



पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(भारत सरकार का उद्यम)
POWER SYSTEM OPERATION CORPORATION LIMITED
(A Govt. of India Enterprise)



दक्षिण क्षेत्रीय भार प्रेषण केंद्र, 29, रेस कोर्स क्रॉस रोड, बेंगलूर - 560 009

दूरभाष : कार्यालय : 080-2225 0047, 2235 2850, 2225 4525, 2225 1169, 2225 5962 फैक्स : 080 2226 8725, 2225 9219

CIN No. : U40105DL2009GOI188682

Southern Regional Load Despatch Centre, 29 Race Course Cross Road, Bangalore - 560 009

Tel : Off : 080 2225 0047, 2235 2850, 2225 4525, 2225 1169, 2225 5962 Fax : 080 2226 8725, 2225 9219 Website : www.srlcdc.org / www.posoco.in

संदर्भ संख्या / Ref. No.

दिनांक / Date :

संदर्भ/Ref : एसआरएलडीसी/मास/2018

दिनांक /Date : 03/08/2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. T.Madhu Malar, a student of M.E- Power System Engineering in Thiagarajar College of Engineering, has completed her project work from 11/06/2018 to 31/07/2018 at Power System Operation Corporation Ltd., (A Government of India Enterprise), Southern Regional Load Dispatch Centre under the guidance of Smt. Jane Jose, DGM (SO-II-Protection) and Smt. Arthi Sahay Rones V, Sr. Engineer (SO-II-Protection).

She has worked on the project entitles "MATLAB based Program for detection of LFO using FFT and Power Spectral Density (PSD)"

[K Palaniappan]
DGM(HR)

03/08/18

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project done by
Ms. G.DHIVYA (Reg.No. 16K006) of Fourth Semester M.E (*Power
Systems Engineering*) during the year 2018.

P. S. Manoharan

Dr. P.S.Manoharan 18/04/18

Associate Professor,

Department of Electrical & Electronics Engg.

(Guide)

S. Baskar

Dr.S.Baskar

Professor & Head,

Department of EEE

Station: Madurai

Date: 05.4.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on 25.5.2018.

P. S. Manoharan

04/05/18

INTERNAL EXAMINER

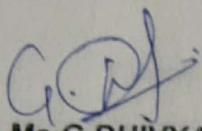
A. S. Manoharan
25/5/18

EXTERNAL EXAMINER

f. H.D.E.E.
f. H.D.E.E.

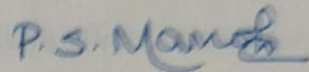
BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project Report entitled "*MODEL REFERENCE ADAPTIVE CONTROLLER FOR MULTI-LEVEL QUASI Z SOURCE INVERTER*", being submitted by *G. DHIVYA* in partial fulfillment for the requirement of *M.E DEGREE IN POWER SYSTEM ENGINEERING* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Ms.G.DHIVYA

(REG.NO. 16K06)



Dr. P.S.MANOCHARAN

(GUIDE)

Station: Madurai

Date: 18/09/2018

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by **G.SURIYA PRIYA** (Reg.No. 16K022) of Forth Semester M.E (*Power System Engineering*) during the year 2017-2018.

M. Geethanjali
Dr.M.Geethanjali 25.4.2018

Assistant Professor

Department of Electrical & Electronics Engg.
(Guide)

S. Baskar
Dr.S.Baskar

Professor & Head,

Department of EEE

Station: Madurai

Date: 25.04.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 02.05.2018.

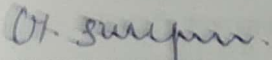
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INTERNAL EXAMINER

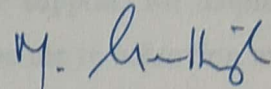
[Signature] 21/5/18
EXTERNAL EXAMINER

[Signature]
H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the **14PS410 Project –II** Report entitled "*A Novel Interconnected Distance Protection Scheme for Multiple Distributed Generation System*", being submitted by **G.SURIYA PRIYA** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


G.SURIYA PRIYA
(Reg.No. 16K022)

 25.4.2018
Dr.M.GEETHANJALI
(GUIDE)

Station: Madurai

Date: 25.04.2018

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by
Ms. J. KEERTHANA (Reg.No. 16K13) of Fourth Semester M.E (*Power
System Engineering*) during the year 2017-2018.

Dr.K.SELVI

Associate Professor
Department of EEE
(Guide)

Dr.S.BASKAR

Professor & Head,
Department of EEE

Station: Madurai

Date:

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on 21/5/18.

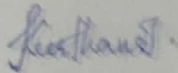
INTERNAL EXAMINER

EXTERNAL EXAMINER

H.D.E.E.

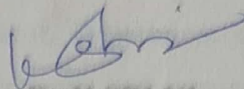
BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Load frequency Control of Multi-Area Power Systems with Wind turbines in Deregulated Environment*", being submitted by *J.KEERTHANA* in partial fulfillment for the requirement of *M.E. Degree in Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Ms. J.KEERTHANA

(Reg.No. 16K13)



Dr K.SELVI

(GUIDE)

Station: Madurai

Date: 26/6/2018

THIAGARAJAR COLLEGE OF ENGINEERING

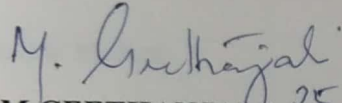
(An Autonomous Institution Affiliated to Anna University)

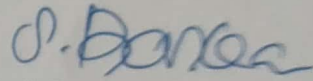
MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project - II done by **G.KAVYA** (Reg. No. 16K12) of Fourth Semester M.E (*Power System Engineering*) during the year 2017-2018.

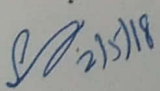

Dr. M. GEETHANJALI 25.4.2018
Assitant Professor
Department of Electrical & Electronics Engg.
(Guide)

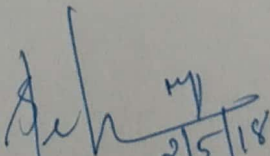

Dr. S. Baskar
Professor & Head,
Department of EEE

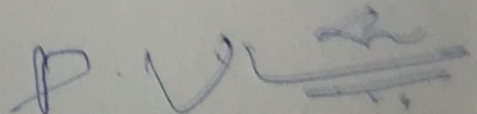
Station: Madurai

Date: 25.04.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 02-05-2018.

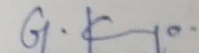

INTERNAL EXAMINER


EXTERNAL EXAMINER

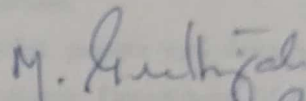

H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*An Adaptive PMU-based Wide Area Backup Protection scheme for transmission lines*", being submitted by *G.KAVYA* in partial fulfillment for the requirement of *M.E. Degree in Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


Ms. G.Kavya

(Reg. No. 16K12)


Dr. M.Geethanjali 25.4.2018
(GUIDE)

Station: Madurai

Date:

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II *done by*
M. SHARANYA (Reg.No. 16K019) of Fourth Semester M.E. (*Power System*
Engineering) during the year 2017-2018.

M. Geethanjali
Dr. M. Geethanjali

Assistant Professor

Department of Electrical & Electronics Engg.

(Guide)

P. Baskar
Dr.S. Baskar

Professor & Head

Department of EEE

Station: Madurai

Date: *25.04.2018*

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on *02.05.2018*.

P. V. 25/5/18
INTERNAL EXAMINER

P. V. 25/5/18
EXTERNAL EXAMINER

P. V. 25/5/18
H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the I4PS410 Project-II Report entitled "*Adaptive Protection Scheme for Microgrid with Multiple DG Systems*", being submitted by *M. SHARANYA* in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

M. Sharanya

M. SHARANYA

(Reg.No. 16K019)

Station: Madurai

Dr. M. Geethanjali 25.4.18

Dr. M. GEETHANJALI

(GUIDE)

Date: 25.04.2018

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

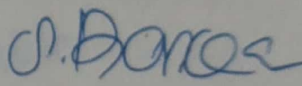
Certified that this is a bonafide record of the 14PS410 Project-II done by **Mr. G.R.HEMANTH** (Reg.No. **16K010**) of Fourth Semester M.E (*Power System Engineering*) during the year 2017-2018.


Dr. S.CHARLES RAJA

(Assistant Professor)

Department of Electrical & Electronics Engineering.

(Guide)


Dr.S.BASKAR

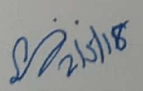
Professor & Head,

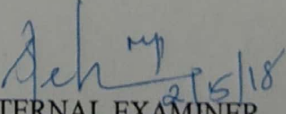
Department of EEE

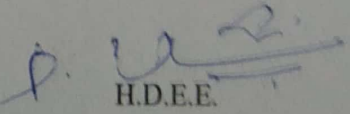
Station: Madurai

Date: 25/04/2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 02/05/2018.


INTERNAL EXAMINER


EXTERNAL EXAMINER


H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the **14PS410** Project -II Report entitled "*Intelligent Demand Side Management in Smart Grid*", being submitted by **G.R.HEMANTH** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

G.R. Hemanth

Mr. G.R.HEMANTH

(Reg.No. **16K010**)

S. Charles Raja

Dr. S.CHARLES RAJA

(GUIDE)

Station: Madurai

Date: *23/4/18*

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by
Ms.A.AKSHAYA PREETHI (Reg.No. 16K02) of Fourth Semester M.E
(*Power System Engineering*) during the year 2017-2018.


Dr.S.CHARLES RAJA

Assistant Professor

Department of EEE

(Guide)


Dr.S.BASKAR

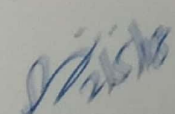
Professor & Head,

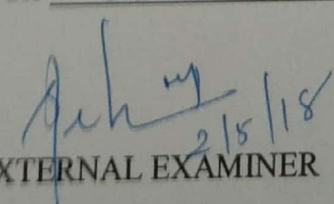
Department of EEE

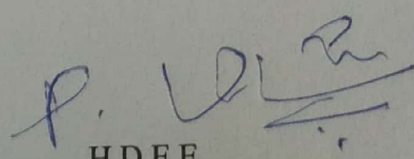
Station: Madurai

Date: 25/04/18

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on 02-05-2018.


INTERNAL EXAMINER


EXTERNAL EXAMINER


H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project –II Report entitled "*Optimal Scheduling of Plug-in Hybrid Electric Vehicle Integrated in a Distribution System*", being submitted by **A.AKSHAYA PREETHI** in partial fulfillment for the requirement of **M.E. Degree** in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Ms.A.AKSHAYA PREETHI

(Reg.No. 16K02)



Dr.S.CHARLES RAJA

(GUIDE)

Station: Madurai

Date: 25/4/18

THIAGARAJAR COLLEGE OF ENGINEERING

(A Govt. Aided Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by **Mr. R. GOKUL** (Reg.No. **16K08**) of Fourth Semester M.E (**Power System Engineering**) during the year 2017-2018.

Dr V.SARAVANAN

(Associate Professor)

Department of Electrical & Electronics Engg.

(Guide)

Dr.S.BASKAR

Professor & Head,

Department of EEE

Station: Madurai

Date: 25-04-2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 02.05.2018.

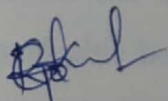
INTERNAL EXAMINER

EXTERNAL EXAMINER

H.D.E.E.

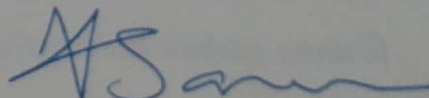
BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Determination of Steady State Operating Conditions for Doubly Fed Induction Generator (DFIG) Based Wind Farms*", being submitted by **R.GOKUL** in fulfilment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Mr. R.GOKUL

(Reg.No. 16K08)



Dr.V. SARAVANAN

(GUIDE)

Station: Madurai

Date: 25/04/2018

THIAGARAJAR COLLEGE OF ENGINEERING

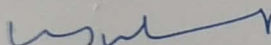
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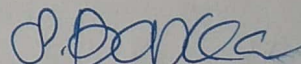
MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by **Mr.S.M. YAZEER**(Reg.No. **16K024**) of Fourth Semester M.E (*Power System Engineering*) during the year 2017-2018.

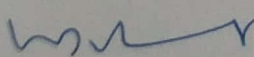

Dr.V.SURESH KUMAR
Associate Professor
Department of Electrical & Electronics Engg.
(Guide)

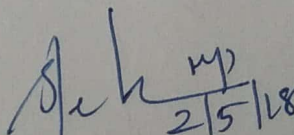

Dr.S.BASKAR
Professor & Head,
Department of EEE

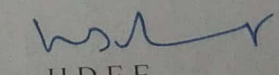
Station: Madurai

Date: 25/7/18

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on _____.

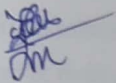

INTERNAL EXAMINER


EXTERNAL EXAMINER


H.D.E.E.
i

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*POWER QUALITY ANALYSIS IN VARIOUS LIGHTING SYSTEM*", being submitted by *S.M.YAZEER* in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Mr. S.M.YAZEER
(Reg.No. 16K024)



Dr. V.SURESH KUMAR
(GUIDE)

Station: Madurai

Date: 25/4/18

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by
Mr. M.MOHAMED UMAR RAJA (Reg.No. 16K16) of Fourth Semester
M.E (*Power System Engineering*) during the year 2017-2018.

Dr. S.BASKAR

Professor

Department of Electrical & Electronics Engg.
(Guide)

Dr.S.Baskar

Professor & Head,

Department of EEE

Station: Madurai

Date:

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on _____.

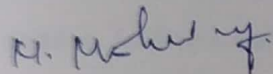
INTERNAL EXAMINER

EXTERNAL EXAMINER

H.D.E.E.

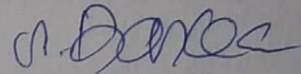
BONAFIDE CERTIFICATE

This is to certify that the **14PS410** Project –II Report entitled “*Optimal Storage Planning in Active Distribution Network with Considering Uncertainty of Wind Power Distributed Generation*”, being submitted by **M. Mohamed Umar Raja** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Mr. M. MOHAMED UMAR RAJA

(Reg.No. 16K16)



Dr. S. BASKAR

(GUIDE)

Station: Madurai

Date:

THIAGARAJAR COLLEGE OF ENGINEERING

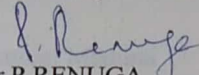
(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by **Mr. B.PANDIMEENA** (Reg.No. 16K017) of Fourth Semester M.E (*Power System Engineering*) during the year 2017-2018.


Dr.P.RENUGA

(Associate Professor)

Department of Electrical & Electronics Engg.

(Guide)


Dr.S.Baskar

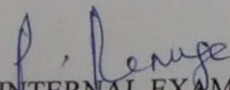
Professor & Head,

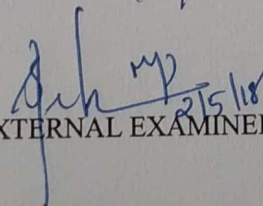
Department of EEE

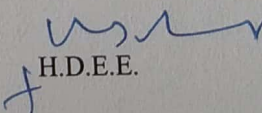
Station: Madurai

Date: 25/04/2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 21/5/18.


INTERNAL EXAMINER


EXTERNAL EXAMINER


H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Analysis of three phase solar PV integrated UPQC*", being submitted by *B.PANDIMEENA* in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

B. Pandimeena
Mr.B.PANDIMEENA
(Reg.No. 16K017)

P. Renuga
Dr.P.RENUGA
(GUIDE)

Station: Madurai

Date: 25/04/2018

THIAGARAJAR COLLEGE OF ENGINEERING

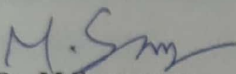
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MADURAI – 625 015



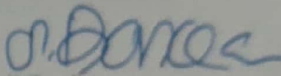
CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by D.M.SURIYA DEVI(Reg.No. 16K021) of Fourth Semester M.E (*Power System Engineering*) during the year 2017-2018.


Dr. M. Saravanan

Professor

Department of Electrical & Electronics Engg.
(Guide)


Dr. S. Baskar

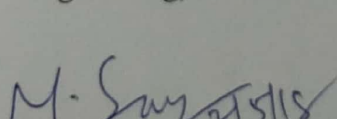
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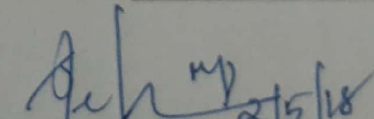
Department of EEE

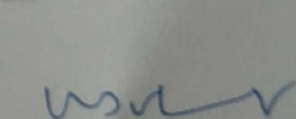
Station: Madurai

Date: 25/4/18

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on May-2nd-2018.

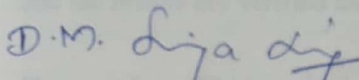

INTERNAL EXAMINER


EXTERNAL EXAMINER


H.D.E.E.

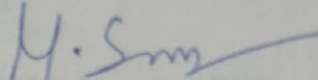
BONAFIDE CERTIFICATE

This is to certify that the **14PS410** Project -II Report entitled "*Application Of PV Solar Farm As STATCOM Using Damping and Fuzzy Logic Controllers For Increasing Grid Power Transmission Limits*", being submitted by **D.M SURIYA DEVI** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Ms. D.M. SURIYA DEVI

(Reg.No. 16K021)

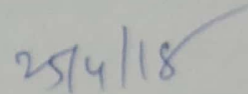


Dr. M.SARAVANAN

(GUIDE)

Station: Madurai

Date:



THIAGARAJAR COLLEGE OF ENGINEERING

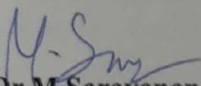
(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

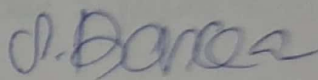
Certified that this is a bonafide record of the 14PS410 Project-II done by **RV.PRATHIBA** (Reg.No. 16K018) of Fourth Semester M.E (*Power Systems Engineering*) during the year 2017-2018.


Dr.M.Saravanan

Professor

Department of EEE

(Guide)


Dr.S.Baskar

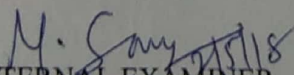
Professor & Head,

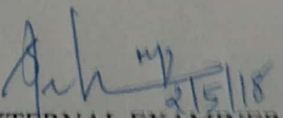
Department of EEE

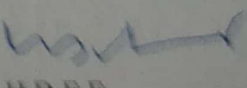
Station: Madurai

Date: 26/4/2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 2/5/18.


INTERNAL EXAMINER


EXTERNAL EXAMINER


HDEE

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Efficiency improvement in Bidirectional Grid-Tied Converter*", being submitted by **RV.PRATHIBA** in partial fulfillment for the requirement of M.E. Degree in *Power Systems Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

RV. Prathiba

Ms. RV.PRATHIBA

(Reg. No. 16K018)

M. Saravanan

Dr. M.SARAVANAN

(GUIDE)

Station: Madurai

Date: 26/4/2018

THIAGARAJAR COLLEGE OF ENGINEERING

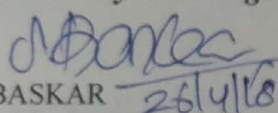
(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by **Mr. M.MOHAMED UMAR RAJA** (Reg.No. 16K16) of Fourth Semester M.E (*Power System Engineering*) during the year 2017-2018.


Dr. S.BASKAR

Professor

Department of Electrical & Electronics Engg.

(Guide)


Dr.S.Baskar

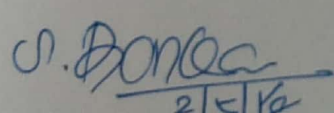
Professor & Head,

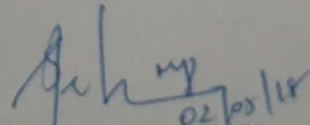
Department of EEE

Station: Madurai

Date: 26.04.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 02.05.2018.


INTERNAL EXAMINER


EXTERNAL EXAMINER


H.D.E.E.

DECLARATION

This is to certify that the 16K16 Project - II Report entitled "*Optimal Storage Planning in Active Distribution Network with Considering Uncertainty of Wind Power Distributed Generation*", being submitted by *M. Mohamed Umar Raja* is partial fulfillment to the requirement of *M.E. Degree in Power System Engineering* is a result of original work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

M. Mohamed Umar Raja

Mr. M. MOHAMED UMAR RAJA

(Reg.No. 16K16)

S. Rajkumar

Dr. S. RAJKUMAR

(GUIDE)

Station: Madurai

Date: 24.04.2018

THIAGARAJAR COLLEGE OF ENGINEERING

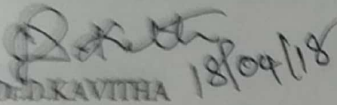
(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

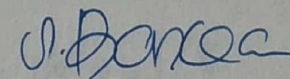
Certified that this is a bonafide record of the 14PS410 Project-II done by
Ms.S.VIJAYALAKSHMI (Reg.No. 16K023) of Fourth Semester M.E (Power
System Engineering) during the year 2017-2018.


D.D.KAVITHA

Assistant Professor

Department of Electrical & Electronics Engg.

(Guide)



Dr.S.Baskar

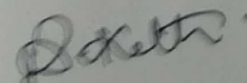
Professor & Head,

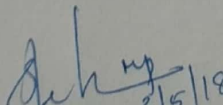
Department of EEE

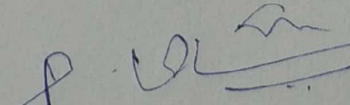
Station: Madurai

Date: 26.04.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on 02.05.2018.

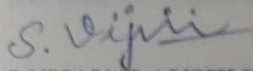

INTERNAL EXAMINER


EXTERNAL EXAMINER

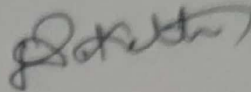

H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project – II Report entitled "*Optimal Phasor Measurement Units and Channels Placement for Smart Grid Applications*" being submitted by *S.VIJAYALAKSHMI* in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


S.VIJAYALAKSHMI

(Reg.No. 16K023)



DR.D.KAVITHA

(GUIDE)

Station: Madurai

Date: 18/04/18

THIAGARAJAR COLLEGE OF ENGINEERING

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MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by Ms. M. HEMAMALINI (Reg.No. 16K009) of Fourth Semester M.E. (Power System Engineering) during the year 2017-2018.

Dr. P. Venkatesh

Associate Professor

Department of Electrical & Electronics Engg.

(Guide)

Dr. S. Baskar

Professor & Head,

Department of EEE

Station: Madurai

Date: 02 - 05 - 2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 2nd May 2018.

INTERNAL EXAMINER

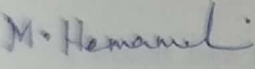
25/5/18

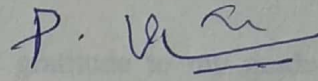
EXTERNAL EXAMINER

H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the **14PS410** Project –II Report entitled “*Agent based decentralised Load flow computation of Distribution system in Smart Grid*”, being submitted by **M.HEMAMALINI** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


Ms. M. HEMAMALINI
(Reg.No. 16K009)


Dr. P. VENKATESH
(GUIDE)

Station: Madurai

Date: 17/04/18

THIAGARAJAR COLLEGE OF ENGINEERING

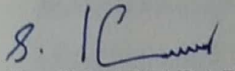
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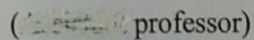
MADURAI – 625 015



CERTIFICATE


Certified that this is a bonafide record of the 14PS410 Project - II done by **M.MAHASATHYAVTHI** (Reg. No. 16K014) of Fourth Semester M.E (*Power System Engineering*) during the year 2017-2018.


Dr. N.KAMARAJ

(, professor)

Department of Electrical & Electronics Engg.

(Guide)


Dr.S.Baskar

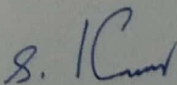
Professor & Head,

Department of EEE

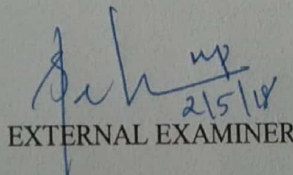
Station: Madurai

Date: 25/4/18

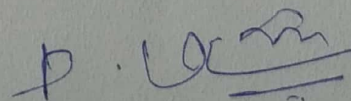
Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 2/5/18.



INTERNAL EXAMINER


2/5/18

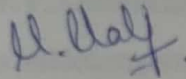
EXTERNAL EXAMINER



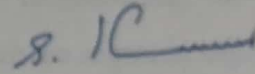
H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project – II Report entitled "*AGC FOR MULTI AREA POWER SYSTEM*", being submitted by *M.MAHASATHYAVATHI* in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



M.MAHASATHYAVATHI
(Reg. No. 16K014)



Dr .N.KAMARAJ
(GUIDE)

Station: Madurai

Date: 25/4/18

THIAGARAJAR COLLEGE OF ENGINEERING

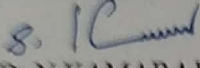
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MADURAI – 625 015



CERTIFICATE

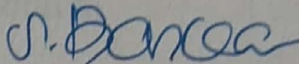
Certified that this is a bonafide record of the 14PS410 Project-II done by **Ms.S.R.SUJITHRA** (Reg.No. 16K020) of Fourth Semester M.E (Power System Engineering) during the year 2017-2018.


Dr.N.KAMARAJ

(Professor)

Department of Electrical & Electronics Engg.

(Guide)



Dr.S.Baskar

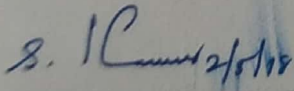
Professor & Head,

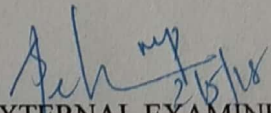
Department of EEE

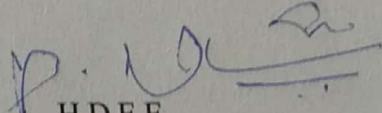
Station: Madurai

Date: 25.04.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 02.05.2018.


INTERNAL EXAMINER


EXTERNAL EXAMINER


H.D.E.E.

BONAFIDE CERTIFICATE

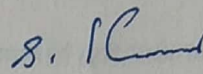
This is to certify that the **14PS410 Project –II** Report entitled "*OPTIMAL DEMAND RESPONSE SCHEDULING IN DISTRIBUTION NETWORK*", being submitted by **S.R.SUJITHRA** in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Ms. S.R.SUJITHRA

(Reg.No. 16K020)

Station: Madurai



Dr N.KAMARAJ

(GUIDE)

Date: 25.04.2018

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by
Ms.S.KABHILAVAISHNAVI (Reg.No. 16K11) of Fourth Semester M.E
(*Power System Engineering*) during the year 2017-2018.

Dr.K.SELVI

Associate Professor

Department of EEE

(Guide)

Dr.S.BASKAR

Professor & Head,

Department of EEE

Station: Madurai

Date: 26/4/2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on 2nd May 2018.

INTERNAL EXAMINER

EXTERNAL EXAMINER

H.D.E.E.

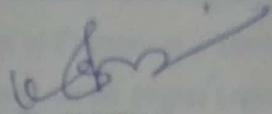
BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Primary Frequency Regulation in Microgrid*", being submitted by *S.KABHILAVAISHNAVI* in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


Ms.S.KABHILAVAISHNAVI

(Reg. No. 16K11)

Station: Madurai


Dr .K.SELVI

(GUIDE)

Date: 26/6/2018

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI - 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS340 Project-II done by Miss. KANNAPEACHI (Reg.No. 16K03) of Fourth Semester M.E (Power System Engineering) during the year 2017-2018.

P.S. Manoharan

Dr.P.S.Manoharan
(Associate Professor)
Department of EEE
(Guide)

18/04/18

D. Baskar

Dr.S.Baskar
Professor & Head,
Department of EEE

Station: Madurai

Date: 25.04.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai - 625 015, on 02.05.2018.

P.S. Manoharan
02/05/18

INTERNAL EXAMINER

A. Chinnappa
21/5/18


EXTERNAL EXAMINER

P. V. Srinivasan

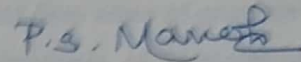
H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14P8340 Project -II Report entitled "*ESTIMATION OF DAILY GLOBAL SOLAR RADIATION IN DIFFERENT CITIES IN TAMILNADU*", being submitted by *V. ANNAPEACHI* in partial fulfillment for the requirement of M.E. Degree in *Power System Engineering* is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.



Miss. V. ANNAPEACHI
(Reg.No.16K03)



Dr. P.S. MANOHARAN
(Associate Professor)

Station: Madurai

Date: 18/09/18

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

Certified that this is a bonafide record of the 14PS410 Project-II done by **Ms. Carmel Devadason J.** (Reg.No. **16K004**) of Fourth Semester M.E. (**Power System Engineering**) during the year 2017-2018.

Dr. S. Baskar

Dr.S.Baskar

Professor & Head

Department of Electrical & Electronics Engg.

(Guide)

Dr. S. Baskar

Dr.S.Baskar

Professor & Head,

Department of EEE

Station: Madurai

Date:

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 21/5/18.

J. Baskar

INTERNAL EXAMINER

A. H. M. 21/5/18

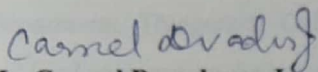
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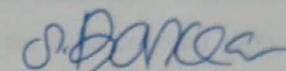
P. V. S.

H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Optimal Reconfiguration of Islanded Microgrids*", being submitted by *Ms. Carmel Devadason J.* in partial fulfillment for the requirement of M.E. Degree in Power System Engineering is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


Ms. Carmel Devadason J.
(Reg.No. 16K004)


Dr S. Baskar
(GUIDE)

Station: Madurai

Date:

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

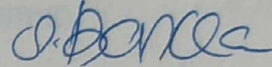
Certified that this is a bonafide record of the 14PS410 Project-II done by *Ms. Carmel Devadason J.* (Reg.No. **16K004**) of Fourth Semester **M.E** (*Power System Engineering*) during the year 2017-2018.


Dr.S.Baskar

Professor & Head

Department of Electrical & Electronics Engg.

(Guide)



Dr.S.Baskar


Professor & Head,

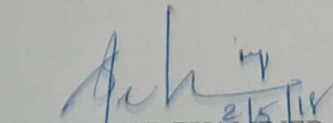
Department of EEE

Station: Madurai

Date:

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering, Madurai – 625 015, on 21/5/2018.

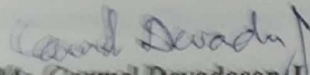

INTERNAL EXAMINER


EXTERNAL EXAMINER

H.D.E.E.

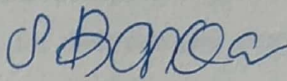
BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Optimal Reconfiguration of Islanded Microgrids*", being submitted by *Ms. Carmel Devadason* in partial fulfillment for the requirement of M.E. Degree in Power System Engineering is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


Ms. Carmel Devadason

(Reg.No. 16K004)

Station: Madurai



Dr S. Baskar

(GUIDE)

Date: 27/4/18

THIAGARAJAR COLLEGE OF ENGINEERING

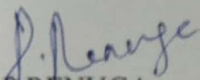
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MADURAI – 625 015



CERTIFICATE


Certified that this is a bonafide record of the ~~14PS410-Project-II~~ done by
Ms.K.AKSHARA(Reg.No. 16K001) of Fourth Semester M.E (Power System
Engineering)during the year 2017-2018.


Dr P.RENUGA

Associate Professor

Department of Electrical & Electronics Engg.

(Guide)


Dr.S.BASKAR

Professor & Head,

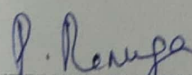
Department of EEE

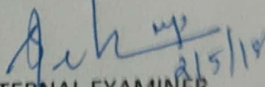
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Date: 25/4/2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of Engineering,

Madurai – 625 015, on 2/5/2018.

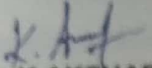

INTERNAL EXAMINER


EXTERNAL EXAMINER



H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "OPTIMAL FUZZY LOGIC PROPORTIONAL INTEGRAL DERIVATIVE CONTROLLER FOR HYDRO-THERMAL SYSTEMS", being submitted by **K.AKSHARA** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


Ms.K.AKSHARA

(Reg.No. 16K001)


Dr .P.RENUKA
(GUIDE)

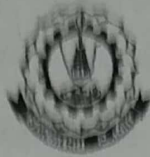
Station: Madurai

Date: 25/4/2018

THIAGARAJAR COLLEGE OF ENGINEERING


(An Autonomous Institution Affiliated to Anna University)

MADURAI - 625 015



CERTIFICATE

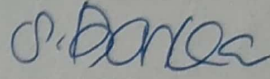
Certified that this is a bonafide record of the 14PS410 Project-II done by
Mr. **M.GANESH BABU** (Reg.No. 16K07) of Fourth Semester M.E (**Power
System Engineering**) during the year 2017-2018.


Dr. D.NELSON JAYAKUMAR

Assistant Professor

Department of Electrical & Electronics Engg.

(Guide)


Dr. S.BASKAR


Professor & Head,

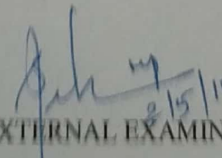
Department of EEE

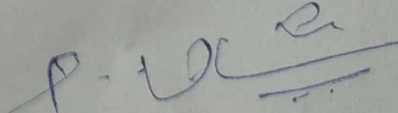
Station: Madurai

Date: 25.04.2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai - 625 015, on 02.05.2018.


INTERNAL EXAMINER

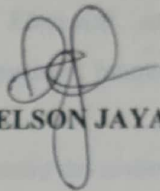

EXTERNAL EXAMINER


H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the 14PS410 Project -II Report entitled "*Optimal Location And Sizing of Renewable Distributed Generations Using Nature Inspired Algorithm*", being submitted by **M.GANESH BABU** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

M. Ganesh Babu.
Mr. M.GANESH BABU
(Reg.No. 16K07)


Dr. D. NELSON JAYAKUMAR
(GUIDE)

Station: Madurai

Date: 25/04/18

THIAGARAJAR COLLEGE OF ENGINEERING

(An Autonomous Institution Affiliated to Anna University)

MADURAI – 625 015



CERTIFICATE

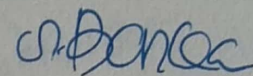
Certified that this is a bonafide record of the 14PS410 Project-II done by
Ms. N. MEENAKSHI (Reg.No. 16K015) of Fourth Semester M.E (Power
System Engineering) during the year 2017-2018.


Dr. D. KAVITHA

Assistant Professor

Department of Electrical & Electronics Engg.

(Guide)



Dr. S. Baskar


Professor & Head,

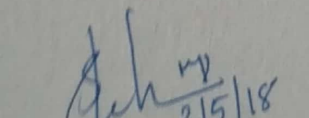
Department of EEE

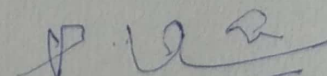
Station: Madurai

Date: 26-04-2018

Submitted for VIVA-VOCE examination held at Thiagarajar College of
Engineering, Madurai – 625 015, on 02-05-2018.

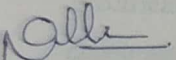

INTERNAL EXAMINER

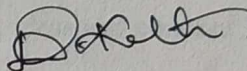

EXTERNAL EXAMINER


H.D.E.E.

BONAFIDE CERTIFICATE

This is to certify that the **14PS410** Project –II Report entitled “*Networked Microgrids for Self-Healing Power Systems*”, being submitted by **N. MEENAKSHI** in partial fulfillment for the requirement of **M.E. Degree in Power System Engineering** is a record of bonafide work. The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.


Ms. N. MEENAKSHI
(Reg.No. 16K015)


Dr .D.KAVITHA
(GUIDE)

Station: Madurai

Date: 18/04/18