GOVERNMENT OF MIZORAM
OFFICE OF THE ENGINEER-IN-CHIEF :POWER & ELECTRICITY DEPARTMENT
MIZORAM : AIZAWL

No.T.24015/01/22-EC(P)/Com/Pt/13 : Dated Aizawl, the 24th August, 2023

To,

The Director,
Bureau of Energy Efficiency
Government of India, Ministry of Power
4th Floor, Sewa Bhawan, R.K.Puram
New Delhi - 110066
Email : suryay@beeindia.gov.in

Subject : Energy Accounting Report of Distribution Utility under Power & Electricity Department, Mizoram.

Sir,

With reference to the Subject cited above, I have the honour to furnish herewith the Energy Accounting report of Distribution Utility for 1st Quarter of FY 2023-24 in respect of Power & Electricity Department, Government of Mizoram.

It is pertinent to mention that there is no Accredited Energy Auditor in Mizoram. Even the electrical systems are not up to the level for furnishing complete sought information, so only available data are submitted as per our understanding of the prescribed format.

Enclo: As stated

Yours faithfully,

(LALHMINGLIANI HMAR)
Engineer-in-Chief, P&ED

Memo.No. T.24015/01/22-EC(P)/Com/Pt/13 : Dated Aizawl, the 24th August, 2023

Copy to:

The State Designated Agency (Chief Electrical Inspector) Power & Electricity Department, Zuangtui (Below 132kV S/S) for favour of an information and further necessary action.

Engineer-in-Chief, P&ED

General Information					
1	**Name of the DISCOM**	Power & Electricity Department, Mizoram			
2	**i) Year of Establishment**	1975			
	ii) Government/Public/Private	Government			
3	**DISCOM's Contact details & Address**				
i	City/Town/Village	Aizawl			
ii	District	Aizawl			
iii	State	Mizoram	Pin	796001	
iv	Telephone	0389 - 2336848	Fax		
4	**Registered Office**				
i	Company's Chief Executive Name	Lalhmingliani Hmar			
ii	Designation	Engineer-in-Chief, Power & Electricity Department			
iii	Address	Kawlphetha Building, MINECO, Khatla			
iv	City/Town/Village	Aizawl	P.O.		
v	District	Aizawl			
vi	State	Mizoram	Pin	796001	
vii	Telephone	0389 - 2336848	Fax		
5	**Nodal Officer Details***				
i	Nodal Officer Name (Designated at DISCOM's)	Benjamin L. Tlumtea			
ii	Designation	Superintending Engineer, Commercial			
iii	Address	Kawlphetha Building, MINECO, Khatla			
iv	City/Town/Village	Aizawl	P.O.		
v	District	Aizawl			
vi	State	Mizoram	Pin	796001	
vii	Telephone	0389 - 2334620	Fax		
6	**Energy Manager Details***				
i	Name	Lalramnghaka			
ii	Designation	Executive Engineer, Commercial	Whether EA or EM		
iii	EA/EM Registration No.				
iv	Telephone	0389 - 2336829	Fax		
v	Mobile		E-mail ID		
7	**Period of Information**				
	Year of (FY) information including Date and Month (Start & End)	1st Apr, 2023 - 30th June, 2023			

Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st Apr, 2023 - 30th June, 2023	
2	**Technical Details**		
(a)	**Energy Input Details**		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	194.63
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	153.61
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	126.06
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	27.55
		%	17.93%
	Collection Efficiency	%	61.14%
(c)	Aggregate Technical & Commercial Loss	%	49.82%

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

Authorised Signatory and Seal

Signature:-

Name of AEA*:

Registration Number:

Name of Authorised Signatory

Name of the DISCOM:

Full Address:-

Engineer-in-Chief
Power & Electricity Department
Government of Mizoram, Aizawl

Seal

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	6			
ii	Number of divisions	13			
iii	Number of sub-divisions	35			
iv	Number of feeders	324			
v	Number of DTs	2385			
vi	Number of consumers	2,86,896			
2	**Parameters**	**66kV and above**	**33kV**	**11/22kV**	**LT**
a. i.	Number of conventional metered consumers	1	10	629	2,84,424
ii	Number of consumers with 'smart' meters				NIL
iii	Number of consumers with 'smart prepaid' meters				NIL
iv	Number of consumers with 'AMR' meters				NIL
v	Number of consumers with 'non-smart prepaid' meters				NIL
vi	Number of unmetered consumers				2,472
vii	**Number of total consumers**				2,86,896
b.i.	Number of conventionally metered Distribution Transformers				NIL
ii	Number of DTs with communicable meters				560
iii	Number of unmetered DTs				1,825
iv	**Number of total Transformers**				2,385
c.i.	Number of metered feeders	0	0	324	0
ii	Number of feeders with communicable meters	0	0	324	0
iii	Number of unmetered feeders	0			
iv	**Number of total feeders**	0	0	0	0
d.	Line length (ct km)		0	0	0
e.	Length of Aerial Bunched Cables	11,469.10			
f.	Length of Underground Cables	244.80			
3	**Voltage level**	0.00			

		Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	173	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		
		Captive, open access input	0	Includes power from bilateral/ PX/ DEEP	
		Sale of surplus power	22	Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.	
		Quantum of inter-state transmission loss	16		
		Power procured from inter-state sources	195	As confirmed by SLDC, RLDC etc	
		Power at state transmission boundary	179	Based on data from Form 5	

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		
		Quantum of intra-state transmission loss	0		
		Power procured from intra-state sources	0		
iii		**Input in DISCOM wires network**	179		
iv	33 kV	Renewable Energy Procurement	8.97		
		Small capacity conventional/ biomass/ hydro plants Procurement	9.03		
		Captive, open access input	0.00		
v	11 kV	Renewable Energy Procurement	0.00		
		Small capacity conventional/ biomass/ hydro plants Procurement	0.08		
		Sales Migration Input	0.00		
vi	LT	Renewable Energy Procurement	0.43		
		Sales Migration Input	0.00		
vii		**Energy Embedded within DISCOM wires network**	18.5119977		
viii		**Total Energy Available/ Input**	197		
4	**Voltage level**	**Energy Sales Particulars**	**MU**	**Reference**	
i	LT Level	DISCOM' consumers	101	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
		Embedded generation used at LT level	0	Demand from embedded generation at LT level	
		Sale at LT level	101		
		Quantum of LT level losses	24		
		Energy Input at LT level	125		
ii	11 kV Level	DISCOM' consumers	22	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	0.08	Demand from embedded generation at 11kV level	
		Sales at 11 kV level	22		
		Quantum of Losses at 11 kV	3		
		Energy input at 11 kV level	25		
iii	33 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 33 kV or below level	18.00	This is DISCOM and OA demand met via energy generated at same voltage level	
		Sales at 33 kV level	3		
		Quantum of Losses at 33 kV	0		
		Energy input at 33kV Level	3		
iv	> 33 kV	DISCOM' consumers	0.40	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
		Cross border sale of energy	0		
		Sale to other DISCOMs	0		
		Banking	0		
		Energy input at > 33kV Level	0		
		Sales at 66kV and above (EHV)	0		
		Total Energy Requirement	**154**		
		Total Energy Sales	**126**		

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	125.23	101.03	24.20	19.322936
ii	11 Kv	24.89	21.74	3.14	12.63809524
iii	33 kv	3.08	2.89	0.19	6.199935086
iv	> 33 kv	0.41	0.40	0.01	3.170731707

6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	
i	LT				
ii	11 Kv				
iii	33 kv				
iv	> 33 kv				

Loss Estimation for DISCOM	
T&D loss	28
D loss	12
T&D loss (%)	0.139732283
D loss (%)	0.075138698