



**Greenserve Energy**

Management Solutions

*Endless in Optimization*

Registration Number: D-DURG-159/2016-17

Phone Number : 9752531330, 9098148400

Email-id : greenserve.energy@gmail.com

To,

Chief Mechanical Engineer

Cochin Port Authority,

W.Island,

Cochin-682009

Subject: Submission of signed periodic Accounting Form for Quarters -1&2 of 2022-23.

Dear Sir,

Please find the signed periodic Accounting Form for Quarters -1&2 of 2022-23 in accordance with Scope of work and as per the Bureau of energy efficiency regulations for manner and intervals for conduct of energy audit in electricity distribution companies ( Vide Bureau of energy efficiency notification dated 6<sup>th</sup> Oct 2021)

For Greenserve Energy Management Solutions,

N.Ponraja,


Greenserve Energy  
Management Solutions  
Durg (C.G.)

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		
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)		
ii	Designation	Deputy Chief Mechanical 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	0484-2582350/2351	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	0484-2382360	Fax 0484-2666639
v	Mobile	9496450704	E-mail ID <a href="mailto:jayalakshmi@cochinport.gov.in">jayalakshmi@cochinport.gov.in</a>
7	Period of Information		
	Year of (FY) information including Date and Month (Start & End)	1st April 2022 to 30th June 2022	

Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st April 2022 to 30th June 2022	
2	<b>Technical Details</b>		
(a)	<b>Energy Input Details</b>		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	10.11
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	10.11
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	9.79
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	0.32
		%	3.13
	Collection Efficiency	%	100%
(c)	Aggregate Technical & Commercial Loss	%	3%

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 At Ajayakumar R.S  
Name of th Cochin Port Authority  
Full Addre: W.Island , Cochin -682009, Kerala

Signature:-  
Name of Energy Manag  
Registration Number:

  
N. Ponraja  
CEA-24097

Seal

### 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	yes	
ii	Number of divisions				
iii	Number of sub-divisions				
iv	Number of feeders	15	15		
v	Number of DTs	36	36		1
vi	Number of consumers	1219	1219		1
<b>2</b>	<b>Parameters</b>	<b>66kV and above</b>	<b>33kV</b>	<b>11/22kV</b>	<b>LT</b>
a. i.	Number of conventional metered consumers	0	0	0	0
ii	Number of consumers with 'smart' meters	0	0	34	1185
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	<b>Number of total consumers</b>	0	0	34	1185
b.i.	Number of conventionally metered Distribution Transformers	0	0	34	1185
ii	Number of DTs with communicable meters	0	0	0	0
iii	Number of unmetered DTs	0	0	36	0
iv	<b>Number of total Transformers</b>	0	0	36	0
c.i.	Number of metered feeders	0	0	0	0
ii	Number of feeders with communicable meters	0	0	11	0
iii	Number of unmetered feeders	0	0	4	
iv	<b>Number of total feeders</b>	0	0	15	
d.	Line length (ct km)		85		
e.	Length of Aerial Bunched Cables		0		
f.	Length of Underground Cables		155		
<b>3</b>	<b>Voltage level</b>	<b>Particulars</b>	<b>MU</b>	<b>Reference</b>	<b>Remarks (Source of data)</b>
i	66kV and above	Long-Term Conventional	7	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		

		<b>Power at state transmission boundary</b>	7	
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	0.00%	
		Quantum of intra-state transmission loss	0	
				<b>Power procured from intra-state sources</b>
iii		<b>Input in DISCOM wires network</b>	7	
iv	33 kV	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	3	
vi	LT	Renewable Energy Procurement	0.071088	
		Sales Migration Input	0	
vii		<b>Energy Embedded within DISCOM wires network</b>	2.720638	
viii		<b>Total Energy Available/ Input</b>	10.10619	
4	<b>Voltage level</b>	<b>Energy Sales Particulars</b>	<b>MU</b>	<b>Reference</b>
i	LT Level	DISCOM' consumers	2	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	2	
		Quantum of LT level losses	1	
		Energy Input at LT level	3	
ii	11 kV Level	DISCOM' consumers	8	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
		<b>Sales at 11 kV level</b>	8	
		Quantum of Losses at 11 kV	0	
		Energy input at 11 kV level	7	
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
		<b>Sales at 33 kV level</b>	0	
		Quantum of Losses at 33 kV	0	
		Energy input at 33kV Level	0	

iv	> 33 kV	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	0	
		Sales at 66kV and above (EHV)	0	
		<b>Total Energy Requirement</b>	<b>10.10619</b>	
<b>Total Energy Sales</b>	<b>9.78958</b>			

**Energy Accounting Summary**

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	0	2.720638		
ii	11 Kv	1.9134	7.385550		
iii	33 kv	0	0		
iv	> 33 kv	7.8761	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
T&D loss (%)	3.132862757
D loss (%)	3.132862757



		Commercial/Industrial-LT	0	0	0	#DIV/0!	0	0	0	0	0	0	#DIV/0!	0	0%	0	0	0.00%			
		Commercial/Industrial-HT	0	0	0	#DIV/0!	0	0	0	0	0	0	#DIV/0!	0	0%	0	0	0.00%			
		Others	0	0	0	#DIV/0!	0	0	0	0	0	0	#DIV/0!	0	0%	0	0	0.00%			
		Sub-total	0	0	0	100%	0	0	0	100%	0	0	0	100%	0%	0	0	0.00%			
76	Total	Residential	448.6666667	0	448.6666667	37%	0	0	0	0%	10.106	0.241836	0	0.241836	2%	0.316425	3%	0.17160664	0.17160664	100.00%	
		Agricultural	0	0	0	0%	0	0	0	0%		0	0	0	0%			0	0	0.00%	
		Commercial/Industrial-LT	553.3333333	0	553.3333333	45%	0	0	0	0%		0.951981	0	0.951981	10%			1.27545059	1.27545059	100.00%	
		Commercial/Industrial-HT	27	0	27	2%	0	0	0	0%		7.365408	0	7.365408	75%			7.95708405	7.95708405	100.00%	
		Others	189.6666667	0	189.6666667	16%	0	0	0	0%		1.23035	0	1.23035	13%			1.09693232	1.09693232	100.00%	
77	At company level		1218.666667	0	1218.666667	100%	0	0	0	100%	10.106	9.789575	0	9.789575	100%	0.316425	3%	10.5010736	10.5010736	100.00%	3%

\*\* 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

Signature:-  
Name of Energy Manager:  
Registration Number:

Name of Authorised Signatory:

Name of the DISCOM:  
Full Address:-

Seal



75	Commercial/Industrial-LT	0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0%	0	0	0.00%
	Commercial/Industrial-HT	0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0%	0	0	0.00%
		0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0%	0	0	0.00%
										0	0%	0	0%	0	0%	0	0	0.00%
										0.17160664	0	0.241836	7%	0	0%	0.17160664	0.17160664	100.00%
										0	0%	0	0%	0	0%	0	0	0.00%
										7.255	0	208408	75%	0.316425	3%	107545059	127545059	100.00%
										7.95768405	0	208408	75%			7.95768405	7.95768405	100.00%
										1.09691232	0	208408	75%			1.09691232	1.09691232	100.00%
										10.5010736	0	208408	75%	0.316425	3%	10.5010736	10.5010736	100.00%

Commercial/Industrial category of a highly polluting in the state government. The value of energy supplied to each category of load is calculated by multiplying the energy supplied to each of such category of load by the respective weightage of the load category.

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

We warrant the accuracy of the information provided in this statement. If any of the information provided is found to be incorrect and such information results 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  
*[Signature]*  
Date: 19/11/23

Name of Authorised Signatory:  
Name of the DISCOM:  
Full Address:-

Signature:  
Name of Energy Manager: N. Panraje  
Registration Number: CEA-24097

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8.1394																		
8.1395																		
8.1396																		
8.1397																		
8.1398																		
8.1399																		
8.1400																		
8.1001	Total (MU)															7.37	0.00	
8.1002	Net input energy at DISCOM periphery (MU)																	7.37

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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Authorized Signatory and Seal

Name of Authorized Signatory  
Name of the DISCOM:  
Full Address:-

Seal

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







(Details of Consumers)						
Summary of Energy						
Period From 1st April 2022 To July 2022....						
S.No	Type of Consumers	Category of Consumers (EHT/HT/LT/Others)	Voltage Level (In Voltage)	No of Consumers	Total Consumption (In MU)	Remarks (Source of data)
1	Domestic	LT	240/415	445	0.241836	
2	Commercial	LT	240/415	113	0.478148	
3	IP Sets	0				
4	Hor. & Nur. & Coffee/Tea & Rubber (Metered)	0				
5	Hor. & Nur. & Coffee/Tea & Rubber (Flat)	0				
6	Heating and Motive Power	0				
7	Water Supply	0				
8	Public Lighting	LT	415	3	0.002595	
9	HT Water Supply	0				
10	HT Industrial	HT	11 kV	1	0.094268	
11	Industrial (Small)	LT	415	2	0.00646	
12	Industrial (Medium)	0				
13	HT Commercial	HT	11 kV	26	7.27114	
14	Applicable to Government Hospitals & Hospitals	0				
15	Lift Irrigation Schemes/Lift Irrigation Societies	0				
16	HT Res. Apartments Applicable to all areas	0				
17	Mixed Load		11 kV/415 V	543	0.921859	
18	Government offices and department	Ht/LT	11 kV/415 V	86	0.773269	
19	Others-1 (if any , specify in remarks)					
20	Others-2 (if any , specify in remarks)					
21	Others-3 (if any , specify in remarks)					
22	Others-4 (if any , specify in remarks)					
23	Others-5 (if any , specify in remarks)					
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						

38						
39						
40						
			<b>Total</b>	1219	9.79	



**(Details of Feeder-wise losses)**

Period From 1st April 2022 To July 2022....

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 (AM/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		8.56	0	0		K01A	MNC	Urban	AMI	0.073868						Feder wise losses could not be
						K16	NTR0 KV			0.908578						
						3	Q3 1			1.99086						
						4	Q92			1.1664						
						5	MH2			0.185266						
						9	UTL			0.788612						
						10	Q93			0.472348						
						11	MH3			0						
						12	STN TR			0.016245						
						K15	PENNA			1.321664						
						K17	NTR0 A2			0.446954						
							MULT RMU NO.1									
							ICTT									
							STN TR									
							rmu NO.3									

**A.Details of DT Level information****Division-wise status of DT level metering**

Period From 1st April 2022 to 30th June 2022

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	46		46	46										

**Details of DT wise losses**

Period From 1st April 2022 to 30th June 2022

