Part A

The plan of action chalked out by IQAC in the beginning of the year towards quality enhancement and the outcome by the end of the year-

Smt Chandibai Himathmal Mansukhani College, established in 1965, is continuously striving towards achieving excellence in the fields like academics, research, infrastructure, social commitment and an overall development of its students.

The plan of action chalked out by IQAC of the college in this direction and its outcome at the end of academic year -

Involvement of students in community based activities for value based education

a) Around 300 students have enrolled as NSS volunteer in 2008-09. S.Y.B.Sc. student Sneha Kadam (14/09/08-24/09/08) attended National Camp at Sikar, Rajasthan. Two camps on sanitation were organized from 02/10/08 to 11/10/08 at Chichnichiwadi and from 01/11/08-10/11/08 at Dahivali village in Ambarnath. Forty Nine NSS volunteers constructed 62 toilets. The NSS teacher coordinator Ms. Ruby Kuriokose was the contingent leader in all these activities.

b) In 2008-2009 a massive awareness survey project entitled ‘Clean Ulhasnagar–Healthy Ulhasnagar’ was undertaken in the city of Ulhasnagar. The survey was conducted on 26th and 28th July 2008. In spite of heavy rains on both the days 3000 students surveyed 30,000 households. The survey was on issues of health, hygiene, sanitation, water supply, disposal of wastes, drainage system, sewerage system, garbage collection, awareness of prevalent diseases and their remedies. Exhaustive Awareness literature was also circulated among the citizens that included information about the various services of the corporation and the measures for disaster management. The interim survey report was released by the Honorable Vice Chancellor Dr. Vijay Khole and submitted to the Commissioner of UMC Shri. Sameer Unhale.

c) The next survey project entitled ‘Education for All’ was conducted in the same academic year on 9th and 13th March 2009. The survey included pre - survey visit of municipal schools of Ulhasnagar to get data from their Principal’s about their infrastructure, dropouts and other schemes under ‘Sarva Shiksha Abhiyaan’. This gave the corporation a better idea as to the reasons for dropouts. The parents of drop out were given detailed awareness literature about municipal schools and educational services apart from other services of the corporation.

d) In 2008-09 students displayed an exhibition on current topics like the 26/11 terrorist attacks on Mumbai, female foeticide, global warming, problem of senior citizens, dowry deaths, child marriage, child labor, substance abuse and apathy of politicians.

e) Gandhian Studies Centre annually organizes Bhajan Prabhats in the college on various occasions. The world-renowned Mumbai Sarvodaya Mandal, Mumbai has been actively associated with the GSC of the college.

f) Chandi Utsav is the annual student centric college festival, which seeks to explore the hidden talent of students in performing arts like theatre, dance, music and literature. It provides an opportunity to small-scale women entrepreneurs to exhibit and market their products. Every year the entire proceeds of Chandi Utsav are donated to Shantivan.
Ashram, a Home for Leprosy patients and the Aged people. The College has been celebrating the Diwali Festival at Shantivan for the past six years.

**Introduce new courses to provide students of the suburbs with a competitive edge**-
M.Phil. in Economics, English, Environmental Sciences, Library Science, Marathi and Psychology affiliated to the Yashavantrao Chavan Maharashtra Open University was started to benefit the newly appointed teachers and students of the nearby suburbs

**Uplift the academic standard of economically backward students through remedial coaching**- The College has an active Remedial Coaching Center sponsored by the UGC wherein students of minority communities (Sindhi, Muslims, Buddhists, Sikhs, Christians and Parsees) are given extra remedial coaching to improve their academic performance at the University examinations. The Remedial Coaching classes are language based and subject based.

**Enhance research culture among teachers and students**-

The Department of Botany which was granted Research recognition by the University of Mumbai enrolled 03 students for M.Sc. (by Research) and 03 students for Ph.D. degrees. Students were registered under Dr. S V Namboothiry (01/M.Sc), Dr. S. Vaidya (02/M.Sc) and Dr. Aruna Rai (03/Ph.D).

The research centre of English Department has been recognized and established.

Three teachers have received research grant of Rupees Two Lacs Twenty Seven Thousand from UGC for sanctioned Major Research Project.

Rupees Four Lacs Forty Thousand are awarded by the Maharashtra Pollution Control Board for the project of Air Control Monitoring.

**Support collaborative ventures with GO’s and NGO’s through outreach activities of the college**-

a) Major Research Project sanctioned by the Department of Biotechnology jointly to the University of Agricultural Sciences, Dharwad and Smt C.H.M. College. Exploration of the molecular diversity & insecticidal spectrum of B. thuringenesis isolates of Western Ghats of India, NE Hills and Himalayan ranges, establishment of repository at UAS, Dharwad, cloning of insecticidal genes from native isolates. Total funding: Rs. 98.0 lakhs of which Smt. CHM College received Rs.22.0 lakhs for the period of 2005-2009

b) Ambient Air Quality Monitoring under the SAMP sponsored by Maharashtra Pollution Control Board (MPCB) total funding: Initial Rs. 16.4 lakhs for 03 years. Increase to Rs. 22 lakhs for 03 years 2005 onwards.

c) Projects in collaboration with Ulhasnagar Municipal Corporation.
   a. Survey Project on civic amenities and literacy
   b. Study of Waldhuni river (mapping, analysis and survey)
   c. Eco friendly waste disposal
   d. Establishment of Weather station in CHM campus
   e. Rain water Harvesting
Part B:

1. **Activities reflecting the goals and objectives of the institution**
   - Establishment of new research centres
   - Introduction of PG courses in Clinical Research
   - Introduction of Post Graduate M.A. courses in seven subjects
   - M.Phil courses in seven subjects affiliated to YCMOU
   - Participation of teachers in university bodies
   - Establishment of language laboratories
   - Collaboration with American Library, British Council Library and Indian Merchants’ Chamber
   - Introduction and implementation of Examination Reforms
   - Organization of Workshops and Seminars including an International Conference
   - Organization of Human Rights week, Gaurav Divas and Chandi Utsav per tradition
   - Continuing excellent performance in sports
   - Minor Research Projects of the UGC and University of Mumbai
   - Collaboration with national and international academic agencies
   - Citation of Research of the faculty
   - Computerization of administration and Library facilities
   - Infrastructure augmentation
   - Augmentation in Health Services
   - Outreach and extension Services of NSS and NCC, and continuing programmes of Women’s Studies Centre and Gandhian Studies Centre
   - Financial Assistance to students

2. **New academic programmes initiated during the academic year 2008-2009 (UG and PG)**
   
   **Under graduate level:**
   - In self finance section: Degree course in B.F.M. has been started. Dr. Manju Pathak is the coordinator for this course till 2011.

   **Post Graduate level:**
   - M.A. in English, Economics, Hindi, Marathi and Geography has started.
   - The Department of Botany which was granted Research recognition by the University of Mumbai, enrolled 03 students for M.Sc.(by Research) and 03 students for Ph.D. degrees. Students were registered under Dr. SV Namboothiry (01/M.Sc), Dr. S. Vaidya (02/M.Sc) and Dr. A. Rai (03/PhD).
   - The research centre of English Department has been recognized and established.
   - Post graduate Course in Commerce and Management was started for the students who reside in far away central suburbs
• M.Phil. in Economics, English, Environmental Sciences, Library Science, Marathi and Psychology affiliated to the YCMOU was started to benefit the newly appointed teachers and students of the nearby suburbs.

3. **Innovations in curricular design and transaction.**

The faculty from the college has been enthusiastically participating in curricular designing as a member of University bodies.

a) Ms. SR Bhagwat, Department of Microbiology was a member of the Board of Studies and Convener for FY BSc syllabus and A/C (Biotechnology) designing.

b) Mr. Kapse from the Department of Commerce is a member of the Board of Studies since 2006-07 and involved with curriculum designing.

c) Dr Surendra Prasad, Head, Department of Hindi has been an active member of the Board of studies since 2005.

d) Mr. GV Rao, also from the Commerce Department was inducted as a member of the Board of Studies of Commerce in Management.

e) Ms. Radha Seth, Department of Psychology was nominated to the Board of Studies as a Non-Head member.

f) Mr. B. D. Chakradeo, Head, Department of Physics and Mr. Subhash Athavale, Librarian were elected to the Mumbai University Senate.

g) Mr. Chakradeo was also elected as a member of Management Council of Mumbai University.

h) The teachers college regularly participate in the syllabus based training workshops organized by different colleges or by the University of Mumbai with a view to contribute towards course development.

i) Active Collaboration of college with United States Information Centre, membership of British Council Library, Indian Merchant Chambers have helped in the effective transaction of the curriculum both at UG and PG levels.

4. **Inter – disciplinary programmes started-**

The College has encouraged interdisciplinary programs at various levels for academic expansion and amalgamation. Various proposals are under way to introduce these programmes effectively.

a) The language laboratory funded by UGC has immensely benefited the students of various disciplines.

b) Science Association, an established forum of Science faculty holds various activities and competitions involving the teachers and students of both degree and Junior college. “Avishkar” has been a successful annual interdisciplinary program with active participation from teachers and students. Eminent scientists and researchers from renowned institutes and fields are invited to interact and motivate students. Intercollegiate competitions Aavesh (Scientific skit), Srujan (Innovative experiments) and Avishkar (Quiz Contest for Junior College) in collaboration with Nehru Science Centre creates a bond between different colleges of Mumbai University.
5. **Examination reforms Implemented**

On behalf of University of Mumbai the college conducts examinations of First and Second year for all courses, which is systematically administered and monitored by a statutory committee, consisting of a chairman and teachers from all faculties.

The functioning of the examinations is adjudged by the performance of the students. This being the main focus for the teachers, various academic measures were adopted to train students for the examinations.

a) Tutorial tests are conducted regularly by the teachers to improve the performance of students.

b) Seminars by the students with audio-visual aid are conducted to improve their presentation potential.

c) Regular terminal, term end and preliminary examinations are conducted specially for the final year degree students.

d) Intensive Coaching and Intensive Interaction are the integral parts of the Pre and Post examination process.

e) The answer books of Preliminary Examinations of the students are assessed and given back to the students in the classroom. They are then allowed to discuss with the teachers the deficiencies.

f) The confidentiality was maintained with a foolproof system of printing of Question papers as well as preparation of results in house.

g) The central assessment centre is set up for the assessment of answer books so that the results are declared in time.

h) A time schedule is given to the students for the declaration of results well in advance.

i) Although not a statutory requirement, Internal Examinations vigilance squad is appointed to ensure free and fair conduct of the entire examination process

6. **Number of candidates qualified: NET/SET.**

   NET = 06
   SET = 18

7. **Total number of seminars/workshops conducted.**

   Total Number of Seminars conducted- 01
   Total Number of Workshop conducted- 09

   a) The Women’s Study Center in 2008-2009 organized on 26/06/2008: a one day workshop on ‘Wisdom of Empowerment’ for HOD’s of UMC.
   
   b) On 4th August 2008 a session on SWOT analysis.
   
   c) On 15 September 2008 WSC and department of English organized a discussion in collaboration with teach India and the American Centre, Mumbai.
   
   d) Three Days Workshop on ‘Rangoli” for AEP and SCHM college students.
   
   e) A seminar on “Project Supervision” was arranged for the SCHM teachers and students who were involved in Survey “Clean Ulhasnagar-Healthy Ulhasnagar. Ms. Ann Rumpus, Head Educational Initiative Centre, University of Westminster, UK and Ms. Sibyl
Coldham, Director, centre of Excellence in professional learning from the workplace, University of Westminster, UK, were resource persons at the workshop.

f) An Intercollegiate Workshop on “Gender Sensitization for SY and TY BA students.

g) A workshop on AIDS/HIV for Computer science students

h) “SPANDAN” a weeklong programme from to mark INTERNATIONAL WOMEN’S DAY.

The various activities under SPANDAN were

Talk on ‘Women’s Issues”, Sneh Sammelon- a get-together, Pre marriage Counseling Thalassemia Checkup for college students, Adolescence Education, Survey “Education for All”, conducted by CHM students

i) Intercollegiate One day workshop “Adolescence Health Education”

j) Two Day Workshop on “Adolescence Health Education” for Smt CHM college students

Two workshop on “Folk media and folk theatre” (RCH, ARSH, PCPNDT ACT, HIV/AIDS and Cancer) for Peer Trainers Enlisted through Women’s Studies Centre of Smt CHM College in association with Integrated Health and Family Welfare Society, Ulhasnagar Municipal Corporation, Ulhasnagar, generating awareness in the community on the issues of Reproduction Child Health (RCH), Adolescence Reproduction Sexual Health (ARSH), Pre-conceptual Pre-Nodal Detraction Technique (PC-PNDT) Act, HIV, AIDS and Cancer and Environmental issues.

A good number of researchers and academicians of international reputation visited the college and guided the students. Ms. Beth Brownson from US Consulate, Mumbai; Dr. Paul Melvin Biological Sciences, Clayton University, USA; Dr. Ivan Reid Bradford York University, UK; Ms. Ilze Petereson, Peace Activist were the eminent personalities who visited the college during 2008-09.

Activities by the Faculty:

- Dr. Sharda Vaidya (Botany) conducted a one-day workshop at Junior College Naigaum on 12/11/2008.
- Dr. Meena Khanna attended IAPT Annual Convention at Bangalore and presented a paper on Impact of Physics on Biological Sciences (Poster).
- Mr. Prashant Kelkar, Head, Department of Political Science presented a paper on “Regional movements in India-Gorkhaland” at Gogate Walake College, Sawantwadi, on 30-31 January 2009 in the Two day UGC sponsored National Seminar and the same paper has been published in the official proceedings of the national seminar. He was also invited to deliver a guest lecture in Kalsekar College, Mumbra and V. G. Vaze College, Mulund in the month of March. 2009.

BMS Department activities: Mr. Sunil Lalchandani participated as the faculty Advisor for the 16th International Economic Convention hosted by the RD National College. He also presented a research paper on ‘Managing Global Business Competition: HR-CSR Way’ at International Conference on Management (INCOM) 2008, Mohanlal Sukhadia University, Udaipur. In the same conference he also presented a research paper on ‘Trust at Workplace: Building up Issues’. Mrs. Bhavna Bivani attended a seminar conducted by MIM College on ‘Train the Trainer’. She also attended a seminar on Leadership by Shiv Khera organized by NK College, Malad in Nov. 2008. Ms. Bharti Khirani presented a research paper on ‘Trust at Workplace: Building up Issues’ at International Conference on Management (INCOM) 2008, Mohanlal Sukhadia University, Udaipur. She presented and published a research paper on ‘Enthusing employees through Innovative Workplaces’ at the National Research Conference organized by the GNMIS Institute, Matunga in Feb. 2009. Mr. Prashant Bhagat participated in the ‘Conference for Placement Challenges’ at Pritam Hotel, Dadar,
Mumbai. He also participated in the ‘International Seminar on Human Resource Re-engineering’ at IES College, Bandra.

- 200 students of the Adult Education appeared for the Preparatory Examination of the YCMOU through the UGC sponsored WSC Programme and successfully cleared the same.

8. **Research projects**

The year 2008–2009, continued with all the UGC projects

**A) Newly implemented**

<table>
<thead>
<tr>
<th>Year</th>
<th>Department</th>
<th>Title of the project</th>
<th>Name of the Principal investigator</th>
<th>UOM sponsored</th>
<th>UGC sponsored</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>Botany</td>
<td>The effect of NaCl salinity on some physiological parameters on four leafy vegetables.</td>
<td>Dr. Aruna Rai</td>
<td>-</td>
<td>Rs.57000/-</td>
</tr>
<tr>
<td>2007</td>
<td>Botany</td>
<td>Phytochemical analysis of Spilanthes acmella</td>
<td>Dr. Sharda Vaidya</td>
<td>-</td>
<td>Rs.75000/-</td>
</tr>
<tr>
<td>2007</td>
<td>Microbiology</td>
<td>Characterization &amp; Comparative study of Laccases from two different fungi.</td>
<td>Dr. S.N. Patel</td>
<td>-</td>
<td>Rs.95000/-</td>
</tr>
<tr>
<td>2007</td>
<td>Microbiology</td>
<td>Formulation of plant extracts as a topical agent and its in-vitro &amp; in-vivo effects.</td>
<td>Dr. Bela N. S. Nabar</td>
<td>-</td>
<td>Rs.98000/-</td>
</tr>
<tr>
<td>2007</td>
<td>Mathematics</td>
<td>Applications of Monte Carlo Simulations</td>
<td>Ms. Urmila Pillay</td>
<td>-</td>
<td>Rs.45000/-</td>
</tr>
<tr>
<td>2007</td>
<td>Microbiology</td>
<td>Bioremediation of Cu by mutated culture</td>
<td>Ms. S. R Bhagwat</td>
<td>Rs.20,000/-</td>
<td>-</td>
</tr>
<tr>
<td>2007</td>
<td>Microbiology</td>
<td>Emerging patterns of resistance amongst GIT bacterial pathogens</td>
<td>Dr. S N Patel</td>
<td>Rs.25,000/-</td>
<td>-</td>
</tr>
<tr>
<td>2007</td>
<td>Botany</td>
<td>Microproppagation of Caesalpinia boducella pollens</td>
<td>Dr. Aruna Rai</td>
<td>Rs.10,000/-</td>
<td>-</td>
</tr>
<tr>
<td>2007</td>
<td>Botany</td>
<td>Comparative study of morphological and anatomical variations of root systems........</td>
<td>Dr. Jasmeen Patil</td>
<td>Rs.10,000/-</td>
<td>-</td>
</tr>
<tr>
<td>2007</td>
<td>Physics</td>
<td>Space Weather &amp; Sun-Earth connections</td>
<td>Dr. Meena Khanna</td>
<td>Rs.35,000/-</td>
<td>-</td>
</tr>
<tr>
<td>2007</td>
<td>Chemistry</td>
<td>Magnetic minerals in soil and sediment</td>
<td>Ms. Sonia Varandhani</td>
<td>Rs.10,000/-</td>
<td>-</td>
</tr>
<tr>
<td>2007</td>
<td>Sindhi</td>
<td>Madan Jhumani ki Shaksyat</td>
<td>Ms. Sandhya Kundnani</td>
<td>Rs.20,000/-</td>
<td></td>
</tr>
</tbody>
</table>
### B) Completed Research Projects-

<table>
<thead>
<tr>
<th>Year</th>
<th>Department</th>
<th>Title</th>
<th>Principal Investigator</th>
<th>UOM sponsored</th>
<th>UGC sponsored</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>English</td>
<td>Cultural Landscape of Orrissa….</td>
<td>Dr. Deepa Mishra</td>
<td>-</td>
<td>Rs.25,000/-</td>
</tr>
<tr>
<td>2005</td>
<td>Mathematics</td>
<td>Value at Risk (VaR)</td>
<td>Ms Urmilla Pillay</td>
<td>-</td>
<td>Rs.20,000/-</td>
</tr>
<tr>
<td>2005</td>
<td>Physics</td>
<td>Study of Solar Winds and its interaction with earth’s magnetosphere.</td>
<td>Dr. Meena Khanna</td>
<td>-</td>
<td>Rs.65,000</td>
</tr>
<tr>
<td>2005</td>
<td>Physics</td>
<td>Magnetic properties of ferrofluids having substituted rare earth iron garnets &amp; mixed ferrites</td>
<td>Dr. Milind Vaidya</td>
<td>-</td>
<td>Rs.89000</td>
</tr>
<tr>
<td>2005</td>
<td>Physics</td>
<td>Optical properties of Transition metal doped TiO2 for photocatalytic application</td>
<td>Kavita Bajaj</td>
<td>-</td>
<td>Rs.63,000/-</td>
</tr>
<tr>
<td>2006</td>
<td>Microbiology</td>
<td>Bioremediation of Mercury from waste water using biofilm made up of Mercury resistant organisms isolated from Thane Creek</td>
<td>Dr. Padma V. Deshmukh</td>
<td>Rs.20000/-</td>
<td>-</td>
</tr>
<tr>
<td>2006</td>
<td>Microbiology</td>
<td>Proteomics of Proteases</td>
<td>Ms. Meena Menghrajani</td>
<td>Rs.10000/-</td>
<td>-</td>
</tr>
<tr>
<td>2006</td>
<td>Botany</td>
<td>Phytochemical Analyses</td>
<td>Dr. S.V. Namboothiry</td>
<td>Rs.20000/-</td>
<td>-</td>
</tr>
<tr>
<td>2006</td>
<td>Botany</td>
<td>Rhizosphere fungi</td>
<td>Dr. Sharda Vaidya</td>
<td>Rs.22000/-</td>
<td>-</td>
</tr>
<tr>
<td>2006</td>
<td>Physics</td>
<td>Use of Magnetic Fluids in Applications of Electrical filters----</td>
<td>Dr. Milind Vaidya</td>
<td>Rs.20000/-</td>
<td>-</td>
</tr>
<tr>
<td>2006</td>
<td>Psychology</td>
<td>Effect of Family Environment and Parenting on Adolescent’s edjaemnts</td>
<td>Jayshree Panicker</td>
<td>Rs.8000/-</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>History</td>
<td>Role of Sadhu vaswani for Sindhi community</td>
<td>Renu Sachdev</td>
<td>Rs.5000</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>Psychology</td>
<td>Recruitment process in service sector in India</td>
<td>Bharti Premnani</td>
<td>Rs.20000</td>
<td></td>
</tr>
</tbody>
</table>
C) Ongoing Research Projects-

<table>
<thead>
<tr>
<th>Year</th>
<th>Department</th>
<th>Title</th>
<th>Investigator</th>
<th>Amount [Rs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>Microbiology</td>
<td>A comparative study of the effect of the herbal combination on the planktonic and biofilm associated organisms.</td>
<td>Dr. Bela N. S. Nabar</td>
<td>81,000</td>
</tr>
</tbody>
</table>

D) Teachers who have secured University of Mumbai RESEARCH GRANT

<table>
<thead>
<tr>
<th>No</th>
<th>Name of the teacher</th>
<th>Department</th>
<th>Amount [Rs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr Padma Deshmukh</td>
<td>Microbiology</td>
<td>30,000/-</td>
</tr>
<tr>
<td>2</td>
<td>Ms Meena Mengrajanjani</td>
<td>Microbiology</td>
<td>39,000/-</td>
</tr>
<tr>
<td>3</td>
<td>Ms Kamal Joshi</td>
<td>Zoology</td>
<td>20,000/-</td>
</tr>
<tr>
<td>4</td>
<td>Dr S. Namboothiry</td>
<td>Botany</td>
<td>15,000/-</td>
</tr>
<tr>
<td>5</td>
<td>Dr Sharada Vaidya</td>
<td>Botany</td>
<td>15,000/-</td>
</tr>
<tr>
<td>6</td>
<td>Ms Sangeeta Joshi</td>
<td>Maths</td>
<td>15,000/-</td>
</tr>
<tr>
<td>7</td>
<td>Ms Sangeeta Joshi</td>
<td>Maths</td>
<td>15,000/-</td>
</tr>
<tr>
<td>8</td>
<td>Dr Pratima Das</td>
<td>English</td>
<td>20,000/-</td>
</tr>
<tr>
<td>9</td>
<td>Ms Indira nair</td>
<td>Economics</td>
<td>15,000/-</td>
</tr>
<tr>
<td>10</td>
<td>Ms Anuradha S.V.L.</td>
<td>Economics</td>
<td>15,000/-</td>
</tr>
</tbody>
</table>

E) Teachers who have secured UGC RESEARCH GRANT

<table>
<thead>
<tr>
<th>Year</th>
<th>Department</th>
<th>Title</th>
<th>Investigator</th>
<th>Amount [Rs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>Microbiology</td>
<td>Anti microbial and Phytochemical screening of a common Indian plant against dermatophytic infections</td>
<td>Dr. Padma Deshmukh &amp; Ms. Pooja Gupta</td>
<td>95,000/-</td>
</tr>
<tr>
<td>2008</td>
<td>Botany</td>
<td>The physiological effect of salt stress on some physical</td>
<td>Dr. Aruna Rai</td>
<td>57000/-</td>
</tr>
</tbody>
</table>
E) Major Research Project sanctioned by the Department of Biotechnology jointly to the University of Agricultural Sciences, Dharwad and Smt C.H.M. College

1. DBT: In collaboration with UAS, Dharwad.
   Exploration of the molecular diversity & insecticidal spectrum of B. thuringenesis isolates of Western Ghats of India, NE Hills and Himalayan ranges, establishment of repository at UAS, Dharwad, cloning of insecticidal genes from native isolates.
   Total funding: Rs. 98.0 lakhs of which Smt. CHM College received Rs.22.0 lakhs 2005-2009

2. Ambient Air Quality Monitoring under the SAMP sponsored by Maharashtra Pollution Control Board (MPCB)
   Total funding: Initial Rs. 16.4 lakhs for 03 years.Increase to Rs. 22 lakhs for 03 years 2005 onwards

   d) Projects in collaboration with Ulhasnagar Municipal Corporation.
      f. Survey Project
      g. Studies on Waldhuni river (mapping, analysis and survey)
      h. Eco friendly waste disposal
      i. Establishment of Weather station in CHM campus
      j. Rain water harvesting

9. Patents generated, if any.
   The college has not undertaken any such activity yet.

10. New collaborative research programmes.
   a) The Department of Physics has established collaboration with the University of Bhavnagar in the area of research.
   b) Proposal for Lake Bioremediation project in association with the Bhiwandi Municipal Corporation has been approved.

11. Total research Grants Received from various agencies.
   a) Grants are received from University of Mumbai (Rs. 1,99,000/-) & U G C (Rs. 2,27,000/-) for various MRPs undertaken by the teachers.
   b) DBT project grant of Rs. 5,00,000/- for Major Research Project in collaboration with UAS, Dharwad.
   c) Rs. 4,40,000/- awarded for Air Quality Monitoring under the SAMP by Maharashtra Pollution Control Board.

12. Number of research scholars.
   a) In the Department of Physics Dr. Milind Vaidya is a recognized Ph.D. guide while Dr. [Mrs.] Khanna and Dr. Vivek Kale have been granted permission to enroll M.Sc. students under their supervision. 01 research proposal has been approved for PhD registration under Dr. Milind Vaidya.
b) Dr. Deepa Mishra, Department of English, has recognised as Research Guide by the University of Mumbai.

c) 12 students have registered for Ph.D and 03 for M.Sc. (Research) in Botany under the guidance of Dr. S V Namboothiry, Dr. Aruna Rai and Dr. Sharda Vaidya. Dr. Bhavna Motwani and Dr. J J Patil from the Department of Botany are also recognized for research.

d) 03 scholars are presently working towards their doctorate in Hindi.

e) 13 students/teachers are presently registered for M.Phil in Environmental Science under YCMOU.

f) There are at present 05 students working towards the completion of their M.Sc. degrees and 03 doing their doctorates in the Department of Microbiology.

13. Citation index of faculty members and impact factor.

The work of the following teachers has been cited by different researchers in their theses or in their research project work.

a) Dr. Milind Vaidya (Vice Principal)
b) Mrs. Jyotika Ozarkar (Vice Principal)
c) Dr. S. N. Patel (Microbiology)
d) Dr. P. V. Deshmukh (Microbiology)
e) Dr. B. Nabar (Microbiology)
f) Dr Aruna Rai (Botany)
g) Dr. Sharda Vaidya (Botany)
h) Dr. Bhavna Motwani (Botany)
i) Dr. Surendra Prasad (Hindi)
j) Dr. Charanjeet Kaur (English)

14. Honors/ Awards to the faculty.
a) Prof. S. B. Pawar – Awarded “Gunwant Krida Karyakarta” by Thane District Collector for the year 2008-09.
b) A number of teachers were conferred doctorates. They include Mrs. Kavita Harisinghani. (Physics), Mrs. Suhasini Asokan (Chemistry) and Mrs. Yogini Bhambardekar. (Chemistry).
c) 02 students guided by Dr. Surendra Prasad, Department of Hindi, were awarded PhD.
d) Mr. Chakradeo head, Physics Department received the best teacher award for 2008 given by Mumbai university
e) Dr. Meena Khanna (Physics) received Second prize in National Essay competition on Atom at 200, organized by IAPT RC (Gujrat).
f) Dr. Milind Vaidya and Mr. Sanjay Kemkar presented a paper at Pune conference and received the Best Paper award for it.
g) Dr. Bela Nabar (Microbiology) received First prize for poster presentation.

15. Internal resources generated:
The college management HSNC Board internally generates resources through college development funds. Introduction of unaided courses, professional courses, and vocational courses as self financing courses helps college in raising the resources internally.

16. Community Services

a) The N.S.S. Unit of the college has played an active role in motivating the attitude of selfless service in students. Around 300 students enrolled in 2008-09, S.Y.B.Sc. student Sneha Kadam (14/09/08-24/09/08) attended National Camp at Sikar, Rajasthan. Two camps on sanitation were organized from 02/10/08 to 11/10/08 at Chichnichiwadi and from 01/11/08-10/11/08 at Dahivali village in Ambarnath. Forty Nine NSS volunteers constructed 62 toilets. The NSS teacher coordinator Ms. Ruby Kuriokose was the contingent leader in all these activities.

b) The college has taken initiative under the leadership of Principal Dinesh Panjwani to establish a link between the college and Ulhasnagar Municipal Corporation. Various awareness projects have been undertaken by the Students of foundation course and E.V.S subjects of the college. In 2008-2009 a massive awareness survey project entitled ‘Clean Ulhasnagar-Healthy Ulhasnagar’ was undertaken in the city of Ulhasnagar. The survey was conducted on 26th and 28th July 2008. In spite of heavy rains on both the days 3000 students surveyed 30,000 households. The survey was on issues of health, hygiene, sanitation, water supply, disposal of wastes, drainage system, sewerage system, garbage collection, awareness of prevalent diseases and their remedies. Exhaustive Awareness literature was also circulated among the citizens that included information about the various services of the corporation and the measures for disaster management. The interim report was released by the Honourable Vice Chancellor Dr. Vijay Khole and submitted to the Commissioner of UMC Shri. Sameer Unhale.

c) The next survey project entitled ‘Education for All’ was conducted in the same academic year on 9th and 13th March 2009. The survey included pre - survey visit of municipal schools of Ulhasnagar to get data from the Principals about their infrastructure, dropouts and other schemes under ‘Sarva Shiksha Abhiyaan’. On the days of the survey students interviewed municipal school students and their parents to assess the problem of dropouts and measures to control it. This would give the corporation a better idea as to the reasons for dropouts and they can take effective measures to increase literacy and education among the marginalized sections of society. The parents were also given detailed awareness literature about municipal schools and educational services apart from other services of the corporation.

d) In 2008-09 students displayed exhibitions on current topics like the 26/11 terrorist attacks on Mumbai, female foeticide, global warming, problem of senior citizens, dowry deaths, child marriage, child labour, substance abuse and apathy of politicians. The students who made the terrorism model won a special award from Principal Dinesh Panjwani.

e) The main highlight of the Women’s Studies Center is the Adult Education Program (AEP) in collaboration with the YCMOU, under which women school drop-outs are motivated and sponsored to take up mainstream. The main highlight of the WSC is the Adult Education Program (AEP) in collaboration with the YCMOU, under which women school drop-outs are motivated and sponsored to take up mainstream education again.

f) GSC consistently organizes Bhajan Prabhats in the college on various occasions. The world-renowned Gandhian Center, Bombay Sarvodaya Mandal, Mumbai has been actively associated with the GSC of the college.

g) The college has an active Remedial Coaching Center sponsored by the UGC wherein students of minority communities (Sindhi, Muslims, Buddhists, Sikhs, Christians and Parsees) are given extra remedial coaching to improve their academic performance at the University examinations. The Remedial Coaching classes are language based and subject based.
h) Chandni Utsav is the annual student centric college festival, which seeks to explore the hidden talent of students in performing arts like theatre, dance, music and literature. It provides an opportunity to small-scale women entrepreneurs to exhibit and market their products. Every year the entire proceeds of Chandni Utsav are donated to Shantivan Ashram, a Home for Leprosy patients and the Aged. The College has been celebrating the Diwali Festival at Shantivan for the past six years.

i) Gaurav Diwas has been conceptualized to commemorate the spirit of the republic nature of the Indian nation, and the adoption of the Constitution of India in 1950, which confers on all of us the right to be the citizens of this free nation. On Gaurav Diwas, the college honors the living legends of India for their contribution to public life after independence.

j) This year (January 2009) the versatile Singer and music director of present generation Mr. Shankar Mahadevan was felicitated by the Gaurav Puraskar.

k) Activities of NCC (Boys)

1.) Conducted ‘B’ Certificate Examination in the College for the entire Mumbai Colleges.
2.) Assistance in the organizing Blood donation camps in the college
3.) Community work through visit to “Shantivan Aashram” at Panvel.

l) NCC (Girls) headed by NCC Company Commander Major Dr. (Mrs.) Jasmine Jaswant Patil had following activities in 2008-2009:

Cadets were selected to attend the following Camps:
- All India Nilgiri Trekking Expedition, Ooty.
- All India Rock Climbing and Trekking Camp, Kerala.
- Armed Forces Medical Attachment Camp, Deolali.
- Annual Training Camp, Wadala, Mumbai.
- Annual Training Camp, Wadala, Mumbai. (Rifle Shooting Competition)

Cadets have actively participated in social activities like
- Blood Donation Programme.
- Tree Plantation Programme.
- Peace March Rally and Meatless Day.
- Anti-Drug Campaign
- Pulse-Polio Vaccination Programme.
- NCC Day of Maharashtra State.

ANO and NCC Company Commander Major Dr. (Mrs.) Jasmine Jaswant Patil was selected to attend All India Basic Leadership Camp at Vadodara, Gujarat as Contingent Commander of Maharashtra State and Adjutant of the Camp. The Contingent was awarded First Position in Drill Competition and Second Prize in Group Song Competition. She has also attended Annual Training Camp cum T.S.C Group Selection Camp at Dahanu.

17. Number of teachers and Officers newly recruited.
Number = 02+08

18. Teaching – Non teaching staff ratio.
Ratio = 106:125 = 0.85

19. Improvements in the library services.
A number of new books & Journals have been added to collection in the Library, Internet facility is made available to the teachers & students in the Library.

20. Number of new books / journals subscribed and their value.
Additions made in the year 2008-2009

New Books = 3668 Amount = Rs. 55,595/-
New Journals = 0126 Amount = Rs. 60,203/-

21. **Number of courses in which student assessment of teachers is introduced and the action taken on student feedback:**

   **Feedback**
   
a) Feed back from students are given to respective teachers for self-introspection and necessary corrections and implementation.
   
b) The student’s identity is not revealed in any manner.

22. **Unit Cost of Education.**
Amount = Rs.17556.84 (with staff salary)

23. **Computerization of administration and the process of admissions and examination results, issue of certificates.**
All administrative, admission and examination processes have been computerized.

24. **Increase in the infrastructural facilities.**
   
a) The only CPCSEA-registered Animal House providing facilities for Animal Breeding and Experimentation and Botanical Garden for Horticulture Experiments was established. It is the only college in the University of Mumbai with these facilities.
   
b) Internet Facility in the Physics Research Laboratory, Principal’s Office, Library, Botany Research Laboratory & Administrative Office, English Research Centre.
   
c) 01 Biotechnology Laboratory established

25. **Technology upgrading is done through**
   
a) Installation of additional computers
   
b) Up-gradation of Softwares
   
c) Introduction of new techniques at UG/PG level
   
d) Enhancing instrumentation capacity in the laboratories.

26. **Computer and internet access and training to teachers and students.**
The Teachers and Non-teaching staff are encouraged to attend computer literacy. Internet facilities are available in the College Library and Research Laboratories.

27. **Financial aid to students.**
Number of students are availing themselves of SAF and EBC facilities. Total 231 students availed EBC. The amount collected was Rs. 2,25,294/- and disbursed to students under SAF was Rs. 16,564/-
28. **Activities and support from Alumni Association.**

Alumni association is formed and various alumni are in contact with the Alma mater and have shown willingness provide assistance in various forms for the growth of the college.

29. **Activities and support from the Parent Teacher Association.**

Some of the teachers are themselves parents of the college students. An informal interaction is always encouraged between parents & teachers and the teachers receive feedback and guidance regarding college from them.

30. **Health Services.**

   a) **Blood Donation Camp:** College NSS unit and NCC unit jointly organized Blood Donation Camp in January, 2008. Blood donation and thalassemia detection awareness programme was arranged from 8\(^{th}\) January to 13\(^{th}\) January. The propaganda resulted in the turn out of a good number of blood donors. The camp was arranged along with the BYL Nair Hospital Blood Bank.

   b) AIDS Awareness rally was organized in association with the Ulhasnagar Municipal Corporation-Integrated Health and Family Welfare Society.

   c) Camp for detection of Thalassemia and Anaemia was arranged on 7th to 11th December.

   d) The WDC, NSS and the “Giant’s Medical Group” organized a Medical Health Camp for the teaching and non-teaching staff on the 16\(^{th}\) of February.

31. **Performance in sports activities.**

The college has been an active participant in all the sports events organized by university and the spirit of sportsmanship starts from college itself; 6\(^{th}\) position in Sports ranking of University of Mumbai in 2008-2009; consistently for the 8\(^{th}\) year the College achieved the distinction of being in first 10 of Sports rankings in the University of Mumbai.

**Highlights of sports events in 2008-09**

a) As per the Thane District Collector letter our college organized The III International Common Wealth Youth Baton Relay Program with the help of Advance Baton Relay Committee. In this program our college Aluminizes and college International & National Medal Winners Participated.

b) Inter Collegiate Boxing Competition (Men & Women) University of Mumbai. (53 Teams participated.)

c) Ball-Badminton - Thane District & Mumbai Division Inter School & Junior.

d) Handball - Thane District Inter School & Junior. (110 Teams participated.)

e) Mr. Vikas Pawar was appointed as Coach of University of Mumbai Ball-Badminton Women Team for All India Inter University Tournaments held at Haydrabad (A .P.)

f) Prof. S. D. Kulkarni was appointed as Manager of University of Mumbai Ball-Badminton Women Team for All India Inter University Tournaments.

g) Prof. S. B. Pawar was appointed as Manager of University of Mumbai Ball-Badminton Men Team for All India Inter University Tournaments & was appointed as Coach of...
Maharashtra State for Ball-Badminton Team & also appointed as Chief Referee for All India Inter University Handball (Men & Women) Tournament.

h) Principal Dinesh Panjwani was appointed as Chairman for Selection & Tournament Committee of University of Mumbai Boxing.

**Gymkhana Achievements 2008-09**

<table>
<thead>
<tr>
<th>Game</th>
<th>University of Mumbai Medals</th>
<th>Selected for Inter Univ.</th>
<th>Medals at Inter Univ.</th>
<th>Selected for State Tournament</th>
<th>Medals at State</th>
<th>Selected for National</th>
<th>Medals at National</th>
<th>Selected for Inter-National</th>
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<tr>
<td>Power Lifting</td>
<td>Gold – 01 Silver- 01 Bronze– 01</td>
<td>01</td>
<td>Bronze -01</td>
<td>02</td>
<td>Gold – 00 Silver- 02</td>
<td>01</td>
<td>Silver –01</td>
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<td>Ball-Badminton</td>
<td>Silver – 20</td>
<td>06</td>
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<td>32</td>
<td>Gold – 00 Silver- 08 Bronze– 00</td>
<td>03</td>
<td>India Best Player Award Winner -01</td>
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<td>Athletic</td>
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<td>Gold –00 Silver- 01</td>
<td>01</td>
<td>Gold – 00 Silver- 01</td>
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<tr>
<td>Weight Lifting</td>
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<td>Silver –06 Bronze -03</td>
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<tr>
<td>Total</td>
<td>Gold – 02 Silver- 01 Bronze – 05 Total- 78</td>
<td>16</td>
<td>Bronze –01</td>
<td>75</td>
<td>Gold – 00 Silver - 11 Bronze – 00 Total- 11</td>
<td>05</td>
<td>Gold – 00 Silver - 08 Bronze – 03 Total- 11</td>
<td>01</td>
</tr>
</tbody>
</table>

* Total Points at University of Mumbai 360

**32. Incentives for outstanding sportsperson.**

**FACILITY AND INCENTIVES FOR BETTER & HIGHER ACHIEVEMENTS:**

Excellent infrastructure facilities have been provided for motivating talent. As a measure to improve the performance following measures are taken.

a) All students who turn up for regular practice are with Diet Allowance of Rs.200/- (university level) and Rs. 300/- (state level) per month. This is provided till the date of the tournament or a maximum period of seven months.

b) These students have been provided modern equipments for the use.

c) To hone the skills of the budding performers we have appointed qualified coaches for Athletics, Football and Yoga. Their services are available throughout the practice session.

d) Railway concessions are provided to students going for advanced training and for attending coaching camps in and around Bombay city limits.
33. **Student achievements and awards.**

   a) Ms Neha Thakkar – First rank at T.Y.B.Sc. Examination in the University of Mumbai.

34. **Activities of the Guidance and Counseling Unit.**

   The College has met the needs for guidance and counseling of the students and children of the teaching and Non – teaching staff through the Psychology Department.

   With reference to academic matters the teachers counsel their respective students. The academic counseling focuses on a) Interest of the student, b) General awareness about the subject, and c) Career options offered by the subject.

   The department of Psychology offers expert, specialized counseling. They have conducted IQ tests and offered personal counseling to many students, referred by other teachers.

   The department of Psychology also organizes workshop and seminars, in which practicing psychologists are invited as Guest speakers.

35. **Placement services provided to the students.**

   Large number of students has been placed in corporate, government and private sectors. Students are counseled and guided for placements by teachers through college placement cell.

36. **Development Programme for non teaching staff.**

   The Computer Department helps the non-teaching staff to achieve computer literacy. Non teaching staff is deputed to attend workshops conducted by various organizations to enhance their working skills and knowledge.

37. **Any other relevant information the institution wishes to add.**

   a) Provisional sanction under the XIth U.G.C. plan was made to Courses.

   b) Under the UGC Xth Plan all the accounts for utilization of grants received have been settled.

   c) Mrs. Ashwini Gokhale, Lecturer in the Department of Economics and Mr. Prashant Kelkar, Head, Department of Political Science were invited as a visiting Faculty by Clayton State University of Atlanta USA under the Faculty Exchange Programme in April, 2008 and in April 2009 respectively.

**Part : C**

**Explain the plans of the institution for the next year.**

Some of the areas like PTA, Alumni Association, Health services, Counseling, Consultancy, Patent are done on very informal level. Therefore they will be focused during the year 2009-2010 to make their activities more professional.

**Plan under IQAC and QAC for the year 2009-10**

1) **Discipline of students:**
Maintenance of discipline has been a prime objective and it will continue to be one of the priority issues in the coming year.

2) **Feedback from Students:**

The next issue is the enhancement of teaching and learning standards which can be achieved through regular feed back from students and retrospection by the teachers for improvement and betterment.

3) **Attendance Record:**

The system for maintaining regular attendance will be continued in the next academic year and the system may be supported by a more active PTA.

4) **Add-on-Courses -** Certificate course in Travel and Tourism

5) Teachers will be encouraged and assisted for participation in MRP. For the easy availability of the format, a copy of the MRP proposal will be kept in the library.

6) A 01 day seminar to be held regularly for presentations of the research work carried out by Research scholars as well as those who carried out a MRP. The presentations may be of 15 minutes duration each.

7) Efforts will be made for Publications of some research articles in reputed Journals

8) Application for increase in the Research Seats in the Microbiology Department will be made

9) The ‘Ulhas Nullah’ will be considered for purification by the Microbiology Departments with help from the UMC. The Department of Geography will also be working in co ordination with Microbiology Department and Chemistry Department for the same.

**Guidance and Counseling Centre-**

Enhancing of the Guidance Counseling unit under the coordination of Psychology Department- This centre will offer its services for educational and vocational guidance to the students of neighboring institutions also. The centre will be operating with the help of ex-students of CHM colleges who are today practicing psychologists.

**Sports-**

Whenever one speaks of University sports the name that comes up first in the mind is that of Smt. Chandibai Himmatmal Mansukhani College, Ulhasnagar, Such has been the shining performance of our students.

The achievements are more pronounced in the last couple of years to the extent that our College has a unique distinction of having about 4200 students in sports merit category. To add a feather in the cap of the College, our N. C. C. cadets too have carved out a niche in the R. D. parade.

These achievements are certainly praiseworthy, as they have been achieved without any compromise on the academic front. We are all aware that year after year the academic excellence shown by our students is inching towards the pinnacle of success.

**PROPOSAL PLANS: (SPORTS)**

To upgrade the athletic tracks and To activate the events like shot put, javelin throw, high jump, long jump.

**PROPOSAL PLANS: (N. C. C.)**
To upgrade the Air and Naval Wings
To provide special library Grants for N. C. C. cadets.

PROPOSAL PLANS: (N. S. S.)
The NSS unit has always been active and believes in community development programmes. Enhancement of such programmes is always the top priority and therefore the unit endeavors to include more such programmes into their schedule to create better awareness among students.

CHM Alumni Association
An active Alumni association is expected to take off with proactive members taking a keen interest in college activities as well as providing opportunities and guidance to present students.

Parents Teachers Association
Parent Teachers Association on a more formal note will be a feature that will act as a support system for ensuring discipline and attendance among students.

HEALTH SERVICES
Generating awareness among staff and students with respect to various health problems is of prime importance. Following activities will be continued as well as new activities taken up.

Blood Grouping – along with Blood Donation
Complete free Medical Check for staff Members.
Guidance & Counseling for students with special emphasis on anemia and thalassemia

Name & Signature of the Coordinator IQAC
(Dr. Padma Deshmukh)

Name & Signature of the Chairperson QAC
(Dinesh Panjwani)