

General Information

1	Name of the DISCOM	TECHNOPARK (Electronics Technology Parks – Kerala)		
2	i) Year of Establishment	1995		
	ii) Government/Public/Private	PSU		
3	DISCOM's Contact details & Address			
i	City/Town/Village	Thiruvananthapuram		
ii	District	Thiruvananthapuram		
iii	State	Kerala	Pin	695581
iv	Telephone	0471-2700222	Fax	0471-2700171
4	Registered Office			
i	Company's Chief Executive Name	Sanjeev Nair		
ii	Designation	Chief Executive Officer		
iii	Address	Park Centre, Technopark Campus, Thiruvananthapuram		
iv	City/Town/Village	Thiruvananthapuram	P.O.	
v	District	Thiruvananthapuram		
vi	State	Kerala	Pin	695581
vii	Telephone	0471-2700222	Fax	0471-2700171
5	Nodal Officer Details*			
i	Nodal Officer Name (Designated at DISCOM's)	Anfal A		
ii	Designation	Manager (Electrical)		
iii	Address	Park Centre, Technopark Campus, Thiruvananthapuram		
iv	City/Town/Village	Thiruvananthapuram	P.O.	
v	District	Thiruvananthapuram		
vi	State	Kerala	Pin	695581
vii	Telephone	0471-2700222,extn-176.	Fax	0471-2700171
6	Energy Manager Details*			
i	Name	Sriram A		
ii	Designation	Certified Energy Auditor	Whether EA or EM	EA
iii	EA/EM Registration No.	EA-20758		
iv	Telephone	Fax		
v	Mobile	E-mail ID	sreeram113@gmail.com	
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	July 2023 to September 2023		

Performance Summary of Electricity Distribution Companies


1	Period of Information Year of (FY) information including Date and Month (Start & End)	July 2023 to September 2023	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	18.72
(ii)	Net Input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	18.72
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded)	Million kwh	18.02
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.70
	Collection Efficiency	%	3.76%
	Aggregate Technical & Commercial Loss	%	100%
(c)		%	4%

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.

Authorized Signatory and Seal



Signature:-
Name of Energy Manager
Registration Number:


Sriram A
EA-20758

Name of M Madhavan Praveen, GM (Projects)
Name of the TECHNOPARK (Electronics Technology Park) (Kerala)
TECHNOPARK (Electronics Technology Park) (Kerala)
Full Address Park Centre, Technopark Campus
Thiruvandrum 695581.

MADHAVAN PRAVEEN
GENERAL MANAGER (PROJECTS)
TECHNOPARK

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	1	1	1	1
ii	Number of divisions	4	4	4	4
iii	Number of sub-divisions	0	0	0	0
iv	Number of feeders	38	38	38	
v	Number of DTs	29	29	29	
vi	Number of consumers	913	913	913	
2	Parameters	66kV and above	33kV	11/22kV	LT
a. i.	Number of conventional metered consumers	0	0	24	889
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	0	24	889
b. i.	Number of conventionally metered Distribution Transformers	0	0	0	29
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	0	0	29
c. i.	Number of metered feeders	0	0	38	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	0	38	0
d	Line length (ct km)		41.5		
e.	Length of Aerial Bunched Cables		0		
f.	Length of Underground Cables		41.5		
3	Voltage level				
		Particulars	MU	Reference	Remarks (Source of data)
		Long-Term Conventional	19	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	
i	66kV and above	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		
		Quantum of inter-state transmission loss	0		As confirmed by SLDC, RLDC etc
		Power procured from inter-state sources	19		Based on data from Form 5
		Power at state transmission boundary	19		
		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		
		Input in DISCOM wires network	19		
iii		Renewable Energy Procurement	0		
iv	33 KV	Small capacity conventional/ biomass/ hydro plants Procurement	0		
		Captive, open access input	0		
		Renewable Energy Procurement	0		
v	11 KV	Small capacity conventional/ biomass/ hydro plants Procurement	0		
		Sales Migration Input	0		
vi	LT	Renewable Energy Procurement	0.07980571		
		Sales Migration Input	0		
vii		Energy Embedded within DISCOM wires network	0.07980571		
viii		Total Energy Available/ Input	19		
4	Voltage level	Energy Sales Particulars	MU	Reference	
		DISCOM' consumers	8.29345299		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
i	LT Level	Sale at LT level	8		
		Quantum of LT level losses	0		
		Energy Input at LT level	8.635858556		
		DISCOM' consumers	9.72374504		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
ii	11 KV Level	Sales at 11 KV level	10		
		Quantum of Losses at 11 KV	0		
		Energy input at 11 KV level	10.08448215		
		DISCOM' consumers	0		Include sales to consumers in franchisee areas, unmetered consumers

iii	33 kV Level	Demand from open access, captive	0	Non DISCOM's sales	
		Embedded generation at 33 kV or below level	0	This is DISCOM and OA demand met via energy generated at same voltage level	
		Sales at 33 kV level	0		
		Quantum of losses at 33 kV	0		
		Energy input at 33kV Level	0		
		DISCOM' consumers	0	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	19		
		Total Energy Sales	18		

Energy Accounting Summary

DISCOM		Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
5	i	0.07980571	8.29345299		
	ii		9.7374504		
	iii				
	iv	19		1	0.037560357
6	Open Access, Captive				
	i	LT	0	0	0
	ii	11 kV	0	0	0
	iii	33 kV	0	0	0
iv	> 33 kV	0	0	0	0

Loss Estimation for DISCOM

T&D loss	1
D loss	1
T&D loss (%)	0.037560357
D loss (%)	0.037560357

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

Division Wise Losses

Period From July 2023 to September 2023

S.No	Name of Circle	Circle code	Name of Division	Consumer profile										Energy parameters					Losses			Commercial Parameter			AT & C loss (%)
				Consumer category	No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)	% of number of connections	Connected Load metered (MW)	Connected Load Un-metered (MW)	Total Connected Load (MW)	% of connected load	Input energy (MU)	Metered energy	Unmetered/a assessment energy	Total energy	% of energy consumption	T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency			
1	Technopark Phase-I Campus (Trivandrum)	Phase-I	Phase-I	Residential	0	0	0	0%	0	0	0	0%	11.36912	0	0	0	0%	0.502702	4%	0	0	0.00%			
				Agricultural	0	0	0	0%	0	0	0%	0		0	0	0%	0			0	0.00%				
				Commercial/Industrial-LT	548	0	548	97%	19.42	0	19.42	68%		5.967661	0	5.967661	59%			0.502702	4%	6.4	6.4	100.00%	
				Commercial/Industrial-HT	16	0	16	3%	9.1	0	9.1	32%		4.898758	0	4.898758	45%			0.502702	4%	4.42	4.42	100.00%	
	Sub-total			564	0	564	100%	28.52	0	28.52	100%	11.36912	10.86642	0	10.86642	100%	0.502702	4%	10.82	10.82	100.00%	4%			
2	Technopark Phase-III Campus (Trivandrum)	Phase-III	Phase-III	Residential	0	0	0	0%	0	0	0	0%	6.05676	0	0	0	0%	0.135748	2%	0	0	0.00%			
				Agricultural	0	0	0	0%	0	0	0%	0		0	0	0%	0			0	0.00%				
				Commercial/Industrial-LT	250	0	250	98%	6.99	0	6.99	52%		1.999504	0	1.999504	34%			0.135748	2%	2.04	2.04	100.00%	
				Commercial/Industrial-HT	6	0	6	2%	6.48	0	6.48	48%		3.921507	0	3.921507	66%			0.135748	2%	3.54	3.54	100.00%	
	Sub-total			256	0	256	100%	13.47	0	13.47	100%	6.05676	5.921011	0	5.921011	100%	0.135748	2%	5.58	5.58	100.00%	2%			
3	Technopark Phase-IV Campus (Technology)	Phase-IV	Phase-IV	Residential	0	0	0	0%	0	0	0	0%	1.15715	0	0	0	0%	0.059961	5%	0	0	0.00%			
				Agricultural	0	0	0	0%	0	0	0%	0		0	0	0%	0			0	0.00%				
				Commercial/Industrial-LT	43	0	43	96%	0.914	0	0.914	49%		0.197709	0	0.197709	18%			0.059961	5%	0.21	0.21	100.00%	
				Commercial/Industrial-HT	2	0	2	4%	0.95	0	0.95	51%		0.90348	0	0.90348	82%			0.059961	5%	0.76	0.76	100.00%	
	Sub-total			45	0	45	100%	1.864	0	1.864	100%	1.15715	1.101189	0	1.101189	100%	0.059961	5%	0.97	0.97	100.00%	5%			
4	Technopark Phase-V Campus (Kollam)	Phase-V	Phase-V	Residential	0	0	0	0%	0	0	0	0%	0.13731	0	0	0	0%	0.008732	6%	0	0	0.00%			
				Agricultural	0	0	0	0%	0	0	0%	0		0	0	0%	0			0	0.00%				
				Commercial/Industrial-LT	48	0	48	100%	1.225373	0	1.225373	100%		0.128578	0	0.128578	100%			0.008732	6%	0.2	0.2	100.00%	
				Commercial/Industrial-HT	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%			
	Sub-total			48	0	48	100%	1.225373	0	1.225373	100%	0.13731	0.128578	0	0.128578	100%	0.008732	6%	0.2	0.2	100.00%	6%			

75	Total	Residential	0	0	0	0	0%	0	0	0	0	0	0%	0	0	0	0	0	0	0.00%
		Agricultural	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0	0
77	At company level	Commercial/Industrial-I-T	889	0	889	97%	28.549373	0	28.549373	0	18.72034	8.293453	0	8.29345299	48%	0.703143	4%	0	0	0.00%
		Commercial/Industrial-II-T	24	0	24	3%	16.53	0	16.53	0	18.0172	9.723745	0	9.72374504	54%		4%	8.85	8.85	100.00%
		Others	0	0	0	0%	0	0	0	0	18.0172	0	18.0179803	100%	0.703143	4%	0	0	0.00%	
		Formula protected	913	0	913	100%	45.079373	0	45.079373	100%										4%

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

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

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Name of Authorized Signatory:
 Name of the DISCOM:
 Full Address:
 Authorized Signatory and Seal
 Signature: *S. RAJAM A*
 Name of Energy Manager: S. RAJAM A
 Registration Number: EA 20758

Seal

B.3.3401	Total (Mn)	14.72	0.20	14.72
B.3.3402	Net Input energy at DISCOM periphery (Mn)			


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

I/We undertake that the information supplied in this Document, and Form 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.

Authorized Signatory and Seal

Name of Authorized Signatory
Full Address:


MADHAVAN PRAVEEN
GENERAL MANAGER (PROJECTS)
TECHNOPARK


 Syiram A
 Registration Number: GA. 20358

(Details of Consumers)

Summary of Energy

Period From July 2023 to September 2023

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	Nil	Nil	Nil	Nil	
2	Commercial	Nil	Nil	Nil	Nil	
3	IP Sets	Nil	Nil	Nil	Nil	
4	Hor. & Nur. & Coffee/Tea & Rubber (Metered)	Nil	Nil	Nil	Nil	
5	Hor. & Nur. & Coffee/Tea & Rubber (Flat)	Nil	Nil	Nil	Nil	
6	Heating and Motive Power	Nil	Nil	Nil	Nil	
7	Water Supply	Nil	Nil	Nil	Nil	
8	Public Lighting	Nil	Nil	Nil	Nil	
9	HT Water Supply	Nil	Nil	Nil	Nil	
10	HT Industrial	HT	11000	24	9.72374504	
11	Industrial (Small)	LT	415	889	8.29345299	
12	Industrial (Medium)	Nil	Nil	Nil	Nil	
13	HT Commercial	Nil	Nil	Nil	Nil	
14	Applicable to Government Hospitals & Hospitals	Nil	Nil	Nil	Nil	
15	Lift Irrigation Schemes/Lift Irrigation Societies	Nil	Nil	Nil	Nil	
16	HT Res. Apartments Applicable to all areas	Nil	Nil	Nil	Nil	
17	Mixed Load	Nil	Nil	Nil	Nil	
18	Government offices and department	Nil	Nil	Nil	Nil	
19	Others-1 (if any, specify in remarks)	Nil	Nil	Nil	Nil	
20	Others-2 (if any, specify in remarks)	Nil	Nil	Nil	Nil	
21	Others-3 (if any, specify in remarks)	Nil	Nil	Nil	Nil	
22	Others-4 (if any, specify in remarks)	Nil	Nil	Nil	Nil	
23	Others-5 (if any, specify in remarks)	Nil	Nil	Nil	Nil	
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
Total				913	18.02	

(Details of Feeder-wise losses)

Period from July 2023 to September 2023

Sl No.	Zone	Received at Circle (In MU)	Received at Division (In MU)	Received at Sub-division (In MU)	Name of the Station	Feeder Code/ID	Feeder Name	Type of Feeder (Urban/Mixed/Rural)	Type of Feeder meter (AMR/AMN/Other)	Received at Feeder (Final in MU)	Feeder Consumption (In MU)	Final Net Export at Feeder Level (In MU)	T&D losses	AT&C losses	% Data Received through Automatically (I/Feeder AMR/AMN)	Remarks
	Technopark Phase-I															
1	Campus II (I/Twistram)	Nil	12,207,62,42 Nil		Phase - 1	Nil	Nil	Urban	other	11,36,91,208	10,86,64,19,04 Nil			9%	Nil	
2	Phase II & III, Tw	Nil	6,20,11,05,96,4 Nil		Phase II & III	Nil	Nil	Urban	other	6,05,67,59,91	5,97,10,13,49 Nil			2%	Nil	
3	Phase IV, Trhendrum	Nil	1,13,04,25 Nil		Phase IV	Nil	Nil	Urban	other	1,13,71,5	1,10,18,83 Nil			5%	Nil	
4	Phase V, Kodiam	Nil	0,14,90,25 Nil		Phase V	Nil	Nil	Urban	other	0,13,73,1	0,12,85,78 Nil			6%	Nil	