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Date: 17/02/2020

TO WHOMSEVER IT MAY CONCERN

Mr. T PRAMOD has been working in RET (Resource Efficient Technology) group in The Energy and Resources Institute, Bangalore as a Research Consultant since **12th Jan 2018** to till date. He is currently involved in a R&D project titled: Development of Intumescent Fire Retardant Nano Composites for Medium Voltage Cable Sheathing Applications. The specific areas of expertise acquired in this work are:

- Synthesis of fire retardant additives, followed by analyzing for their spectra using FTIR and XRD.
- Blending of HDPE, LLDPE and PP along with EVA/EPDM composites with Ammonium Polyphosphate, Hyperbranched Triazine based Char Forming Agent, MWCNT grafted POSS, Nanoclay and Talc.
- Characterization of these blends for their Mechanical and Thermal properties, followed by morphological behavior.

Besides, he has been involved in optimization of laboratory protocols for materials processing, characterization and analysis of various equipment's such as Pin on Disc, Dry Abrasion Tester and Cone Calorimeter etc.

I found him to be enthusiastic in his work as also diligent and sincere in carrying out all the task assigned to him.

Sailaja



(Dr. R R N Sailaja Bhattacharya)
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केन्द्रीय विद्युत अनुसंधान संस्थान

(भारत सरकार की सोसाइटी, विद्युत मंत्रालय)

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15-07-2016

TO WHOMSOEVER IT MAY CONCERN

Mr. T.PRAMOD has worked in Materials Technology Division of this institution as a Junior Research Fellow from 13th May 2013 to 15th July 2016 as a part of MSc by Research course affiliated under VTU.

He was involved in research and development project titled "Studies on Cavitation Behavior of Hydro Turbine Steels and Coatings: Experimental and Numerical Approach". The specific area of expertise acquired as a part of R&D work include the following:

- Comprehensive characterization of hydro turbine steels and coatings in terms of their cavitation resistance under accelerated conditions using vibratory type cavitation test rig.
- Design modifications of vibratory rig and standardization of test methodology for evaluation of synergistic effect of silt and cavitation.
- Evaluation of combined effect of silt and cavitation on the erosion performance of different materials, surface topography analysis in respect of mechanism of material removal.

Besides, he has been involved in various testing activities like tensile testing using UTM, measurement of residual stresses by X-Ray Diffraction method, chemical composition of materials by optical emission spectrometry, co-efficient of friction by pin on disc method as well as involved in failure analysis of different thermal power plant components. He has published technical papers related to his research.

During the period of his assignment, we found him sincere, hardworking and a keen learner.

We wish him every success in his future career.

Dr. M Shekhar Kumar
Additional Director

Date: 10th May, 2013

EXPERIENCE CERTIFICATE

TO WHOMSOEVER IT IS CONCERNED

Mr. T.PRAMOD has worked in Nano Manufacturing Technology Centre of this institution as Contract Graduate Engineer from 15th Sept. 2011 to 10th May 2013.

He had involved in research and development project:

- CMIT and Western Michigan University collaborative project titled, "Ductile Regime Machining of Brittle Materials".

He had also shown his competency in the areas of literature survey, experimentations like nano scratches and indentations, optimizing the results using the Taguchi's Approach for the above research and development project.

- Worked on Nano characterization equipments like Nano Indenter G200 and Confocal Microscope OLS 4000 for in-house R&D activities and customer services.

Besides, he had involved in various activities like Preparation of Quality Manual for Proficiency Testing and Calibration Laboratories, Design of Sphere Lapping Machine, Formulation of technical specification for procurement of Tribo-meter and Silicon Wafers, Assembly of Air Bearing Spindle etc.,

He had been found to be hard working and dedicated in execution of the responsibilities assigned to him. He has consistently displayed the ability to learn and excel in all tasks assigned to him.

We wish him all the best in his future endeavors.



N. Balashanmugam
HOD (NMTC)