


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 Oct 2024 to 31st December 2024		


SUPERINTENDING ENGINEER (ELE.)
COCHIN PORT AUTHORITY

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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 Oct 2024 to 31st December 2024	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	12.36
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	12.36
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	12.11
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.252
		%	2.04
	Collection Efficiency	%	100.00
(c)	Aggregate Technical & Commercial Loss	%	2.04

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:

Sunilkumar V K
EA 3642

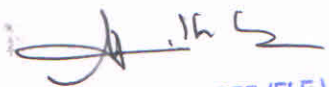
Seal


SUPERINTENDING ENGINEER (ELE.)
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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	12	12	Through AMI meter software for 12 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	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	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
3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	8.31	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	
Power at state transmission boundary	8.31				
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	0		
iv	33 kV	Renewable Energy Procurement	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	3.95		
vi	LT	Renewable Energy Procurement	0		
		Sales Migration Input	0		
vii		Energy Embedded within DISCOM wires network	0.106		
viii		Total Energy Available/ Input	12.36		


 SUPERINTENDING ENGINEER (ELE.)
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4	Voltage level	Energy Sales Particulars	Reference	
i	LT Level	DISCOM' consumers	2.33	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	2.35	
		Quantum of LT level losses	0	
		Energy input at LT level	2.60	
ii	11 kV Level	DISCOM' consumers	9.74	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	0.02	Demand from embedded generation at 11kV level
		Sales at 11 kV level	9.76	
		Quantum of Losses at 11 kV	0	
		Energy input at 11 kV level	12.25	
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.
		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	12.36	
Total Energy Sales	12.11			

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	2.60	2.35	0.252	
ii	11 Kv	12.25	9.76	0	
iii	33 kv	0	0	0	
iv	> 33 kv	8.306	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	0.252
D loss	0.252
T&D loss (%)	2.04
D loss (%)	2.04

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

Division Wise Losses																						
Period From 1st Oct 2024 to 31st December 2024																						
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	Billed energy (MU)				T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency	
													Input energy (MU)	Metered energy	Unmetered/assessment energy	Total energy						
1		1	Wellington Island-Vallarpadam	Residential	396	0	396	32%	0	0	0	0%	12.36	0.21	0.00	0.21	2%	0.252	2.04%	0.14	0.14	100.00%
				Agricultural	0	0	0	0%	0	0	0	0%		0.00	0.00	0.00	0%			0.00	0.00	0.00%
				Commercial/Industrial-LT	562	0	562	46%	0	0	0	0%		1.33	0.00	1.33	11%			1.64	1.64	100.00%
				Commercial/Industrial-HT	31	0	31	3%	0	0	0	0%		9.17	0.00	9.17	76%			9.99	9.99	100.00%
				Others	243	0	243	20%	0	0	0	0%		1.39	0.00	1.39	12%			1.45	1.45	100.00%
				Sub-total	1232	0	1232	100%	0	0	0	100%		12.36	12.11	0	12.11			100%	0.252	2.04%
76	Total			Residential	396	0	396	32%	0	0	0	0%	12.36	0.21	0	0.21	2%	0.252	2.04%	0.14	0.14	100.00%
				Agricultural	0	0	0	0%	0	0	0	0%		0.00	0	0.00	0%			0.00	0.00	0.00%
				Commercial/Industrial-LT	562	0	562	46%	0	0	0	0%		1.33	0	1.33	11%			1.64	1.64	100.00%
				Commercial/Industrial-HT	31	0	31	3%	0	0	0	0%		9.17	0	9.17	76%			9.99	9.99	100.00%
				Others	243	0	243	20%	0	0	0	0%		1.39	0	1.39	12%			1.45	1.45	100.00%
				At company level	1232	0	1232	100%	0	0	0	100%		12.36	12.11	0	12.11			100%	0.252	2.04%

** 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
	Please enter name of circle
	Please enter circle code
0	Please enter numeric value or 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:

[Signature]

Name of the DISCOM: **SUPERINTENDING ENGINEER (ELE.)**
 Full Address: **COCHIN PORT AUTHORITY**

Seal

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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

S.No	Parameters		Remarks (Source of data)
A.1	Input Energy purchased (MU)	12.36	From electricity Bill
A.2	Transmission loss (%)		
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)	12.36	
A.8	Is 100% metering available at 66/33 kV (Select yes or no from list)	No	
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 Metering Status (Metered/unmetered / AMI/AMR)	Status of Meter (Functional/Non-functional)	Metering Date of last actual meter reading/ communication	Feeder Type (Agri/ Industrial/ Mixed)	Status of Communication			Period from...to...				Sales	Remarks (Source of data)		
												% data received through automatic meter reading/ communication	Number of hours when meter was unable to communicate	Total Number of hours in the period	Meter S.No	CT/PT ratio	Import (MU)	Export (MU)				
B.1	CoPA		110 kV					AMR			Mixed	0%				17078922	150		8.31	0.00		Input energy at
B.2	CoPA		11					AMR			Mixed	0%				22001331	40		2.34	0.00		
B.3	CoPA		11					AMI			Mixed	100%				13013883	24		1.61	0.00		New feeder
B.4	CoPA		0.415								Mixed	0%						0.11	0.00		Embedded energy	
B.1001	Total (MU)																					
B.1002	Net input energy at DISCOM periphery (MU)																		12.36			

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 CT/PT ratio or leave blank
0	Please enter numeric value or 0
	Please select yes or no from list
	Formula protected

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Authorised Signatory and Seal
SUPERINTENDING ENGINEER (ELE.)
 COCHIN PORT AUTHORITY
 Name of Authorised Signatory
 Name of the DISCOM:
 Full Address:-



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

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

B. Embedded Generation in DISCOM Area																
S.No	Name of Generation Station	Generation Capacity (in MW)	Type of Station (Generation Based- Solid/Liquid/Gas/Renewable/Others)	Type of Contract	Type of Grid	Voltage Level (kVA)	Circle Load (MW)	Received at Circle (kVA)	Received at Circle (in MU)	Division Level Load (MW)	Received at Division Level (kVA)	Received at Division Level (in MU)	Sub-Division Level Load (MW)	Received at Sub-Division Level (kVA)	Received at Sub-Division Level (in MU)	Remarks (Source of data)
1		0.15	Solar roof top	Own	Self generate source	0.415			0.0424							
2		0.1	Solar roof top	Own	Self generate source	0.415			0.02135							
3		0.25	DG	Own	Self generate source	0.415			0.000503							
4			roof top solar	From Prosumers	Self generate source	0.415			0.041255							

**SUPERINTENDING ENGINEER (ELE.)
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(Details of Feeder-wise losses)

Period From 1st Oct 2024 to 31st Dec 2024

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/Industrial/Agricultural/Rural)	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	CoPA	0.3	NA	NA	Willingdon Island	K01.A	MNC	Urban	AMI	0.3	Not recorded	0				to be calculated since the distribution network is
2	CoPA	1.1	NA	NA	Willingdon Island	K16	NTR0 KV	Urban	AMI	1.1	Not recorded	0				do
3	CoPA	1.8	NA	NA	Willingdon Island	3	QD 1	Urban	AMI	1.8	Not recorded	0				do
4	CoPA	1.3	NA	NA	Willingdon Island	4	QD2	Urban	AMI	1.3	Not recorded	0				do
5	CoPA	1.2	NA	NA	Willingdon Island	5	MH2	Urban	AMI	1.2	Not recorded	0				do
6	CoPA	0.6	NA	NA	Willingdon Island	9	UTL	Urban	AMI	0.6	Not recorded	0				do
7	CoPA	0.3	NA	NA	Willingdon Island	10	QD3	Urban	AMI	0.3	Not recorded	0				do
8	CoPA	0.4	NA	NA	Willingdon Island	11	ISRF	Urban	AMI	0.4	Not recorded	0				do
9	CoPA	0.0	NA	NA	Willingdon Island	12	STN TR	Urban	AMI	0.0	Not recorded	0				do
10	CoPA	1.3	NA	NA	Willingdon Island	K15	PENNA	Urban	AMI	1.3	Not recorded	0				do
11	CoPA	0.3	NA	NA	Willingdon Island	K17	NTR0A2	Urban	AMI	0.3	Not recorded	0				do
12	CoPA	0.0	NA	NA	Vallarpadam		MULT	Urban	AMI	0.0	Not recorded	0				
13	CoPA	0.0	NA	NA	Vallarpadam		RMO-3	Urban	AMI	0.0	Not recorded	0				
14	CoPA	0.0	NA	NA	Vallarpadam		STN TR	Urban	AMI	0.0	Not recorded	0				
15	CoPA	2.34	NA	NA	Vallarpadam		ICTT-1	Urban	AMI	2.3	Not recorded	0				
16	CoPA	1.6	NA	NA	Vallarpadam		ICTT-2	Urban	AMI	1.6	Not recorded	0				

SUPERINTENDING ENGINEER (ELE.)
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A.Details of DT Level information																	
Division-wise status of DT level metering																	
Period From 1st Oct 2024 to 31st December 2024																	
Zone name	Circle name	Division name	No. of unmetered DTs	No. of DTs With AMR/AMR meter	No. of DTs with non-AMR/AMR Meter	Total no. of DTs	No. of DTs with Functional Meters										
Wellington Island-Vallarpadam	Wellington Island-Vallarpadam	Wellington Island-Vallarpadam	30	0	0	30	0										
Details of DT wise losses																	
Period From 1st October 2024 to 31st December 2024																	
Sl No.	Sub-station ID	Feeder ID	Feeder Name	DT Id no.	DT Capacity (KVA)	Predominant consumer type of DT (Domestic/Industrial/Agriculture/Mixed)	Type of metering (Unmetered/AM/AMR/Other)	Status of meter (functional/non-functional)	% of data received automatically (if AMR/AMR)	No. of connected consumers	Input Energy (MU)	Billed Energy (MU)	Loss of Energy (MU)	% Loss			
			1	2						3	4	5	(6) = (5)-(4)	(7) = (6)/(4)			
1	110 KV Substation Wellington island	K01 A	MNC								NR				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.		
2	110 KV Substation Wellington island	K16	NTRO KV								NR						
3	110 KV Substation Wellington island	3	Q0 1								NR						
4	110 KV Substation Wellington island	4	Q02								NR						
5	110 KV Substation Wellington island	5	MH2								NR						
6	110 KV Substation Wellington island	9	UTL								NR						
7	110 KV Substation Wellington island	10	Q03								NR						
8	110 KV Substation Wellington island	11	MH3								NR						
9	110 KV Substation Wellington island	12	STN TR								NR						
10	110 KV Substation Wellington island	K15	PENNA								NR						
11	110 KV Substation Wellington 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		ICTT-1								NR						
16	Vallarpadam 11 KV Substation		ICTT-2								NR						

SUPERINTENDING ENGINEER (E.L.E.)
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B.Details of Consumer Category-wise Subsidy Billed/Received

Period from Jan 2024 to March 2024 (2 Months)

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	Un-metered*	Total	Metered (out of col.2)	Un-metered* (out of col.3)	Total	Metered Energy**	Un-metered Energy**	Metered Energy	Un-metered Energy	Total	(in Rs. Cr.)	(in Rs. Cr.)	(in Rs. Cr.)	
	(in kWh)			(in kWh)			(in Rs./kWh)			(in Rs. Cr.)			(in Rs. Cr.)	(in Rs. Cr.)	(in Rs. Cr.)
1	2	3	4=2+3	5	6	7=5+6	8	9	10=5x8	11=6x9	12=10+11	13	14	15=13-14	
Residential	0.21	0	0.21	No subsidy claim by the DISCOM			No subsidy rate notification by the Government			No subsidy due from the Government			0	0	0
Agricultural	0.00	0	0.00												
Commercial/Industrial- LT	1.33	0	1.33												
Commercial/Industrial- HT	9.17	0	9.17												
Other (Specify)	1.39	0	1.39												
Total	12.11	0	12.11												

**SUPERINTENDING ENGINEER (ELE)
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