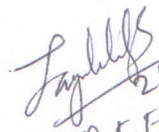


General Information

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)	AJAYAKUMAR R. S		
ii	Designation	EXECUTIVE ENGINEER (ELEC)		
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	0484-2582350/2351	Fax	0484-2666639
6	Energy Manager Details*			
i	Name	JAYALAKSHMY S		
ii	Designation	Asst. Exe. Engineer(Ele)	Whether EA or EM	EM
iii	EA/EM Registration No.	Nil		
iv	Telephone	0484-2582360	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 2023 to 30th September 2023		


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Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st July 2023 to 30th September 2023	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	9.35
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	9.35
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded)	Million kwh	9.15
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.207
		%	2.21
	Collection Efficiency	%	100%
(c)	Aggregate Technical & Commercial Loss	%	2.21%

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 Aul Ajayakumar R.S
Name of the Cochin Port Authority
Full Address W.Island , Cochin -682009, Kerala

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

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



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	
ii	Number of divisions				
iii	Number of sub-divisions				
iv	Number of feeders	15		15	
v	Number of DTs	33		33	1 Through AMI meter soft
vi	Number of consumers	1231		1231	1 No meter is installed 5 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	36	1106
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	36	1195
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	33	0
iv	Number of total Transformers	0	0	33	
c.i.	Number of metered feeders	0	0		0
ii	Number of feeders with communicable meters	0	0	11	0
iii	Number of unmetered feeders	0	0	4	
iv	Number of total feeders	0	0	15	
d.	Line length (ct km)		85		
e.	Length of Aerial Bunched Cables		0		
f.	Length of Underground Cables		155		
3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	6.8996	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	6.8996			
	Long-Term Conventional	0			
	Medium Conventional	0			

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ii	33kV	Short Term Conventional	0		
		Banking	0		
		Long-Term Renewable energy	0	6.8996	EHT
		Medium and Short-Term RE	0	2.379	HT
		Captive, open access input	0	0.076376	Solar
		Sale of surplus power	0.00%	9.3549	Input
		Quantum of intra-state transmission loss	0		
		Power procured from intra-state sources	0		
iii		Input in DISCOM wires network	0.00000		
iv	33 kV	Renewable Energy Procurement	0		
		Small capacity conventional/ biomass/ hydro plants Procurement	0		
		Captive, open access input	0.00000		
v	11 kV	Renewable Energy Procurement			
		Small capacity conventional/ biomass/ hydro plants Procurement	0		
		Sales Migration Input	2.3790		
vi	LT	Renewable Energy Procurement	0.076376		
		Sales Migration Input	0		
vii		Energy Embedded within DISCOM wires network	0		
viii		Total Energy Available/ Input	9.3549260		
4	Voltage level	Energy Sales Particulars		Reference	
i	LT Level	DISCOM' consumers	1.863	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	1.863		
		Quantum of LT level losses	0		
		Energy Input at LT level	**		
ii	11 kV Level	DISCOM' consumers	7.285	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	7.285		
		Quantum of Losses at 11 kV	0		
		Energy input at 11 kV level	0.000		
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	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		

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	Sale to other DISCOMs	0		
	Banking	0		
	Energy input at > 33kV Level	0		
	Sales at 66kV and above (EHV)	0		
	Total Energy Requirement	9.3549260		
	Total Energy Sales	9.1482970		

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	0.0763760	1.863497		
ii	11 Kv	2.37900	7.284800	0	
iii	33 kv	0	0	0	
iv	> 33 kv	6.900	0	0.206629	2.208772148
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	0.207
D loss	0.207
T&D loss (%)	2.208772148
D loss (%)	2.208772148

** 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 e

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Details of Division Wise Losses (See note below)**																							
Division Wise Losses																							
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	% of energy consumption
1		1	Wellington Island-Vallarpadam	Residential	403	0	403	33%	0	0	0	0%	9.354926	0.22	0	0.224018	2%	0.206629	2.21%	0.15	0.15	100.00%	
				Agricultural	0	0	0	0%	0	0	0%	-		0	0	0%	0			0.00	0.00%		
				Commercial/Industrial-LT	494	0	494	40%	0	0	0%	0.90		0	0.902547	10%	1.21			1.21	100.00%		
				Commercial/Industrial-HT	29	0	29	2%	0	0	0%	6.75		0	6.7481818	74%	7.53			7.53	100.00%		
				Others	305	0	305	25%	0	0	0%	1.27		0	1.2735498	14%	1.17			1.17	100.00%		
Sub-total					1231	0	1231	100%	0	0	0	100%	9.354926	9.148297	0	9.1482966	100%	0.206629	2.21%	10.05	10.05	100.00%	#####
Sub-total					0	0	0	100%	0	0	0	100%	0	0	0	0	100%	0	0%	0	0	0.00%	100%
76	Total			Residential	403	0	403	33%	0	0	0	0%	9.354926	0.224018	0	0.224018	2%	0.206629	2.21%	0.14542434	0.14542434	100.00%	
				Agricultural	0	0	0	0%	0	0	0%	0		0	0	0%	0			0	0.00%		
				Commercial/Industrial-LT	494	0	494	40%	0	0	0%	0.902547		0	0.902547	10%	1.20776112			1.20776112	100.00%		
				Commercial/Industrial-HT	29	0	29	2%	0	0	0%	6.748182		0	6.7481818	74%	7.53108308			7.53108308	100.00%		
				Others	305	0	305	25%	0	0	0%	1.27355		0	1.2735498	14%	1.16531181			1.16531181	100.00%		
At company level					1231	0	1231	100%	0	0	0	100%	9.354926	9.148297	0	9.1482966	100%	0.206629	2.21%	10.0495803	10.0495803	100.00%	2.21%

** 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: *R.S. AJAYAKUMAR*
 Name of the DISCOM: *EE (E&D) NO*
 Full Address:-

Signature:-
 Name of Energy Manager:
 Registration Number:
SUNIL KUMAR V.K
 Certified Energy Auditor
 Reg. No. EA 3642



Seal

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)	9.354326	From electricity bill
A.2	Transmission loss (%)	0	
A.3	Transmission loss (kWh)	0	
A.4	Energy sold outside the periphery (MU)	0	
A.5	Open access sale (MU)	0	
A.6	Exit sale	0	
A.7	Net input energy (received at DISCOM periphery or at distribution point) (MU)	6.89	
A.8	Is 100% metering available at 66/11 kV (Select yes or no from list)	100%	
A.9	Is 100% metering available at 11 kV (Select yes or no from list)	0	
A.10	% of metering available at 0T	0	
A.11	% of metering available at consumer end	0	
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	0	
A.15	No of LT feeders seen	0	
A.16	Line length (ckt km) at 66kV voltage level	0	
A.17	Line length (ckt km) at 33kV voltage level	15	
A.18	Line length (ckt km) at 11kV voltage level	0	
A.19	Line length (ckt km) at LT level	0	
A.20	Length of Aerial Bunched Cables	0	
A.21	Length of Underground Cables	85	
A.22	H1/L1 ratio	10%	
		0	
		85	

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/AMR/ANB)	Status of Meter (Functional/Non-Functional)	Metering Date (Date of last actual meter reading/communication)	Feeder Type (Agr/Bdr/Mixed)	Status of Communication				Total Number of hours in the period	Meter S.No	Period from...		Sales	Remarks (Source of data)															
												% data received through portal/meter/IV	Number of hours when meter was unable to	Import (MU)	Export (MU)			CT/PT ratio	Import (MU)			Export (MU)														
B.1			110/11	NA	NA	R01A	AMC	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.2						K16	N710 KV	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.3						3	Q9.1	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.4						4	Q92	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.5						5	MH2	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.6						9	LT1	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.7						9	LT1	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.8						10	Q93	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.9						11	MH1	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.10						12	STN TR	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.11						K15	PTANA	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.12						K17	WTKA2	AMR	Functional	30-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.13							MULTI(MU.1)	AMR	Functional	01-06-2023	Mixed	100%	0	0	0	0	0	0	0																	
B.14							ACTT				Mixed			0	0	0	0	0	0																	
B.15							STN TR				Mixed				0	0	0	0	0																	
B.1000							rmu NO.3				Mixed				100%																					
B.1001											Mixed				100%																					
B.1002											Mixed				100%																					
Total (MU)																																				
Net input energy at DISCOM periphery (MU)																																				
																6.89	0.00																			
																6.89																				

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

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
 Name of Authorized Signatory: **R.S. AJAJAKUMAL**
 Name of the DISCOM:
 Full Address:
 Seal: **Office of the Dy. Chief Mechanical Engineer (Elec) COCHIN PORT AUTHORITY, COCHINS**
24 NOV 2023
 24 NOV 2023
 24 NOV 2023
 24 NOV 2023

Signature:
 Name of Energy Manager:
 Registration Number:
SUNIL KUMAR V.K
 Certified Energy Auditor
 Reg. No. EA 3642

Period From 1st July 2023 to 30th September 2023

SI 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)
						K01 A	MNC			
1	CoPA	0.06	NA	NA	Willingdon Island			Urban	AMI	0.061
2	CoPA	1.29	NA	NA	Willingdon Island	K16	NTRO KV	Urban	AMI	1.286
3	CoPA	0.81	NA	NA	Willingdon Island	3	Q9 1	Urban	AMI	0.813
4	CoPA	1.47	NA	NA	Willingdon Island	4	Q92	Urban	AMI	1.469
5	CoPA	0.40	NA	NA	Willingdon Island	5	MH2	Urban	AMI	0.400
6	CoPA	0.78	NA	NA	Willingdon Island	9	UTL	Urban	AMI	0.777
7	CoPA	0.81	NA	NA	Willingdon Island	10	Q93	Urban	AMI	0.813
8	CoPA	0.00	NA	NA	Willingdon Island	11	MH3	Urban	AMI	0.000
9	CoPA	0.02	NA	NA	Willingdon Island	12	STN TR	Urban	AMI	0.023
10	CoPA	0.61	NA	NA	Willingdon Island	K15	PENNA	Urban	AMI	0.605
11	CoPA	0.64	NA	NA	Willingdon Island	K17	NTRO A2	Urban	AMI	0.638
12	CoPA		NA	NA	Vallarpadam		MULT RMU NO.1			
13	CoPA		NA	NA	Vallarpadam		ICTT			
14	CoPA		NA	NA	Vallarpadam		STN TR			
15	CoPA		NA	NA	Vallarpadam		rmu NO.3			

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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
Not recorded	0				*Feder wise losses could not be calculated since the distribution network is connected to RMU. Also DTR metering not complete.
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do
Not recorded	0				do

English
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 AEECE/10