



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	GOKHALE EDUCATION SOCIETYS N B MEHTA VALWADA SCIENCE COLLEGE BORDI
Name of the head of the Institution	ANJALI SATISH KULKARNI
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02528254357
Mobile no.	9130904357
Registered Email	nmbbordioffice@gmail.com
Alternate Email	princikulkarni@rediffmail.com
Address	ACHARYA BHISE VIDYA NAGARI
City/Town	BORDI, TAL-DAHANU, DIST.- PALGHAR
State/UT	Maharashtra
Pincode	401701

<b>2. Institutional Status</b>	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed and grant-in-aid
Name of the IQAC co-ordinator/Director	KIRTIKUMAR BHIMJI PATEL
Phone no/Alternate Phone no.	02528254357
Mobile no.	9510110128
Registered Email	naacnbn3@gmail.com
Alternate Email	kirtinsk@gmail.com

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="http://nmbordicollege.com/NAACFiles/AQAR_2018-19.pdf">http://nmbordicollege.com/NAACFiles/AQAR_2018-19.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://nmbordicollege.com/NAACFiles/ACADEMIC%20CALENDAR%202019-2020.pdf">http://nmbordicollege.com/NAACFiles/ACADEMIC%20CALENDAR%202019-2020.pdf</a>

**5. Accrediation Details**

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	C++	67	2004	16-Feb-2004	07-Jan-2011
2	B	2.37	2011	08-Jan-2011	15-Aug-2018
3	B	2.33	2018	16-Aug-2018	15-Aug-2023

<b>6. Date of Establishment of IQAC</b>	22-Mar-2004
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**7. Internal Quality Assurance System**

Quality initiatives by IQAC during the year for promoting quality culture		

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Demonstration cum hands on training of modern instruments	10-Aug-2019 1	50
National Workshop on Stereochemistry and Pericyclic Chemistry	25-Nov-2019 2	100
CONTECH Examination	01-Feb-2020 1	90
Workshop on Intellectual Property Rights	04-Feb-2020 1	76
Online Webinar on Cyber Security	25-May-2021 1	268
Online Workshop on Review of New NAAC Methodology in Collaboration with ACS Shriwardhan College	26-May-2020 3	448
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Chemistry Department	National Workshop on Stereochemistry and Pericyclic Reactions	Royal Society of Chemistry	2019 2	51377
Dr. T. N. Ghorude	Minor Research Project	BCUD, University of Mumbai	2019 365	60000
Dr. S. S. Kadam	Minor Research Project	BCUD, University of Mumbai	2019 365	50000
Mrs. Chinmaya Bari	Minor Research Project	BCUD, University of Mumbai	2019 365	35000
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	
<p>1. Online Workshop on Review of New NAAC Methodology was organized in collaboration with ACS College, Shriwardhan from 26th to 28th May 2020 and attended by 448 participants. 2. National Workshop on Stereochemistry and Pericyclic Chemistry was organized in collaboration with Royal Society of Chemistry, West India Section. It was attended by 100 students and faculty members. 3. Workshop on demonstration cum hands on training was conducted by Prof. Roop Mallik for students of Physics department on 10th August 2019. It was attended by 50 students. 4. Online webinar on Cyber Security to spread awareness on online frauds was conducted on 25th May 2020 and was benefitted by 268 participants. 5. Faculty members were encouraged to undertake training courses on online teaching to over come challenges due to COVID19 induced online form of teaching. 45 faculty members attended various courses.</p>	
<a href="#">View File</a>	
<b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>	
Plan of Action	Achivements/Outcomes
No Data Entered/Not Applicable!!!	
<a href="#">View File</a>	
<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
Name of Statutory Body	Meeting Date
College Development Committee	13-Jul-2021
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No
<b>16. Whether institutional data submitted to AISHE:</b>	Yes

Year of Submission	2020
Date of Submission	17-Feb-2020
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The institution has partial Management Information System implemented. It is available for 1. Finance and Account 2. Student Admission and Support 3. Examination Following are the modules currently operational along with year of implementation for above listed MIS systems. ? Finance and Account: Name of the Vendor: Right System and Software, Nasik 02532570541 Year of Implementation: 201516 ? Student Admission and Support : Name of the Vendor: Microsys System,9422096906 Year of Implementation: 201011 ? Examination : Name of the Vendor: Microsys System,9422096906 Year of Implementation: 201112

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Every teacher is asked to write a diary which includes the planning of the curriculum and actual execution of curriculum. The planning is given at the beginning of semester/year and the details of the work done help to substantiate the plan. This also takes care of completing the syllabus on time. The diary is checked by concerned HOD followed by Principal at least twice in a year. In case of leave the class is taken by another colleague in the department. The loss of lectures is compensated by taking extra lectures on Sundays and other holidays. Its record is maintained in teacher's diary and attendance sheet. Academic calendar is prepared by IQAC and various activities such as guest lectures, celebration of various National/International days Sports and Cultural events and holidays are planned. The work is distributed equally among all colleagues in the department. There are sufficient laboratories, classrooms and seminar hall for effective curriculum delivery. Proper timing of lectures, practical's and tutorials is managed by well set time table. Feedback is taken department wise and result of student's examination is also analysed and result analysis is also printed in college magazine every year. Dr. T. N. Ghorude served as BOS member of Physics. Dr. P. K. Gogari authored a book name "Horticulture" is published by International E-Publication and "An Introduction of preparing fresh Sapota juice" is published by Ideal international publication. Dr. K. B. Patel from Chemistry department has authored a book entitled "Concise Graduate Chemistry II" for FYBSc students. Mrs. Chinmaya Bari from CS-IT department has authored a book on "Web Service" for TYBSc CS students. Department of Chemistry has organized a two-day

National Workshop in collaboration with Royal society of Chemistry on 25th and 26th November 2019 to enrich BSc and MSc Chemistry students on the topics Stereochemistry and Pericyclic reactions.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Nil	Nil	Nil	Nil	Nil	Nil

## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BSc	Additional Division	01/07/2019
PhD or DPhil	Botany	01/11/2019
<a href="#">View File</a>		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	All courses are under CBCS format since 2015	Nil

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	Nil	Nil

## 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Nil	Nil	Nil
No file uploaded.		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
Nil	Nil	Nil
No file uploaded.		

## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?

(maximum 500 words)

#### Feedback Obtained

Feedback is taken from Science and Commerce undergraduate and postgraduate students randomly which helps institution to fulfill students need, requirements and suggestions or to satisfy their complaints. Students demand of extra girls washroom was fulfilled from the feedback received from girl students and alumni feedback help institution a lot to understand their problems. Students have reported that the syllabus is quite challenging and will help them in their future upliftment. Alumni has also reported that the syllabus taught to them was challenging and beneficial. They have also reported about good supply of library materials. Report of alumni states that there is more than 52 e-source available for students and campus environment is very good and healthy. Report of alumni also states that laboratory training given to them during undergraduate and postgraduate level helped them in their industrial work. Students have also mentioned about the placement given to them. After the month of February-2020 due to the rapid spread of Covid 19 all over the world many examinations were cancelled, students were given promotion based on their internal work but final year examinations were carried out on online mode. Students thank for this pattern of examination and not wasting their academic year. Students have mentioned that teachers are easily available out of the class also. Sr. No Suggestion Action taken 1 Requirement of science reference books Fulfilled 2 Requirement of commerce books Fulfilled 3 Increase of no of computers for online CAP assessment Fulfilled 4 Requirement of Freezer in Botany laboratory Fulfilled

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MSc	Information Technology	30	27	27
MSc	Physics	10	7	7
MSc	Chemistry	34	51	34
MCom	Accountancy	60	15	15
BCom	Commerce	240	210	208
BSc	Computer Science	24	40	23
BSc	Information Technology	60	100	60
BSc	Biotechnology	35	22	11
BSc	Microbiology	15	35	15
BSc	Chemistry and Physics	120	250	120

[View File](#)

### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled	Number of students enrolled	Number of fulltime teachers	Number of fulltime teachers	Number of teachers
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	in the institution (UG)	in the institution (PG)	available in the institution teaching only UG courses	available in the institution teaching only PG courses	teaching both UG and PG courses
2019	1164	172	17	Nil	42

## 2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
59	13	4	3	Nil	7

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Students mentoring is available in selected courses such as Chemistry, Biotechnology and Commerce. This will gradually be extended for entire student community. Two five students of T.Y. Biotechnology were encouraged to participate in CASI-MAHA MODEL UNITED NATIONS 2020 workshop on 28th 29th February 2020 at University of Mumbai, Kalina campus. Extra efforts were taken by the staff members to prepare them for the event which resulted in students winning awards in different categories. Department of Biotechnology regularly arranges SATURDAY KATTA, a platform for students to present and discuss any topic of their choice. T.Y. biotechnology student Mr.Piyush Bharadwa published the paper “In vitro Antioxidant, antimicrobial and phytochemical studies on Soymidafebrifuga bark extract” in International Journal of Advanced Science and Technology , vol.29 (2020) under guidance of Mrs. V. S. Chaudhari (Dept. of Biotech) and Dr. P. K. Gogari (Dept. of Botany) Students are informed and encouraged to appear for various exams like SET. NET, JNU, JAM, MPSC, and UPSC. Extra coaching is given to the willing candidates by the staff members. Special reference books are purchased. Department of Biotechnology has a collection of some reference books in the department which students can use for their studies.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1336	59	1:23

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
59	59	Nil	Nil	13

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Mrs. Anjali S. Kulkarni	Principal	BEST COLLEGE AWARD
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## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during



the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MSc	MSc	2020	13/10/2020	14/12/2020
BSc	TYBSc	2020	12/10/2020	01/11/2020
MCom	MCom	2020	13/10/2020	11/11/2020
BCom	TYBCom	2020	14/10/2020	29/10/2020

[View File](#)

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Periodical tests are taken by some departments. Department of Biotechnology, Computer science and Information Technology conduct internal tests for F.Y. and S.Y. students. Seminars are taken for Msc. Courses. In Foundation Course, students are asked to present their projects.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The College plans and organizes teaching, learning and evaluation schedules by providing Academic Calendar. All teaching staff members are asked to write down their teaching plan in accordance with this calendar in their individual diaries. The diaries are checked by Head of the Department and Principal on regular basis to ensure implementation of the same. Schedule of the exam for F.Y. and S.Y.B.Sc./B. Com, T.Y.B.Sc./B.Com and Msc./ M.Com is given by the University. The first two papers of first second year were conducted offline by the college, but due to Covid -19 pandemic situation, exams were conducted online within the prescribed time given by the University.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

[http://nmbordicollege.com/NAACFiles/PSO's\\_CO's\\_Overall.pdf](http://nmbordicollege.com/NAACFiles/PSO's_CO's_Overall.pdf)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
TYBSc	BSc	Chemistry	101	101	100

[View File](#)

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://nmbordicollege.com/NAACFiles/AOAR-2019-20-2.7.1-SSS.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	365	BCUD, University of Mumbai	1.45	1.45
<a href="#">View File</a>				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Workshop on Intellectual Property Rights	Commerce Dept and IQAC	04/02/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	Nil	Nil
No file uploaded.				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil
No file uploaded.					

### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NIL	Nil

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Physics	2
Chemistry	1
Botany	2
Commerce	4
Computer Science/Information	1

**Technology**

No file uploaded.

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
<b>Attended/Seminars/Workshops</b>	<b>18</b>	<b>45</b>	<b>12</b>	<b>9</b>
<b>Presented papers</b>	<b>4</b>	<b>10</b>	<b>Nil</b>	<b>Nil</b>
<b>Resource persons</b>	<b>1</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>
<a href="#">View File</a>				

**3.4 – Extension Activities**

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>Nil</b>
<b>No file uploaded.</b>			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
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NIL	NIL	NIL	Nil	Nil
No file uploaded.				

### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
NIL	NIL	NIL	0
No file uploaded.			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
NIL	Nil	NIL	Nil
No file uploaded.			

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
90.99	106.13

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing

Campus Area	Existing
<a href="#">View File</a>	

#### 4.2 – Library as a Learning Resource

##### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
SOUL 2.0	Partially	MSSQL and MySQL	2015

##### 4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. Kirtikumar B. Patel	Quantum Chemistry	YouTube ( <a href="https://youtu.be/QmQBUHLlirI">https://youtu.be/QmQBUHLlirI</a> )	28/04/2020
Dr. Kirtikumar B. Patel	Vitamins	YouTube ( <a href="https://youtu.be/MQGY_BwCvmU">https://youtu.be/MQGY_BwCvmU</a> )	14/05/2020
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	113	4	113	2	0	8	16	45	0
Added	20	0	20	0	0	0	0	5	0
Total	133	4	133	2	0	8	16	50	0

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

50 MBPS/ GBPS
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##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Laptop, desktop with webcam	<a href="https://youtu.be/OmQBUHLlirI">https://youtu.be/OmQBUHLlirI</a> <a href="https://youtu.be/MQGY_BwCvmU">https://youtu.be/MQGY_BwCvmU</a>

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
76.23	6994000	3.35	312000

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The Institution provides suitable facilities according to the needs of the various courses as and when required. For Curricular and co-curricular activities. Classrooms-22, Laboratories-18, ( Chem.-3, Phy-2, Bot-1,Zoo-1,Biotech-2, Micro-2, Comp-6, Eletronic-1),Exam rooms-2, Ladies room-1, Seminar cum Conference hall -1, Botanical garden, Stage for cultural activities , Sports, NSS, NCC, Staff common rooms, Store room and Staff quarters etc. Every laboratory is provided with the necessary equipments and apparatus. In teaching learning process Charts, models, structures are provided Extra -curricular activities - Sports: Sports kits for chess, carom, cricket, Volley ball, Badminton, Athletics events material are provided for indoor and outdoor games. Gymnasium and Auditorium available. NSS, NCC, Cultural activities, public speaking and communication skill development program conducted in conference hall. Yoga day activity conducted on college ground, health and hygiene awareness programme organized in hamlets. College library is partially automated and Uses SOUL 2.0 Library Management Software. In computer labs, depts. Office, library IT facilities including LAN are updated regularly. There are 4 PCs in library for internet browsing and 6 PCs in IT department for students internet sharing. Firewall and Social network sites and ecommerce Web Pages are restricted. PCS are protected with latest versions of antivirus single firewall system install in and updating Internet sharing PCS are formatted at the end of each term. The maintenance of all IT related equipments, phones, intercom etc. is outsourced. Routine cleaning and dusting of the rooms, office, laboratories and campus is carried out by the non teaching staff and attendants of each department. Common areas and toilets are cleaned and maintained by staff hired on daily wages. The water supply, water storage, cleaning of storages is carried out by the support staff. Maintenance of water of cooler, sanitary pad, vending machine, electrical equipments is taken care by support staff. 5 gardens are also maintained by support staff.

The yearly maintenance of these gadgets and equipments is outsourced. The sports equipments are jointly taken care of /by a teaching staff and office. INFRASTRUCTURE DETAILS IN THE ACADEMIC YEAR 2019-20 The institution provides suitable facilities according to the needs of the various courses as and when required. For Curricular and co-curricular activities- Classrooms-22, Laboratories-18, ladies room-1, Seminar cum Conference hall -1, Botanical garden, stage for cultural activities , sports, NSS, NCC staff common rooms, store room staff quarters etc. Every laboratory is provided with the necessary equipments and apparatus. In teaching learning process Charts, models, structures are provided Principal office- 241sq.ft. Vice Principal office-135 sq.ft. Principal quarter- 575 sq. ft. CLASSES AREA LABORATORIES AREA OTHER AREA LH1 627sq.ft. LAB1(Chem.) 485 sq.ft. LADIES ROOM 441 sq.ft LH2 627sq.ft. LAB2(Chem.) 1654 sq.ft. STAFF ROOM 336 sq.ft LH3 401sq.ft. LAB3(Chem.) 627 sq.ft. MATHS DEPT. 81 sq.ft. LH4 488sq.ft. LAB4(Physics) 355 sq.ft. CONFERENCE HALL 1287 sq.ft LH5 488sq.ft. LAB5(Physics) 872 sq.ft. OFFICE ROOM-1 485 sq.ft LH6 627sq.ft. LAB6(Biotech) 627 sq.ft. OFFICE ROOM-2 60 sq.ft LH7 241sq.ft. LAB7(Zoology) 823 sq.ft. OFFICE STORE ROOM 256 sq.ft LH8 627sq.ft. LAB8( Botany) 823 sq.ft. EXAM.ROOM 241 sq.ft. LH9 627sq.ft. LAB9 ((Micro.) 627

<http://nmbordicollege.com/NAACFiles/Procedures%20and%20policies%20for%20maintaining%20and%20utilizing%20physical.pdf>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	NIL	0	0
Financial Support from Other Sources			
a) National	Freeship and Scholarship	334	3298675
b) International	Nil	Nil	Nil
<a href="#">View File</a>			

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

#### 5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

#### 5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

### 5.2 – Student Progression

#### 5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

#### 5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students	Programme graduated from	Department graduated from	Name of institution joined	Name of programme
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	enrolling into higher education				admitted to
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	1
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Teachers Day Celebration: To mark the birth day of Dr. Sarvpalli Radhakrishnan, the 5th September is celebrated as teachers' day. The Students council members organized teacher's day programme where students performed the role of teachers for a day and conducted lectures as per the time table. Total number of students attended the class on teacher's day: 123 Comfest: Comfest, an Intercollegiate Commerce festival was organized on 18th 19th Dec, 2019 Comfest 2019 was inaugurated by Bank of Baroda Manager, Mr. Ajit Kumar. He spoke on topic Carrer Guidance after B.Com. It was celebrated for 2-days and students from nearby colleges participated in various competitions. Blood donation Camp: Every year our college organizes Blood donation camp to mark the birth anniversary of our esteemed donor Late Shri. Nagarji Bhai Bhagwanji Bhai Mehta. This year also NSS unit of our college organized the blood donation camp in association with our NCC unit and Thane blood bank and Hospital on 23rd September 2019. Dr. Raju Kale and his team members were coming for this program. Total 87 units of blood were collected. All NSS volunteers, NCC cadets, teaching and non-teaching staffs participated actively in this program. Sports, Days and Prize Distribution: Every year in the month of December viz., days, Sports and prize distribution are held. Various events and days are organized viz., Tie-day, Saree- day, Green-day and various events under sports such as Kho-Kho, Cricket, and Volley ball, Throw ball, Table-Tennis, Cricket Badminton etc. Apart from these events, Individual events were also organized such as Running, Javelin throw, discuss throw, Long jump and Shot- put. Students from various streams participated in this event. On 24th December 2019 Annual cultural programme was organized wherein students actively participated in various events viz., singing, Dancing, Drama skits etc. Winners were awarded prizes by the hands of chief guest Dr. Sanjay Jagtap, Joint director, Panvel.



Exhibition on Marathi Books and Literature: N.B. Mehta Science College, Bordi had organized exhibition on Marathi Books and Literature on 27/02/2019 to mark the birth of "Kusumagraj" (V.V. Shrivadkar) and "Marathi Basha Gauvrav Din" from 9.30am to 3.00 pm. In the exhibition more than 785 books were exhibited, which includes short stories books, Novels, Dramas, poetry books, biography and autobiography. The teaching and non-teaching staff and students of Science and Commerce visited the exhibition. Exhibition of Books and Literature: N.B. Mehta Science College, Bordi had organized exhibition of Books and Literature on 15/10/2019 to mark the birthday of "Bharat Ratna Dr. A.P.J. Abdul Kalam" and "Wachan Prerana Din" from 10.00 am to 3.00 pm. In the exhibition more than 695 books of Marathi and English language were exhibited, which includes short stories books, Novels, Dramas, poetry books, biography and autobiography written by famous authors. The teaching and non-teaching staff and students of Science and Commerce visited the exhibition.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Nil

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The Principal initiates discussion and consultation with members of the staff and the head of the Departments on proposal concerning the Institutions future development and ensures that such proposals are presented to the management in the meeting of College development committee. To achieve the vision and according to the mission of the institution top management and principal distribute work among the staff members through various committees. The Heads of the Departments and faculty members heading committees in co-ordination, execute the plans and policies. The faculty members are actively involved in implementing quality improvement plans and programs. Formation of Students Council:- At the beginning of academic year Student council forms according to rules of University of Mumbai and Government of Maharashtra. Council Constitutes student members from all the classes of science and commerce faculties, representatives from sports, NSS, NCC and cultural representatives. Principal and Incharge of Students Council gives permission to the students to organize or conduct various events and programs. Students take leadership to complete the relevant Programmes. General Secretary distributes work to the students as per their interest. Problems of students are put in front of college management through student's council and are resolved by them. In such a way number of programmes/ events are organized and conducted by the students themselves viz: COMFEST, MICROMAGIC, National Chemistry Workshop, Science exhibitions (Zoology/IT/Chem) and Annual Social gathering. General secretary of Students Council prepares a report on all the activities, programs, academic

results of all the classes, departmental events, achievements of students, faculties, non-teaching staff etc. and presented in the Annual prize distribution function. In this way the responsibility of every event is shared by staff and students which encourage decentralization and participative management. Magazine Committees: College publishes annual magazine "Amaranth".

Regular meetings of Magazine committee are organized to discuss about the magazine. Committee includes teachers as well as students. Magazine committee interacts with students throughout the year and inspires / encourages students to think and to write articles, which enhances the reading and writing abilities of the students. College sends students to renowned personalities in the nearby vicinity to interview them. Students are trained for such interviews or interactions. Personalities are entrepreneurs, industrialist, ideal farmers, social worker etc. Interactions with such personalities help to inculcate the skills of entrepreneurship, communication skills and social awareness among the students. Every year magazine is published with a special theme. Basic Theme is related to current issues or scenario. Apart from the theme other articles are also accepted. Based on the theme students are asked to give articles, essays, poems, posters etc. which are screened by magazine committee and published.

This activity encourages students to write, speak and discuss about varied topics. College Magazine reflects all the activities conducted by college, departmental reports, teachers, students, nonteaching staff achievement of the current year.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Admission process and schedule as directed by the University is displayed on notice board and college website. Admissions are given on the basis of Merit. Merit lists are prepared and displayed on college website and Notice Board. Admission schedule is followed as per the norms and reservation policies of University and Government of Maharashtra.
Industry Interaction / Collaboration	Microbiology department has industrial collaboration with two industries from GIDC, Umbergaon namely Hindustan Pencils Pvt. Ltd. And Fermado Fruit Blends. Chemistry department organizes campus placement in collaboration with various industries such as Chemical, pharmaceuticals, perfumes, surfactants etc from MIDC and GIDC. B.Sc. and M.Sc. students are benefited. Department of I.T. and Computer science organizes campus placement in association with western region colleges.
Human Resource Management	The various committees are assigned as per the interest or specialty of teachers. Supporting staff also

assigned their duties as per their skills, capacities and interest.

Library, ICT and Physical Infrastructure / Instrumentation

Library provides internet facility, Softcopies, of CD's, DVDs of books and Magazine are given to student and teachers for reference and Library Installed SOUL 2.0 (Library Management Software). Library is registered under UGC, Infflibnet , N-LIST (National Libraray and Information Services Infrastructure for Scholarly Content) A college component of e-Shodhsindhu consortium with access to 6,000 journals, 1,64,300 ebooks under N-LIST and 6,00,000 ebooks through NDL. Which can access by students as well as staff members College has Generator (30 Kva) facility which gives complete back up in case of power cut (load shading). Department of Computer science and I.T. enabled with Wi-Fi facility. Projectors:4, Water suction pump:1, Solar Distillation plant:1 Solar Distillation plant saves electricity consumption. Water suction pump reduces electricity consumption 3 times and it is maintenance free. Open air auditorium is available for cultural and other co curricular activities for teachers and students. College has water cooler purifiers fire extinguishers well equipped seminar hall, a large playground, and gymnasium. Solar Electricity panel installed for some of the laboratories to electricity consumption and plan to increase solar panels for other laboratories.

Research and Development

The staff members continuously update themselves through research activity, attending workshops seminars or orientation, refresher courses. Teachers are encouraged to do research. They submit research projects to various agencies such as UGC and University. College provides facility of research to teachers. College sanctions duty leave, financial assistance, laboratory facility, computers, internet facility etc. College motivates teacher to write books and articles. Some of the teachers have written books and articles in their respective subjects. Two research centers are recognized by University of Mumbai in the subject Physics and Botany, One Student

completed Ph.D. and 05 are registered for Ph.D. College applied to University for research center in the subject Zoology. College organizes workshops and seminars for the benefit of staff.

Examination and Evaluation

Continuous evaluation of students throughout the year through unit tests, assignments, internal tests, projects etc. Exams are conducted as per the norms of University and evaluation is done in CAP. Theory and practical examination in applied components subjects is conducted by college as per the norms of University. College established on screen marking evaluation CAP centre for University paper assessment in IT/CC building. All the University exam papers are assessed in this OSM CAP center by faculty members of college. It is under CCTV Surveillance. Due to Covid-19 pandemic exams were rescheduled and conducted through online mode by the college as per guidelines of University of Mumbai and Government of Maharashtra. Examinations of Summer session (First half 2020 exams) were conducted between 15th September and 15 October 2020 through online mode. All theory exams were conducted on MCQ pattern, so the results were submitted to the university within stipulated time after completion of examinations as per University directives.

Teaching and Learning

Teachers use modern teaching techniques during teaching. The teachers of most departments make use of chart, model, graphs, diagrams, notes, model questions, projector, overhead projector, black board, white board, reference books etc. Departments arrange study tours, industrial visits exhibitions poster presentations, student's seminars, periodic tests, conducting case studies and on the job training programs. All this helps to create an atmosphere conducive to learning. Students are guided for the various competitive exams. College motivates students for competitive exams Students avail the facility of competitive exam books from college library.

Curriculum Development

? The syllabus is framed by University. Before the syllabus is finalized by the University, it organizes meetings and discussions

regarding revision in the syllabus. ? Teachers sent to participate in syllabus meeting, so they are indirectly involved in curriculum development. ? Some of the teachers are working in Board of Studies (BOS). They directly contribute to curriculum development. ? Some teachers are members of University Syllabus revision Committee and actively involved in the syllabus revision.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Nil
Administration	Nil
Finance and Accounts	Name of the Vendor: Right System and Software, Nasik 0253-2570541 Year of Implementation: 2015-16
Student Admission and Support	Name of the Vendor: Microsys System,9422096906 Year of Implementation: 2010-11
Examination	Name of the Vendor: Microsys System,9422096906 Year of Implementation: 2011-12

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Workshop on Intellectual property rights	Nil	04/02/2020	04/02/2020	76	Nil
2020	Online Webinar on Cyber	Nil	25/05/2020	25/05/2020	268	Nil

	security					
2020	Review of New NAAC methodology organized in collaboration with ACS College, Shiwardhan	Nil	26/05/2020	28/05/2020	448	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
No Data Entered/Not Applicable !!!				
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
21	38	13	17

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1. PF / DCPS scheme for Grant in aid staff as per the provisions 2. EPF scheme is made available for non-grant staff by the institution. 3. Facility of medical reimbursements for Grant in aid staff is given by the government. Applications are sent by the college to competent authority. 4. Medical reimbursements for non-Grant staff by the institution in some cases.</p>	<p>1. College gives advance payments to the teaching and non teaching staff during emergency. 2. College provides uniform to the non teaching staff. 3. College offers Diwali Bonus to non-teaching staff.</p>	<p>1. College gives permission to pay fees in the installments. 2. College has a policy to give concession in the fees to the needy students. 3. In some of the cases college has waived the complete fees of students.</p>

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

<p>Institution follow the rules and regulations specified by regulatory bodies Institution conducts internal and external financial audits regularly. Internal audit is conducted by G.E. Society's Chartered Accountant annually. Joint Director of Higher education, Accounts Officer and Auditor General conducts external audit and assessment periodically.</p>
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6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Royal Society of Chemistry	51377	Workshop on Stereochemistry and Pericyclic reactions for post graduate students and Staff
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6.4.3 – Total corpus fund generated

51377
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### 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	No	Null
Administrative	No	Null	No	Null

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Although we didn't have registered Parent - Teacher Association, but department of Computer science and Information Technology arranges Parent meeting to share the progress of students in academics and extra-curricular activities. Department In-charge gives information regarding various and programmes conducted by department for the benefit of students. If the performance of student is not satisfactory then college calls parents to discuss difficulties or problems of students. Department of Microbiology arranges Alumni meetings to encourage the undergraduate students.

6.5.3 – Development programmes for support staff (at least three)

Support staffs are encouraged to pursue further education and develop themselves by improving educational status. College felicitates such staff in annual prize distribution function to encourage them and other staff. College sends support staff for workshops related to work assigned to them.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Infrastructural augmentation: Classrooms are augmented from number 15 to 22.
2. Number of ICT equipped rooms are 03.
3. Applied again for extra division for F.Y.B.Sc to fulfill need of the students.
4. College applied for research center in the subject Zoology.
5. Faculty members are encouraged to apply for P.G. recognition and Ph.D. guide ship to increase research environment.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Null
c)ISO certification	Yes
d)NBA or any other quality audit	Null

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	National Workshop on Stereochemistry and Pericyclic reactions in collaboration with RSC Mumbai Branch.	07/08/2019	25/11/2019	26/11/2019	100
2019	Lecture cum demonstration of instruments by Prof. Roop Mallik and his team from TIFR, Mumbai	07/08/2019	10/08/2019	10/08/2019	50
2020	Workshop on Intellectual property rights	01/02/2020	04/02/2020	04/02/2020	76
2020	Online Webinar on Cyber security	25/05/2020	25/05/2020	25/05/2020	268
2020	Online workshop on Review of New NAAC methodology organized in collaboration with ACS College, Shiwardhan	25/05/2020	26/05/2020	28/05/2020	448
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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Self Defense training for female	03/10/2019	03/10/2019	60	Nil



7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Instead of using heating mantle, Department of Chemistry has started using Solar Distillation Plant from academic year 2017-18. This gives 2.5 litres of conductivity water per day thereby reducing the power requirement. Heating mantle of 2000W if used continuously for 8 hours gives 7 to 8 litres of conductivity water. Consequently 1 litre of conductivity water - requires 2 units of current. Department of Chemistry requires 200 litres of conductivity water per year. 200 litres of conductivity water require 400 units of (energy) electricity. With the help of solar Distillation Plant, we will be able to save 400 units of electricity. The suction pump, we have been established in April 2018, is a water suction pump. It is ecofriendly as instead of oil we are using water. As water is recycled so wastage of water is avoided. In the oil pump there were chances of oil spill as well as filtrate getting contaminated with oil so in this suction pump these problems are avoided. The suction pump is economic as we do not need to change oil as it works on water. It is easy to operate and has zero maintenance cost. Before these 3 separate suction pumps were used in 3 different labs. But now with single suction pump 3 vents are provided in each lab, so as to make the filtration process easy and fast. The 3-pump used previously were of 0.5HP each so total 1.5HP was used, now this single pump is of 1HP so consumption of power is reduced by 0.5HP. Hence, we can say that it has 3-fold suction capacity over oil suction pump. In an effort to initiate the Green Energy Drive, we have installed solar panel to run computers of 04 departments viz. Biotechnology, Microbiology, Botany and zoology from academic year 2019-20. If all computers are operated, we can save 6W of electricity per day thereby 180W of electricity is saved per year.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	1
Physical facilities	Yes	1
Any other similar facility	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	Nil	08/04/2020	1	Covid-19 Training for NCC Cadets	To help citizens to download Aarogya setu App and helped them to registration and also	52

						explained them its usefulness.	
2019	Nill	1	21/12/2019	3	Science Exhibition	Health, Nutrition and Environment	24
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Prospectus for students	01/06/2019	<p>Code of Conduct for students is included in the Prospectus which students buy before seeking admission. They are made aware of the rules and regulations regarding discipline, code of conduct in college, attendance even before receiving admission. This is being repeated and reinforced during the Principal's address to all the first-year students.</p> <p>Furthermore, it is regularly displayed on the digital notice board. I-cards are issued to all the students which they have to compulsorily wear. Surprise checking of the I-cards is carried out to ensure that only bonafide students are on the campus. Regular attendance is taken and monitored and necessary action is taken in case of absenteeism. The entire campus is under CCTV surveillance and all the activities are closely monitored on the large screen by the Principal in the office.</p> <p>Every year in the beginning of Academic year we conduct Principal's address to narrate rule and regulation to new comers.</p>

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Yoga Day	21/06/2019	21/06/2019	52
Blood Donation Camp	23/09/2019	23/09/2019	104
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1) Rain water Harvesting: Rainwater is collected from the rooftop of the College building, with the help of systematically laid pipes and stored in a well. This helps in reinvigorating the well water and supply water in summer. The well is a boon during the months of water shortage. Rain water is also collected in tanks to be used for Science practicals. 2) Most of the students prefer public transport such as trains and buses for travelling purpose. Students who live at nearby places come to college by walk. Some students and staff members use sacks made out of cotton cloth for carrying necessary things. 3) Instead of using heating mantle, Department of Chemistry has started using Solar Distillation Plant from academic year 2017-18. This gives 2.5 litres of conductivity water per day thereby reducing the power requirement. Heating mantle of 2000W if used continuously for 8 hours gives 7 to 8 litres of conductivity water. Consequently 1 litre of conductivity water - requires 2 units of current. Department of Chemistry requires 200 litres of conductivity water per year. 200 litres of conductivity water require 400 units of (energy) electricity. 4) The Department of Computer Science and IT, is housed in a separate building and has 02 laboratories equipped with thin client technology and 03 have standby machines. Thin client helps to reduce power consumption. Holy basil plants are placed near the Computer laboratories to ensure carbon neutralization. IT equipments are periodically updated with higher electrical efficiency to reduce power consumption. 5) Since May 2018, Chemistry department uses water suction pump instead of oil vacuum pumps. It is ecofriendly as instead of oil we are using water. As water is recycled so wastage of water is avoided. In the oil pump there were chances of oil spill as well as filtrate getting contaminated with oil so in this suction pump these problems are avoided. The suction pump is economic as we do not need to change oil as it works on water. It is easy to operate and has zero maintenance cost. Before these 3 separate suction pumps were used in 3 different labs. But now with single suction pump 3 vents are provided in each lab, so as to make the filtration process easy and fast. The 3-pump used previously were of 0.5HP each so total 1.5HP was used, now this single pump is of 1HP so consumption of power is reduced by 0.5HP. Hence, we can say that it has 3-fold suction capacity over oil suction pump. 6) In an effort to initiate the Green Energy Drive, we have installed solar panel to run computers of 04 departments viz. Biotechnology, Microbiology, Botany and zoology from academic year 2019-20. If all computers are operated, we can save 6W of electricity per day thereby 180W of electricity is saved per year.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

(1) Title of the Practice: Maintaining Teacher's Diary: Objectives: 1) To enhance Teachers' accountability towards institution and self. 2) To develop a tool for documentation at the micro level for individual teachers 3) To help record all such activities which teachers performed as duties as well as beyond their stipulated workload. 4) The diary provides the Head of the Department as well as the Principal a detail picture of the teacher's classroom activity. 5) The Diary pages have a remark column, which individual teacher is expected to use for jotting down any suggestions, complaints, and grievances necessary to

be brought to the notice of the authorities. The Context: College maintains various records such as daily attendance of students, musters for teachers, individual timetables at departmental and College level. Since these are separate records, there was no mechanism to get all the details of an individual teacher's contribution at a glance. There was no mechanism, which could help teachers to record their daily work. The additional duties, which they undertook, such as working in various College committees, conducting extra lectures, counseling students, helping weak students and other such activities were not properly documented. Their contribution would go unrecorded and the teachers felt that such involvement should be noticed and recognized. Hence, Teacher's Diary was devised and is in use for the past eleven years.

The Practice: At the beginning of every year, the individual teacher gets a diary from College office. Diary is divided into three parts: 1) Annual/Term wise teaching plan, distribution of syllabus, and individual timetable is appended on the back cover page of diary. The Mission, Goals and Objectives are printed on the inside of the front cover page that constantly reminds our teachers of their role in entire working of the College. 2) Actual practical, classes taken by teacher, time, venue, number of students present in the classroom, portion taught and a remarks section where teacher is free to note down anything worth mentioning from inconvenience in classroom, exchange of lectures, leave taken, any other significant point. 3) Library record, books borrowed, returned from library or elsewhere etc. The Diary is used in the following manner: The Principal issues a notice after every three months/a stipulated period for submission of diary. Head/In charge of the department checks diary, signs it and sends it to the Principal on the date mentioned. The Principal checks entries, makes observations where necessary and sends it back to individual members. Evidence of Success: The Diary helps Staff members to maintain a true record of the actual work done such as classes engaged, syllabus completed, extra work done, meetings attended It helps in communicating problems or other significant issues to the Principal and establishing a dialogue. It helps to maintain a record of student counseling, library visits, inter departmental activities, co-curricular and extracurricular activities, record of leaves taken along with purpose etc. HoD /IC can keep track of the work done by the departmental colleagues it helps to monitor planning of work, teaching assignments and syllabus completion, solving problems of all kinds faced during the actual working in laboratories and lecture halls etc. The diary helps the Principal to maintain a free and fair communication both ways between the staff, head, and take an overview of the work accomplished. The daily attendance provides a picture of students' as well as teachers' academic involvement. Problems are sorted out before they escalate and get out of control. The diary is a micro-representation of entire work carried out during the academic year by every individual member and it helps in maintaining fair and prompt records. Problems Encountered and Resources Required Reluctance of the Teachers: The most important problem, which we faced initially, was trying to convince the teachers of the relevance and significance of maintaining a diary. They first were a little reluctant to adopt the diary because maintaining the diary meant adopting a transparent attitude towards recording their work. They were also a little apprehensive about filling the diary daily which meant spending some time of their day regularly to write down details about the work done or otherwise in their diary. Suspicious about use of information: The teachers had to be ensured that the details in the diary would be used strictly for enhancing teacher credibility and accountability. At the outset they had to be explained how to make entries in the given columns and how each of them was interrelated. The resources required for this Best Practice viz. maintaining a Teacher's Diary is a printed diary and the data of teachers' activities. (2) Title of the Practice: Khorepada Health checkup Camp Objectives 1) To develop in students, especially NCC cadets the sense of social responsibility 2) To develop strong ties with the local community 3) To act as

facilitators of medical care and develop health related awareness among the villagers and especially primary school students 4) To help in developing connections between the local health services and villagers. 5) Enabling other people and institutions who are interested in helping the community, participate in this activity 6) Helping primary school teachers deal with issues related to health and hygiene of their students

**The Context:** The College is situated in the remote, tribal belt of the former Thane district that is now changed to Palghar. Majority of our students belong to the tribal communities and come from the economically weak background. Education is the only means of improving their quality of life. It is necessary to impress upon the local community the importance of education at a very young age. Most parents are uneducated or poorly educated. It was necessary to develop a rapport between the local community and the College. It was also important to ensure that students did not quit education at the primary level itself. The health and hygiene concerns had to be addressed. Therefore, we decided to organize an annual health checkup camp in this area.

**The Practice:** In 2011-12, we chose Khorepada village situated in the interior part of the Jambugaon, Gram panchayat. It is at a distance of about 11 kms. from our College. The population according to the 2011-2012 census was 257 people, all tribal. The student strength of the local school is 114 students in the current year. It is difficult to access this region especially in the rainy season. After consulting the primary school teachers and the Panchayat members, we decided to initiate a free health checkup camp for the benefit of the villagers. We requested local government health authorities. They readily sent a team of doctors from Dahanu Cottage Hospital and Primary Health Centre, Gholvad. Usually, the village market day is chosen so that villagers do not have to sacrifice their daily wages for attending the camp. A small canopy is erected at the venue which attracts the villagers. Team of doctors conducts a general health checkup and supplies free medicines. In case of complicated cases, they refer patients to district hospitals for free treatment. Our NCC cadets assist them in checking the patients, maintaining discipline, sending each patient systematically in queue, helping patients explain their problems and giving them medicines prescribed by the doctors. They feel completely involved in the whole process. The College donated five computers to the primary school at Khorepada in 2014-15. The College distributes biscuit packets, fruits etc. to the primary school students. This practice, which began in 2011-12, has continued for the past eight years and we wish to conduct it in years to come. However, in March 2020 due to the onset of the pandemic COVID 19 we were not able to arrange the annual visit to Khorepada. Instead of this activity, our NCC cadets undertook to contribute to raising awareness among the public regarding the pandemic. They completed training for COVID19, participated in Quiz competitions, Yoga Day, and pledged to be Vocal for Local. The most important contribution from 52 NCC cadets was their efforts to help as many citizens as possible to download the Arogya Setu App. They explained to the usefulness of the application and helped them to register.

**Evidence of Success:** Our NCC cadets are eager to participate in this Camp. It gives them the satisfaction of helping the local community solve their health-related problems. They become aware of the precautions they themselves should take for developing a healthy life style. The Khorepada people await our camp that is usually arranged in the month of April.

**Problems Encountered and Resources Required** The major problem is that even if we would like to, we are not able to conduct the health camp more frequently. The availability of the team of doctors and other medical staff is a problem because they are very busy in their hospitals. There are a few problems in arranging the camp. The activity requires a lot of planning, liaison among medical team, village authorities and the convenience of the College. With the busy academic schedule, it becomes difficult to find enough time for arranging camps frequently.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://nmbordicollege.com/NAACFiles/Best%20Practices-2019-20.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The College was established in 1994, guided by the vision and mission which support the academic and socio-economic development of the tribal students as well as those situated in the remote Adivasi belt of Palghar district. The tribal students, economically less privileged students and geographically distanced students who secure admission to the various courses run by our college are able to build their careers with the help of the education received from our faculty and college. Our teachers help them to improve their personality, especially the SC and ST Students so that they are prepared to face global competition. College in all its aspects such as increased number of programs and courses, well developed infrastructure, faculty guidance, library facilities, sports and extracurricular activities plays a very significant role in the improvement of students' capabilities. A majority of our students belong to tribal families and socially marginalized groups. Many of them are first generation learners. They belong to illiterate families, suffer from cultural disorientation and sometimes have migrated from their native places. At the FY level many of them hesitate even to talk in the local language to the faculty members regarding their difficulties. However, we identify such students and help to solve their problems at the departmental level or at the individual level. We help them to correspond with government authorities like the Samaj Kalyan office for their hostel accommodation, scholarship issues, filling online forms, availing book bank schemes, concessions etc. With encouragement and support these students gradually develop into confident and responsible citizens of India. We are happy to see them complete their graduation and post-graduation and secure placement. Half of the student strength consists of girl students. There are no Science Colleges in the vicinity and had our College not been established the girl students would have found it very difficult to pursue higher education. Our College contributes in a large measure to the empowerment of girls through imparting higher education and enhancing their employability skills. The list of past tribal students pursuing further studies or those who are gainfully employed at various important positions and capacities is evidence of their enrichment through education. In keeping with our vision statement, we have added one course in the past five years, viz. 1) M.Sc. Physics. Our College has introduced PhD. Physics and Botany thereby has made a beginning towards fulfilling our vision of developing some of the Science departments into Research Centers.

Provide the weblink of the institution

<http://nmbordicollege.com/NAACFiles/Institutional%20Distinctiveness.pdf>

### 8. Future Plans of Actions for Next Academic Year

1. To conduct ISO Audit
2. To encourage staff to get trained for online teaching.
3. To get Zoology research laboratory recognized.
4. To encourage staff from Chemistry department to apply for recognition as PhD guide.
5. To arrange guest lectures, workshops and exhibition.
6. To arrange inter-collegiate competitions.
7. To organize blood donation camp.
8. To publish College magazine "Amaranth".
9. To undertake study tours and industrial visits.
10. To carry out activities in village Khorepada adopted by NCC unit.
11. To encourage research activity.
12. To get Botany research laboratory recognized.
13. To enroll more research students.
14. To spread awareness about COVID-19.

