PEER TEAM REPORT ON

Institutional 3rd Cycle Accreditation

of

**Vidya Prasarak Mandal's
B. N. Bandodkar College of Science, Thane
Place: Thane; Dist: Thane; Pin:- 400 601,
State: Maharashtra**

**Visit Dates
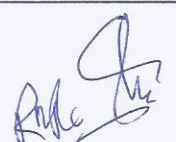5th -7th October 2015**

**National Assessment and Accreditation Council
P. O. Box No. 1075,
Nagarbhavi, Bangalore -560072,
Karnataka, India**

9. PEER TEAM REPORT ON
Institutional Accreditation of
Vidya Prasarak Mandal's
B. N. Bandodkar College of Science, Thane (3rd Cycle)
Place: Thane; Dist: Thane; Pin:- 400 601, State: Maharashtra

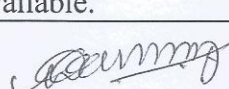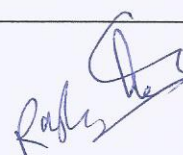| Section I: GENERAL	*Information*
1.1 Name & Address of the Institution:	**Vidya Prasark Mandal's B. N. Bandodkar College of Science Thane – 400 601, Dist. Thane**
1.2 Year of Establishment:	1969
1.3 Current Academic Activities at the Institution (Numbers):	UG : 13; PG : 15
• Faculties / Schools:	01
• Departments / Centres:	14
• Programmes / Courses offered:	UG : 13; M.Sc. (By Papers) : 05; M.Sc.(By Research) : 05; Ph. D. : 05
• Permanent Faculty Members:	34
• Permanent Support Staff:	50
• Students:	1768 as on October 05, 2015
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	• One of the most reputed science colleges in the region. • Good physical and infrastructural facilities. • Excellent work culture and good academic ambience.
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	05th – 07th October, 2015
1.6 Composition of the Peer Team which undertook the on-site visit:	
Chairperson	Prof. R.M. RANGANATH
Member Co-ordinator	Prof. D. CHANDRA SEKHARA REDDY
Member	Prof. R.L. MATHUR
Assistant Adviser, NAAC:	Dr. GANESH HEGDE

Section II: CRITERION WISE ANALYSIS	Observations (Strengths and / or Weaknesses) on Key-Aspects *(Please limit to three major ones for each and use telegraphic language (It is not necessary to indicate all the three bullets each time; write only the relevant ones)*
2.1 Curricular Aspects:	
2.1.1 Curricular Planning and Implementation:	• The college adopts curricula designed and developed by the affiliating university, University of Mumbai . • Adequate measures taken for effective curriculum delivery and implementation. • One Academic council member and Four senior faculty members, who are members of Board of Studies of the University take part in the design and development of the curriculum.
2.1.2 Academic Flexibility:	• Choice Based Credit System yet to be introduced. • Limited academic flexibility exists in terms of number of subject combinations. • Nearly 15 certificate courses offered as part of additional skill development programmes.
2.1.3 Curriculum Enrichment:	• Several programmes conducted/certificate courses offered to enrich holistic development of students. • Adequate measures taken to supplement the University's curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated. • Value addition accomplished through different programmes.
2.1.4 Feedback System:	• 22 members of senior faculty participate in the design and development of the curriculum. • A Computerized mechanism exists for the collection of feedback on curriculum from the students. • Feedback analyzed and conveyed to the concerned teachers.
2.2 Teaching-Learning and Evaluation:	
2.2.1 Student Enrolment and Profile:	• Widely publicized, transparent and merit based on-line admission process. • Implementation of reservation policy of the State Government reflects National commitment to diversity and inclusion. • A structured mechanism is in place to review the admission process and student profiles annually. • Approximately 50% of the students admitted are girls.

2.2.2 Catering to Student Diversity:	• A mechanism is in place to assess the student's needs in terms of knowledge and skills. • Remedial classes conducted and bridge courses offered (Ex: Personality development courses/English speaking courses etc.) to bridge the knowledge gap of the students enrolled. • Additional measures taken to identify and respond to special educational needs of slow and advanced learners.
2.2.3 Teaching-Learning Process:	• Academic calendar, teaching plans and evaluation blueprints prepared and distributed to students at the beginning of the academic year. • Learning made more student-centric by introducing projects, field trips, role play, debates, seminars etc. • Traditional teaching methods followed in addition to ICT in teaching learning process. • Optimal use of library resources to augment teaching learning process.
2.2.4 Teacher Quality:	• Faculty recruitment on merit basis and as per the guidelines of the UGC and State Government. • Out of 39 faculty, 18 are Ph.D and 10 are M.Phil. degree holders. • Many faculty members attended refresher courses / orientation programmes during the last four years.
2.2.5 Evaluation Process and Reforms:	• Adequate measures taken to ensure the students and the faculty are aware of the evaluation processes. • A mechanism is in place to ensure effective implementation of the evaluation reforms of the University and those initiated by the institution. • The faculty and the institution use assessment / evaluation as an indicator for evaluating student performance/achievements. • Established norms/procedures followed for redressal of grievances with regard to evaluation.
2.2.6 Student Performance and Learning Outcomes:	• Student performance monitored through internal tests and semester end examinations. • Traditional / ICT based teaching-learning strategies adopted to achieve intended learning outcomes. • A formal mechanism needs to be established to collect and analyze data on student performance and learning outcomes. • A provision exists to publish student's research work from selected projects.

2.3 Research, Consultancy and Extension:	
2.3.1 Promotion of Research:	• Research committee constituted to oversee research activities. • Appropriate measures taken to facilitate smooth progress and implementation of research projects. • Institute-industry collaboration needs to be promoted further to get external funding for research. • Measures to be taken to provide seed money to the faculty to promote research.
2.3.2 Resource Mobilization for Research:	• The college received 'O' level grants (Rs. One Crore) from DST (FIST) and funds (Rs. One Crore) from DBT under "STAR College Scheme". • Budget allocation yet to be made for carrying out research activities. • Resource mobilization for research is mainly through UGC Major (5 Nos.) and Minor (4 Nos.) research projects and projects from University of Mumbai (15 Nos).
2.3.3 Research Facilities:	• Only a few departments have well developed research facilities. • Steps taken to ensure optimal use of available equipment and general facilities. • Initiatives to be taken to garner special grants from the industry and other PPP sources.
2.3.4 Research Publications and Awards :	• Four staff members applied for patents. • 167 research articles published in National and International journals during the last five years. • One staff member from the Department of Chemistry published papers with good impact factor.
2.3.5 Consultancy:	• Institute-industry interface yet to be established. • Consultancy services offered to Government / NGOs and generated Rs. 78,000/- during the last four years. • The institution needs to evolve a stated policy to promote consultancy.
2.3.6 Extension Activities and Institutional Social Responsibility:	• Institution-neighbourhood-community network promoted through NSS / NCC. • Additional outreach programmes conducted in association with several NGOs / Research Organizations and Government of Maharashtra programmes. • Two trophies awarded from the State Government for implementing **"Jagar Janivancha"** programmes.
2.3.7 Collaboration:	• A formal mechanism needs to be established to collaborate and interact with research laboratories / industry to promote research activity.

	• 15 State / National conferences organized during the last four years. • MoUs signed with three organizations.
2.4 Infrastructure and Learning Resources:	
2.4.1 Physical Facilities:	• 20 class rooms and 20 laboratories available to facilitate effective teaching-learning process. • Sufficient infrastructural facilities provided for co-curricular and extracurricular activities. • Adequate common campus facilities available for students.
2.4.2 Library as a Learning Resource:	• The library has a total built up area of 353 sq.mts and ~ 27139 books, 14000 book titles and 43 journals with a seating capacity of 125. • Fully automated and computerized library having facilities such as DELNET, INFLIBNET, OPAC, E-journals, E-publications etc. • Specialized services provided include reprography, Inter Library Loan, download and printing.
2.4.3 IT Infrastructure:	• A total of 229 computers available and free of cost Internet/Wi-Fi facility provided to students and staff. • Year-wise budget provision made for procurement, upgradation, deployment and maintenance of computers. • ICT tools provided to each department for effective teaching-learning process.
2.4.4 Maintenance of Campus Facilities:	• Necessary budget allocations made for upkeep and maintenance of physical facilities. • Management plays an important role in maintenance and upkeep of infrastructural facilities and equipment. • Necessary steps taken for location, upkeep and maintenance of sensitive equipment.
2.5 Student Support and Progression:	
2.5.1 Student Mentoring and Support:	• An updated prospectus comprising information regarding admission procedure, course structure, academic schedules, scholarships etc. published at the beginning of every academic year. College website also updated on a regular basis. • Students belonging to SC/ST/BC/ OBC categories receive Government fellowships every year. • Specific support services such as remedial coaching, grievance redressal cell, placement cell, journal club, bridge courses, women development cell etc. are available.

2.5.2 Student Progression:	• Student progression from UG to PG is around 64%. • Subject wise pass percentage in relation to University apparently satisfactory. • Special assistance provided to the students who are at risk of failure or drop out.
2.5.3 Student Participation and Activities:	• Very good student participation in sports and games, cultural and extension activities. • Sizeable number of students won Medals / Prizes / Awards at University/State/National level competitions in curricular /extracurricular activities. • Two girl students won Gold medals at University / National level competitions and underwent training in Australia in Gymnastics. • Active participation of Student Council in organizing cocurricular and extracurricular activities.
2.6 Governance, Leadership and Management:	
2.6.1 Institutional Vision and Leadership:	• The Vision and Mission statements fully reflect the Institutions goals and objectives. • The Management and the Principal provide effective academic and administrative leadership. • Informal feedback obtained from the stakeholders used for monitoring and evaluation of the policies of the institution. • Participative management practiced in academic and administrative spheres.
2.6.2 Strategy Development and Deployment:	• Perspective short term and long term plans prepared for overall development of the institution. • A well defined internal organizational structure and decision making processes exist to oversee quality improvement strategies of the institution. • Academic audit conducted by external experts to identify developmental goals.
2.6.3 Faculty Empowerment Strategies:	• Adequate measures taken to enhance professional development of teaching and non-teaching staff. • Faculty encouraged to empower themselves by participating in orientation programmes / refresher courses / workshops / conferences etc. • Annual Academic Performance Index (API) reports prepared every year for faculty evaluation.
2.6.4 Financial Management and Resource Mobilization:	• Well defined and efficient financial management system exists. • Internal and external auditing of accounts done every year. • Concerted efforts to be made to mobilize resources form industry/external funding agencies.

2.6.5 Internal Quality Assurance System:	• IQAC takes active part in academic development and quality assurance processes. • Internal and external academic audit undertaken to improve institutional processes. • A mechanism is in place to review and monitor teaching learning process.
2.7 Innovations and Best Practices:	
2.7.1 Environment Consciousness:	• Green and clean campus. • Appropriate measures taken to make the campus eco-friendly (ex: tree plantation, hazardous waste management, e-waste management, solid waste management etc.). • NGOs in collaboration with the institution promote environmental consciousness amongst the students.
2.7.2 Innovations:	• Four patents filed. • Publication of e-journal J-BNB. • Assigning PRN to all students for monitoring the academic progress.
2.7.3 Best Practices:	• Association with NGOs to enhance institutional social responsibility. • Imparting value education through "Jagar Janivancha", Yoga and other value added courses.
Section III: OVERALL ANALYSIS	*Observations (Please limit to five major ones for each and use telegraphic language) (It is not necessary to denote all the five bullets for each)*
3.1 Institutional Strengths:	• Strategic location and good academic ambience. • A Principal leading by example, committed faculty, supportive staff and Management. • Good student support services. • Award of "Best College" status by UOM. • Short listed for CPE status by UOM
3.2 Institutional Weaknesses:	• Attrition of unaided staff in some courses. • Absence of a robust research culture. • Absence of a formal mechanism to promote consultancy. • Less than adequate interaction with Industry.
3.3 Institutional Opportunities:	• To obtain autonomous status. • Conducive ambience for introduction of additional viable job oriented / diploma / certificate courses. • Highly placed influential Alumni and local philanthropists.

	• Academic linkage for consultancy and collaborative research. • Effective utilization of the academic ambience to ensure global competitiveness.
3.4 Institutional Challenges:	• Retaining the past tradition and present reputation. • Changing the mind set of students towards innovation and change. • Mobilization of additional resources for furtherance of institutional processes. • Creation of additional physical facilities for new courses.

Section IV: RECOMMENDATIONS FOR QUALITY ENHANCEMENT OF THE INSTITUTION

(Please limit to *ten major ones* and use telegraphic language)
(It is not necessary to indicate all the ten bullets)

- Initiate steps to introduce Choice Based Credit System.

- Take measures to obtain autonomous status on priority basis.

- Establish English language laboratory for improving communication skills of students.

- Motivate teachers to get major research projects from National funding agencies such as UGC, DST, DBT, MoES, CSIR etc.

- Establish linkages with Mumbai Federation of Commerce and Industry to enhance employment opportunities of students.

- Take steps to see that IQAC plays a proactive role in promoting overall development of the institution.

- Take measures to promote research and consultancy.

- Take additional measures to promote institute-community-interaction.

- Take measures to conduct academic audit on a regular basis.

- Introduce a stringent feedback analysis system.

- Develop the library as a hub of modern teaching learning process.

I agree with the Observations of the Peer Team as mentioned in this report.
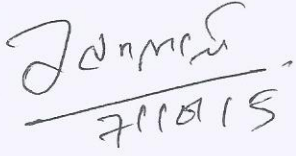
Signature of the Head of the Institution

Principal
V.P.M.'s
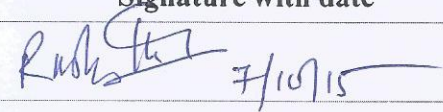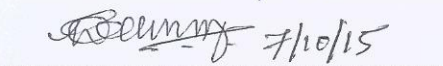B.N. Bandodkar College of Science
Thane (W.)

Seal of the Institution

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Signatures of the Peer Team Members:

Name and Designation		Signature with date
Prof. R.M. RANGANATH (Former Registrar, Bangalore University& Professor Dept. of Botany) Resi: No.112, 8th 'B' Main Road, 4th Block Jayanagar, Near Ganesha Temple, **Bangalore-560 011,** Karnataka	**Chairperson**	
Prof. D. CHANDRA SEKHARA REDDY UGC Emeritus Fellow Department of Fishery Science and Aquaculture Sri Venkateswara University, **Tirupati-517 502,** Andhra Pradesh	**Member Co-ordinator**	
Prof. R.L. MATHUR (Former Principal, Lachoo Memorial College of Science & Technology) Resi: B-35, Shastri Nagar **Jodhpur-342 003,** Rajasthan	**Member**	
Dr. Dr. GANESH HEGDE	**Assistant Adviser, NAAC**	

Place: Thane, Maharashtra   Date:

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8. PROFILE OF THE INSTITUTION

Name of the Institution	**Vidya Prasark Mandal's B.N. Bandodkar College of Science**
	Place: **Thane, Pin-400 601.** State: **Maharashtra**
Dates of visit	05th – 07th October, 2015
Affiliating University	University of Mumbai
Status of the College	Affiliated : [√] Constituent: [ ] Autonomous: [ ]
Financial Category	Grant-in-aid [√] Government funded [ ] Self-financing [√]
Type of College	Men [ ] Women [ ] Co-education [√]
No. of Departments	Arts: N.A. Science: 14 Commerce: N.A.
	Any other:-- Total: 14
No. of Programmes	UG: 13 PG: 10 M. Phil:--
	Ph.D: 05 Any other: Total:
Year of Establishment	1969
UGC recognition	Under 2 (f) and 12 B: Yes
Location of the College	Urban [√] Semi-urban [ ] Rural [ ] Tribal [ ]
Area of the campus (in acres)	13.5

No. of Teachers	Men	Women	Total
Permanent :	19	15	34
Temporary:	18	35	53
Total no. of Teachers Ph. D:	12	10	22
Total no. of Teachers M. Phil. :	01	02	03
Total no. of Teachers P. G. :	24	38	62
No. of Non-teaching staff :	Men	Women	Total
Technical Staff :	49	03	52
Administrative Staff :	18	16	34
No. of Students:			
UG:	675	940	1615
PG:	50	74	124
M. Phil:	N.A.	N.A.	N.A.
PhD:	13	16	29
Any other:			

		Name	Signature with date
1.	Chairperson:	Prof. R.M. Ranganath	_signature_ 7/10/15
2.	Member Coordinator:	Prof. D. Chandra Sekhara Reddy	_signature_ 7/10/15
3.	Member:	Prof. R.L. Mathur	_signature_ 7/10/15
4.	Assistant Adviser, NAAC:	Dr. Ganesh Hegde	
			signature **Signature of the Principal and Seal**