

UNIVERSITY GRANTS COMMISSION

REPORT OF THE UGC VISITING COMMITTEE WHICH VISITED ~~PRAVARA INSTITUTE OF MEDICAL SCIENCES (DEEMED UNIVERSITY) LONI (MAHARASHTRA)~~ ON 5TH AND 6TH NOV, 2004 TO ASSESS THE PROPOSAL FOR INCLUSION OF (I) CENTRE FOR BIOTECHNOLOGY AND (II) INSTITUTE OF SOCIAL MEDICINE UNDER THE AMBIT OF DEEMED UNIVERSITY.

INTRODUCTION : The Pravara Institute of Medical Sciences

Loni (Maharashtra) was conferred Deemed to be university status w.e.f. 29th September, 2003 under section 3 of the UGC Act, 1956 by the Govt. of India, Ministry of Human Resource Development, New Delhi vide Notification No. F-9-11/2000-U-3 dated 29th September, 2003 and dated 7th February, 2004 comprising of the following four institutes/Colleges :

- i) Rural Medical College, Loni
- ii) Rural Dental College, Loni
- iii) College of Physiotherapy, Loni
- iv) College of Nursing, Loni

The University Grants Commission has received a proposal submitted by Pravara Institute of Medical Sciences (Deemed University) Loni (Maharashtra) through Ministry of HRD, New Delhi vide its letter No. F.9-28/2004-U-3 dated 17th September, 2004 for inclusion of (i) Institute of Social Medicine, Loni and (ii) Centre for Biotechnology, Loni under the ambit of Pravara Institute of Medical Sciences (Deemed University) Loni (Maharashtra).

The Chairman, University Grants Commission, constituted a Visiting committee consisting of following members to visit Pravara Institute of Medical Sciences (Deemed University) Loni and to give its recommendations

to the UGC regarding inclusion of the above said institute/centre under the ambit of Pravara Institute of Medical Sciences (Deemed University) Loni.

1. Prof. R.N.K. Bamezai Convenor
 Dean, School of Life Sciences,
 Co-ordinator,
 National Centre of Applied Human Genetics
 Jawaharlal Nehru University
 Mehrauli Road,
 New Delhi : 110 067

2. Prof. (Mrs.) Raka Kamal Member
 Principal
 University's Maharani College
 Jaipur (Rajsthan): 302001.

3. Dr. Sanjay Wadhwa Member
 Additional Professor
 Department of PMR
 All India Institute of Medical Sciences
 New Delhi - 110 029.

4. Dr.S.C. Tiwari Member
 Prof. & Head,
 Gandhi Medical college,
 Bhopal (M.P.) : 462001/

5. Shri V.K.Jaiswal Member Secretary
 Under Secretary
 University Grants Commission
 New Delhi - 110 002.

The Committee visited the Pravara Institute of Medical Sciences (Deemed University), Centre for Biotechnology & Institute of Social Medicine, Loni on 5th and 6th November, 2004. The Committee discussed the profile of the Centre/ Institute provided by the Pravara Institute of Medical Sciences (Deemed University) in University Grants Commission format and decided the assessment procedure.

The Committee proceeded to the main campus of the Pravara Institute of Medical Sciences where the Committee members were received by Dr. M. G. Takwale, Vice Chancellor, Shri Rajendra Vikhe Patil, Trustee & Secretary, Brig. D.N. Aggarwal, Joint. Secretary, Dr. S.S. Patil, Registrar, Dr. A.G. Kulkarni, Principal, Rural Medical College, Dr. J.J. Doshi, Principal, Rural Dental College, Col (Dr.) R.K. Kapoor, Principal, College of Nursing, Dr. R.C. Goyal, Director, I.S.M., Dr. S.N. Jangle, Director, Centre for Biotechnology, Dr. Mrs. K.S. Kulkarni. The Vice Chancellor showed Master Plan of Campus of PIMS. Thereafter the committee proceeded to Board Room. The presentation and brief address was given by Hon'ble Vice Chancellor about the activities of PMT & PIMS. He narrated about the growth and progress of Pravara Institute of Medical Sciences (Deemed University) from beginning, its achievements and presented the proposal to include the proposed Institute/Centre under the ambit of PIMS. The committee discussed the proposal with the Vice Chancellor, and members of the committee sought and obtained clarifications and further information on the various issues.

The committee visited Education Communication Media Centre, Preventive & Social Medicine (Via Museum), Forensic Medicine & Toxicology, Pharmacology, Biochemistry, Library, Lecture Halls, Dept. of Physiology,

Microbiology, Pathology, Hospital, Laboratory, X-ray Dept., Casualty, Cancer Dept., ICCU, OPD.

In the afternoon session Dr.S.N.Jangle, Director, Centre for Biotechnology, presented brief report on Centre for Biotechnology. A detailed discussion was held with the members of the committee and the staff of Biotechnology. Dr. R.C.Goyal, Director, ISM presented the report of Institute of Social Medicine in detail and the same was discussed with the Committee members.

The committee visited Institute of Social Medicine and different laboratories in Centre for Biotechnology, Animal House, and the International Hostel.

The committee paid a visit to Primary Health Centre and had a meeting with Female Health Volunteers, Members of Mahila Mandal, Trained Dais and other Women of the village. The programme run by the Institute of Social Medicine was deliberated upon. The committee also visited Community Health and Development Centre (PHC), Pathare, Tal. Rahata, Dist: Ahmednagar. The committee paid a visit to see the implementation of Community Based Rehabilitation programme for disabled people in the village.

The committee had a separate discussion with the students, Teachers and staff to obtain a feedback on the nature of programmes, facilities and support.

Profile of the Pravara Institute of Medical Sciences, and Centre for Biotechnology and Institute of Social Medicine, Loni is given below/Attached.

109 10/11/19

Brief Profile of Pravara Institute of Medical Sciences Deemed University

1. Pravara Institute of Medical Sciences, Loni has been established on 29th September 2003 under University Grants Commission (UGC) (Section 3 of the UGC Act of 1956) 1956 vide their notification No. F-9-11/2000-U.3, dated 29th September 2003.
2. The University has been incorporated and established with the following Mission, Vision and Objectives:

THE VISION

INCREASE THE 'PRODUCTIVITY' OF THE RURAL PEOPLE through improved 'QUALITY OF LIFE' by making health system more effective and responsive to the needs of the people.

THE MISSION

SERVE THE RURAL PEOPLE, especially the poor, the downtrodden and the weaker sections of the society irrespective of caste, creed, race and religion.

The Mission of the Pravara Institute of Medical Sciences is to advance, disseminate and apply knowledge of medicine and health sciences to prevent and cure diseases and promote health of the people at large through need based, problem solving learning and discovery

Objectives:

- to provide quality health care to the rural people,
- to train medical and paramedical manpower in formal education,
- to demystify medicine through training community groups to cope up with their health problems,
- to conduct research leading to improving "quality of life" of people.

3. The University is housed at the Pravara Medical Trust (Parent body of PIMS-Deemed University) Complex at Village Loni. PMT complex is spread over 119 acres of land on Nashik-Manmad State Highway.

4. Physical Infrastructure & Assets:

- a) Land: 119 acres of Land on Nashik-Manmad State High Way.

- b) **Building & other Assets (fixtures & furniture etc): (2003-04)**
- i) **Rural Medical College : Plinth Area 10187.72 Sq.mt**
Total Cost of Assets: 13 crores
- ii) **Pravara Rural Hospital: Plinth Area: (20,925.85 + 9470.45) Sq.mt**
Total Cost of Assets: 19 crores
- iii) **Dental College : Plinth Area:7000 Sq.mets**
Total Cost of Assets: 13 crores
- iv) **College of Physiotherapy: Plinth area: 1225 sq.mt**
Total cost of assets: 1.59 crores
- v) **College of Nursing: Plinth area: 1059 sq.met**
Total Cost of assets: 1.45 crores
- j) **Library: Total Investment on Books: Rs.1.5 crore**

No of Books: 18640

No.of Journals (Indian & Foreign) Foreign - 100
Indian - 80
Bound volumes: 2700

5. Financial Status: (2003-04)Rs. In Lakhs)

	Income	Expd.
a) Rural Medical College & Hospital	885.46	1282.77
b) Dental College	197.54	300.14
c) College of Physiotherapy	49.65	48.88
d) College of Nursing	27.89	33.48

6. Academic Activities:

There are six main study programs with in the PIMS-Deemed University: (1) Medicine, (2) Dentistry, (3) Physiotherapy & Rehabilitation, (4) Nursing, (5) Medical Biotechnology and (6) Para-Medical (medical laboratory technology, x-ray technology, dental technology, and dental hygiene). It is proposed to add study programs on Social Medicine under Allied health sciences from 2005-06. These programs gain insights into each other's skills and abilities. To promote a team attitude among health-care professionals in a unified group, all the programs are offered in a single campus, at present the only one of its kind in India.

Presently, the University offers, 20 medical and allied courses at Postgraduate degree level, 7 medical courses at Postgraduate diploma level, 4 courses at Undergraduate level, 1 Postgraduate course at allied health sciences and 3 courses at Diploma level and 3 courses at Certificate level.

The constituent colleges, institutes, centers and other functional units of the Deemed University report administratively to the Chancellor/Vice-chancellor. Each of the following constituent unit is headed by the Principal/Director and is further divided into academic and service departments. The basic academic unit of the Institute is the department, with each one responsible for its academic, research, and service programs.

- 1) Rural Medical College & Hospital, Loni
- 2) Rural Dental College & Hospital, Loni
- 3) College of Physiotherapy & Rehabilitation Center, Loni
- 4) College of Nursing, Loni
- 5) Institute of Social Medicine, Loni
- 6) Center for Biotechnology, Loni

Total Student Strength: MBBS Four & half year U.G. Programme	= 590
B.D.S. Four years	= 283
Total UG, PG & B.P.Th. Four years	= 213
Para medical = 1560 B.Sc. Nursing Four years	= 100
Post Graduate Degree & Diploma courses	= 253
Para medical Students	= 121
Total Male Students	= 931
Total Female Students	= 629
Total students declared successful in last two academic years	= 660
Total Staff Strength = Teaching	= 302
= Non Teaching	= 156
All the teaching and key para medical Staff faculty resides in the campus	

CENTRE FOR BIOTECHNOLOGY, (PIMS) , LONI**Physical Infrastructure & Assets:**

A. Building : 1795 sq. mtr. land given by PMT for building up permanent campus of Centre for Biotechnology. Construction is completed. Total cost of construction is Rs. 101 lakhs.

B. Equipment : Equipment costing Rs. 208 lakhs available (List attached).

C. Library : Centre for Biotechnology Library have 60 books on different topics. The Library has 35 International Journals and 73 Indian Journals on related subjects are available. Purchase Order for additional books and journals is placed.

D. Financial Status: Provision has been made by PIMS for Centre for Biotechnology for the year 2004-05 of Rs. 55.43 Lakhs. Funding received from various agencies for the project worth Rs. 70.00 Lakhs. For running the M.Sc. Medical Biotechnology course provision has been made for Rs. 55.43 lakhs.

E. Academic Activities:

1. Seminars
2. Group Discussions.
3. Visits to various Biotechnology Parks

F. Proposed Academic Courses:

Name of Course	Year of Inception	Entry Qualification	Student intake	Fee(Rs/yr)	Admission procedure	Reservation Management Quota, General Seats
M.Sc. Medical Biotechnology	2004	Bachelor Of Science, B.Pharm, MBBS	30	90,000/	AICET	Not Applicable

G. Research Activities :

1. Efficacy of PRA-7 , a polyherbal preparation on experimentally induced hepatic damage by-

(D galactosamine . paracetamol, alcohol and Carbon Tetrachloride)

- A. sativum
- A. indica
- C. longa
- O. sanctum
- T. cardiofolia
- T. foenum gracum
- W. somnifera

2. Immobilisation of mimosine oxidase and use of it in degradation of mimosine of seeds and leaves of L.leucocephala

3. Immobilisation of Asparaginase on biomaterial collagen

4. Use of M. oleifera in water purification

H. Facilities for students : If courses are permitted to run then facilities for residence for students, library, Labs, Vehicle, are available.

I. Facilities for Teaching & Non-Teaching staff : Well furnished Residential quarters alongwith Internet facility, Intercom telephone system, centrally water purification system, Recreation Club, Modern Gymnastic, Mediation Hall, Jogging park, Tennis Court, Little Flower School for standard LKG upto 7th (English Medium) is available.

Dr. Jayashree

J. Proposed Activities:

1. Establishment of basic and Molecular biology and Immunology Laboratory including accreditation
2. Isolation of indigenous Herbo-mineral ingredients potentially useful for treatment/prevention of cancer, diabetes, hepatic disorders and arthritis in experimental animal models
3. Diagnostic Application –
 - a. HPV
 - b. M. tuberculosis by PCR technology
4. Breast cancer – determination of ER/PR receptors
5. Academic Exchange programme for staff and research students with Department of Biotechnology and Molecular Biology , University of Skovde, Sweden

K. Estimated Expenditure for next three years :

Estimated expenditure for the year 2004-05 is Rs. 55.43 Lakhs for the year 2005-06 is Rs. 61.76 Lakhs and for the last i.e. 2006-07 is Rs. 64.86 lakhs.

L. Teaching Staff : 2 Professors, 4 Lecturers, are available for M.Sc. Medical Biotechnology Course.

(Additional Full time Staff with specialization in Molecular Biology ,Genetics Immunology will be appointed)

Dr. J. K. Sharma

INSTITUTE OF SOCIAL MEDICINE (PIMS), LONI**Physical Infrastructure & Assets:**

A. Building : 30680 sq. ft. land given by PMT for building up permanent campus of ISM. 3700 sq. ft. construction is completed. Total cost of construction is Rs. 25 lakhs.

B. Equipment : Equipment costing Rs.8.40 lakhs are available.

C. Library : ISM Library have 237 books on different topics worth of Rs. 1.8 lakhs and Purchase Order for books and journals is being placed worth of Rs. 1.2 lakhs.

D. Financial Status: Provision has been made by PIMS for ISM for the year 2004-05 of Rs. 82.00 Lakhs. Funding received from various agencies for the project worth Rs. 15.00 Lakhs. For running the ISM provision has been made for Rs 97.00 Lakhs.

E. Academic Activities: ISM imparts training to Govt. Medical Officers, ANMs, C.M.E. for general practitioners and capacity building of small Non-governmental organization and grass root level workers. ISM facilitates training to undergraduate students under PIMS. ISM has proposed to start two courses from the year 2005-06.

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F. Proposed Academic Courses:

Name of Course	Year of Inception	Entry Qualification	Student intake	Fee	Admission procedure	Reservation Management Quota, General Seats
M. Sc. in Rural Health	2005	Graduate in Science & equivalent	30 per year	40,000/- pa	AICET	15% seats will be for marginalized sector
P.G. Diploma in Epidemiology & Health Management	2005	Graduate in Science & equivalent	20 per year	30,000/- pa	AICET	15% seats will be marginalized sector

G. Research Activities :

- a. Thirty two minor / small research studies were conducted since 2001 on Maternal & Child Health, Environment, Occupational Health, Social Pathology, Nutrition, etc.
- b. Major Research Project & Funding agency: Following research projects are being carried out 1. R.C.H. (Govt. of India) 2. Adolescent Sexual Health & HIV, (Stina and Birgir Johanasson Foundation, Sweden) 3. Eco-friendly farming and environmental practices, (NABARD) 4. Dai Training programme in Tribal area, (Govt. of India) 5. Comprehensive rural health programme, (USAID and PMT) 6. Health Literacy programme, (PIMS) 7. Cancer Awareness and screening programme (Govt. of India) , 8. Community based rehabilitation programme for disabled.(CAPART)

H. Facilities for students: If courses are permitted to run then facilities for residence for students, library, Labs, Vehicle, etc. will be provided.

I. Facilities for Teaching & Non-Teaching staff Well furnished Residential quarters along with Internet facility, Intercom telephone system, central water purification system, Recreation Club, Modern Gymnastic, Meditation Hall, Jogging park, Tennis Court, Little Flower School for standard LKG upto 7th (English Medium) is available.

J. Proposed Activities:**1. Academic Programs: Academic year 2005-06.**

- i. M.Sc. in Rural Health.
- ii. P.G. Diploma in Epidemiology & Health Management- PGDEHM
- iii. Short duration Certificate courses like
 - a. Dynamics of Rural Health & Role NGOs – 15 days.
 - b. Rural Health Planning & Management - 10 days
 - c. Communication, Skills for RCH Programme – 7 days.
- iv. Workshops & Training: Rural Health Care Providers like MOs, Nurses etc in RCH, HIV/AIDS & RTI/STI.

2. Research & Development Projects.

- Occupational health (Agricultural accidents & injuries, health effects of Pesticides)
- Health System Research.
- Medical Anthropology.
- Socio-cultural determinant of health.
- Health Economics and financing.
- Cancer, HIV, RCH, NCD etc.
- Community Ophthalmology.
- Community Dentistry
- Community Based rehabilitation program for disabled and People Living with HIV/ AIDS
- Community Psychiatry.

3. Community Health & Other Services

- Establishing three more Community Health & Development Centers.
- Extension of community based development services- SHG, IGS etc.
- Strengthening of networking with NGOs, CBOS & Civil Society.
- Publish and disseminate IEC.

K. Estimated Expenditure for next three years:**Budget Provision Approved**

Year	Budget
2004-05	Rs. 82.00 Lakhs
2005-06	Rs. 132.8 Lakhs
2006-07	Rs. 151.9 Lakhs

L. Teaching Staff: There are 3 Professors, 3 Readers, 6 Lecturers, 3 Tutors in Institute of Social Medicine.

Dr. Rajendra

OBSERVATIONS :**General :**

The PIMS possesses the infrastructure and the required resources to fulfil its projected mission of service to the rural poor through the introduction of modern biological approaches and raising the awareness about the social medicine amongst doctors and science graduates. It was further decided that institutions like PIMS which have the advantage and experience of working in rural settings should be encouraged and guided to undertake responsibility of local health related issues, manpower development and training in the areas of biotechnology and to carry out research relevant to the local needs.

The PIMS was given the status of deemed University in the year 2003. The University occupies an area of 120 acres and provides the medical services to rural masses through 700 bedded hospital. One of the innovative approaches adopted in reaching out to the masses is of using the internet facility for telemedicine and interactive communication with patients in 10 villages adopted by the PIMS. With such a background and intention of serving the people and initiating future programmes of relevance to the local needs the Committee strongly felt that the two proposed areas be brought under the ambit of deemed University despite certain inadequacies which need to be attended to urgently.

Advantages of the deemed University in the rural setting :

As mentioned the Mission and objectives of PIMS to cater to the local health problems and generate a human resource in the areas of Biotechnology and Social Medicine, the two proposed Centres to be brought under the ambit of deemed University, it was felt not many such centres exist in the country in a rural setting. Moreover centres with emphasis on medical Biotechnology with a Hospital support are not in adequate numbers in the country.

PIMS also has proper infrastructure in terms of buildings, enough space for future expansion, marked space for the two proposed centres, linkages with the field and primary health centres, and a 24 hour power backup. It is commendable that the PIMS, Loni has taken upon the responsibility to provide medical services in a rural setting and at the same time remained conscious of the responsibility to use the resources for education and research in conventional disciplines and the areas of modern biology. One of the aims of generating a trained human resource in the proposed programmes of establishing a Centre for Biotechnology and a Centre for Social Medicine to be included in the ambit of deemed University is not only timely but also reflects the will to optimally use the resources available with the PIMS and create a good infrastructure in a rural setting, a great need of the nation.

Although the location of PIMS in Loni with difficult approach and its distance from Pune apparently puts this institution at a disadvantage, which cannot be helped, however, its location could be turned to the advantage of the local population. There are a number of deficiencies observed by the Committee Members which need to be plugged and attended to on an urgent basis which have been presented in the report presented to the UGC.

Improvements :

All the Members of the Committee suggested that the following be taken note of on an urgent basis :

1. Core Faculty to be increased. More teachers to be inducted. Lack of adequate faculty dedicated for a given programme and the number of technical and non-technical staff for the purpose.
2. More emphasis on teaching and practical orientation to the students required
3. Teaching and research should be geared to cater to the local needs. Courses designed at times loose the sight of the mission of catering to local problems and rural masses.
4. Laboratories for the proposed Centres and the new Animal House not completely functional.
5. Number of students admitted should match with the infrastructure which exists. The economically under privileged should have scope to pursue their studies.
6. Collaborations should not turn out beneficial only to a foreign institution or scientist.
7. Library to be improved both at centralised and proposed centres of Biotechnology and Social Medicine both in terms of latest and syllabi oriented textbooks, reference books and journals.
8. Centre for Social Medicine could incorporate in its curriculum an ingenious approach already adopted of telemedicine and interactive communication with the patients by the University.
9. Bio-safety Committees should be in place.
10. The Epidemiology section within the Centre for Social Medicine should be strengthened in respect of the staff and reading learning and resource materials.
11. The number of students in the courses should not be more than 30 with a provision of extra five to ten points given to students from economically backward sections of the society so that it fulfils the vision and mission of the Institute.
12. The Committee after visiting the proposed Centre of Biotechnology felt that relevant equipments have already been procured which will go a long

way in supporting the teaching and research activities within the Centre. It was noticed that the Journals in the areas of research presented by the Centre are not in adequate numbers. The Members suggested an upgradation of the Centre's library both in terms of procurement of recent books in the areas of molecular Biology, Cancer and Cancer Chemoprevention etc.

13. Though the CBT is already running the UG and PG classes in Biotechnology but Committee was surprised to see the absence of basic facilities such as culture rooms, media room and many other basic amenities despite an adequate space. However, it is not difficult for the center to procure these minor equipments, chemicals and glassware etc. The members noticed the presence of modern equipments such as gel documentation system, HPLC, gel electrophoresis, instruments and powerpacks, high speed cooling centrifuges and thermal cycler.
14. The committee made an observation that the institution is well organised, disciplined, and properly governed with planned buildings, roads, 24 hour power back up, good water supply, and basic services with congenial academic ambience, however, the thrust in certain critical areas of having dedicated faculty, at times infra structural inadequacies for teaching programmes was lacking. It was suggested to the university authorities that they need to bridge this gap on an urgent basis.
15. The members of the committee also visited the Animal House Facility which they found is well planned and organised but yet to come in operation.
16. The Committee suggested that an evaluation of the progress is necessary after two years of its establishment.

contd. -

for signature

37**Recommendations :**

The Committee unanimously recommends that :

- a) the Centre for Biotechnology be brought under the ambit of deemed University with the suggested improvements; and
- b) the proposed Institute of Social Medicine be brought under the ambit of deemed University in the form of a Centre for Social Medicine instead, focussing on only two (Rural Health, and Epidemiology & Health Management) out of the six presented programmes to be offered for degree / diploma at Masters level to start with.

R. Bamezai
06/11/04

Prof. R.N.K. Bamezai
Convenor

Sanjay
06/11/2004

Dr. Sanjay Wadhwa
Member

श्री. वी.के.जैसवाल
6.11.2004

Shri V.K.Jaiswal
Member Secretary

Raka
06/11/04

Prof. (Mrs.) Raka Kamal
Member

S.C. Tiwari

Prof. S. C. Tiwari
Member

6 th November 2004
Loni, Maharashtra

श्री. जयसवाल