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Twenty-seventh
Annual Convention of Chemists, 1990
Magadh University, Bodhgaya-824 234
December 26-30, 1990

Organised by: Indian Chemical Society
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TO WHOM IT MAY CONCERN

This is to certify that Professor/Dr. Sri/Smt. SANDEEP NARAD
of Do. H. S. Govt. Vishwavidyalaya, Sagar, M.P.
has attended the 27th Annual Convention of
Chemists, 1990, and has presented a paper in the
Biochemistry Section (Abstract Number Bio-7)
on 28th December, 1990.
No TA/DA has been provided to the
speaker for the purpose.

Scientist-in-Charge
J. Dutta
Section

BIO—7: Complex of Gentamycin with Copper(ii) and its Antibacterial Activity
SANDEEP NARAD, Department of Chemistry, Dr. Harisingh Gour Vishwavidyalaya,
Sagar-470 003
Complexation of Gentamycin (an antibiotic) with Cu(ii) has been studied. Formation
constants of binary drug-metal complexes have been evaluated at pH 5.15
in 1M KCl supporting electrolyte, polarographically. Solid drug-metal complex has
been separated by standard method and characterised. The Antibacterial and anti-
fungal activities of the complex have been determined against bacteria and fungi, viz.
Aspergillus niger, Fusarium oxysporum, Salmonella typhi and Vibrio cholerae. The
complex was found to be more toxic against fungi than the pure drug. The relation-
ship between complexation and antimicrobial activity has been discussed.
DEPARTMENT OF CHEMISTRY
DOCTOR HARISINGH GOUR VISHWAVIDYALAYA SAGAR (INDIA)

ALL INDIA WORKSHOP CUM TRAINING COURSE
ON ADVANCED ELECTROCHEMISTRY
(Sponsored by MAPCOST Bhopal and UGC New - Delhi)

This is to certify that Mr/Ms./Mfr. Sandeep Narad has participated in the All India Workshop cum Training Course on Advanced Electrochemistry held at this Department from 26th to 30th November 1989. This workshop conducted a series of lectures and laboratory programmes on Theoretical Aspects of Electrochemical Processes and Practical Applications of Electrochemical Techniques viz; pH-metry, Conductometry, Potentiometry, Coulometry Polarography, Amperometry, Biampiermetry, Pulse polarography (NPP & DPP), and Stripping voltammetry in differential pulse mode.

Dated the 30th November 1989
Sagar 470-003 (M. P.)

Prof. S. P. Banerjee
Director (General)

Prof. M. C. Saxena
Director (Technical)

Dr. K. S. Pitré
Org. Secretary
78TH SESSION OF THE
INDIAN SCIENCE CONGRESS ASSOCIATION

Camp Office: Devi Ahilya University,
Indore.

This is to certify that Smt./Dr./Shri/Em. Sandeep Nand
of Dr. H.S. Gour Vishwavidyalaya, SAGAR
attended the 78th Session of the Indian Science Congress being held in
Indore from January 3 to 8, 1991 and actively took part in the deliberations of the Section of Chemistry.

Also, he/she presented a paper at the above section.

[Signature]

For
President,

Section of
CHEMISTRY SECTION,

[Signature]

For
SECRETARY S.C.A.

Indore