

# Electrical Transport and Magnetocaloric Properties in Potassium doped Lanthanum Manganites

*Thesis submitted in partial fulfillment of  
the requirement for the award of  
the degree of*

**DOCTOR OF PHILOSOPHY**

*By*

Soma Das



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*To  
My Parents*

*&*

*Swami Nityarupanandaji Maharaj*



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### CERTIFICATE

This is to certify that the thesis entitled "**Electrical Transport and Magnetocaloric Properties in Potassium doped Lanthanum Manganites**" being submitted by **Miss Soma Das**, is a record of bona fide research work carried out by her at Cryogenic Engineering Centre, Indian Institute of Technology, Kharagpur, under my supervision. In my opinion, the work fulfills the requirements for which it is being submitted. The results presented in this thesis have not been submitted to any other University or Institute for the award of any other degree or diploma.

Date:

(Tapas Kumar Dey)  
Professor

*To succeed, you must have tremendous perseverance, tremendous will.  
“I will drink the ocean” says the persevering soul; “at my will mountain  
will crumble up”. Have that sort of energy, that sort of will;  
work hard, and you will reach the goal.*

*-Swami Vivekananda*

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Date:

*Miss Soma Das*

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