

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		In CoPA there is no
ii	Number of divisions				
iii	Number of sub-divisions				
iv	Number of feeders	16	16	16	Through AMI meter software for 11 nos out of 16 feeders
v	Number of DTs	30	30	1	No meter is installed
vi	Number of consumers	1232	1232	1232	Through SAP
2	Parameters	66kV and above	33kV	11/22kV	LT
a. i.	Number of conventional metered consumers	0	0	0	89
ii	Number of consumers with 'smart' meters	0	0	38	1105
iii	Number of consumers with 'smart prepaid' meters	0	0	0	0
iv	Number of consumers with 'AMR' meters	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	38	1194
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	
c.i.	Number of metered feeders	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
3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	* 8.71	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	

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ii	33kV	Power at state transmission boundary			8.7059	
		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			0	
		Renewable Energy Procurement			0	
		Small capacity conventional/ biomass/ hydro plants			0	
v	11 kV	Procurement			0	
		Captive, open access input			0	
		Renewable Energy Procurement			0	
		Small capacity conventional/ biomass/ hydro plants			0	
		Procurement			0	
vi	LT	Sales Migration Input			3.99	
		Renewable Energy Procurement			0	
vii		Sales Migration Input			0	
		Energy Embedded within DISCOM wires network			0.111	
viii		Total Energy Available/ Input			12.81	
i	LT Level	Energy Sales Particulars				Reference
		DISCOM' consumers			2.45	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			2.47	
		Quantum of LT level losses			0.26	
		Energy Input at LT level			2.73	
		DISCOM' consumers			10.07	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			0.01	Demand from embedded generation at 11kV level
		Sales at 11 kV level			10.08	
		Quantum of Losses at 11 kV			0	
		Energy input at 11 kV level			12.70	
		ii	11 kV Level			

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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	
iv	> 33 kV	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
		Gross border sale of energy		0	
		Sale to other DISCOMs		0	
		Banking		0	
		Energy Input at > 33kV Level		9	
		Sales at 66kV and above (EHV)		0	
		Total Energy Requirement		12.8091	
		Total Energy Sales		12.55	

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	2.73	2.47	0.259	
ii	11 Kv	12.70	10.08	0	
iii	33 kv	0	0	0	
iv	> 33 kv	8.706	0	0.00	0
6	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	0.25879
D loss	0.259
T&D loss (%)	2.02
D loss (%)	2.02

** 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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(Details of Feeder-wise losses)

Period from 1st Jan 2025 to 31st March 2025

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/Agricultural)	Type of Feeder meter (AMI/AMR/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 (If Feeder AMR/AMI)	Remarks
1	GOPA	0.1	NA	NA	Willingdon Island	K01A	MNC	Urban	AMI	0.1	Not recorded	0				be calculated since the distribution network is
2	GOPA	1.0	NA	NA	Willingdon Island	K16	NTR KY	Urban	AMI	1.0	Not recorded	0				06
3	GOPA	1.8	NA	NA	Willingdon Island	3	OP 1	Urban	AMI	1.8	Not recorded	0				06
4	GOPA	1.1	NA	NA	Willingdon Island	4	OP2	Urban	AMI	1.1	Not recorded	0				06
5	GOPA	1.3	NA	NA	Willingdon Island	5	M02	Urban	AMI	1.3	Not recorded	0				06
6	GOPA	0.6	NA	NA	Willingdon Island	9	UTL	Urban	AMI	0.6	Not recorded	0				06
7	GOPA	0.4	NA	NA	Willingdon Island	10	OP3	Urban	AMI	0.4	Not recorded	0				06
8	GOPA	0.7	NA	NA	Willingdon Island	11	SSR	Urban	AMI	0.7	Not recorded	0				06
9	GOPA	0.0	NA	NA	Willingdon Island	12	STN TR	Urban	AMI	0.0	Not recorded	0				06
10	GOPA	1.5	NA	NA	Willingdon Island	K15	PENNA	Urban	AMI	1.5	Not recorded	0				06
11	GOPA	0.1	NA	NA	Willingdon Island	K17	NTR A2	Urban	AMI	0.1	Not recorded	0				06
12	GOPA	0.0	NA	NA	Vallarpadam		MMU-3	Urban	AMI	0.0	Not recorded	0				06
13	GOPA	0.0	NA	NA	Vallarpadam		STN TR	Urban	AMI	0.0	Not recorded	0				06
14	GOPA	0.0	NA	NA	Vallarpadam		ICTT-1	Urban	AMI	0.0	Not recorded	0				06
15	GOPA	2.5	NA	NA	Vallarpadam		ICTT-2	Urban	AMI	2.5	Not recorded	0				06
16	GOPA	1.5	NA	NA	Vallarpadam			Urban	AMI	1.5	Not recorded	0				06
																Minor faulty since previous

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Details of DT wise losses

Period From 1st Jan 2024 to 31st March 2024

Sl No.	Sub-station ID	Feeder ID	Feeder Name	DT Id no.	DT Capacity (kVA)	Predominant consumer type of DT (Domestic/Industrial/Agriculture/Wireless)	Type of metering (Unmetered/AMR/AM/Other)	Status of meter (functional/non-functional)	% of data received automatically (if AMI/AMR)	No. of connected consumers	Input Energy (MU)	Billed Energy (MU)	Loss of Energy (MU)	% Loss	Feeder wise transformer mapping yet to be completed by the DISCOM. Also Feeders are connected in Ring main system. Hence Feeder wise loss assessment is difficult.
			1	2						3	4	5	(6) = (3)-(4)	(7) = (6)/(4)	
1	110 KV Substation Willingdon Island	K01 A	MHC								NR				
2	110 KV Substation Willingdon Island	K16	NTRO KV								NR				
3	110 KV Substation Willingdon Island	3	Q9 1								NR				
4	110 KV Substation Willingdon Island	4	Q92								NR				
5	110 KV Substation Willingdon Island	5	NH2								NR				
6	110 KV Substation Willingdon Island	9	UTL								NR				
7	110 KV Substation Willingdon Island	10	Q93								NR				
8	110 KV Substation Willingdon Island	11	NH1								NR				
9	110 KV Substation Willingdon Island	12	STN TR								NR				
10	110 KV Substation Willingdon Island	K15	PENNA								NR				
11	110 KV Substation Willingdon Island	K17	NTRO A2								NR				
12	Vallarpadam 11 KV Substation		MULT								NR				
13	Vallarpadam 11 KV Substation		RMU-3								NR				
14	Vallarpadam 11 KV Substation		STN TR								NR				
15	Vallarpadam 11 KV Substation		ICT-1								NR				
16	Vallarpadam 11 KV Substation		ICT-2								NR				

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 Exe.

B. Details of Consumer Category-wise Subsidy Billed/Received

B.Details of Consumer Category-wise Subsidy Billed/Received																
Consumer Category (Separate for each subsidized consumer category)	Billed Energy			Subsidized Billed Energy				Applicable rate of Subsidy as notified by State govt.			Subsidy Due from State Govt.			Subsidy Actually Billed / claimed from State Govt. (As against col.12)	Subsidy Received from State Govt. (As against col.13)	Balance Subsidy yet to be Received from State Govt.
	Metered 2	Un-metered* (in kWh) 3	Total 4=2+3	Metered (out of col.2) 5	Un-metered* (out of col.3) (in kWh) 6	Total 7=5+6	Metered Energy** (in Rs./kWh) 8	Un-metered Energy** (in Rs. Cr.) 9	Total 10=8+9	Metered Energy (in Rs. Cr.) 11=5x8	Un-metered Energy (in Rs. Cr.) 12=6x9	Total 13=10+11				
1																
Residential	0.25	0	0.25													
Agricultural	0.00	0	0.00													
Commercial/Industrial- LT	1.39	0	1.39													
Commercial/Industrial- HT	9.45	0	9.45													
Other (Specify)	1.46	0	1.46													
Total	12.55	0	12.55													

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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	1232	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	SUPERITENDING 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 Jan 2025 to 31st March 2025		

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SUPERINTENDING ENGINEER (ELE.)
COCHIN PORT AUTHORITY

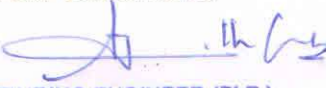
Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st Jan 2025 to 31st March 2025	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	12.81
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	12.81
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	12.55
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.259
		%	2.02
	Collection Efficiency	%	100.00
(c)	Aggregate Technical & Commercial Loss	%	2.02

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

Seal


SUPERINTENDING ENGINEER (E.E.)
COCHIN PORT AUTHORITY
15/5

Signature:-

Name of Energy Manager*:

Registration Number:

Sunilkumar V K

EA 3642

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

Details of Division Wise Losses (See note below*)

Division Wise Losses

Period from 1st Jan 025 to 31st March 2025

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	% 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 consumption	% of energy consumption	T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency %						
1		1	Wellington islands-Vallarpadam	Residential	392	0	392	32%	0	0	0	0%	0.25	0.00	0.00	0.25	2%	0	0	0.18	0.18	100.00%							
				Agricultural	0	0	0	0%	0	0	0	0%	0.00	0.00	0.00	0.00	0%	0	0	0.00	0.00	100.00%							
				Commercial/Industrial-LT	564	0	564	46%	0	0	0	0%	12.809052	1.39	0.00	1.39	11%	0.259	2.02%	10.12	10.12	100.00%							
				Commercial/Industrial-HT	31	0	31	3%	0	0	0	0%	9.45	0.00	0.00	9.45	75%	10.12	10.12	10.12	10.12	100.00%							
				Others	245	0	245	20%	0	0	0	0%	1.46	0.00	0.00	1.46	12%	0	0	1.41	1.41	100.00%							
	Sub-total			1232	0	1232	100%	0	0	0	0	100%	12.809052	12.5503	0	12.55	100%	0.25879	2.020%	13.50	13.50	100.0000%	0.00						

** 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

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Authorised Signatory and Seal

Name of Authorised Signatory:

Name of the DISCOM:

Full Address:

Seal

[Signature]

SUPERINTENDING ENGINEER (ELE.)
COCHIN PORT AUTHORITY

SURESH KUNJAPPA V.K.
Certified Energy Auditor
No. EA 3643

Signature:-
Name of Energy Manager:
Registration Number:

Form-Input energy (Details of Input energy & Infrastructure)			
A. Summary of energy input & Infrastructure			
S.No	Parameters		Remarks (Source of data)
A.1	Input Energy purchased (MU)	12.81	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	0	
A.7	Net input energy (received at DISCOM periphery or at distribution point)-(MU)	12.81	
A.8	Is 100% metering available at 66/33 kV (Select yes or no from list)	Yes	
A.9	Is 100% metering available at 11 kV (Select yes or no from list)	No	
A.10	% of metering available at DT	0%	
A.11	% of metering available at consumer end	100%	
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	15	
A.15	No of LT feeders level	0	
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 (KVA)	Division (KVA)	Sub-Division (KVA)	Feeder ID	Feeder Name	Feeder Status (Metered/Unmetered)	Feeder Metering Status (Functional/Non-functional)	Metering Date of last meter communication	Feeder Type (Agri/Industrial/Mixed)	Status of Communication			Period from...to...		Saves	Remarks (Source of data)					
												% data received through automatic feeder AMR/A MI	Number of hours when meter was unable to communicate in period	Total Number of hours in the period	Import (MU)	Export (MU)							
B.1	CoPA		110KV					AMR			Mixed	0%				12078922	150	8.71	0.00	Input energy at			
B.2	CoPA		11					AMR			Mixed	0%				22001331	40	2.51	0.00				
B.3	CoPA		11					AMR			Mixed	100%				28013883	24	1.48	0.00	New feeder			
B.4	CoPA		0.415								Mixed	0%						0.11	0.00	Embedded energy			
Total (MU)																				12.81	0.00		
B.10021													B.10021										
B.10022													B.10022										
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Color code	Parameter
	Please enter voltage level or leave blank
	Please enter feeder id and name or leave blank
	Enter meter no or leave blank
	Enter C1/PT ratio or leave blank
0	Please enter numeric value or 0
	Please select yes or no from list
	Formula protected

Authorised Signatory and Seal

Name of Authorised Signatory _____
 Name of the DISCOV: _____
 Full Address: _____

Seal