Royal Education Socitey's

College Of Computer Science And Information Technology, Latur.

Performance Appraisal

Academic Year 2018-19

Teacher appraisal Report

A) General Information

a) Name : Dr. Nilesh V. More

b) Address (Residential) : **House No.40**

"Nanddham Housing Society,

Ambejogai Road, Latur-413512

c) Ph. No./Cell : 9881314833

d) Designation : Head & Vice principal

e) Department : Biotechnology

f) Date of Birth : 06/03/1980

g) Aadhar No. : 764135410517

h) PAN No. : AUYPM5925A

i) Date of appointment : 16/08/2006

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B) i) Academic Qualifications

Exam Passed	Board/ University	Subjects	Year	Division/Grade Merit etc.
High School	Div.Board, Amaravati	Eng,Marathi,Hindi, Hist,Geo,Maths,Sci	March 1996	First Class
Higher Secondary or Pre-degree	Div.Board, Amaravati	Eng, Marathi, PCB	March 1998	First Class
Bachelor's Degree (s)	SGBA, University, Amaravati	Eng, , Botany, Zoo, Chem,	March 2001	First Class
Master's Degree (s)	SGBA, University, Amaravati	Biotechnology	June 2003	First Class
Research Degree (s) M.Phil.				
Ph.D.	BAM University, Abad	Biotechnology	Aug-2016	
Other Diploma / Certificates etc.	NPTEL Certificates 1) Cell Culture technologies (4-Week) 2) Functional Genomics (4-Week)			

* Teachers already in employment at the time of introduction of the scheme and for new entrants at the time of joining of the institution.

ii) Research Experience & Training:

Research Stage	Title of work/Theses	University where the work was carried out
M. Phil or equivalent		
Ph.D.	Molecular and Functional Characterization of the basis of Antimicrobial and Cytotoxicity Activity of *Argemone Mexicana*	**Dr. B.A.M. University, Aurangabad MS**
Post-Doctoral	**NIL**	
Publications (give a list separately)	**As per Appendix I**	
Research Guidance (give names of students guided	**As per Appendix II**	

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Training (please specify)	2-day Workshop on Techniques in Molecular Biology and Immunology on 12th & 13th Oct 2018	Dept of Biotechnology, COCSIT, Latur MS

iii) **a) Research Projects carried out: NIL**

Title of the Project	Name of the funding Agency	Duration	Remarks

b) Patent details, if any: NIL

iv) **Seminars, Conferences, Symposia Workshops etc. attended**

Name of the Seminar/ Conference/ Symposia Workshop, etc.	Name of the Sponsoring Agency	Place and Date
1-Day workshop on Introduction of IPR and patentability Criteria	COCSIT, Latur	COCSIT, 27/09/2018
2-day Workshop on Techniques in molecular Biology and Immunology on 12th & 13th Oct 2018	HiMedia laboratories Pvt. Ltd. Mumbai	Dept of Biotechnology, COCSIT, Latur MS. 12, 13th Oct 2018
Workshop on IPR For Business Success For Startups & MSMEs on 25th Oct 2018	ASSOCHAM, Latur Zilla Udyog Samuh and IP Office	Hotel Grand, Latur MS. 25th Oct 2018
1 - Day Workshop on E-Content Development	COCSIT, Latur	COCSIT, 14/12/2018
one day workshow on IPR patent right and Trademarks	COCSIT, Latur	COCSIT, 09/03/2019

v) **Teaching Experience**

Courses Taught	Name of the ~~University~~/ College / Institution	Duration
i) U.G. (B.Sc.BT)	**COCSIT, Latur**	**11 Years**
ii) P.G. (M.Sc.BT)	**COCSIT, Latur**	**11 Years**

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iii) M.Phil	**NIL**	**NIL**
iv) Any other(Envn.Studies) (B.Sc.(CS),BCA,B.Sc.(CM))	**COCSIT, Latur**	**6-Years**

Total Teaching Experience:

a) Under-graduate: 11Years

b) Post-graduate : 11 Years

vi) Innovations / Contributions in Teaching

a) Design of Curriculum : **Worked as a Ad- hoc Board of Studies (BoS) Member in the subject of Biotechnology and Bioinformatics in SRT Marathwada University, Nanded.**

b) Teaching methods : **Power Point Presentations, Animated Videos**

c) Laboratory experiments : **Conducting practical and projects by using different protocols and instruments.**

d) Evaluation methods : **Through Questionnaires, tests and Online Examination**

e) Preparation of resource material Including books, reading materials, Laboratory manuals etc. : **Lecture notes and practical Manuals**

f) Remedial Teaching / Student Counseling (academic) : **Mentoring students**

g) Any Other : **Act as a guide for Projects & Seminars**

vii) (a) Membership of Professional Bodies, Societies etc. : **NIL**

(b) Editorship of Journals : **Reviewer and Technical Editor for Journal of Precision Medicine and Public Health, Clyto Access Inc. - APAC Operations.**

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viii) **Academic Details of participation in the following:**

g) University Evaluation : **Worked as a member, Board of Examination in the subject of Biotechnology and Bioinformatics in SRT Marathwada University, Nanded.**

(i) (ii) Internal Evaluation : **Evaluator and Paper setter for UG and PG courses**

(ii) Paper Setting :

(iv) Assessment of Home assignments: **Chapter wise question given to students for Home assignments**

(v) Conduct of Examinations :

(vi) Evaluation of Projects/Dissertation etc.: **YES, UG & PG final Year**

ix) Improvement of Professional Competence:

(a) Details regarding refresher courses/orientation attended, participation in summer schools, including Open University courses/M.Phil., Ph.D. : NIL

C. Extension Work/Community Service

a)	Please give a short account of your contribution to:	NIL
i)	Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc.	NIL
ii)	National Literacy Mission	NIL
b)	Positions held/Leadership role played in organizations linked with Extension Work and National Service Scheme (NSS), or NCC or any other similar activity	NIL

D. Participation in Corporate Life:

Please give a short account of your contribution to:

a) College/University/Institution : **Administration, Teaching, Practical Approach, Internal exam Paper setting and assessment, Ad hoc Board of Studies (BoS) Member and member, Board of Examination in SRT Marathwada University, Nanded**

b) Co-curricular activities : **NIL**

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c) Enrichment of campus life : **NIL**

(hostels, sports, games, cultural activities)

d) Students welfare and Discipline : **NIL**

e) Membership/Participation in Bodies/ Committees on Education and National Development : **NIL**

f) Professional Organizations of Teachers : **NIL**

E. Assessment

a) Steps taken by you for the evaluation of the course program taught : **Interaction with students**

F. General Data

State brief assessment of your performance indicating (a) achievements, (b) difficulties faced and (c) suggestions for improvement.

G. Other Details if any

NIL

(Signature of the Teacher)

H. * Verification of factual data

A. General Information

B. i) Academic Qualification — P.hD, M.Sc (BT)

ii) Research Experience and training — Yes

iii) Research Project carried out — –

iv) Seminar / Conferences / workshop / symposia — 02

v) Teaching Experience — 11 Yes

vi) Innovation and contribution in teaching — Yes

vii) Membership of Professional bodies, society's etc. — –

viii) Academic Details of Participation — Teaching

ix) Improvement of professional Competence — Yes

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C. Extension work/community service — yes

D. Participation in Corporate Life —

E. Assessment — yes

F. General Data —

G. Other Details If any —

(Signature of the Person authorized*)

I/C. PRINCIPAL
College of Computer Science
and Information Technology, Latur

*By a person to be nominated by Principal.

Appendix I (Publications)

Sr. No.	Name of Authors	Title of the paper	Year of publication, Name of Journal, Volume & Page Nos.	Referred or Non Referred	Citation	ISBN / ISSN No.	Level (Int./ Nat./ State/ Local)	Impac Facto
1	2	6	7	8		9	10	11
1	Nilesh V. More, Ishwar A. Patil, Shilpa G. Kawadgave, Pratiksha D. Katale, Tanushree B. Chitkalwar and Rahul P. Bhagat	Genetic Diversity in Parental Lines of Hybrid Rice *(Oryza sativa L.)* by using SSR Markers By	J. Biol. Chem. Research Volume 36 (1) 2019 Pages No. 147-155	Referred	-	ISSN 2319-3077 Online/Electronic	National	3.285

As per Appendix II

Research Guidance (give names of students guided successfully UG/ PG/ PPG)

Sr. No.	Name of the Students	Title of the Project	UG/ PG / PPG	Academic Year	Remarks
1	Abhijeet D. Giri Suresh S. Lomte Yogesh M. Sangave	Comparative Studies on Soil of marathwada Region wrt NPK Content with and withoutNatural Fertilizers	UG	2018-19	Completed
2	Nikita Sonkamble Mohini Kamble	Screening of Various substrates and optimization of different parameters L-Glutaminase production Under SSF	UG	2018-19	Completed

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महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ, पुणे.

Maharashtra State Board Of Secondary and Higher Secondary Education, Pune.

माध्यमिक शालान्त प्रमाणपत्र परीक्षा
SECONDARY SCHOOL CERTIFICATE EXAMINATION

असे प्रमाणित करण्यात येते की,
This is to certify that **MORE NILESH VINAYAK**

विभागीय मंडळ Divisional Board	आसन क्रमांक Seat No.	केंद्र क्रमांक Centre No.	शाळा क्रमांक School No.	प्रमाणपत्राचा अनुक्रमांक Sr. No. of Certificate
AMRAVATI	H011629	0038	01.015	000809

माध्यमिक शालान्त प्रमाणपत्र परीक्षा
has passed the SECONDARY SCHOOL CERTIFICATE EXAMINATION **MARCH-1996**

श्रेणीमध्ये खाली दर्शविलेले विषय घेऊन उत्तीर्ण झाला/झाली आहे.
in Grade **FIRST** with subjects shown below

मुख्य विषय Main Subjects	कमाल गुण Max. Marks	प्राप्त गुण Marks Obtained	श्रेणीचे विषय Subjects of Grade	श्रेणी Grade
MARATHI	100	64	[WORK EXPERIENCE/TECH]	
HINDI	100	74	MAINT.HOUSEHOLD APPL.	A
ENGLISH	100	55		
MATHEMATICS	150	85	[SCHOOL SUBJECTS]	
SCIENCE	150	78	PHYSICAL EDUCATION	A
SOCIAL SCIENCES	150	108	SOCIAL SERVICE	A
एकूण गुण Total Marks	750	464	PERCENTAGE =====>	61.86

एकूण प्राप्त गुण (अक्षरीं) Total Marks Obtained (in Words) * FOUR HUNDRED AND SIXTYFOUR *

जन्म दिनांक Date of Birth 06-03-1980 (SIXTH MARCH NINETEEN HUNDRED EIGHTY)

Amravati.
5th July 1996

उमेदवाराने माझ्या समक्ष पुढील चौकटीत स्वाक्षरी केली आहे.
The candidate has signed before me in the adjoining frame

N. V. More

शाळाप्रमुखाची स्वाक्षरी व शाळेचा शिक्का
Signature of the Head of the School with School Stamp.

Head Master
Shri Narsing Vidyalaya, Akot

Z 0431539

(M. N. KAPGATE)
विभागीय सचिव
Divisional Secretary

NUEM

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महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ, पुणे.

Maharashtra State Board Of Secondary and Higher Secondary Education, Pune.

उच्च माध्यमिक शालान्त प्रमाणपत्र परीक्षा

HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION

असे प्रमाणित करण्यात येते की,
This is to certify that MORE NILESH VINAYAK

विभागीय मंडळ Divisional Board	आसन क्रमांक Seat No.	केंद्र क्रमांक Centre No.	उच्च माध्यमिक शाळा क्रमांक Higher Secondary School No.	प्रमाणपत्राचा अनुक्रमांक Sr. No. of Certificate
AMRAVATI	R-007694	386	02.027	012700

उच्च माध्यमिक शालान्त प्रमाणपत्र परीक्षा (10 + 2 आकृतिबंधानुसार)
has passed the HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION (Under 10 + 2 Pattern) MARCH , 1998

in Grade I श्रेणीमध्ये खाली दर्शविलेले विषय घेऊन उत्तीर्ण झाला/झाली आहे.
with subjects shown below

विषय संकेतांक Subject Code	विषय Subjects	कमाल गुण Maximum Marks	प्राप्त गुण Marks Obtained
01	ENGLISH	100	054
02	MARATHI	100	068
40	MATHS & STATS.	100	056
54	PHYSICS	100	077
55	CHEMISTRY	100	067
56	BIOLOGY(BOT.& ZOOL.)	100	066
एकूण गुण Total Marks	64.67%	600	388

एकूण प्राप्त गुण (अक्षरी) Total Marks Obtained (in Words) * THREE HUNDRED AND EIGHTYEIGHT *

उमेदवाराने माझ्या समक्ष पुढील चौकटीत स्वाक्षरी केली आहे.
The candidate has signed before me in the adjoining frame

N.V. More

उच्च माध्यमिक शाळाप्रमुखाची स्वाक्षरी व शाळेचा शिक्का
Signature of the Head of the Higher Secondary School with School Stamp.

Bhande
Principal,
Junior College
Kashibai Arts ... Science ...
Yewada, Distt. Amravati.

"TRUE COPY"
... AMRAVATI

B 0148587

(M. N. KAPGATE)
विभागीय सचिव
Divisional Secretary

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अमरावती विद्यापीठ

AMRAVATI UNIVERSITY

विज्ञान स्नातक

श्री निलेश विनायकराव मोरे यांनी

अमरावती विद्यापीठाची विज्ञान स्नातक

परीक्षा उन्हाळी २००१ मध्ये प्रथम श्रेणीत उत्तीर्ण केल्याबद्दल

त्यांना ही पदवी प्रदान करण्यात येत आहे.

कुलगुरू

अमरावती :
- 2 MAR 2002

Amravati University

Bachelor of Science

This degree of Bachelor of Science

is conferred upon Shri Nilesh Vinayakrao Morey

on having passed the examination for the said Degree

in Summer 2001 in First Division.

Amravati

- 2 MAR 2002

Vice - Chancellor

21179

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अमरावती विद्यापीठ

विज्ञान पारंगत

श्री निलेश विनायकराव मोरे यांनी

अमरावती विद्यापीठाची विज्ञान पारंगत(जीवतंत्रज्ञान)

परीक्षा उन्हाळी २००३ मध्ये प्रथम श्रेणीत उत्तीर्ण केल्याबद्दल

त्यांना ही पदवी प्रदान करण्यात येत आहे.

कुलगुरू

अमरावती :

3 MAR 2004

Amravati University

Master of Science

This degree of Master of Science(Bio-Technology)

is conferred upon Shri Nilesh Vinayakrao Morey

on having passed the examination for the said Degree

in Summer 2003 in First Division.

Vice - Chancellor

Amravati :

3 MAR 2004

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We,
the Chancellor, Vice-Chancellor
and Members of the Management Council of
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad (Maharashtra State), India

Certify that the withinsigned

---------Nilesh Vinayakrao Mosey----------

who has been found duly qualified for the Degree of Doctor of Philosophy (----Bio-Technology----)

The Degree of

Doctor of Philosophy

(----------Bio-Technology----------)

(Under the Faculty of ----Science----)

has been conferred on ----him---- at Aurangabad, on the ----thirtieth--- day of the month of ----may---- in the year ----two thousand seventeen----

In Testimony whereof are set the Seal of the said University and the signature of the said Vice-Chancellor.

Date of Notification August 05, 2016.
Place: Aurangabad
Date of issue of the Degree Certificate ---------- 18 AUG 2017

B A Chopade
Vice-Chancellor

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॥ सा विद्या या विमुक्तये ॥

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

"ज्ञानतीर्थ" परिसर, विष्णूपुरी, नांदेड-४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

"Dnyanteerth", Vishnupuri, Nanded – 431606 (Maharashtra)

Establishment on 17th September 1994 -Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade

MEETING & ELECTION SECTION

Phone : (02462) 229246
Fax : (02462) 229572
Website :www.srtmun.ac.in
E-mail : srtmunregistrar@gmail.com

Ref.No./Election/Ad hoc Board/ 2018-19/ 230

Date : 02.05.2018

To,

01. **Dr. C.N. Khobaragade,** Chairman
Professor,
School of Life Science,
S.R.T.M. University, **Nanded**

02. **Dr. T.A. Kadam,** Member
Professor,
School of Life Science,
S.R.T.M. University, **Nanded**

03. **Dr. L.H. Kamble** Member
Associate Professor,
School of Life Science,
S.R.T.M. University, **Nanded**

04. **Dr. N.V. More,** Member
Assistant Professor,
COCSIT, **Latur**

05. **Dr. P.R. Puranik,** Member
Associate Professor,
School of Life Science,
North Maharashtra University, **Jalgaon**

Sub : Appointment on the Ad hoc Board of Studies in Bio-tech and Bio-informatics in the the Faculty of Science & Technology.

Sir/Madam,

I am happy to inform you that the Hon'ble Vice-Chancellor has been pleased to appoint you on the **Ad hoc Board of Studies in Bio-tech and Bio-informatics** with effect from its first meeting for a period of two years, in terms of the provisions of Section 26(18) of the Maharashtra Public University Act, 2016, and also in terms of the Statute No, 504 framed under the University Act.

I am also directed to inform you that your appointment on the said board will be governed by the respective provisions of the Maharashtra Public University Act, 2016, and the statute rules and regulations made there under, which may please be noted.

Letter No. Ref. No./Election/Ad hoc Board/ 2018-19/187, 26.04.2018 treated as cancelled.

Thanking you.

Yours faithfully,

(Dr. R.M. Mulani)
Registrar

Copy to:

1. The Director, Board of Examinations & Evaluations, This University.
2. Deputy Registrar, Academic Section, This University.

C:\Users\ADMIN\Desktop\Nomination Letter\Ad hoc Board Nomination -.doc

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Board of Examinati

!! सा विद्या या विमुक्तये !!

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

"ज्ञानतीर्थ" परिसर, विष्णूपुरी, नांदेड – ४३१ ६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

"Dnyanteerth", Vishnupuri, Nanded – 431606 (Maharashtra)

Establishment on 17th September 1994 -Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade

Phone : (02462) 229246
Fax : (02462) 229572

MEETING AND ELECTION SECTION

Website : www.srtmun.ac.in
E-mail : srtmunelection@gmail.com

Ref : Election/Ad-hoc BOS/2018-19/457

Date : 13.08.2018

To,

1. **Dr. L.H. Kamble,**
   Associate Professor,
   School of Life Science,
   S.R.T.M. University, **Nanded**
2. **Dr. N.V. More,**
   Assistant Professor,
   COCSIT, **Latur**

Subject : Nomination on Committee of **Board of Examinations and Evaluation** under the provision u/s 48(3)(a)(iv) of the Maharashtra Public University Act, 2016 from Ad-hoc Board of Studies in **Bio-tech, Bio-informatics, Food Science and Bio-Chemistry.**

Sir/Madam,

I am to state that, under the provision of Section 48(3)(a)(iv) of the Maharashtra Public University Act, 2016, you have been nominated by the Vice-Chancellor as a member of the Ad-hoc Board of Studies in **Bio-tech, Bio-informatics, Food Science and Bio-Chemistry** on the Board of Examinations and Evaluation for every subject in order to appoint Paper Setters, Examiners and Moderators. You will have to exercise the powers and perform the duties as laid down in Section 48 of the said Act.

The term of the office of your Membership on the Board of Examinations and Evaluation as envisaged u/s 63 of the Maharashtra Public University Act, 2016 will be up to two year. (From 26th April, 2018 to 25th April, 2020).

I am sure that your vigilance and active participation will definitely help us in confidential work of Examinations.

Thanking you.

Yours faithfully,

Dr. R.M. Mulani
Registrar

Copy for necessary action :
The Director, Board of Examinations and Evaluation, this University.

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NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

NILESH VINAYAKRAO MORE

for successfully completing the course

Functional Genomics

with a consolidated score of 49 %

Online Assignments	17.5/25	Proctored Exam	31.5/75

Total number of candidates certified: 127

T V Prabhakar

Prof . T . V . Prabhakar
Chairman
Centre for Continuing Education,IITK

Jan-Feb 2017
(4 week course)

Satyaki Roy

Prof . Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

TEL17BT0226700015AN

To validate and check scores: http://nptel.ac.in/noc

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Roll No:NPTEL17BT21S2130018

To

NILESH VINAYAKRAO MORE
COLLEGE OF COMPUTER SCIENCE AND IT
COCSIT CAMPUS
AMBEJOGAI ROAD
LATUR
MAHARASHTRA
413512
PH. NO :9881314833

Score	Type of Certificate
>=90	Elite + Gold Medal
60-89	Elite
40-59	Successfully Completed the course
<40	No Certificate

No. of credits recommended by NPTEL:2

Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

NILESH VINAYAKRAO MORE

for successfully completing the course

Cell Culture Technologies

with a consolidated score of **80** %

Online Assignments	18.25/25	Proctored Exam	61.5/75

Total number of candidates certified in this course: **613**

T V Prabhakar

Prof. T. V. Prabhakar
Chairman
Centre for Continuing Education,IITK

Aug-Oct 2017
(8 week course)

Satyaki Roy

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL17BT21S2130018

To validate and check scores: http://nptel.ac.in/noc

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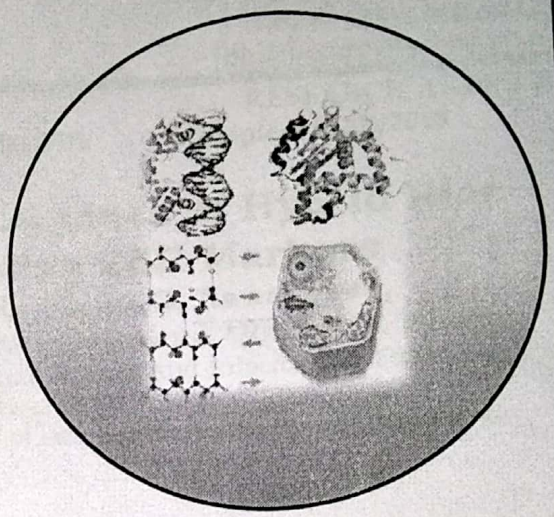
Genetic Diversity in Parental Lines of Hybrid Rice *(Oryza sativa L.)* by using SSR Markers

By
Nilesh V. More, Ishwar A. Patil, Shilpa G. Kawadgave, Pratiksha D. Katale, Tanushree B. Chitkalwar and Rahul P. Bhagat

ISSN 2319-3077 Online/Electronic
ISSN 0970-4973 Print

UGC Approved Journal No. 62923
MCI Validated Journal
Index Copernicus International Value
IC Value of Journal 82.43 Poland, Europe (2016)
Journal Impact Factor: 4.275
Global Impact factor of Journal: 0.876
Scientific Journals Impact Factor: 3.285
InfoBase Impact Factor: 3.66

J. Biol. Chem. Research
Volume 36 (1) 2019 Pages No. 147-155



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An International Peer Reviewed / Referred Journal of Life Sciences and Chemistry

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RESEARCH ARTICLE

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Genetic Diversity in Parental Lines of Hybrid Rice *(Oryza sativa L.)* by using SSR Markers

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ABSTRACT

This work was carried out to study the genetic diversity in parental lines of hybrid rice (O. sativa L). The genetic diversity between two parents has been proposed as a possible predictor of F1 performance and heterosis in rice. Genetic diversity is studied by using molecular markers. The role of genetic markers in genetic enhancement is considered in the evaluation of genetic diversity. The more polymorphic the trait the greater its potential value to germplasm management. Genetic diversity in 48 lines was studied. Genomic DNA isolation was carried out. SSR's are capable of detecting a high level of polymorphism among inbreed lines (Liu and Wu; 1998). Therefore identified SSR primers were selected to carry out this work. Polymorphism detection was conducted using 58 primer pairs on each chromosome. Allele diversity was observed among the selected lines. Dendrogram was observed for five different clusters. The average dissimilarity between first and second cluster was 60%, between second and third was 62.42%, between third and fourth was 59.8%, between fourth and fifth was 52.66%, between fifth and first was 50.66%. The data obtained in this study could be utilized in further studies for development of hybrids to exploit heterosis.

Key words: Oryza sativa L, SSR marker, Heterosis, Polymorphism, Genetic diversity and Hybrid.

INTRODUCTION

Hybrid rice is a proven and successful technology for rice production, having contributed significantly toward improving food security, raising rice productivity and farmer's income, and providing more employment opportunities over the past three decades. After China, India is a second country to commercially exploit this technology to benefit of the farming community. Hybrid rice is rice that been created by crossing two different parental strains. Such crosses generally result in an F1 generation that is more robust than either of the parental strains. The enhanced yield performance of F1 generation is referred to as "hybrid vigour" or "heterosis". The hybrid vigour may result in superior agronomic qualities such as higher yield, stronger resistance to disease, more efficient use of a soil nutrients, and better weed control. Hybrid vigour and other superior qualities arising from crossing genetically different plants have been well known and used by traditional crop breeders for decades.

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