kV feeder and Distribution Sub-station;

(iii) 440 V level, including Distribution Transformer and low tension consumer;

(b) input energy details for all metered input points;

(c) boundary meter details;

(d) source of energy supply (e.g. electricity from grid or self-generation), including generationfrom renewables.

(e) review of the current consumption practices in order to identify the energy loss in the system;

(II) data verification, validation and correction-

(a) 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;

(b) Verification and correction of input energy, taking into account the following --

(i) Recorded system meter reading by metering agency;

(ii) all the input points of transmission system;

(iii) details provided by the transmission unit;

(iv) relevant records at each electricity test division for each month;

(v) Recorded meter reading at all export points (where energy sent outside the State is from the distribution system); and

(vi) System loading and corresponding infrastructure;

(c) Energy supplied to Open Access Consumers which is directly purchased by Open Access Consumers from any supplier other than electricity distribution company; and

(d) Verify and validate the system metering data provided by metering agency through random field visit (particularly for data irregularity).

7.4 Brief Approach, Scope & Methodology for audit

The methodology adopted for the Energy Accounting exercise is as under:

The below formed team visited the Discom Head office for collection and review of historical energy data, Meter calibrations, operating & maintenance practices and its data base system.

Verification of Yearly Purchased, Circle wise nos. of Consumers and their connected load, Consumer category wise

Energysale, Transmissionloss, EHTSale, Openexcesssale, Netinputenergy, Feederwise import &ExportEnergy, YearlyT&DlossinMUsandin%etc. Detailed verifications of data filled inspecific proforma and supporting documents collected during visit. Identification & study of Energy conservation options adopted by the designated consumer and future Strategy for Energy conservation.

Team Member	Designation	Activity	Date
Mr. Himanshu Bhatt	Certified Energy Auditor(EA- 31017)	Initial Meeting	09/05/2022
Mr. Nilesh Kumar Jain	Certified Energy Auditor(EA-31164)	Initial Meeting	09/05/2022
Mr. Himanshu Bhatt	Certified Energy Auditor(EA-31017)	DataCollection	09/05/2022- 11/05/2022
Mr. Nilesh Kumar Jain	Certified Energy Auditor(EA-31164)	Data Collection	09/05/2022- 11/05/2022
Mr. Sanjay AnnasoKhot	Accredited Energy Auditor (AEA-0312)	Data Review & Verification	11/05/2022
Mr. Ashok Shriwastava	Sector Expert	Data Review & Verification	11/05/2022
Mr. Himanshu Bhatt	Certified Energy Auditor(EA-31017)	Report preparation	11/05/2022- 20/05/200
Mr. Nilesh Kumar Jain	Certified Energy Auditor(EA-31164)	Report preparation	11/05/2022- 20/05/200

7.5 Infrastructure Details

S.NO. Item Description

SEZ AREA

Total

			Dee	Dee	Dee	Dee	пт⊔	птμ		
		S/S	<u> </u>	2	3	4	<u>1</u>	<u>4</u>	CFB	
1	Transformer Details		1							<u> </u>
1.1	82.5MVA 220/33kv Oil Type	3								3.00
1.2	16 MVA, 33/11 KV, Dyn 11, Oil Type		2.00	2.00	2.00	2.00				8.00
1.3	630 KVA, 11/0.425 KV Dry Type		1.00	1.00	1.00	1.00				4.00
1.4	630 KVA, 11/0.425 KV Oil Type						2.00	2.00		4.00
1.5	2500 KVA, 11/0.425 KV, Dry Type								2.00	2.00
1.6	1000 KVA, 11/10425 KV. Oil Type								1.00	1.00
2	Feeder Details									
2.1	33 KV Outgoing Feeders including VCB, Relays, MFM, CT, PT etc from AMNPI s/s To 4nos MADC Substation.	4								4.00
2.2	33 KV Feeders including VCB, Relays, MFM, CT Pt etc.		2.00	2.00	2.00	2.00				8.00
2.3	11 KV Feeders Including VCB Relays, MFM, CT, PT etc.		17.00	17.00	17.00	17.00			2.00	70.00
2.4	LT Feeder including ACB, Relays, MFM, CT, PT etc.		1.00	1.00	1.00	1.00	2.00	2.00	12.00	20.00
3	Line Length									
3.1	Line length (ckt. km) at 33kV voltage level									53.48
3.2	Line length (ckt. km) at 11kV voltage level									49.54
3.3	Line length (km) at LT level									7.27
3.4	Length of Aerial Bunched Cables									0
3.5	Length of Underground Cables									110.29



7.6 Electrical Distribution System

Maharshtra Airport Development Company Limited (SEZ MIHAN), FY 2021-22										
Power Purchase										
	Bus 1	Bus 2	Total							
FT 2021-22	kWH	kWH	kWH							
Quarter 1										
Apr-21	5499901	0	5499901							
May-21	5966405	0	5966405							
Jun-21	6200643	0	6200643							
Sub Total	17666949	0	17666949							
	Quarter	· 2								
Jul-21	6499433	0	6499433							
Aug-21	6313199	0	6313199							
Sep-21	4320034	1736790	6056824							
Sub Total	17132666	1736790	18869456							
	Quarter	3								
Oct-21	1511984	4409840	5921824							
Nov-21	5030671	34528	5065199							
Dec-21	5017766	40267	5058033							
Sub Total	11560421	4484635	16045056							
	Quarter	4								
Jan-22	4830480	40636	4871116							
Feb-22	4602151	34446	4636597							
Mar-22	5880250	33878	5914128							
Sub Total	15312881	108960	15421841							
Total	61672917	6330385	68003302							

			(AMMEPL)				
			Provisional Bi	11	D	ate: 4 th Apr 2022	
lame Systen Comm of the Frans	of the Transmission n User (TSU) nunication Address TSU mission System used	n : The Chief Engineer : CE, Maharashtra Alt 1 st Floor, MIHAN SE d : 220 KV Transmissio	- MADC rport Development Company Z, Khapri Railway, Nagpur-4 on System of AMNEPL consis	y Limited (MADO 41 108 sting of Switchya	T), Central Facility Build rds located at Khairi Kh	ing, B-Wing, uurd rehvards	
by the Date o ISU	TSU of start of use by the	22 nd November 201	AN SEZ and the associated to 4	austrussion une	Detween more the same		
Rilling	gPeriod	• Month of March 20	022		1		
BUS -	1	Reading (GWH)	BUS - 2	Reading (GWH)	Date of Reading & Time	Total Energy (KWH)	
Initial Energ	reading of y Meter at BUS-1	378.363555	Initial reading of Energy Meter at BUS-2	6.559300	01-03-2022 00:00 hrs		
Final r Energ	reading of y Meter at BUS-1	384.243805	Final reading of Energy Meter at BUS-2	6.593178	31-03-2022 24:00 hrs		
Differ	ence (GWH)	5.880250	Difference (GWH)	0.033878			
Differ	ence (KWH)	5880250	Difference (KWH)	33878		5914128	
Sr. No.	Period	Energy Transmitted during the Period (KWH)	Transmission Charge (Rs/Unit)	Total T	Transmission Charges for the Period (Rs)		
1	1 [#] Mar 2022 to 31 [#] Mar 2022	5914128	0.46		2720498.88		
C Rema	rk : 1) MADC (TSU) has bee No. 149 of 2014. 2) This provisional bill f the Order dated 14 th , Bills towards Taxes/I 3) The payment of the P 4) The Final Bill shall bo Petition to be filed by shall be settled between the total	n using the Transmissio for Transmission Charge August 2014 passed by Duties, if any, shall be re rovisional Bill can be m e raised by AMNEPL up e AMNEPL as per Orders en AMNEPL & the TSU	Twenty Thousand Four Hur on System of AMNEPL as per es is raised @Rs. 0.46/KWh, Hon'ble MERC in Case No 12 lised separately. ade through Cheque/DD in f ion fixation of the Transmiss s of the Hon'ble MERC dated accordingly.	the order dated the rate which is 3 of 2014. avour of "Abhije ion Charge by H 3 1 st Dec 2020 ((A Nine Only A State of the second se	Authorised Signato by Hon. MERC in Ca for FY 2014-15, as p y Pvt. Ltd." in respect of the fre ad adjustments, if ar	
	5) The TSU is requested	to release the payment	within 15 days of the date o	f this provisiona	I bill.		
			And the state of the shares his set	tor Aini Nagnu	r-440015		

		nomjeet	(AMNEPL)	Jer By I VI		
			Provisional Bil	1		
					D R	ate: 2 nd Mar 2022 ef No: 1180
ame of ystem Us	the Transmission ser (TSU)	: The Chief Engineer	MADC	Limited (MADC) Cantral Encility Puild	ling R Wing
ommuni f the TSU	cation Address	220 Manarashtra Air 1 st Floor, MIHAN SE	Z, Khapri Railway, Nagpur-4	41 108 tine of Susitchus	ode located at Khairi Kh	ang, p-wing,
oy the TS Date of st	ision System used U cart of use by the	Dist Nagpur & MIH/	AN SEZ and the associated tr	ansmission line	between these two swi	tchyards
TSU Billing Pe	eriod	: Month of February	2022			
BUS - 1		Reading (GWH)	BUS - 2	Reading (GWH)	Date of Reading & Time	Total Energy (KWH)
Energy M	ding of eter at BUS-1	373.761404	Initial reading of Energy Meter at BUS-2	6.524854	01-02-2022 00:00 hrs	
Final read Energy M	ling of leter at BUS-1	378.363555	Final reading of Energy Meter at BUS-2	6.55%3	28-02-2022 24:00 hrs	
Difference	e (GWH)	4.602151	Difference (GWH)	0.034-446		
Differenc	e (KWH)	4602151	Difference (KWH)	34446		4636597
Sr. No.	Period	Energy Transmitted during the Period (KWH)	Transmission Charge (Rs/Unit)	Total Transmission Charges for the Period (Rs)		
1	1 st Feb 2022 to 28 th Feb 2022	4636597	0.46	2132834.62		
0	Total Amount (Rs In word: 2gy Toransm iffed With): 21,32,835 s: Twenty-One Lakh T with 2 dusi'r loint Meles	thirty-Two Thousand Eight H g 01/02/22-73 - Mcadling With	Hundred and Thi 28/02/29 MSETCL	rty-Five Only 2 has For Abhijeet MADC Na	(NAGPUR)
vesi	d found	ole Bilm	nukli			Authorised Signato
vesi an	d found	or Bilm	with		unthu and	Authorised Signate
Remark:	A forund MADC (TSU) has bee No. 149 of 2014.	ole Duby, n using the Transmissi	on System of AMNEPL as pe	er the order date	ed 18 th Nov. 2014 passe	Authorised Signate
Remark:	MADC (TSU) has bee No. 149 of 2014. This provisional bill i the Order dated 14 th Bills towards Taxes/I The payment of the P	ole Dury n using the Transmissi for Transmission Charg August 2014 passed by Duties, if any, shall be r rovisional Bill can be n	on System of AMNEPL as per ges is raised @Rs. 0.46/KWh / Hon'ble MERC in Case No 1 aised separately. nade through Cheque/DD in	r the order date , the rate which 23 of 2014. favour of "Abhii	ed 18 th Nov. 2014 passe is applicable to MSETC jeet MADC Nagpur Ene	Authorised Signate ed by Hon. MERC in C CL for FY 2014-15, as p ergy Pvt. Ltd.*
Remark: 1) 2) 3) 4)	MADC (TSU) has bee No. 149 of 2014. This provisional bill f the Order dated 14". Bills towards Taxes/I The payment of the P The Final Bill shall b Petition to be filed by shall be settled betwee	Ole n using the Transmissi for Transmission Charg August 2014 passed by Duties, if any, shall be r rovisional Bill can be n e raised by AMNEPL u AMNEPL as per Order sen AMNEPL & the TSU	on System of AMNEPL as per ges is raised @Rs. 0.46/KWh y Hon'ble MERC in Case No 1 aised separately. nade through Cheque/DD in pon fixation of the Transmis rs of the Hon'ble MERC date) accordingly.	er the order date , the rate which 23 of 2014. favour of "Abhij ssion Charge by d 31 st Dec 2020	ed 18 th Nov. 2014 passe is applicable to MSETC jeet MADC Nagpur Ene Hon'ble MERC in futur (Case no. 331 of 2019)	Authorised Signato ed by Hon. MERC in C CL for FY 2014-15, as j ergy Pvt. Ltd.* re in respect of the fm) and adjustments, if a
Remark: 1) 2) 3) 4)	MADC (TSU) has bee No. 149 of 2014. This provisional bill i the Order dated 14 th . Bills towards Taxes/J The payment of the P The Final Bill shall be Petition to be filed by shall be settled betwo The TSU is requested	OK n using the Transmissi for Transmission Charg August 2014 passed by Duties, if any, shall be r rovisional Bill can be n e raised by AMNEPL u AMNEPL as per Order sen AMNEPL & the TSU to release the paymen	on System of AMNEPL as per ges is raised @Rs. 0.46/KWh / Hon'ble MERC in Case No 1 aised separately. nade through Cheque/DD in pon fixation of the Transmit rs of the Hon'ble MERC date l accordingly. t within 15 days of the date	er the order date , the rate which 23 of 2014. favour of "Abhij ssion Charge by d 31 st Dec 2020 of this provision	ed 18 th Nov. 2014 passe is applicable to MSETC jeet MADC Nagpur Ene Hon'ble MERC in futur (Case no. 331 of 2019) al bill.	Authorised Signate ed by Hon. MERC in C CL for FY 2014-15, as ergy Pvt. Ltd.* re in respect of the fr) and adjustments, if a

			(AMNEPL)			
			Provisional B	111		
						Date: 7 th Feb 2022 Ref No: 1178
Name (System Commu of the T Transm by the T Date of	f the Transmission User (TSU) nication Address SU ission System used SU start of use by the	 The Chief Engineer CE, Maharashtra An 1st Floor, MIHAN SE 220 KV Transmissik Dist, Nagpur & MIH 22^{sd} November 201 	- MADC port Development Compar Z, Khapri Railway, Nagpur- M System of AMNEPL consi AN SEZ and the associated t 4	iy Limited (MAD 441-108 sting of Switchys ransmission line	C), Central Facility Buil ards located at Khairi K between these two sw	ding, B-Wing, hurd itchyards
TSU	beriad	· Month of Issuers'	2022			
BUS - 1	enou	Reading (GWH)	BUS - 2	Reading (GWH)	Date of Reading & Time	Total Energy (KWH)
lnitial r Energy	ading of Meter at BUS-1	368.930924	Initial reading of Energy Meter at BUS-2	6.484218	01-01-2022 00:00 hrs	
Final reading of Energy Meter at BUS-1		373.761404	Final reading of Energy Meter at BUS-2	6.524854	31-01-2022 24:00 hrs	
Differen	ce (GWH)	4.830480	Difference (GWH)	0.040636		
Differen	ce (KWH)	4830480	Difference (KWH)	40636		4871116
Sr. No.	Period	Energy Transmitted during the Period (KWH)	Transmission Charge (Rs/Unit)	Total Transmission Charges for the Period (Rs)		or the Period
1	1 st Jan 2022 to 31 st Jan 2022	4871116	0.46		2240713.36	Inne
2 opposed	Total Amount (Rs) In words) : 22,40,713 : : Twenty-Two Lakh F	orty Thousand Seven Hundr	ed and Thirteen (Pr	only (NAG)	pur Energy Pvt. Lts
temark 1) 2)	MADC (TSU) has been No. 149 of 2014. This provisional bill fo	using the Transmissio r Transmission Charge	n System of AMNEPL as per s is raised @Rs. 0.46/KWh,	the order dated	18 th Nov. 2014 passed applicable to MSETCL I	by Hon. MERC in Ca or FY 2014-15, as p
3} 6]	the Order dated 14" A Bills towards Taxes/D The payment of the Pri The Pinal Bill shall be Petition to be filed by a shall be settled betwee	ugust 2014 passed by l uties, if any, shall be rai ovisional Bill can be ma raised by AMNEPL upo AMNEPL as per Orders in AMNEPL & the TSU a	ton ble MERC in Case No 12 sed separately. ide through Cheque/DD in fa in faction of the Transmiss of the Hon'ble MERC dated coordingly.	3 of 2014. wour of "Abhliee ion Charge by He 31 st Dec 2:020 (C	et MADC Nagpur Energy on ble MERC in future i ase no. 331 of 2019) an	r Pvt. Ltd." n respect of the fres d adjustments, if any

		Abhijeet	MADC Nagpur E (AMNEPL)	nergy Pv	t. Ltd.	
			Provisional Bi	11		
					D	ate: 3 rd Feb 2022 of No: 1176
iame System Commu of the T	of the Transmissio User (TSU) inication Address 'SU	n : The Chief Engineer : CE, Maharashtra Air 1 st Floor, MIHAN SE	- MADC 'port Development Company Z, Khapri Railway, Nagpur-4	v Limited (MAD) 411 108	2), Central Facility Build	ing, B-Wing,
ransn ly the ' late of	nission System use ISU start of use by the	d : 220 KV Transmissie Dist. Nagpur & MIH. : 22 nd November 201	on System of AMNEPL consist AN SEZ and the associated tr 4	iting of Switchya ausmission line	rds located at Khairi Kh between these two swi	urd chyards
filling	Period	: Month of Decembe	r 2021			
005 - 1		Reading (GWH)	BUS - 2	Reading (GWH)	Date of Reading & Time	Total Energy (KWH)
al norgy	eading of Moter at BUS-1	363.913158	Initial reading of Energy Meter at BUS-2	6.443951	01-12-2021 00:00 hrs	
final re Inergy	ading of Meter at BUS-1	368.930924	Final reading of Energy Meter at BUS-2	6.484218	31-12-2023 24:00 hrs	
lifferen	ice (GWH)	5.017766	Difference (GWH)	0.040267		
illionen	ice (KWHJ	5017766	Difference (KWH)	10267		5058033
Sr. No.	Period	Energy Transmitted during the Period (KWH)	Transmission Charge (Rs/Unit)	Total T	ransmission Charges I (Rs)	or the Period
13	1 ¹¹ Dec 2021 to 31 st Dec 2021	5058033	0.46		2326695.10	
e e	Total Amount (Rs In word nezgy fransm as vesifica irana ok -): 23,26,695 s: Twenty-Three Lakh hitted during with joint n Dohnwuld Orbonnovia	Twenty Six Thousand Six H 1st Die 21 to 2 Deter Reading	andred and Nine 31-57 Dec Q M i	ety Five Only	NAGPUR NAGPUR Pt pt spur Energy Pvt. Authorised Signa
emark						
1) 2)	MADC (TSU) has been No. 149 of 2014 This provisional bill f	n using the Transmission for Transmission Charg Autor (2014) around be	on System of AMNEPL as po- es in raised @Rs. 0.46/KWh. Handda MEPL in Case No.1.	r the arder date the rate which (23 of 2014	d 19" Nev: 2014 passed is applicable to MSETCI	for FY 2014-15, as
	the Order dated 14 Bills towards Taxes/I The payment of the P The Final Bill shall be	Duties, if any shall be re- rovisional Bill can be n- raised by AMNEPL of 2MNEPL as per Order	and separately, interthrough Cheque/DD in on facilities of the Transmis s of the Hou blo MERC dated	favour of "Abhij- sion Charge by 1 1-31° Dec 2020 (eet MADC Nagpur-Ener, Han ble MERC in future Case no. 331 of 2019) /	gy Pet Ltd." in respect of the f nd adjustments, if
3) 4)	Detroite for the strength of					
3) 4)	which the orthogonal between	en AMPEPL & the 750 to release the national	secondingly. within 15 days of the date of	al this provision.	at bill.	
3) 4) 5)	shall be reflered between (for 150 percentes ted	en AMPEPL à die 350 to rélease the payment	secondingly within 15 days of the data a	al this provision.	ai biti.	

I Abhijeet MADC Nagpur Energy Pvt. Ltd. (AMNEPL) **Provisional Bill** Date: 1st Dec 2021 Ref No: 1174 Name of the Transmission : The Chief Engineer - MADC System User (TSU) : CE, Maharashtra Airport Development Company Lamited (MADC), Central Facility Building, B-Wang, **Communication Address** of the TSU 1st Floor, MIHAN SEZ, Khapri Railway, Nagpur-441 108 Transmission System used : 220 KV Transmission System of AMNEPL consisting of Switchyards located at Khairi Khurd Dist. Nagpur & MIHAN SEZ and the associated transmission line between these two switchyards by the TSU Date of start of use by the 22nd November 2014 TSU **Billing** Period Month of November 2021 **Total Energy** Date of Reading Reading Reading BUS-1 BUS - 2 (KWH) (GWH) & Time (GWH) Initial reading of Energy Meter 01-11-2021 Initial reading of Energy 6.409423 358.882487 00:00 hrs Meter at BUS-2 at BUS-1 30-11-2021 Final reading of Energy Final reading of Energy 363.913158 6.443951 24:00 hrs Meter at BUS-2 Meter at BUS-1 Difference (GWH) 5.030671 Difference (GWH) 0.034528 5065199 Difference (KWH) 5030671 Difference (KWH) 34528 Energy Total Transmission Charges for the Period Transmitted **Transmission Charge** Sr. Period during the Period (Rs/Unit) (Rs) No. (ICWII) 1" Nov 2021 232999154 5065199 0.46 1 30th Nov 2021 Total Amount (Rs) : 23,29,992 In words : Twenty-Three Lakh Twenty-Nine Thousand Nine Hundred and Ninety Two Only For Abhijeet MADC Nagpur Energy Pvt. Ltd Authorized Signatory Remark : 1) MADC (TSU) has been using the Transmission System of AMNEPL as per the order dated 18th Nov. 2014 passed by Hon. MERC in Case No. 149 of 2014. 2) This provisional bill for Transmission Charges is raised @Rs. 0.46/KWh, the rate which is applicable to MSETCL for FY 2014-15, as per the Order dated 14th August 2014 passed by Hon'ble MERC in Case No 123 of 2014. Bills towards Taxes/Duties, if any, shall be raised separately. 3) The payment of the Provisional Bill can be made through Cheque/DU in favour of Abhijeet MADC Nagitar Energy PM Ltd. 4) The Final Bill shall be raised by AMNEPL upon fixation of the Transmission Charge by Hon'ble MERC in future in respect of the tresh Petition to be filed by AMNEPL as per Orders of the Hon'ble MERC dated 31" Dec 2020 (Case no. 331 of 2019) and adjustments, it any shall be settled between AMNEPI. & the TSII accordingly. 5) The TSU is requested to release the payment within 15 days of the date of this provisional bill Abhijeet Centre, Level 03, 79/4, Prashant Nagar, Ajni, Nagpur-440 015

Abhijeet MADC Nagpur Energy Pvt. Ltd. (AMNEPL) Provisional Bill Date: 1" Nov. 2021 Ref No: 1172 Name of the Transmission : The Chief Engineer - MADC System User (TSU) : CE, Maharashtra Airport Development Company Limited (MADC), Central Facility Building, B-Wing, **Communication Address** 1st Floor, MIHAN SEZ, Khapri Railway, Nagpur-441 108 of the TSU Transmission System used : 220 KV Transmission System of AMNEPL consisting of Switchyards located at Khairi Khurd Dist. Nagpur & MIHAN SEZ and the associated transmission line between these two switchyards by the TSU : 22nd November 2014 Date of start of use by the TSU : Month of October 2021 **Billing** Period **Total Energy** Date of Reading Reading Reading BUS-2 (KWH) & Time BUS-1 (GWH) (GWH) 01-10-2021 Initial reading of Energy itial reading of Energy Meter 1.999583 357.370503 00:00 hrs Meter at BUS-2 at BUS-1 31-10-2021 Final reading of Energy Final reading of Energy 6.409423 358.882487 24:00 hrs Meter at BUS-2 Meter at BUS-1 Difference (GWH) 4.409840 1.511984 Difference (GWII) 5921824 4409840 Difference (KWH) Difference (KWH) 1511984 Energy Total Transmission Charges for the Period **Transmission** Charge Transmitted Sr. (Rs) Period (Rs/Unit) during the Period No. (KWH) 1st Oct 2021 2724039.04 0.46 5921824 1 to 31ª Oct 2021 27,24,039 Total Amount (Rs) : In words : Twenty-Seven Lakh Twenty-Four Thousand and Thirty-Nine Only Dattpar ADDUAL GRO Energy Pvt. Ltd. Bleh Authorised Signatory 1) MADC (TSU) has been using the Transmission System of AMNEPL as per the order dated 18th Nov. 2014 passed by Hon. MERC in Case Remark : 2) This provisional bill for Transmission Charges is raised @Rs. 0.46/KWh, the rate which is applicable to MSETCL for FY 2014-15, as per the Order dated 14th August 2014 passed by Hon'ble MERC in Case No 123 of 2014. Bills towards Taxes/Duties, if any, shall be raised separately. 3) The payment of the Provisional Bill can be made through Cheque/DD in favour of "Abhijeet MADC Nagpur Energy Pvt. Ltd." 4) The Final Bill shall be raised by AMNEPL upon fixation of the Transmission Charge by Hnn'ble MERC in future in respect of the fresh Petition to be filed by AMNEPL as per Orders of the Hon'ble MERC dated 31" Dec 2020 (Case no. 331 of 2019) and adjustments, if any shall be settled between AMNEPL & the TSU accordingly. 5) The TSU is requested to release the payment within 15 days of the date of this provisional bill. Abhijeet Centre, Level 03, 79/4, Prashant Nagar, Ajni, Nagpur-440 015



		Abhijeet	MADC Nagpur Er (AMNEPL)	nergy Pvt	. Ltd.	
1015			Provisional Bill	1		
	-	A Designation of the			DR	ate: 12 th Aug, 2021 ef No: 1166
ame o ystem l	f the Transmission : Jser (TSU)	The Chief Engineer-	MADC			
ommur if the TS	ication Address	CE, Maharashtra Air 1" Ploor, MIHAN SE	port Development Company Z, Khapri Railway, Nagpur-4-	Limited (MADC), Central Facility Build	ing, s-wing,
ransmi by the T	ission System used : SU	220 KV Transmissio Dist. Nagpur & MIH.	in System of AMNEPL consist AN SEZ and the associated tra	ing of Switchya insmission line	between these two swi	tchyards
Date of : ISU	start of use by the	22 nd November 201	4			
BUS-1	eriod	Reading (GWH)	BUS-2	Reading (GWH)	Date of Reading & Time	Total Energy (KWH)
initial re	rading of Energy Meter	340.237837	Initial reading of Energy Meter at BUS-2	0.262793	01-07-2021 00:00 hrs	
Final res Meter a	ading of Energy t BUS-1	346.737270	Final reading of Energy Meter at BUS-2	0.262793	31-07-2021 24:00 hrs	
Differen	nce (GWH)	6.499433	Difference (GWH)	0.000000		
Differen	ice (KWH)	6499433	Difference (KWH)	0		6499433
Sr. No.	Period	Energy Transmitted during the Period (KWH)	Transmission Charge (Rs/Unit)	Total T	ransmission Charges (Rs)	for the Period
1	1" jul 2021 to 31" jul 2021	6499433	0.45		2989739.18	
Remark	Total Amount (Rs) In words	r 29,09,739 r Twenty-Nine Lakh	Eighty-Nine Thousand Seven	Hundred and T	hirty-Nine Only	Authorised Signa
1	MADC (TSU) has been No. 149 of 2014. This provisional hill for	using the Transmissi	on System of AMNEPL as per	the order date	d 18 th Nov. 2014 passe	d by Hon. MERC in (
3	the Order dated 14 th A Bills towards Taxes/D) The payment of the Pro	ugust 2014 passed by uties, if any, shall be r ovisional Bill can be n	Hon'ble MERC in Case No 12 aised separately. nade through Cheque/DD in 1	avour of "Abhij	eet MADC Nagpur Enc	ngy Pvt. Ltd."
4	The Final BIII shall be Petition to be filed by shall be settled between	raised by AMNEPL u AMNEPL as per Order in AMNEPL & the TSU	pon fixation of the Transmis is of the Hon'ble MERC dated accordingly.	sion Charge by 31 st Dec 2020	Hon'ble MERC in futur (Case no. 331 of 2019)	e in respect of the f and adjustments, if

Abhijeet MADC Nagpur Energy Pvt. Ltd. (AMNEPL) **Provisional Bill** Date: 02 Jul. 2021 **Ref No: 1164** Name of the Transmission : The Chief Engineer - MADC CE, Maharashtra Airport Development Company Limited (MADC), Central Facility Building, B-Wing, 14 **Communication Address** Floor, MIHAN SEZ, Khapri Railway, Nagpur-441 108 of the TSU Transmission System used : 220 KV Transmission System of AMNEPL consisting of Switchyards located at Khairi Khurd Dist. Nagpur & MIHAN SEZ and the associated transmission line between these two switchyards by the TSU 1 22nd November 2014 Date of start of use by the : Month of June 2021 **Billing Period Total Energy** Date of Reading Reading Reading (KWH) BUS-2 (GWH) & Time BUS-1 (GWH) 01-06-2021 Initial reading of Energy Initial reading of Energy Meter 0.262793 334.037194 00:00 hrs Meter at BUS-2 at BUS-1 30-06-2021 Final reading of Energy 0.262793 Final reading of Energy 340.237837 24:00 hrs Meter at BUS-2 Meter at BUS-1 0.000000 Difference (GWH) 6.200643 Difference (GWH) 6200643 0 Difference (KWH) 6200643 Difference (KWH) Energy Total Transmission Charges for the Period **Transmission Charge** Transmitted Sr. (Rs) Period (Rs/Unit) during the Period No (KWH) 1st June 2021 2852295.78 0.46 6200643 1 to 30th June 2021 28,52,296 Total Amount (Rs) : In words : Twenty Eight Lakh Fifty Two Thousand Two Hundred and Ninety Six Only aspu, Energy Pvt. Ltd. MADC N For Abl NAGPUR Authorised Signatory Remark : 1) MADC (TSU) has been using the Transmission System of AMNEPL as per the order dated 18th Nov. 2014 passed by Hon. MERC in Case No. 149 of 2014. This provisional bill for Transmission Charges is raised @Rs. 0.46/KWh, the rate which is applicable to MSETCL for FY 2014-15. as per the Order dated 14th August 2014 passed by Hon'ble MERC in Case No 123 of 2014. Bills towards Taxes/Duties, if any, shall be raised separately. 3) The payment of the Provisional Bill can be made through Cheque/DD in favour of "Abhijeet MADC Nagpur Energy Pvt. Ltd," 4) The Final Bill shall be raised by AMNEPL upon fixation of the Transmission Charge by Hon'ble MERC in future in respect of the fresh Petition to be filed by AMNEPL as per orders of the Hon'ble MERC dated 31 Dec 2020 (Case no. 331 of 2019) and adjustments, if any, shall be settled between AMNEPL & the TSU accordingly. The TSU is requested to release the payment within 15 days of the date of this provisional bill. Abhijeet Centre, Level 03, 79/4, Prashant Nagar, Ajni, Nagpur-440 012

Abhijeet MADC Nagpur Energy Pvt. Ltd. (AMNEPL) **Provisional Bill** Date: 02 Jun. 2021 Ref No: 1162 Name of the Transmission : The Chief Engineer - MADC System User (TSU) : CE, Maharashtra Airport Development Company Limited (MADC), Central Facility Building, B-Wing, **Communication Address** of the TSU 1st Floor, MIHAN SEZ, Khapri Railway, Nagpur-441 108 . Transmission System used : 220 KV Transmission System of AMNEPL consisting of Switchyards located at Khairi Khurd Dist. Nagpur & MIHAN SEZ and the associated transmission line between these two switchyards by the TSU Date of start of use by the : 22nd November 2014 TSU **Billing Period** : Month of May 2021 Reading Date of Reading **Total Energy** Reading BUS-1 BUS-2 (KWH) & Time (GWH) (GWH) tial reading of Energy Meter It BUS-1 01-05-2021 Initial reading of Energy 328.070789 0.262793 Meter at BUS-2 00:00 hrs 31-05-2021 Final reading of Energy Final reading of Energy 0.262793 334.037194 Meter at BUS-1 Meter at BUS-2 24:00 hrs Difference (GWH) 5.966405 Difference (GWH) 0.000000 5966405 Difference (KWH) Difference (KWH) 0 5966405 Energy Transmission Charge Total Transmission Charges for the Period Sr. Transmitted Period No. during the Period (Rs/Unit) (Rs) (KWH) 1" May 2021 2744546.30 1 5966405 0.46 31st May 2021 Total Amount (Rs) : 27,44,546 In words : Twenty-Seven Lakh Forty-Four Thousand Five Hundred and Forty-Six Only affin For Abl rgy Pvt. Ltd Bes **Authorised Signatory** Remark: 1) MADC (TSU) has been using the Transmission System of AMNEPL as per the order dated 18th Nov. 2014 passed by Hon. MERC in Case No. 149 of 2014. This provisional bill for Transmission Charges is raised @Rs. 0.46/KWh, the rate which is applicable to MSETCL for FY 2014-15, as per the Order dated 14" August 2014 passed by Hon'ble MERC in Case No 123 of 2014. Bills towards Taxes/Duties, if any, shall be raised separately. 3) The payment of the Provisional Bill can be made through Cheque/DD in favour of "Abhijeet MADC Nagpur Energy Pvt. Ltd," or through RTGS in the account having the following details: Bank:- INDUSIND Bank, Current A/c No:- 200999819427, IFSC Code: INDB0000025. 4) The Final Bill shall be raised by AMNEPL upon fixation of the Transmission Charge by Hon'ble MERC in future in respect of Petition no. 331 of 2019 and adjustments, if any, shall be settled between AMNEPL & the TSU accordingly. 5) The TSU is requested to release the payment within 15 days of the date of this provisional bill. Abhijeet Centre, Level 03, 79/4, Prashant Nagar, Ajni, Nagpur-440 012

Abhijeet MADC Nagpur Energy Pvt. Ltd. (AMNEPL) **Provisional Bill** Date: 03 May. 2021 Ref No: 1160 Name of the Transmission : The Chief Engineer - MADC System User (T3U) **Communication Address** : CE, Maharashtra Airport Development Company Limited (MADC), Central Facility Building, B-Wing, of the TSU 1st Floor, MIHAN SEZ, Khapri Railway, Nagpur-441 108 Transmission System used : 220 KV Transmission System of AMNEPL consisting of Switchyards located at Khairi Khurd Dist. Nagpur & MIHAN SEZ and the associated transmission line between these two switchyards Date of start of use by the 22nd November 2014 TSU **Billing** Period : Month of April 2021 BUS-1 Reading Reading Date of Reading **Total Energy** BUS-Z (GWH) (GWH) & Time (KWH) pitial reading of Energy Meter Initial reading of Energy 322.570888 BUS-1 01-04-2021 0.262793 Meter at BUS-2 Final reading of Energy 00:00 hrs Final reading of Energy Meter at BUS-1 328.070789 30-04-2021 0.262793 Meter at BUS-2 24:00 hrs Difference (GWH) 5.499901 Difference (GWH) 0.000000 Difference (KWH) 5499901 Difference (KWH) 0 5499901 Energy Sr. Transmitted Period Transmission Charge Total Transmission Charges for the Period No. during the Period (Rs/Unit) (Rs) (KWH) 1st April 2021 1 to 54499031 0.46 30th April 2021 2529954.46 Total Amount (Rs) : 25.29.954 In words : Twenty-Five Lakh Twenty-Nine Thousand Nine Hundred and Fifty-Pour Only Abhijeet Nagpur Energy Pvt. Ltd. NAG (F2 Remark . 12 Authorised Signatory 1) MADC (TSU) has been using the Transmission System of AMNEPL as per the order dated 18th Nov. 2014 passed by Hon. MERC in Case 2) This provisional bill for Transmission Charges is raised @Rs. 0.46/KWh, the rate which is applicable to MSETCL for FY 2014-15, as per the Order dated 14th August 2014 passed by Hon'ble MERC in Case No 123 of 2014. Bills towards Taxes/Duties, if any, shall be raised separately. The payment of the Provisional Bill CBB be made through Cheque/DD in favour of "Abhijeet MADC Nagpur Energy Pvt. Ltd," or through Bank:- INDUSIND Bank, Current A/c No:- 200999819427, IFSC Code: INDB0000025. 4) The Final Bill shall be raised by AMNEPL upon fixation of the Transmission Charge by Hon'ble MERC in future in respect of Petition no. 331 of 2019 and adjustments, if any, shall be settled between AMNEPL & the TSU accordingly. 5) The TSU is requested to release the payment within 15 days of the date of this provisional bill. Abhijeet Centre, Lovel 03, 79/4, Prashant Nagar, Ajni, Nagpur-440 012

7.8 Single Line Diagram (SLD)



Savecal Energy Solutions LLP

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7.9 Category of service details (With Consumer and voltage-wise)

S.No.	Consumer No.	Consumer Details	Connected Load kW	Consumer Category
		HT Consumer 33 KV		
1	3	M/S AI Engineering Services Ltd.	7485	HT Commercial
2	11	M/S Tata Consultancy Services	3500	HT Commercial
3	19	M/S Lupin Ltd.	7372	HT Commercial
		HT Consumer 11 KV		
1	1	M/S Chief Engineer MADC	2000	Government offices and department
2	2	M/S Chief Engineer MADC Ltd. WTP	250	HT Water Supply
3	4	M/S Tata Advanced Systens Limited	4500	HT Commercial
4	7	M/S KOLLAND Developers Ltd.	500	HT Commercial
5	8	HexawraeTechnoloies Ltd. (Caliber Point Business Solution Ltd.)	600	HT Commercial
6	9	M/S KANAV Agronomy	298	HT Commercial
7	10	M/S Diet Food International	422	HT Commercial
8	12	M/S Smart Data Enterprises	430	HT Commercial
9	13	M/S Tech Mahindra Limited	650	HT Commercial
10	14	M/S Infosys Limited	300	HT Commercial
11	17	M/S AAR INDAMER Technics Pvt. Ltd.	600	HT Commercial
12	18	M/S Infocept Tech. Pct. Ltd. (unit III)	300	HT Commercial
13	20	M/S HCL Tech. Limited	3000	HT Commercial
14	21	M/S Dassault Reliance aerospace limited	2420	HT Commercial
15	22	M/S Thales Reliance Defence System Ltd.	800	HT Commercial
16	23	M/S Tata Consultancy Services	500	HT Commercial
17	24	M/S AAR INDAMER Technics Pvt. Ltd.	1400	HT Commercial
18	25	M/S Infosys Limited	192	HT Commercial
	1	LT Consumer	1	
1	3	M/S Cenosphere India Pvt Ltd	80	Commercial
2	4	M/S Meta Tech Air Systems Pvt. Ltd	85	Commercial
3	5	M/S Sub Divisional Engineer BSNL	13	Commercial
4	6	M/S Chief Engineer MADC Nagpur	86	Public Lighting
5	7	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department
6	8	M/S Chief Engineer MADC Nagpur	80	Public Lighting
7	9	M/S Chief Engineer MADC Nagpur	80	Public Lighting
8	10	M/S Chief Engineer MADC Nagpur	40	Public Lighting
9	11	M/S Abhijeet MADC Nagpur energy pvt. Ltd		Government offices and department
10	15	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department
11	16	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department

12	17	M/S Chief Engineer MADC Nagpur	11.75	Government offices and department
13	18	M/S Chief Engineer MADC Nagpur	14.74	Government offices and department
14	19	M/S Hass Corporation Pvt Ltd.	15	Commercial
15	20	M/S Devesh Pramod Khandelwal	78	Commercial
16	22	M/S Globallogic India Ltd	94	Commercial
17	23	M/S Veolia India Pvt. Limited	5.59	Commercial
18	26	M/S Chief Engineer MADC Nagpur	60	Public Lighting
19	28	M/S Chief Engineer MADC Nagpur	45	Water Supply
20	29	M/S Ebix Software India Oct. Ltd	60	Commercial
21	31	M/S Indus Towers Itd.	15	Commercial
22	32	M/S Infocept Technologies Unit 3	80	Commercial
23	33	M/S Indus Towers Ltd	15	Commercial
24	34	M/S State Bank of India	12	Commercial
25	35	M/S Hazel Mercantile Limited	6.5	Commercial
26	37	M/S Lupin Ltd.	1	Commercial
27	39	M/S Reliance JioInficomm Ltd.	5	Commercial
28	40	M/S Reliance JioInfocomm Ltd.	5	Commercial
29	42	M/S Reliance JioInfocomm Ltd.	1	Commercial
30	43	M/S Railtel Corporation of India Ltd.	10	Commercial
31	46	M/S GIF Technologies pvt. Ltd	60	Commercial
32	47	M/S Techture Structure Pvt. Ltd.	9	Commercial
33	48	M/S Altius Customer Services Pvt. Ltd.	70	Commercial
34	49	M/S Haldiram Foods InternationsIPvt. Ltd.	1.5	Commercial
35	50	M/S PatanjaliAyurved Limited	16	Commercial
36	51	M/S Turgis& Gaillard India Pvt Ltd	1	Commercial
37	52	M/S Lighthouse infosystemPvt. Ltd.	150	Commercial
38	53	M/S Citius BPO(India) Pvt. Ltd.	20	Commercial
39	55	M/S Globallogic India Ltd.	70	Commercial
40	56	M/S Globallogic India Ltd.	100	Commercial
41	57	M/S Breads N Beyond	15	Commercial
42	58	M/S ESSEM Compliance Solutions Pvt Ltd.	10	Commercial
43	59	M/S Ascent Business Solution	20	Commercial
44	61	M/S HCL Technologies Ltd.	100	Commercial
45	63	M/S TRT Technologies	120	Commercial
46	64	M/S Infosys Ltd.	135	Commercial
47	65	M/S Chief Engineer MADC Nagpur	1	Public Lighting
48	66	M/S Sagacious IP Pvt. Ltd.	40	Commercial
49	67	M/S DNJ Creation LLP (unit 3)	50	Commercial
50	69	M/S Indo Healthcare Pvt. Ltd.	7.5	Commercial
51	70	M/S Maximist for Education & Software Pvt. Ltd.	30	Commercial
52	71	M/S Arfamo Perfumes Pvt. Ltd.	16.5	Commercial
53	72	M/S Canera Bank	5	Commercial
54	73	M/S Sanman Trade Impex Ltd.	8	Commercial
55	74	M/S Escion Research Labs Pvt Ltd.	10	Commercial
56	75	M/S Persistent Systems Ltd.	40	Commercial

57	76	M/S Chief Engineer MADC Nagpur	30	Public Lighting
58	77	M/S Infocept Tech. Pvt. Ltd. (Unit 4)	40	Commercial
59	78	M/S Neeyamo Enterprise Solutions Pvt Ltd	10	Commercial
60	79	M/S Reliance JIO Infocom Ltd	8	Commercial
61	80	M/S Reliance JIO Infocom Ltd	8	Commercial
62	81	M/S Reliance Jio Infocom Ltd	8	Commercial
63	82	M/S RelinaceJioInfocom Itd	8	Commercial

7.10 Detailed Formats to be annexed

	Gel	ieral information					
1	Name of the DISCOM	Maharshtra Airport Develops	ment Company Limited	I (SEZ MIHAN)			
2	i) Year of Establishment		2013				
	ii) Government/Public/Private	G	overnment				
3	DISCOM's Contact details & Address						
i.	City/Town/Village		Khapri				
ii.	District		Nagpui				
iii	State	Maharshtra	Pin	441108			
iv	Telephone	07104-281612	Fax				
4	Registered Office		and the second se				
i	Company's Chief Executive Name	Mr. Sa	nresh Chatterjee				
ii .	Designation	Chief Engineer					
iii	Address	W Building, 1st Floor					
iv	City/Town/Village	Khapet	F.O.	Khapri			
v	District						
vi	State	Maharshtra	Pin	441108			
stii	Telephone	022-66151300	Fax	022-22163814			
5	Nodal Officer Details*						
i.	Nodal Officer Name (Designated at DISCOM's)	Mr. D	R . Deshmukh				
ii	Designation	Exec	utive Engineer				
iii	Address	W Bu	ilding, 1st Floor				
iv	City/Town/Village	Khapri	P.O.	Khapri			
44	District						
vi	State	Maharshtra	Pin	441108			
vii	Telephone	07104-665665	Fax	07104-665600			
б	Energy Manager Details*		10	2			
i	Name	Mr. D	R. Deshmukh				
ii	Designation	Executive Engineer Electrical	Whether EA or EM	EM			
iii	EA/EM Registration No.		EA 9885				
iv	Telephone	07104-281612	Fax				
v	Mobile	9370472612 E-mail ID	deshmukh dr@m	iadcindia.coj			
7	Period of Information						
	Year of (FY) information including Date and Month (Start & End)	1st Apr. 20	21 - 31th March, 2022				

Certified Energy Manage Reg. No. EA-9885 Dr. Sanjay Annaso Khot BEE Accredited Energy Auditor (AEA-0312)

	Performance Summary of Electricity Distri	bution Companies	
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st April 202	1 - 31st March 2022
2	Technical Details	1	
(a)	Energy Input Details	1	
(i)	Input Energy Purchase (From Generation Source)	Million kwh	68.00
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	68.00
(10)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	66.27
(5)	Transmission and Distribution (TRD) loss Dataila	Million kwh	1.73
	(100) IDS Details	%	2,54%
	Collection Efficiency	%	100,29%
(c)	Aggregate Technical & Commercial Loss	%	2.26%

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

Authorised Signatory and Seal

Name of Author hed Signatory 1. S.K. Chatteyee Name of the DISCOM: MADE



Signature:-Name of AEA*: Registration Number:

Dr. Sanjay Annaso Khot BEE Accredited Energy Auditor (AEA-0312)

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D R. DESHMUKH Certified Energy Manager Reg. No. EA-9885

0 Dr. Sanjay Annaso Khot BEE Accredited Energy Auditor (AEA-0312)

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		(Details of Consumers)			_	
		Summary of Energy				
_	Period Fr	rom 1st April 2021 - 33st March 2	822		-	
5.760	Type of Consumers	Category of Consumers (EHT/HT/LT/Cabars)	Voltage Level (in Voltage)	No of Consume rs	Total Consump tion (in MU)	Remarks (Source of data)
1	Domestic					
2	Commercial	LT	415	49	1.38	Consumer Bills
3	IP Sets		-			
4	Hor & Nur & Coffee/Tea & Bubber (Metered)					
	Hor & Nev & Coffee/Tea & Bubber (Flat)		-			
10	Heating and Motive Preser				10	
1.10	Utatas Conthe	(T	415	1	0.04	Consumer Bills
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10	Pri industrial					
11	Industrial (Small)			-		
1.1	Inclustrial (Medium)					
13	HT Commercial	HT	11	19	01.84	consumer ains
14	Applicable to Government Hospitals & Hospitals					
15	Lift Irrigation Schemes/Lift Irrigation Societies					
1.6	HT Res. Apartments Applicable to all areas			1		
-17	Mixed Load					
18	Government offices and department	HTAT	11/415	7	1.15	Consumer Itilis
1.9	Others-1 (if any, specify in remarks)					
20	Others-2 (if any, specify in remarks)				-	
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			Total	84	66.27	1

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7.11 List of documents verified with each parameter

S.No.	Data	Unit	Sources of data
1	Input Energy Purchased	MUs	MSEDCL Bills
2	Transmission Loss	%	
3	Energy sold outside the periphery	MUs	
4	Open access sale	MUs	
5	EHT sale	MUs	
6	% of metering available at DT	%	Infrastructure Details
7	% of metering available at consumer end	%	Infrastructure Details
8	No of feeders at 66kV voltage level	Nos.	Infrastructure Details
9	No of feeders at 33kV voltage level	Nos.	Infrastructure Details
10	No of feeders at 11kV voltage level	Nos.	Infrastructure Details
11	No of LT feeders level	Nos.	Infrastructure Details
12	Line length (ckt. km) at 66kV voltage level	Km	Infrastructure Details
13	Line length (ckt. km) at 33kV voltage level	Km	Infrastructure Details
14	Line length (ckt. km) at 11kV voltage level	Km	Infrastructure Details
15	Line length (km) at LT level	Km	Infrastructure Details
16	HT/LT ratio	Unit Less	Infrastructure Details
17	Feeder wise Import & Export Energy	MUs	Infrastructure Details
18	Nos. of Consumers	Nos.	Infrastructure Details
19	Connected Load of Consumers	MW	Infrastructure Details
20	Input Energy	MUs	Infrastructure Details
21	Consumer wise Billed Energy		Infrastructure Details
22	T&D Loss	MUs	Infrastructure Details
23	T&D Loss	%	Infrastructure Details

7.12 Brief Description of Unit

Maharashtra Airport Development Company Limited (MADC) has been appointed by the Government of Maharashtra as the Nodal Agency and also Special Planning Authority for the planning and development of Multi-modal International Hub Airport at Nagpur (MIHAN) notified area to leverage on Nagpur's unique locational advantage.

The Government of India has already accorded approval and notified MIHAN-SEZ as a multiproduct SEZ. MADC has already leased out about 600 ha. land in MIHAN-SEZ to majors IT companies like Infosys, TCS, Tech-Mahindra and other blue chip companies like Tata Aeronautics Limited, Kolland, Hexaware BPS (Caliberpoint), Lupin Pharma., Air India Boeing Inc., Reliance Aero Infrastructure etc. for setting up of IT parks, manufacturing units and MRO facilities etc. AIIMS, IIM and Govt. Engineering Colleges is also establishing their campus in the MIHAN area. Considering the overall development of MIHAN and its surrounding there could be demand of commercial and residential facility. The development of all support infrastructures, which MADC has committed to provide, is almost completed.

In order to provide electricity to the consumers, MADC constructed the electrical distribution network including 5 Power Sub-Station (4 in SEZ & 1 in NON SEZ) along with 4 DTH (2 in SEZ & 2 in NON SEZ). Earlier, the electrical distribution network including 33/11KV sub stations was under M/s. AMNEPL for operation and maintenance, but AMNEPL stopped power supply to MIHAN area in April – 2014 and handed over the network to MADC in same month. Since then, MADC was carrying out the operation and maintenance of infrastructure network and started purchasing and distribution of power.

7.13 List of Parameters arrived through calculation or formulae with list of documents as source ofdata

	Data	Unit	Sources of data
S.No.			
1	T&D Loss	MUs	MSEDCL & Consumer Bills
2	T&D Loss	%	MSEDCL & Consumer Bills
3	Transmission Loss	MUs	MSEDCL & Consumer Bills
4	Net input energy (received at DISCOM periphery or at distribution point, after adjustment)	MUs	MSEDCL & Consumer Bills

Computation of Input Energy

MADC is measuring input Energy by ring fencing of network through installation of import/export Energy meters at project area boundaries.

Computation of Billed Energy

From total input Energy some is lost in the form of technical losses as heat dissipation which is termedasl2Rlosses.Someenergyalsoisleftunaccountedduetodiscrepanciesinmeterreading, non-metering and theft which is termed as commerciallosses.

MADC is computing Billed Energy by adding the total energy consumed during the defined period by all consumers indicated in their meters (Meter-Sales as Billed).

Computation of Un metered Energy

During analysis of last four years' data, we have observed that MADC Discom has 100 % metered connections.

Computation of T&D Loss

Energy losses occur in the process of supplying electricity to consumers due to technical and commercial reasons. The technical losses are due to energy dissipated in the conductors, transformers and other equipment's used for transmission, transformation, sub-transmission and distribution of power.

Methodology

Net Input Energy at Discom Periphery = Feeder wise input energy at 66 KV, 33 KV and 11 KV Voltage level including Solar Energy

Transmission Loss in Mus = % Transmission Loss * Input Energy Purchased

Input Energy inside Discom Periphery for T&D Loss Calculation inside the Periphery =

Input Energy Purchased – (Transmission loss+ EHT Sale+ Energy Outside the Periphery)

Transmission & Distribution losses (T&D losses) = {1- (Total energy Billed/ Total energy Input inDiscom Periphery)} x 100

