



BUREAU OF ENERGY EFFICIENCY



Examination Registration No. : EA-15189

Accreditation Registration No.: AEA-0244

Certificate of Accreditation

This is to certify that Mr./Ms. Chandra Kumar having its trade/registered office at Chennai has been given accreditation as accredited energy auditor. The certificate shall be effective from ..18th... day of December 2015


The certificate is subject to the provisions of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

This certificate shall be valid until it is cancelled under regulation 9 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010

On cancellation, the certificate of accreditation shall be surrendered to the Bureau within fifteen days from the date of receipt of order of cancellation.

Your name has been entered at AEA No. 0244 in the register of list of accredited energy auditors. Your name shall be liable to be struck out on the grounds specified in regulation 8 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

Given under the seal of the Bureau of Energy Efficiency, Ministry of Power, this 12th day of January 2016


Secretary,
Bureau of Energy Efficiency
New Delhi


Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mertupalayam Taluk,
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EA 15189

Energy Auditors
U Chandra Kumar
A Sampath Kumar

Observed Implementation AY 2019-20

Details of energy efficiency improvement measures implemented, investment made and savings in energy achieved and progress made in the implementation of other recommendations

Implemented

S.No	Description of Energy Efficiency Improvement Measures	Category	Investment	Verified Money savings	Verified Energy savings	Unit in kWh	remarks
			(Lakhs INR)	(in Lakhs INR)	(in kWh)		
1	UNDER STUDY						

Under implementation as declared by clients-AY 2019-20

S.No	Description of energy efficiency improvement measures	Category	Investment	Proposed Money savings	Proposed energy savings	Unit in lac KWH	Status of implementation
			(lac INR)	(in Lakhs INR)	(in kWh)		
1	Replacement of resistive fan regulators with SCR regulators		30000.00	0.05	500	500	Under progress



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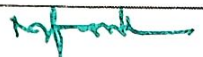
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Observation on recommended energy savings (AY 2019-20)

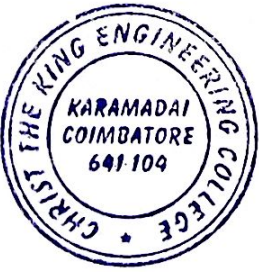
Details of action taken on recommendation of pre assessments by consultant for improving energy efficiency

S.No	Energy efficiency improvement measures (suggested categories of areas of energy efficiency improvement for obtaining details of energy savings)	Investment in INR lacs	Reason for not implementing of measures/ likely completion	life cycle years	Annual energy savings in INR lacs				
					oil	gas	coal	electricity	others
1	Replaced wired chokes with electronic chokes	0.50	Pandemic lock down	5					

Signature : 
 Name of Authorized person : **DR. M. JEYAKUMAR**
 Client Name : **CHRIST THE KING ENGINEERING**


 Energy Auditor
 EA-15189
 Signature OF EA

1. Estimate the predicted life of measure, meaning the number of years the level of first year energy savings of even larger account will materialize
2. Life of commercial units of liters, kg, tones, normal cubic meter, KWH or MWH and indicate the unit, indicate the anticipated potential in energy savings



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Observed Implementation AY 2020-21

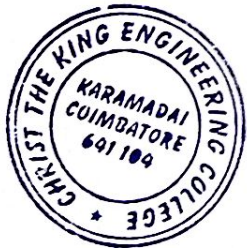
Details of energy efficiency improvement measures implemented, investment made and savings in energy achieved and progress made in the implementation of other recommendations

Implemented

S.No	Description of Energy Efficiency Improvement Measures	Category	Investment	Verified Money savings (in Lakhs INR)	Verified Energy savings (in kWH)	Unit in kWH	remarks
			(Lakhs INR)				
1	4CW Tube lights replaced with 16W LED -50 Nos	Lighting	0.4	0.244	3600	3600	From April 2017 to March 2018

Under implementation as declared by clients-2020-21

S.No	Description of energy efficiency improvement measures	Category	Investment	Proposed Money savings (in Lakhs INR)	Proposed energy savings (in kWH)	Unit in Lac KWH	Status of implementation
			(lac INR)				
1	Covid pandemic and no implementation						



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Observation on recommended energy savings (AY 2020-21)

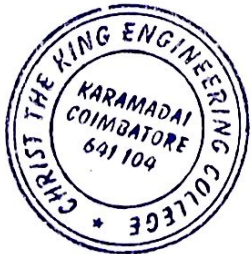
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S.No	Energy efficiency improvement measures(suggested categories of areas of energy efficiency improvement for obtaining details of energy savings)	Investment in INR lacs	Reason for not implementing of measures/ likely completion	life cycle years	Annual energy savings in INR lacs				
					oil	gas	coal	electricity	others
1	Installation of Solar water heater in Hostel	2.8	Recommended						
2	Replacement of fluorescent tube lights with CFL Lamps in classrooms	0.875	Recommended						
3	Installation of UPS batteries	2.15	Recommended						

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Client Name : CHRIST THE KING ENGINEERING


U. CHANDRAKUMAR
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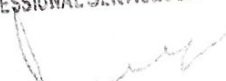
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Observed Implementation-AY 2021-22

Details of energy efficiency improvement measures implemented, investment made and savings in energy achieved and progress made in the implementation of other recommendations

Implemented

S.No	Description of Energy Efficiency Improvement Measures	Category	Investment	Verified Money savings	Verified Energy savings	Unit in kWH	remarks
			(Lakhs INR)	(in Lakhs INR)	(in kWH)		
1	40W Tube lights replaced with 20W CFL – 50 Nos	Lighting	0.4	0.288	3600	3600	From April 2021 to March 2022
2	Solar Water Heater – 500 lt	Water Heating	2.8	0.45	5600	5600	
3	Installation of UPS – 10 KVA	Electrical Energy	2.15	0.096	1200	1200	

Under implementation as declared by clients AY 2021-22

S.No	Description of energy efficiency improvement measures	Category	Investment	Proposed Money savings	Proposed energy savings	Unit in Lac KWH	Status of implementation
			(lac.INR)	(in Lakhs INR)	(in kWH)		
1	Solar Water Heater – 500 lt * 2	Water Heating	5.6	0.9	1120	1120	Under Progress in a phased manner
2	Installation of UPS – 10 KVA	Electrical Energy	2.15	0.096	1200	1200	



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Observation on recommended energy savings (AY 2021-22)

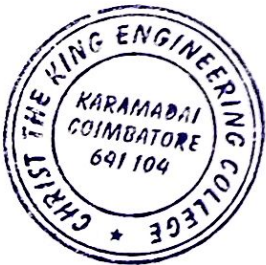
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					oil	gas	coal	electricity	others	
1	Installation of Solar water heater in Canteen	2.8	Recommended	15	Not applicable					
2	Replacement of fluorescent tube lights with CFL Lamps in classrooms	0.875	Recommended	7						
3	Replacement of SV lamp (street lights) with tube lights		Recommended	7					1120	
4	Installation of UPS batteries	2.15	Recommended	5					1200	

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Observed Implementation-2022-23

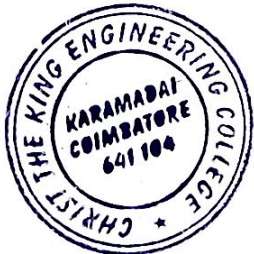
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Implemented

S.No	Description of Energy Efficiency Improvement Measures	Category	Investment	Verified Money savings	Verified Energy savings	Unit in kWH	remarks
			(Lakhs INR)	(in Lakhs INR)	(in kWH)		
1	40W Tube lights replaced with 20W CFL-25 Nos	Lighting	0.2	0.144	1800	1800	From April 2022 to March 2023
2	Solar Water Heater - 500 Lt x 2	Water Heating	5.4	0.9	1120	1120	
3	Installation of UPS - 10 KVA	Electrical Energy	2.15	0.096	1200	1200	

Under implementation as declared by clients-2022-23

S.No	Description of energy efficiency improvement measures	Category	Investment	Proposed Money savings	Proposed energy savings	Unit in Lac KWH	Status of implementation
			(lac INR)	(in Lakhs INR)	(in kWH)		
1	Solar Water Heater - 500 Lt * 1	Water Heating	2.8	0.9	1120	1120	Under Progress in a phased manner
2	Installation of UPS - 10 KVA	Electrical Energy	2.15	0.096	1200	1200	



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Observation on recommended energy savings (as on Nov 2022-23)

Details of action taken on recommendation of pre assessments by consultant for improving energy efficiency

S.No	Energy efficiency improvement measures(suggested categories of areas of energy efficiency improvement for obtaining details of energy savings)	Investment in INR lacs	Reason for not implementing of measures/ likely completion	life cycle years	Annual energy savings in INR lacs				
					oil	gas	coal	electricity	others
1	Replacement of Tube lights & CFL Lamps with LED lights in classrooms & admin block	1.25	Recommended	7	Not applicable			0.876	
2	Replacement of SV lamp (street lights) with LED lights	0.8	Recommended	7	Not applicable			0.085	
3	Installation of UPS batteries	2.15	Recommended	5	Not applicable			0.120	

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Observed Implementation-2023-24

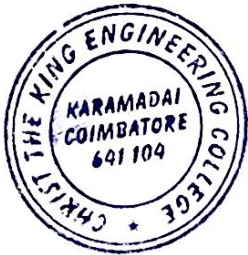
Details of energy efficiency improvement measures implemented, investment made and savings in energy achieved and progress made in the implementation of other recommendations

Implemented

S.No	Description of Energy Efficiency Improvement Measures	Category	Investment	Verified Money savings (in Lakhs INR)	Verified Energy savings (in kWH)	Unit in kWH	remarks
			(Lakhs INR)				
1	Installation of LED tube lights in place of Florescent tube lights in Main Block – 120 nos	Electrical Energy	0.54	0.384	3840	3840	From April 2023 to March 2024
2							
3							

Under implementation as declared by clients-2023-24

S.No	Description of energy efficiency improvement measures	Category	Investment	Proposed Money savings (in Lakhs INR)	Proposed energy savings (in kWH)	Unit in Lac KWH	Status of implementation
			(lac INR)				
1	Installation of LED tube lights in place of Florescent tube lights in Main Block – 100 nos	Electrical Energy	0.45	0.32	3200	3200	Implementation under progress



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Observation on recommended energy savings (2023-24)

Details of action taken on recommendation of pre assessments by consultant for improving energy efficiency

S.No	Energy efficiency improvement measures (suggested categories of areas of energy efficiency improvement for obtaining details of energy savings)	Investment in INR lacs	Reason for not implementing of measures/ likely completion	life cycle years	Annual energy savings in INR lacs					
					oil	gas	coal	electricity	others	
1	Replacement of CFL Lamps with LED lights in classrooms – 120 nos out of 22C completed and 100 nos in progress	1.00	More than 50% activity completed and balance in progress. A/C replacement in progress	7	NOT APPLICABLE				0.704	
2	Replacement of Window A/c to Energy efficient inverter A/c – 2 nos	1.0		8					0.768	
3	Replacement of old electric fans with BLDC fans phase 1 labs	0.90		10					0.752	

Signature : 
Name of Authorized person : Dr. M. JEYAKUMAR
Client Name : CHRIST THE KING ENGINEERING


U. CHANDRA KUMAR
Energy Auditor
EA-15189
Signature of EA

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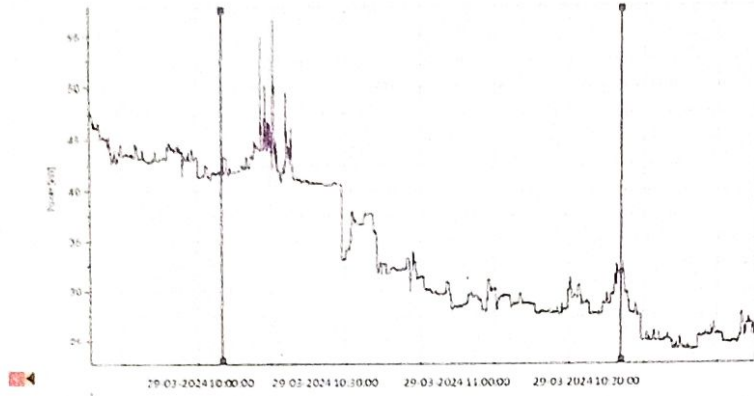


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ENERGY STUDY

A. RMS POWER OVERVIEW TABLE



Graph options

Y-axis: P (W)

A Max Min

B Show Limit

C

Total

PF (1)

A Min

B Show Limit

C

Total

Time range

1 Hour 2h 10m 5d 1y

1 Day

1 Week

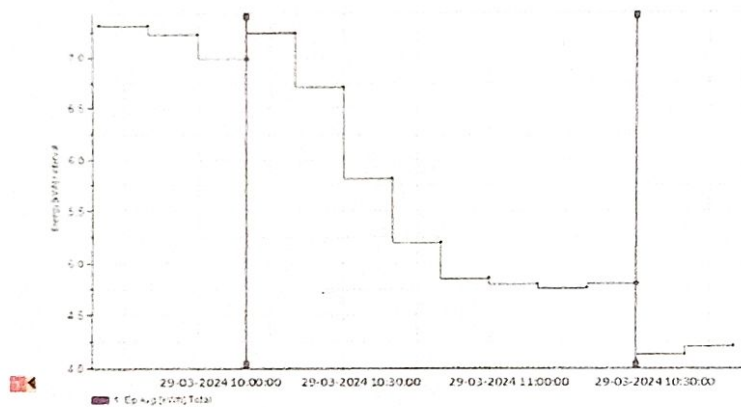
Individual

Net time range

Begin: 29-03-2024 10:00:00

End: 29-03-2024 11:30:00

B. DEMAND



Graph options

Y-axis: Ep (kWh)

A (cumulative)

B Show Limit

C

Total

PF (1)

A Min

B Show Limit

C

Total

Time range

1 Hour 2h 10m 5d 1y

1 Day

1 Week

Individual

Net time range

Begin: 29-03-2024 10:00:00

End: 29-03-2024 11:30:00

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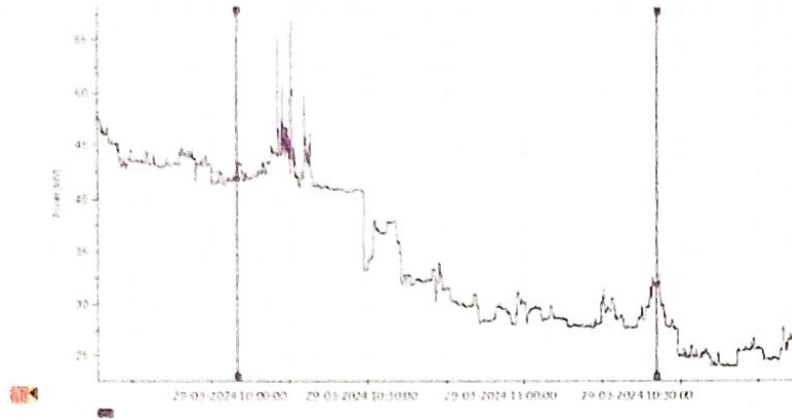
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C. FUNDAMENTAL POWER



Graph options

Y: Power (kW)

Legend:

Power (kW) Fund Total

A Min Max Show Limit

B Show Limit

C

DPF (1) Avg

A Min Max Show Limit

B Show Limit

C

Total

Time Range

1 Hour (29-01-2024)

1 Day

1 Week

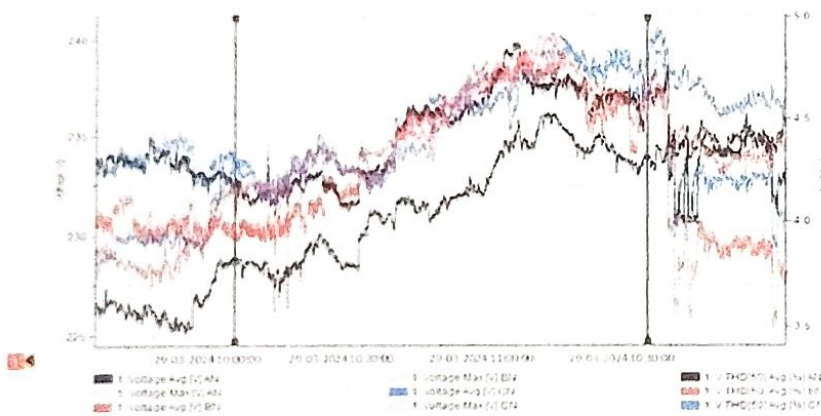
Individual

Set time range

Begin: 29-01-2024 10:00:00

End: 29-03-2024 10:30:00

D. V, A, HARMONICS



Graph options

Y: Voltage (V)

Legend:

Volt (V) Avg Total

A Min Max Show Limit

B Show Limit

C

V THD (1) Avg

A Min Max Show Limit

B Show Limit

C

Time Range

1 Hour (29-01-2024)

1 Day

1 Week

Individual

Set time range

Begin: 29-01-2024 10:00:00

End: 29-03-2024 10:30:00

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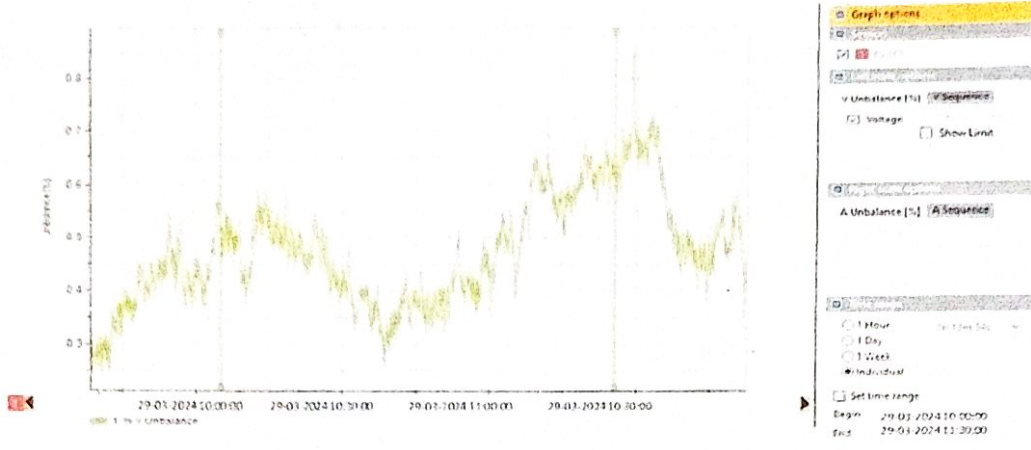
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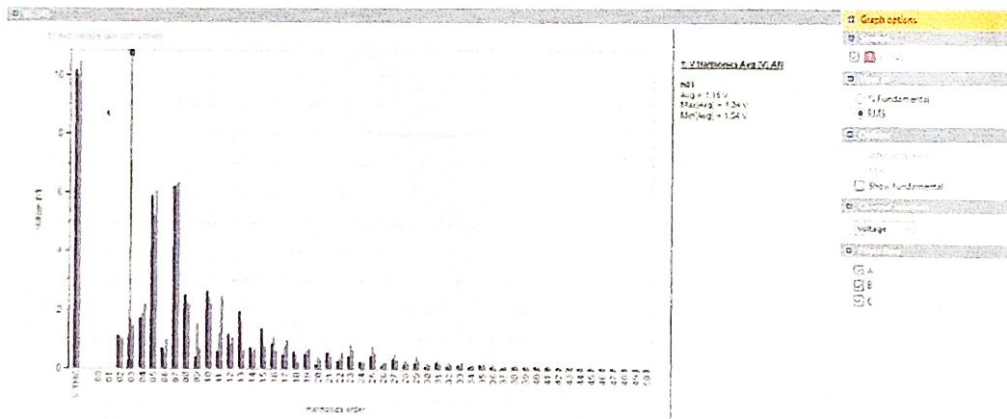
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E. UNBLANCE



Power Quality Study

F. Voltage harmonics



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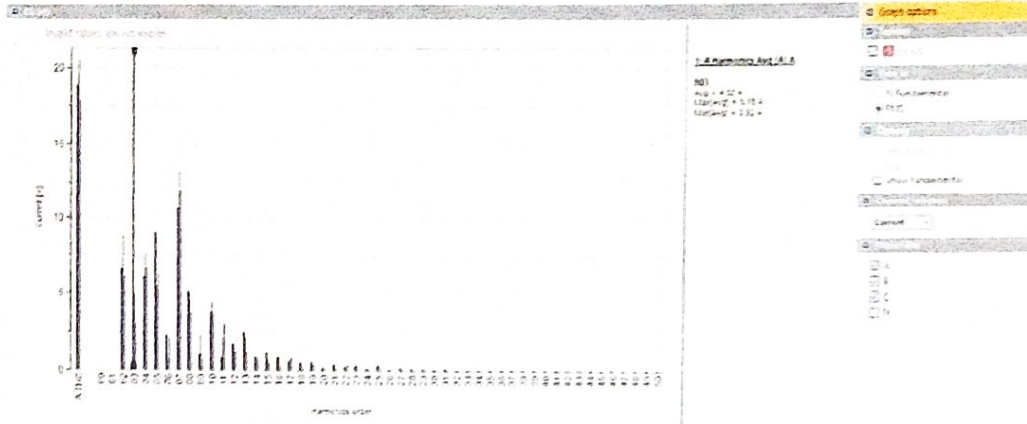
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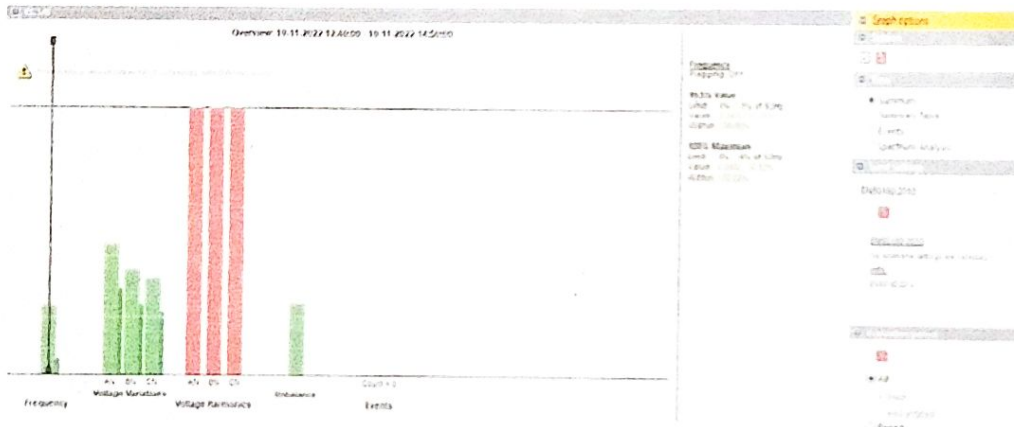
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G. Current Harmonics



H. Power Quality Health



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THERMAL IMAGING STUDY OF SUBSTATION

IR PHOTOS ON REAL TIME

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Inspected By:
U Chandra Kumar
A Sampath Kumar
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Inspection Date:	29 March 2024 10:26:37 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dew Point (inside):		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



AT000733.IS2



Visible Light Image

For SUBARNAS PROFESSIONAL SERVICES LLP



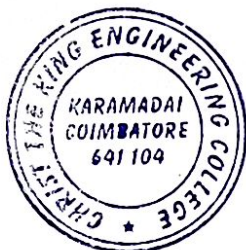

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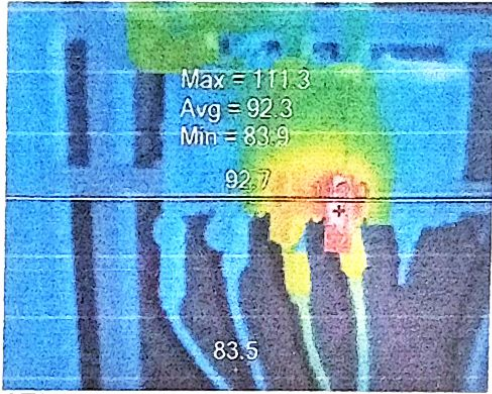



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Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.

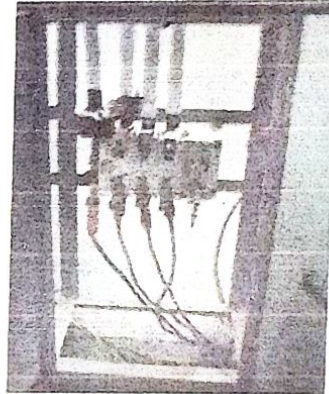


Inspected By:
U Chandra Kumar
A Sampath Kumar
EA 15189

Inspection Date:	29 March 202410:26:58 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dew Point (inside):		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



AT000734.IS2



Visible Light Image

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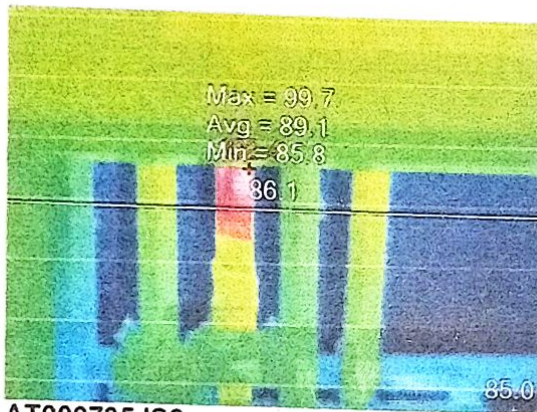


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Inspected By:
 U Chandra Kumar
 A Sampath Kumar
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Inspection Date:	29 March 2024 10:27:28 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dew Point (inside):		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



AT000735.IS2



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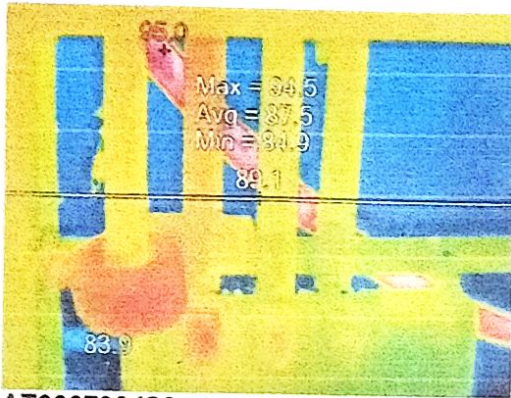


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Inspected By:
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Inspection Date:	29 March 2024 10:27:57 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dcw Point (inside):		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



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Visible Light Image

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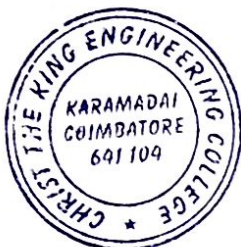


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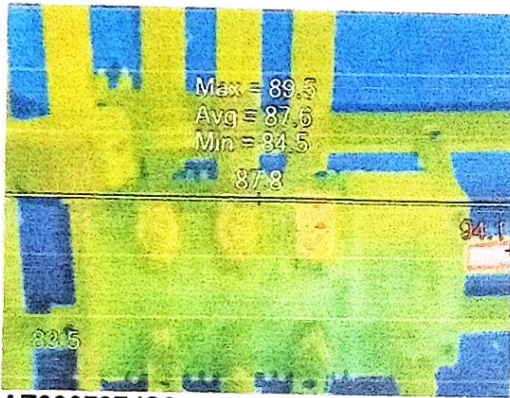


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Inspected By:
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A Sampath Kumar
EA 15189

Inspection Date:	29 March 2024 10:28:20 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dew Point (inside):		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



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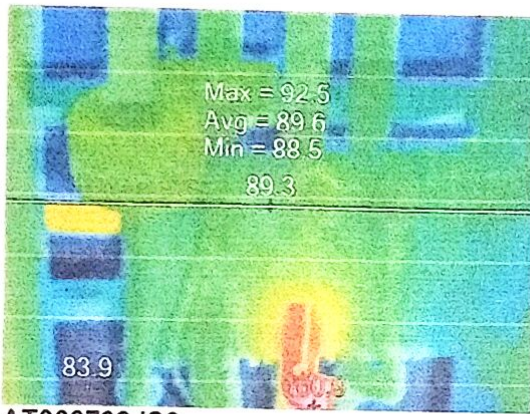


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Inspected By:
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Inspection Date:	29 March 2024 10:29:00 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dew Point (inside):		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



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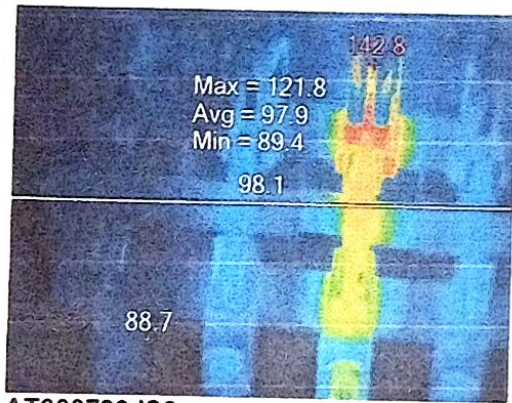


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Inspected By:
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 A Sampath Kumar
 EA 15189

Inspection Date:	29 March 2024 10:29:49 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dew Point (inside):		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



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Visible Light Image

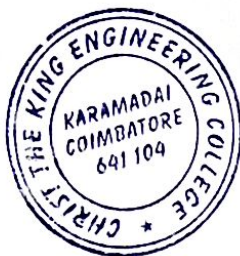


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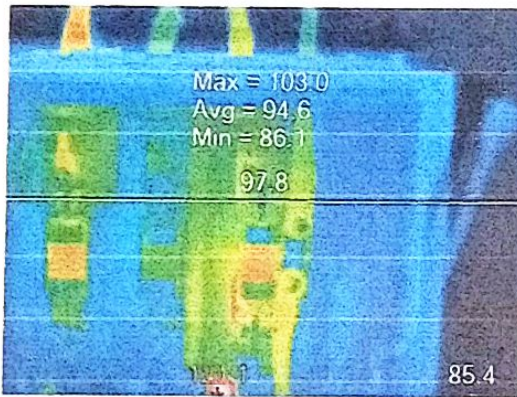


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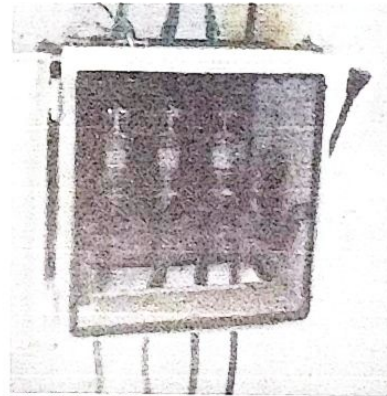


Inspected By:
U Chandra Kumar
A Sampath Kumar
EA 15189

Inspection Date:	29 March 2024 10:30:28 AM	Area	
Location		Compass	
Description		Weather Conditions:	
Indoor Air Temperature		Outdoor Air Temperature	
Indoor Relative Humidity:		Outdoor Relative Humidity:	
Dew Point (inside).		Wind Speed	
Problem		Repair Priority:	
Emissivity:	0.95	Reflected Temperature:	71.6 °F
Camera Manufacturer	Fluke Thermography	Camera:	Ti400-14110349



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