



National Level Conference on
"INDUSTRY, ACADEMIA AND ENVIRONMENTAL CHALLENGES"

NCIAEC - 2017

22nd and 23rd December 2017

- Sponsored by -

Savitribai Phule Pune University, Pune.

- Organized by -

Department of Chemistry, Botany And Zoology

Radhabai Kale Mahila Mahavidyalaya, Ahmednagar- 414 001.

Reaccredited by NAAC at 'B' Level

Website: www.rkmmn.org



Prin. Dr. Dinanath Patil
(Organizer)

Dr. Bhausaheb Auti
(Convener)

Dr. Hemant Akolkar
(Org. Secretary)

• Co-ordinators •

Dr. Sharad Shelke
(Chemistry)

Dr. Suman Pawar
(Zoology)

Dr. Sangita Kulkarni
(Botany)

ABSTRACTS

Supported by
FLORA AND FAUNA

An International Research Journal of Biological Sciences,
ISSN 0971-6920 and NAAS RATING 4.55

12. NITRATOBIS (TRIPHENYL PHOSPHINE) COPPER (I) CATALYZED ADDITION OF ORGANOCADMIUM REAGENTS TO α , β -UNSATURATED CYANOESTER

Ashok S. Pise^a, Sunil D. Jadhav^b, Arvind S. Burungale^{c*}, Ramesh B. Gawade^d and Santosh S. Devkate^e

^aDepartment of Chemistry, Dada Patil Mahavidyalaya, Karjat, Ahmednagar, Maharashtra-414402, India.

^bDepartment of Chemistry, Mahatma Phule Mahavidyalaya, Panvel, Raigad, Maharashtra, India.

^cDepartment of Chemistry, S. M. Joshi College Hadapsar, Pune, Maharashtra, India.
Email: ashokpise67@gmail.com

ABSTRACT

Treatment of α , β -unsaturated cyanoester with phenylcadmium bromide, derived from dilithiumtetrachloro cadmium (Li_2CdCl_4) and Grignard reagent in presence of 10 mol % of Nitratobis (Triphenyl phosphine) Copper (I) i.e. $\text{Cu} [\text{PPh}_3]_2\text{NO}_3$ catalyst afforded chemoselective conjugated product in high yields.

Key words: Cyanoester, Grignard reagent, Conjugate addition, Copper (I) catalyst.

Scheme

