

EVALUATION REPORT OF PH.D THESIS

1. Name of student: **NOMULA VENKATESHAM**

2. Ph.D Registration Number: **PHD-2017-18/0004**

3. Department: **PHYSICS**

4. General features of Thesis -

(i) Organization and Presentation is good: YES

(ii) Is the quality of work is of repute? YES

(iii) Does the Thesis has embodied any YES

New ideas with original thoughts?

5. Comments (The examiner may give details on additional sheet(s), if required.)

(i) Corrections for punctuation, grammar, spelling, typographical errors or language:

NONE MINOR(YES) REQUIRE CHANGES

(ii) Technical content of the Thesis:

This chapter discusses the specific outcomes of mathematical modeling for assessing solar irradiance, the design of solar plants, and the techno-economic evaluation of the designed system.

(iii) Highlights and strong/weak points in the Thesis:

Presently, the majority of Indian industries rely on conventional energy sources (fossil fuels) to satisfy their energy needs. Fossil fuels are scarce, polluting, and continually becoming more expensive.

6. Suggestions (The examiner may give details on additional sheets.)

The recent energy crisis and environmental burden are intensifying, necessitating a focus on solar energy use. Topographical variables affect sun oriented energy potential since places closer the equator gets more sun radiation.

The focal point of the ongoing work is on assessing the sun based energy potential with the accompanying objectives: (I) Estimating worldwide sun powered radiation at chose areas in Tamil Nadu; (ii) Estimating meteorological boundaries that influence sun oriented radiation; (iii) Hypothetically extending worldwide sun oriented radiation for the chose areas utilizing models; and (iv) Looking at and measurably breaking down the anticipated and estimated results.

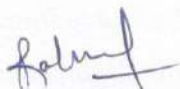
7. Specific Recommendation

(Please cross out any two paras out of the following)

(i) The Thesis is acceptable in the present form. (yes)

(ii) The Thesis is acceptable and the corrections, modifications and improvement suggested by me be incorporated in the Thesis to the satisfaction of the board.

(iii) The Thesis needs major technical improvement/modifications which must be carried out before acceptance.



(Signature of the Examiner)

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Chapter of methodology researcher has used equipments ,materials and methods according to the study of topic, also used bio analytical method for the development that makes the study on point.

(iii) Highlights and strong/weak points in the Thesis:

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Presently, the majority of Indian industries rely on conventional energy sources (fossil fuels) to satisfy their energy needs. Fossil fuels are scarce, polluting, and continually becoming more expensive.

This research has been conducted to present and validate mathematical models of solar radiation mapping. In addition, the technical and economic viability of solar systems, such as the solar photovoltaic system and solar parabolic trough system, are evaluated.

7. Specific Recommendation

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