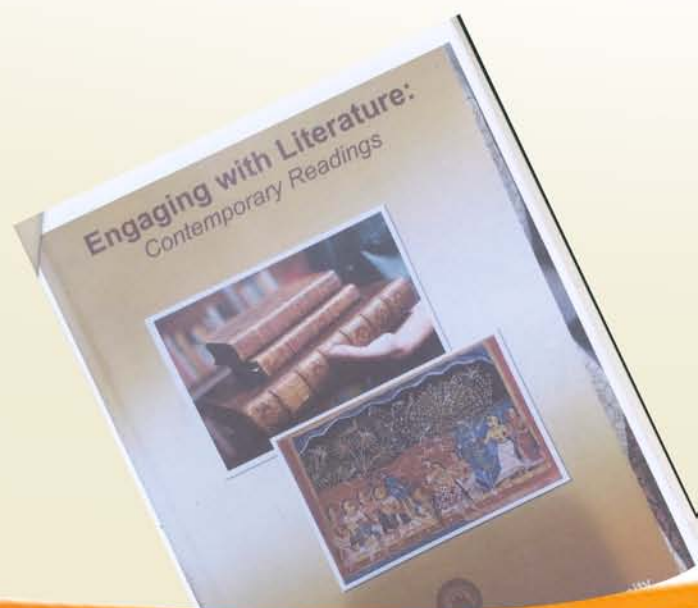




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## **UGC SPONSORED NATIONAL SEMINAR ON "ISSUES OF TRAFFIC NOISE POLLUTION ON ENVIRONMENT AND CONTROL MEASURES IN NORTH EAST INDIA"**

2017



**Organized by**  
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&  
DBT Advance Institutional Biotech Hub  
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### Editorial

People are aware of three most common types of environmental pollution- air, water and land but there are other types of pollution such as noise, light, thermal and visual pollution which are less recognized. Noise may be defined as any unwanted unexpected or high intensity sound which one has to hear without his consent. Human organisms are not prepared to shut off the sound/noise is a psycho-social stressor that activates sympathetic and endocrine systems. Acute noise effects do not occur only at high sound levels in occupational settings, but also at relatively low environmental sound levels. The noise pollution is the most terrible health hazards because of its insidious nature and some irreversible damage to the important structures of human body. A wide range of health hazards are resulted from this sort of pollution, ranging from deafness, tinnitus, hypertension, sleep disturbance, anxiety, psychiatric disorder, permanent loss of memory to difficulties in communication and even impediment in cognitive development in children. Among all the damaging effects on health, hearing loss is a major concern.

Noise causes acute mechanical damage to cochlea in the inner ear when the short term sound intensity or

## **Monitoring & Measurement of Road Traffic Noise Level in Guwahati and its nearby area**

**Mrinmoy Koushik Bora**

**Ikbal Farid Ali,**

**Rima Kalita**

**Rakesh Ghimire Chetry**

**Anup Kr. Bordoloi**

### **Abstract**

The main objective to bring this paper is to reduce the traffic jam, one of the most important scenarios as observed in regards to noise pollution in Guwahati, the capital city of Assam. The noise pollution, which is a major and sever upcoming hazard in both urban and sub-urban areas, is found to be generated mainly due to the sudden pick up of speed in the vehicles and the uncivilized way of using the horn by the drivers. It has been a serious concern over the years especially in urban and sub-urban areas as the number of vehicles is found to be increasing in an exponential growth which in long turn may cause huge

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## Perspectives from the Indian Villages

Vol. 1

*Edited by*  
Papiya Dutta, PhD  
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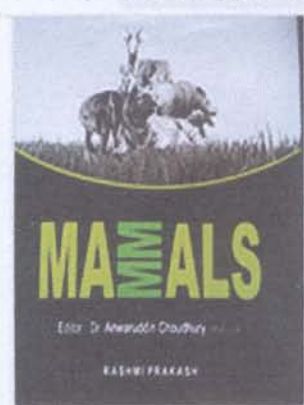
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# SUSTAINABLE DEVELOPMENT GOALS

## Perspectives from the Indian Villages

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NBL – 2019

Enhanced Kerr nonlinearity via EIT in a three-level semiconductor quantum well nanostructure

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Department of Physics, University of Science and Technology, Meghalaya – 793101, India.

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**Abstract:** In recent years, enhancement of Kerr susceptibility by using electromagnetically induced transparency (EIT) in semiconductor quantum wells has been investigated extensively both theoretically as well as experimentally due to its various useful applications in nonlinear optics. Based on the EIT technique, quantum devices can be operated with low absorptions and high sensitivity. In this paper, we have investigated the existence of large Kerr susceptibilities in a three-level semiconductor multiple quantum well system, where a weak probe field and a strong control beam have interacted in a  $\Lambda$ -type excitation scheme under the regime of EIT. We report to have identified the existence of enhanced Kerr nonlinear susceptibility of the order  $\sim 10^{-11} \text{ m}^2/\text{V}^2$  at pump wavelength  $\sim 7.26 \mu\text{m}$ , which is found to be much larger than the previously reported values in quantum wells.

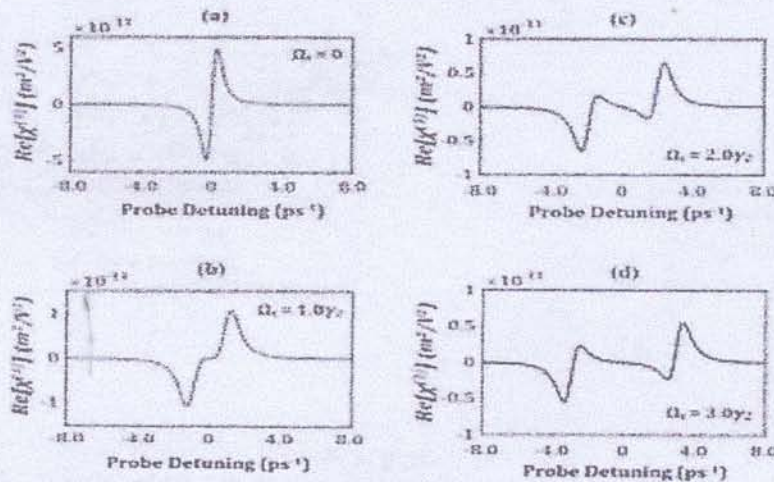


Fig: Real parts of Kerr susceptibility versus probe field detuning with the variation of control field Rabi frequencies.

#### References:

- [1]. S. E. Harris, "Electromagnetically induced transparency", *Phys. Today* 50, 36-42 (1997).
- [2]. H. Sun et al., "Enhancing Kerr nonlinearity in an asymmetric double quantum well via Fano interference", *Phys. Rev. B* 74, 155314 (2006).

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1st Page

# Engaging with Literature: *Contemporary Readings*



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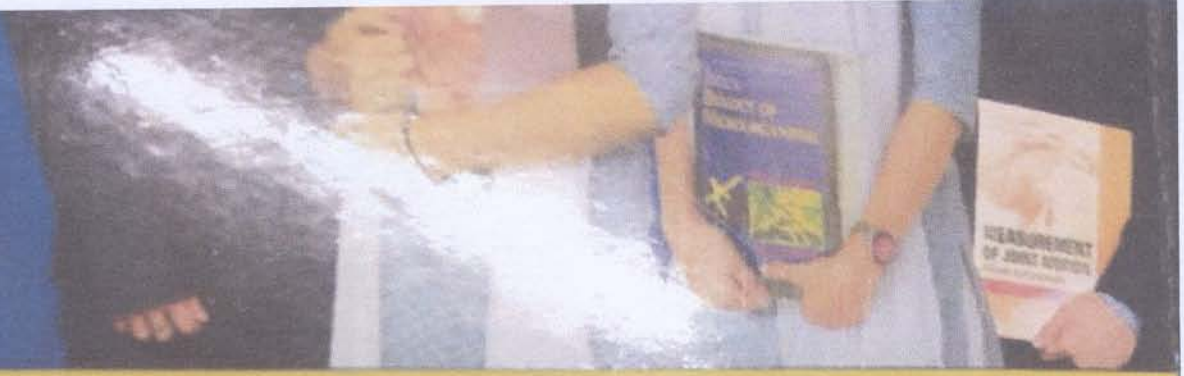
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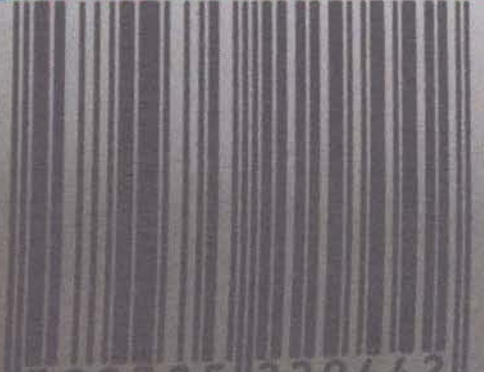
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