

ETPK/EMC/2021-22/95
01/02/2022

**The Director-General,
Bureau of Energy Efficiency
4th Floor, Sewa Bhawan, R.K Puram
New Delhi-110066.**

Sir,

Sub: Periodic energy accounting for the quarter starting from July 2021 to September 2021-reg.

Ref: 1. Your Letter No: F.No 18/1/BEE/DISCOM/2022 dated 28/01/2022
2. EMC letter No: EMC/528/2022ETB-1 (EED) dated 12/11/2021
3. Gazette Notification 7th Oct 2021 for Energy Audit and Accounting in DISCOM-Regulation 2021.


With reference to the subject and references cited above, we hereby submitting the periodic energy accounting for the quarter starting from July 2021 to September 2021 in the prescribed formats of BEE.

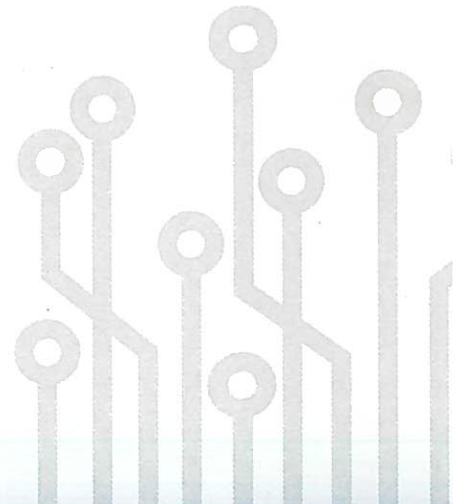
This is for your kind information.

Thanking you,

Yours faithfully,
For Electronics Technology Parks - Kerala


General Manager -Projects


CC: The Director,
Energy Management Centre
Sreekrishna Nagar, Sreekariyam P.O.
Thiruvananthapuram 695017



Form for Energy Accounting - to be completed by the Accredited Energy Auditor and Energy Manager of the Electricity Distribution Company.


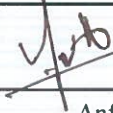
General Information

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	John M Thomas		
ii	Designation	Chief Executive Officer		
iii	Address	Park Centre, Technopark Campus, Thiruvananthapuram		
iv	City/Town/Village	Thiruvananthapuram	P.O.	695581
v	District	Thiruvananthapuram		
vi	State	Kerala	Pin	
vii	Telephone	0471-2700222	Fax	0471-2700171
5	Nodal Officer Details			
i	Nodal Officer Name (Designated at DISCOM's)	Madhavan Praveen		
ii	Designation	General Manager (Projects)		
iii	Address	Park Centre, Technopark Campus, Thiruvananthapuram		
iv	City/Town/Village	Thiruvananthapuram	P.O.	695581
v	District	Thiruvananthapuram		
vi	State	Kerala	Pin	
vii	Telephone	0471-2700222, Extn-171	Fax	0471-2700171
6	Energy Manager Details			
i	Name	Anfal A		
ii	Designation	Dy. Manager	Whether EA or EM	Nil
iii	EA/EM Registration No.	Nil		
iv	Telephone	0471-2700222,extn-176.	Fax	0471-2700171
v	Mobile	9995670881	E-mail ID	anfal@technopark.org
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	July 21– September 2021		

Performance Summary of Electricity Distribution Company

1	Period of Information Year of (FY) information including Date and Month (Start & End)	July 21– September 2021	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	12.65
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	12.34
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	12.34
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.31
		%	2.43%
	Collection Efficiency	%	99%
(c)	Aggregate Technical & Commercial Loss	%	3.41%

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	 MADHAVAN PRAVEEN GENERAL MANAGER (PROJECTS) TECHNOSPARK	Signature:-	
Name of Authorized Signatory		Madhavan Praveen, GM (Projects)	Name of Energy Manager:
Name of the DISCOM:	TECHNOPARK (Electronics Technology Parks – Kerala)	Registration Number:	Nil
Full Address:	TECHNOSPARK (Electronics Technology Parks – Kerala) Park Centre, Technopark Campus, Trivandrum-695581.		
Seal			

ANFAL. A
Dy. Manager (Electrical)
 Technopark



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	
ii	Number of divisions	0	0	0	
iii	Number of sub-divisions	0	0	0	
iv	Number of feeders	39	39	39	
v	Number of DTs	27	27	27	
vi	Number of consumers	834	834	834	
2	Parameters	66kV and above	33kV	11/22kV	LT
a. i.	Number of conventional metered consumers	0	0	22	812
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	22	812
b.i.	Number of conventionally metered Distribution Transformers	0	0	0	27
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	27
2	Parameters	66kV and above	33kV	11/22kV	LT
c.i.	Number of metered feeders	0	0	39	812
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	39	812
d.	Line length (ct km)	0	0	36	5.5
e.	Length of Aerial Bunched Cables	0	0	0	0
f.	Length of Underground Cables	0	0	36	5.5
3	Voltage level	Input Energy Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	0	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	
		Sale of surplus power	0		
		Quantum of inter-state transmission loss	0	As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	0	Based on data from Form 5	
	Power at state transmission boundary	0			
3	Voltage level	Input Energy Particulars	MU	Reference	
ii	33kV	Long-Term Conventional	0		
		Medium Conventional	0		
		Short Term Conventional	0		
		Banking	0		
		Long-Term Renewable energy	0		
		Medium and Short-Term	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	0		
iv	33 kV	Renewable energy	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		
		Energy Embedded within DISCOM wires network	0		
viii		Total Energy Available/ Input	12.65		

4	Voltage level	Energy Sales Particulars	MU	Reference	Remarks (Source of data)
i	LT level	DISCOM' consumers	834	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	6.24		
		Quantum of LT level losses	0.15		
		Energy Input at LT level	6.39		
4	Voltage level	Energy Sales Particulars	MU	Reference	Remarks (Source of data)
ii	11 kV level	DISCOM' consumers	0	Include franchisee sales, 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	
		Sale at 11 kV Level	6.10		
		Quantum of Losses at 11 kV	0.15		
		Energy Input at 11 kV level	6.25		
iii	33 kV level	DISCOM' consumers	0	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	0	This is DISCOM and OA demand met via energy generated at same voltage level	
		Sale at 33 kV Level	0		
		Quantum of Losses at 33 kV	0		
		Energy input at 33kV Level	0		
iv	> 33 kV	DISCOM' consumers	0	Include franchisee sales, 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		
		Sales at 66kV and above (EHV)	0		
Total Energy Requirement			12.650		
Total Energy Sales			12.342		

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	12.65	6.242	0.31	2.43%
ii	11 Kv		6.100		
iii	33 kv		0	0	
iv	> 33 kv		0	0	
6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	
i	LT	0	0	0	
ii	11 Kv	0	0	0	
iii	33 kv	0	0	0	
iv	> 33 kv	0	0	0	

Loss Estimation for DISCOM

T&D loss	0
D loss	0.31
T&D loss (%)	0%
D loss (%)	2.43%

Form-Input energy(Details of Input energy & Infrastructure)

Sector-Electricity Distribution Companies


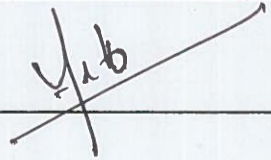
A. Summary of energy input & Infrastructure

S.No	Parameters	Q2(July 2021-September 2021)	Remarks (Source of data)
A.1	Input Energy purchased (MU)	12.65	
A.2	Transmission loss (%)	2.43%	
A.3	Transmission loss (MU)	0.31	
A.4	Energy sold outside the periphery(MU)	0	
A.5	Open access sale (MU)	0	
A.6	EHT sale	0	
A.7	Net input energy (received at DISCOM periphery or at distribution point,after adjustment)-(MU)	17.07	
A.8	Is 100% metering available at 66/33 kV (Select yes or no from list)	yes	NA
A.9	Is 100% metering available at 11 kV (Select yes or no from list)	yes	
A.10	% of metering available at DT	100%	
A.11	% of metering available at consumer end	100%	
A.12	No of feeders at 66kV voltage level	0	NA
A.13	No of feeders at 33kV voltage level	0	NA
A.14	No of feeders at 11kV voltage level	39	
A.15	No of LT feeders level	812	
A.16	Line length (ckt. km) at 66kV voltage level	0	NA
A.17	Line length (ckt. km) at 33kV voltage level	0	NA
A.18	Line length (ckt. km) at 11kV voltage level	36	
A.19	Line length (km) at LT level	5.5	approximate length upto metering point
A.20	HT/LT ratio	6.55	01:00.2

B. Meter reading of Input energy injection points

S.No	Voltage level	Feeder ID	Feeder Name	Q2(July 2021-September 2021)				Remarks (Source of data)
				Meter S.No	CT/PT ratio	Import (MU)	Export (MU)	
B.1	11KV	P1 Feeder-1	Feeder 1 (I/C from KSEB 110KV)	X0762965	500/5,11KV/110	0.60		Technopark Phase-I main feeder from KSEB
B.2	11KV	P1 Feeder-2	Feeder 2 (I/C from KSEB 110KV)	13062537	500/5,11KV/110	1.68		Technopark Phase-I main feeder from KSEB
B.3	11KV	P1 Feeder-3	Feeder 3 (I/C from KSEB 110KV)	13062524	400/5,11KV/110	3.07		Technopark Phase-I main feeder from KSEB
B.4	11KV	P1 Feeder-4	Feeder 4 (I/C from KSEB 110KV)	X0762963	500/5,11KV/110	0.98		Technopark Phase-I main feeder from KSEB
B.5	11KV	Parkcentre	Parkcentre	X076292	50/5	0.17		Technopark Phase-I
B.6	11KV	Chandragiri	Chandragiri	X0762960	50/5	0.10		Technopark Phase-I
B.7	11KV	PambaPeriyar	PambaPeriyar	X0762961	100/5	0.15		Technopark Phase-I
B.8	11KV	Aushimsoft	Aushimsoft	99027324	20/5	0.03		Technopark Phase-I
B.9	11KV	Bhavani	Bhavani	13003665	200/5	0.10		Technopark Phase-I
B.10	11KV	Nila	Nila	13003673	200/5	1.20		Technopark Phase-I
B.11	11KV	Gayatri	Gayatri	13003645	100/5	0.28		Technopark Phase-I
B.12	11KV	Amstor	Amstor	15045039	30/5	0.08		Technopark Phase-I
B.13	11KV	M Square	M Square	5295286	40/5	0.12		Technopark Phase-I
B.14	11KV	Roots Corporation	Roots Corporation	18184312	15/5	0.06		Technopark Phase-I
B.15	11KV	IIITMK	IIITMK	11094914	15/5	0.06		Technopark Phase-I
B.16	11KV	Trivandrum	Trivandrum International School	17117787	10/5	0.00		Technopark Phase-I
B.17	11KV	TCS SEZ	TCS SEZ	13003655	75/5	0.51		Technopark Phase-I
B.18	11KV	Carnival	Carnival	8031945	100/5+100/5 summation CT	0.59		Technopark Phase-I
B.19	11KV	Quest Global	Quest Global	10273212	100/5	0.70		Technopark Phase-I
B.20	11KV	CDAC	CDAC	10273196	25/5	0.25		Technopark Phase-I
B.21	11KV	TCS Peepul Park	TCS Peepul Park	6676909	150/5	0.17		Technopark Phase-I
B.22	11KV	IBS	IBS	17021153	50/5	0.29		Technopark Phase-I
B.23	11KV	Tataelxsi	Tataelxsi	5437172	75/5	0.38		Technopark Phase-I
B.24	11KV	Thejaswini	Thejaswini			1.16		Technopark Phase-I
B.25	11KV	Seaview	Seaview	5296297	40/5	0.10		Technopark Phase-I
B.26	11KV	TCS CLC	TCS CLC	14017355	25/5	0.01		Technopark Phase-I
B.27	11KV	KSITM Data Center	KSITM Data Center	11086371	50/5	0.44		Technopark Phase-I
B.28	11KV	FEEDER 1	INFOSYS 1	9165505	200/5	0.46		Technopark Phase-III
B.29	11KV	FEEDER 3	INFOSYS 2	18113468	200/5	0.34		Technopark Phase-III
B.30	11KV	FEEDER 6	UST	12085096	200/5	1.35		Technopark Phase-III
B.31	11KV	FEEDER 7	Ganga Yamuna IT BUILDING	12085162	200/5	0.23		Technopark Phase-III
B.32	11KV	FEEDER 8	Winterfell Reality Pvt Ltd (Keystone)	17094826	200/5	0.06		Technopark Phase-III
B.33	11KV	FEEDER 4	160 KVA OUT DOOR Transformer	12483749	200/5	0.00		Technopark Phase-III
B.34	11KV	AUX FEEDER	STATION AUXILLARY Transformer	XC478102	30/5	0.01		Technopark Phase-III
B.35	11KV	FEEDER 1A	RING 2 RMU (PH-3 & winterfell temp)	12483724	200/5	1.04		Technopark Phase-III
B.36	11KV	KLMHT1	500 KVA Transformer	14029705	50/5A & 11000/110V	0.02		Technopark Phase-V
B.37	11KV	KLMHT2	1600 KVA Transformer	14029708	100/5A & 11000/110V	0.08		Technopark Phase-V
B.38	11KV	KLMHT3	250 KVA CSS	09169235	50/5A & 11000/110V	0.005		Technopark Phase-V
B.39	11KV	RMU-7	IIITM-K		150/5A & 11000/110V	0.199		Technocity
Total (MU)						17.07	0.00	
Net input energy at DISCOM periphery (MU)						17.07		

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	Madhavan Praveen, GM (Projects)	Signature:- 	
Name of the DISCOM:	TECHNOPARK (Electronics Technology Parks – Kerala)	Name of Energy Manager:	Anfal A 
Full Address	TECHNOPARK (Electronics Technology Parks – Kerala) Park Centre, Technopark Campus, Trivandrum-695581.	Registration Number:	NIL
Seal	MADHAVAN PRAVEEN GENERAL MANAGER (PROJECTS) TECHNOPARK	ANFAL. A Dy.Manager (Electrical) Technopark	

**Form-Sj(Details of circle wise losses)
Sector-Electricity Distribution Companies**

C. Circle wise losses
Q2(July 2021-September 2021)

S.No	Name of circle	Circle code	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	Energy parameters				Losses					
												Input energy (MU)	Metered energy	Unmetered/as assessment energy	Total energy	% of energy consumption	T&D loss (MU)	T&D loss (%)			
1	Technopark Phase-I Campus (Trivandrum)	Phase-I	Residential	0	0	0	0%	0.000	0	0.000	0%	8.76	0.00	0	0.00	0%	0.21	2.41%			
			Agricultural	0	0	0	0%	0.000	0	0.000	0%		0.00	0	0.00	0%					
			Commercial/Industrial-LT	414	0	414	75%	19.085	0	19.085	64%		4.33	0	4.33	51%					
			Commercial/Industrial-HT	16	0	16	3%	9.102	0	9.102	31%		3.73	0	3.73	44%					
			Others	121	0	121	22%	1.471	0	1.471	5%		0.49	0	0.49	6%					
			Sub-total	551	0	551	100%	29.658	0	29.658	100%		8.76	8.55	0	8.55			100%	0.21	2.41%
			Residential	0	0	0	0%	0.000	0	0.000	0%		0.00	0	0.00	0%					
Agricultural	0	0	0	0%	0.000	0	0.000	0%	0.00	0	0.00	0%									
Commercial/Industrial-LT	184	0	184	81%	6.970	0	6.970	57%	1.28	0	1.28	37%									
Commercial/Industrial-HT	5	0	5	2%	5.144	0	5.144	42%	2.17	0	2.17	62%									
Others	37	0	37	16%	0.142	0	0.142	1%	0.04	0	0.04	1%									
Sub-total	226	0	226	100%	12.256	0	12.256	100%	3.55	3.50	0	3.50	100%	0.05	1.52%						
2	Technopark Phase-III Campus (Trivandrum)	Phase-III	Residential	0	0	0	0%	0.000	0	0.000	0%	0.24	0	0	0.00	0%	0.04	1.639%			
			Agricultural	0	0	0	0%	0	0	0	0		0	0	0%						
			Commercial/Industrial-LT	0	0	0	0%	0	0	0	0		0	0%	0.00	0			0.00	0%	
			Commercial/Industrial-HT	1	0	1	100%	0.45	0	0.45	100%		0.20	0	0.20	100%					
			Others	0	0	0	0%	0	0	0	0%		0.000	0	0.000	0%					
			Sub-total	1	0	1	100%	0.45	0	0.45	100%		0.24	0.19854	0	0.19854			100%	0.04	1.639%
			Residential	0	0	0	0%	0	0	0	0%		0	0	0	0			0%		
Agricultural	0	0	0	0%	0	0	0	0%	0	0	0	0	0%								
Commercial/Industrial-LT	0	0	0	0%	0	0	0	0%	0.00	0	0.00	0%									
Commercial/Industrial-HT	0	0	0	0%	0	0	0	0%	0.20	0	0.20	100%									
Others	0	0	0	0%	0	0	0	0%	0.000	0	0.000	0%									
Sub-total	1	0	1	100%	0.45	0	0.45	100%	0.24	0.19854	0	0.19854	100%	0.04	1.639%						
3	Technopark Phase-IV Campus (Technocity)	Phase-V	Residential	0	0	0	0%	0.000	0	0.000	0%	0.101125	0	0	0.00	0%	0.0042039	4.16%			
			Agricultural	0	0	0	0%	0	0	0	0		0	0	0%						
			Commercial/Industrial-LT	0	0	0	0%	0	0	0	0%		0.0967707	0	0.096770695	100%					
			Commercial/Industrial-HT	0	0	0	0%	0	0	0	0%		0	0	0	0%					
			Others	1	0	1	2%	0.00025	0	0.00025	0%		0.0001504	0	0.0001504	0%					
			Sub-total	56	0	56	100%	1.182281	0	1.182281	100%		0.101125	0.0969211	0	0.096921095			100%	0.0042039	4.16%
			Residential	0	0	0	0%	0.000	0	0.000	0%		0.00	0.00	0.00	0%					
Agricultural	0	0	0	0%	0.000	0	0.000	0%	0.00	0.00	0.00	0%									
Commercial/Industrial-LT	653	0	653	78%	27.237	0	27.237	63%	5.71	0.00	5.71	46%									
Commercial/Industrial-HT	22	0	22	3%	14.696	0	14.696	34%	6.10	0.00	6.10	49%									
Others	159	0	159	19%	1.613	0	1.613	4%	0.53	0.00	0.53	4%									
Sub-total	834	0	834	100%	43.546	0	43.546	100%	12.65	12.34	0.00	12.34	100%	0.31	2.43%						
77	At company level			834	0	834	100%	43.546	0	43.546	100%	12.65	12.34	0.00	12.34	100%	0.31	2.43%			

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	Madhavan Praveen, GM (Projects)	Signature:-		ANFAL.A Dy. Manager (Electrical) Technopark
Name of the DISCOM:	TECHNOPARK (Electronics Technology Parks - Kerala)	Name of Energy Manager:	MADHAVAN PRAVEEN GENERAL MANAGER (PROJECTS) TECHNOPARK	ANf/A
Full Address	TECHNOPARK (Electronics Technology Parks - Kerala) Park Centre, Technopark Campus, Trivandrum-695581.	Registration Number:		Nil
Seal				