

General Information				
1	Name of the DISCOM	Cochin Port Authority		
2	i) Year of Establishment	1936		
	ii) Government/Public/Private	Public		
3	DISCOM's Contact details & Address			
i	City/Town/Village	Cochin		
ii	District	Ernakulam		
iii	State	Kerala	Pin	682009
iv	Telephone	0484-2668200	Fax	0484-2666512
4	Registered Office			
i	Company's Chief Executive Name	B. KASIVISWANATHAN IRS ME		
ii	Designation	Chairman		
iii	Address	Cochin Port Authority, W.Island		
iv	City/Town/Village	Cochin	P.O.	W.Island
v	District	Ernakulam		
vi	State	Kerala	Pin	682009
vii	Telephone	0484-2668566	Fax	0484-2668163
5	Nodal Officer Details*			
i	Nodal Officer Name (Designated at DISCOM's)	AJITHKUMAR D		
ii	Designation	SUPERINTENDING ENGINEER (ELE)		
iii	Address	Cochin Port Authority, W.Island		
iv	City/Town/Village	Cochin	P.O.	W. Island
v	District	Ernakulam		
vi	State	Kerala	Pin	682009
vii	Telephone	0484-2582320	Fax	0484-2666639
6	Energy Manager Details*			
i	Name	JAYALAKSHMY S		
ii	Designation	Executive Engineer(Ele)	Whether EA or EM	EM
iii	EA/EM Registration No.	Nil		
iv	Telephone	0484-2382360	Fax	0484-2666639
v	Mobile	9496450704	E-mail ID	jayalakshmi@cochinport.gov.in
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	1st July 2024 to 30th September 2024		


SUPERINTENDING ENGINEER (ELE.)
COCHIN PORT AUTHORITY


SUNIL KUMAR V.K
Certified Energy Auditor
Reg. No: EA 3642

Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st July 2024 to 30th September 2024	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	11.93
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	12.01
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	11.80
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.217
		%	1.80
	Collection Efficiency	%	100.00
(c)	Aggregate Technical & Commercial Loss	%	1.80

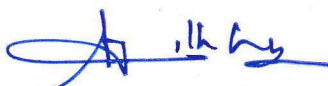
I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or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

Authorised Signatory and Seal

Name of Authorised Signatory : Ajithkumar .D
Name of th Cochin Port Authority
Full Addre: W.Island , Cochin -682009, Kerala

Signature:-
Name of Energy Manager*:
Registration Number:

Seal


SUPERINTENDING ENGINEER (ELE.)
COCHIN PORT AUTHORITY
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Sunilkumar V K
EA 3642


SUNIL KUMAR V.K
Certified Energy Auditor
Reg. No: EA 3642

Form-Details of Input Infrastructure					Remarks (Source of data)
1	Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	In CoPA there is no
i	Number of circles	1	1		
ii	Number of divisions				
iii	Number of sub-divisions	16	16	16	ter software for 11 nos c
iv	Number of feeders	30	30	1	No meter is installed
v	Number of DTs	1229	1229	1229	Through SAP
vi	Number of consumers	66kV and above	33kV	11/22kV	LT
2	Parameters	0	0	0	89
a. i.	Number of conventional metered consumers	0	0	37	1103
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	37	1192
vii	Number of total consumers	0			
b.i.	Number of conventionally metered Distribution Transformers	0			
ii	Number of DTs with communicable meters	0	0	0	0
iii	Number of unmetered DTs	0	0	30	0
iv	Number of total Transformers	0	0	30	0
c.i.	Number of metered feeders	0	0	12	0
ii	Number of feeders with communicable meters	0	0	4	
iii	Number of unmetered feeders	0	0	16	
iv	Number of total feeders	0	0	85	0
d.	Line length (ct km)	0	0	0	0
e.	Length of Aerial Bunched Cables	0	0	0	105
f.	Length of Underground Cables	0	0		

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3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	7.84	Includes input energy for franchisees	From M/s KSEBL
		Medium Conventional	0		
		Short Term Conventional	0		
		Banking	0		
		Long-Term Renewable energy	0		
		Medium and Short-Term RE	0	Includes power from bilateral/ PX/ DEEP	
		Captive, open access input	0	Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.	
		Sale of surplus power	0.00%		
		Quantum of inter-state transmission loss	0	As confirmed by SLDC, RLDC etc	
		Power procured from inter-state sources	0.0000	Based on data from Form 5	
ii	33kV	Power at state transmission boundary	7.84		
		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		
iii		Power procured from intra-state sources	0		
iv	33 kV	Input in DISCOM wires network	0		
		Renewable Energy Procurement	0		
		Small capacity conventional/ biomass/ hydro plants Procurement	0		
v	11 kV	Captive, open access input	0		
		Renewable Energy Procurement	0		
		Small capacity conventional/ biomass/ hydro plants Procurement	0		
		Sales Migration Input	4.09		
vi	LT	Renewable Energy Procurement	0		
		Sales Migration Input	0		
vii		Energy Embedded within DISCOM wires network	0.083		
viii		Total Energy Available/ Input	12.01		
4	Voltage level	Energy Sales Particulars		Reference	
i	LT Level	DISCOM' consumers	2.48	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	0.02	Demand from embedded generation at LT level	
		Sale at LT level	2.50		
		Quantum of LT level losses	0		
		Energy Input at LT level	2.72		
ii	11 kV Level	DISCOM' consumers	9.29	Include sales to consumers in franchisee areas, unmetered consumers	
		Demand from open access, captive	0	Non DISCOM's sales	
		Embedded generation at 11 kV level used	0	Demand from embedded generation at 11kV level	
		Sales at 11 kV level	9.29		
		Quantum of Losses at 11 kV	0		
		Energy input at 11 kV level	11.93		
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	
		Sales 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 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	8		
		Sales at 66kV and above (EHV)	0		
Total Energy Requirement			12.01		
Total Energy Sales			11.80		

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EE (Ele)

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Energy Accounting Summary					
S	DISCOM	Input (In MU)	Sale (In MU)	Loss (In MU)	Loss %
I	LT	2.72	2.50	0.217	
II	11 Kv	11.93	9.29	0	
III	33 kv	0	0	0	
IV	> 33 kv	7.835	0	0.00	0
5	Open Access, Captive				
I	LT	0	0		
II	11 Kv	0.00000	0		
III	33 kv	0	0		
IV	> 33 kv	0.000	0		

Loss Estimation for DISCOM	
T&D loss	0.217
D loss	0.217
T&D loss (%)	1.80
D loss (%)	1.80

** Category wise loss couldnot be assessed due to non installation of DTR meters
 * 11 kv loss is assumed as zero for calculating the LT input energy.

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SUNIL KUMAR V.K.
 Certified Energy Auditor
 Reg. No. EA 3642

**SUPERINTENDING ENGINEER (ELE.)
 COCHIN PORT AUTHORITY**

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Details of Division Wise Losses (See note below**)																						
Division Wise Losses																						
Period From 1st July 024 to 30th September 2024																						
Sl.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/assessment energy	Total energy	% of energy consumption	T&D loss (MU)		T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore
1		1	Wellington Island-Vallarpadam	Residential	397	0	397	32%	0	0	0	0%	0.21	0.00	0.21	2%	0	0%	0.14	0.14	100.00%	
			Agricultural	0	0	0	0%	0	0	0	0%	0.00	0.00	0.00	0%	0	0%	0.00	0.00	0.00%		
			Commercial/Industrial-LT	560	0	560	46%	0	0	0	0%	12.01176	8.71	0.00	1.29	11%	0.217	1.80%	3.67	1.67	100.00%	
			Commercial/Industrial-HT	29	0	29	2%	0	0	0	0%	8.71	0.00	0.00	8.71	74%	0.217	1.80%	9.56	9.56	100.00%	
			Others	243	0	243	20%	0	0	0	0%	1.58	0.00	1.58	13%	0	0%	1.47	1.47	100.00%		
Sub-total				1229	0	1229	100%	0	0	0	100%	12.01176	11.952	0	11.80	100%	0.217	1.803%	12.84	12.84	100.0000%	
Sub-total				0	0	0	0	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%	
76			Residential	397	0	397	32%	0	0	0	0%	0.21	0.00	0.21	2%	0	0%	0.14	0.14	100.00%		
			Agricultural	0	0	0	0%	0	0	0	0%	0.00	0.00	0.00	0%	0	0%	0.00	0.00	0.00%		
			Commercial/Industrial-LT	560	0	560	46%	0	0	0	0%	12.01176	8.71	0.00	1.29	11%	0.216563	1.80%	3.67	1.67	100.00%	
			Commercial/Industrial-HT	30	0	29	2%	0	0	0	0%	8.71	0.00	0.00	8.71	74%	0.217	1.80%	9.56	9.56	100.00%	
			Others	242	0	243	20%	0	0	0	0%	1.58	0.00	1.58	13%	0	0%	1.47	1.47	100.00%		
Sub-total				1229	0	1229	100%	0	0	0	100%	12.01176	9.08	0	11.80	100%	0.217	1.803%	12.84	12.84	100.000%	
Sub-total				0	0	0	0	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%	
77	At company level				1229	0	1229	100%	0	0	0	100%	12.01176	9.08	0	11.80	100%	0.217	1.803%	12.84	12.84	100.000%
** 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.																						

** 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.

Circle code	Parameter
0	Please enter name of circle
0	Please enter circle code
0	Please enter numeric value or 0
0	Formula protected

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 Authorised Signatory:

Name of the DISCOM:

Full Address:

Seal



SUPERINTENDING ENGINEER (ELE.)
COCHIN PORT AUTHORITY



Signature:-
Name of Energy Manager:
Registration Number:

SUNIL KUMAR VK
Certified Energy Auditor
Reg. No: EA 3642

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

A. Summary of energy input & infrastructure		Parameters	Remarks (Source of data)
S.No			
A.1	Input Energy purchased (MU)	11.93	From electricity Bill
A.2	Transmission loss (%)	0	
A.3	Transmission loss (MU)	0	
A.4	Energy sold outside the periphery (MU)	0	
A.5	Open access sale (MU)	0	
A.6	EHT sale	12.01	
A.7	Net input energy (received at DISCOM periphery or at distribution point) - (MU)		
A.8	Is 100% metering available at 66/33 kV (Select yes or no from list)	0%	
A.9	Is 100% metering available at 11 kV (Select yes or no from list)	100%	
A.10	% of metering available at DT	0	
A.11	% of metering available at consumer end	15	
A.12	No of feeders at 66kV voltage level	0	
A.13	No of feeders at 33kV voltage level	0	
A.14	No of feeders at 11kV voltage level	85	
A.15	No of LT feeders level	105	
A.16	Line length (ckt. km) at 66kV voltage level	0	
A.17	Line length (ckt. km) at 33kV voltage level	0	
A.18	Line length (ckt. km) at 11kV voltage level	85	
A.19	Line length (km) at LT level	105	
A.20	Length of Aerial Bunched Cables	0	
A.21	Length of Underground Cables	85	
A.22	HT/LT ratio		

B. Meter reading of input energy at injection points																								
S.No	Zone	Circle	Voltage Level (kV)	Division (kV)	Sub-Division (kV)	Feeder ID	Feeder Name	Feeder Status (Metered/Unmetered/AMR/AMR)	Status of Meter (Functioning/Non-functional)	Meter Date of last actual meter reading/communication	Feeder Type (Agri/Industrial/Mixed)	Status of Communication				Period from...to...			Remarks (Source of data)	Sales				
												% data received through meter locally, if feasible	Number of hours when meter was usable to communicate in period	Total Number of hours in the period	Meter S.No	C/P/T ratio	Import (MU)	Export (MU)		Input energy at	New feeder	Embedded energy		
B.1	CoPA		110 kV					AMR			Mixed	0%	0%	17078922.00	150.00	7.84	0.00		Input energy at					
B.2	CoPA		11					AMR			Mixed	0%	100%	22001331.00	40.00	2.53	0.00							
B.3	CoPA		11					AMR			Mixed	100%		220013683.00	24.00	1.57	0.00		New feeder					
B.4	CoPA		0.415								Mixed	0%					0.08	0.00	Embedded energy					
Total (MU)																								
Net input energy at DISCOM periphery (MU)																								

Details of Input Energy Sources

Period From	Period To	Period
1st July 2024	30th September 2024	

A. Generation at Transmission Periphery (Details)

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Form-Details of Input Infrastructure					Remarks (Source of data)
1	Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	
i	Number of circles	1	1		In CoPA there is no
ii	Number of divisions				
iii	Number of sub-divisions	16	16	16	Per software for 11 nos
iv	Number of feeders	30	30	1	No meter is installed
v	Number of DTs	1229	1229	1229	Through SAP
vi	Number of consumers	0	0	0	17
2	Parameters	66KV and above	33KV	11/22KV	89
a. i.	Number of conventional metered consumers	0	0	0	1103
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	37	1192
b.i.	Number of conventionally metered Distribution Transformers	0			
ii	Number of DTs with communicable meters	0	0	0	0
iii	Number of unmetered DTs	0	0	30	0
iv	Number of total Transformers	0	0	30	0
c.i.	Number of metered feeders	0	0	0	0
ii	Number of feeders with communicable meters	0	0	12	0
iii	Number of unmetered feeders	0	0	4	
iv	Number of total feeders	0	0	16	
d.	Line length (ct km)	0	0	85	0
e.	Length of Aerial Bunched Cables	0	0	0	0
f.	Length of Underground Cables	0	0	0	105

Signature

*July 13/10
EE (Ele)*

3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	7.84	Includes input energy for franchisees	From M/s KSEB
		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/ PV/ DEEP	
				Any power wheeled for any purchase other than	
				sale to DISCOM. Does not include input for	
				franchisee.	
ii	33kV	Sale of surplus power	0.00%		
		Quantum of inter-state transmission loss	0		
		Power procured from inter-state sources	0.0000	As confirmed by SLD, RLDC etc	
		Power at state transmission boundary	7.84	Based on data from Form 5	
		Long-Term Conventional	0		
		Medium Conventional	0		
		Short-Term Conventional	0		
		Banking	0		
		Long-Term Renewable energy	0		
		Medium and Short-Term RE	0		
iii	11 kV Level	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	0		
		Renewable Energy Procurement	0		
		Small capacity conventional/ biomass/ hydro plants	0		
		Procurement	0		
		Captive, open access input	0		
		Renewable Energy Procurement	0		
iv	> 33 kV	Small capacity conventional/ biomass/ hydro plants	0		
		Procurement	0		
		Sales Migration Input	4.09		
		Renewable Energy Procurement	0		
		Sales Migration Input	0		
		Energy Embedded within DISCOM wires network	0		
			0.083		
v	LT Level	Total Energy Available/ Input	12.01		
		DISCOM' consumers			
		Demand from open access, captive	2.48	Include sales to consumers in franchisee areas, un-metered consumers	
		Embedded generation used at LT level	0	Non DISCOM's sales	
		Quantum of LT level losses	0.02	Demand from embedded generation at LT level	
		Energy Input at LT level	2.50		
		DISCOM' consumers	0		
		Demand from open access, captive	2.72		
		Embedded generation at 11 kV level used	9.29	Include sales to consumers in franchisee areas, un-metered consumers	
		Sales at 11 kV level	0	Non DISCOM's sales	
vi	33 kV Level	Quantum of losses at 11 kV	0		
		Energy Input at 11 kV level	9.29	This is DISCOM and OA demand met via energy generated at same voltage level	
		DISCOM' consumers	11.93		
		Demand from open access, captive	0	Include sales to consumers in franchisee areas, un-metered consumers	
		Embedded generation at 33 kV or below level	0	Non DISCOM's sales	
		Sales at 33 kV level	0		
		Quantum of losses at 33 kV	0		
		Energy Input at 33 kV level	0		
		DISCOM' consumers	0		
		Demand from open access, captive	0	Include sales to consumers in franchisee areas, un-metered consumers	
vii	> 33 kV	Cross border sale of energy	0	Non DISCOM's sales	
		Sale to other DISCOMs	0		
		Banking	0		
		Energy Input at > 33kV Level	8		
		Sales at 66kV and above (EHV)	0		
		Total Energy Requirement	12.01		
		Total Energy Sales	11.80		



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 ET (EIO)

Energy Accounting Summary					
S	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
5	i LT	2.72	2.50	0.217	
	ii 11 Kv	11.93	9.29	0	
	iii 33 kv	0	0	0	
	iv > 33 kv	7.835	0	0	
6	Open Access, Captive				0
	i LT	0	0		
	ii 11 Kv	0.00000	0		
	iii 33 kv	0	0		
	iv > 33 kv	0.000	0		

Loss Estimation for DISCOM	
T&D loss	0.217
D loss	0.217
T&D loss (%)	1.80
D loss (%)	1.80

** Category wise loss couldnot be assessed due to non installation of DTF meters
 * 11 Kv loss is assumed as zero for calculating the LT input energy.



SUPERINTENDING ENGINEER (ELE.)
 COCHIN PORT AUTHORITY


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