

Annual Quality Assurance Report (AQAR) in Accredited Institutions (Revised in October 2013)



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

AQAR for the year (for example 2013-14)

2015-16

I. Details of the Institution

1.1 Name of the Institution

KASTURBA MEDICAL COLLEGE
MANIPAL

1.2 Address Line 1

MADHAV NAGAR

Address Line 2

City/Town

MANIPAL, UDUPI

State

KARNATAKA

Pin Code

576104

Institution e-mail address

office.kmc@manipal.edu

Contact Nos.

0820-2922552

Name of the Head of the Institution:

DR. POORNIMA BALIGA B

Tel. No. with STD Code:

0820-2922367

Mobile:

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B+	--	2002	5 yrs
2	2 nd Cycle	A	3.30	2016	5 yrs

1.7 Date of Establishment of IQAC : DD/MM/YYYY

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR _____ (DD/MM/YYYY)
- ii. AQAR _____ (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.9 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (*for the Colleges*)

Manipal Academy of Higher Education, Manipal

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme	-	DST-FIST	-
UGC-Innovative PG programmes	-	Any other (<i>Specify</i>)	-
UGC-COP Programmes	-		

2. IQAC Composition and Activities

2.1 No. of Teachers	6
2.2 No. of Administrative/Technical staff	1
2.3 No. of students	2
2.4 No. of Management representatives	1
2.5 No. of Alumni	1
2.6 No. of any other stakeholder and community representatives	1
2.7 No. of Employers/ Industrialists	0
2.8 No. of other External Experts	0
2.9 Total No. of members	12
2.10 No. of IQAC meetings held	

2.11 No. of meetings with various stakeholders:	No.	Faculty
Non-Teaching Staff	-	4
Students	-	4
Alumni	-	-
Others	-	-

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount -

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

MCI recognised Basic Medical Education workshop
Investigators Training
Medical Audit

2.14 Significant Activities and contributions made by IQAC

The IQAC has conducted annual department audits analyzing the strengths and weakness of the departments and providing suggestions on areas of improvement for the individual departments.
• Sensitization of all staff/ Holding regular meetings.

2.15 Plan of Action by IQAC/Outcome

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

Plan of Action	Achievements

* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	12	-	12	12
PG	39	-	39	39
UG	1	-	1	1
PG Diploma	10	-	10	10
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	62	-	62	62
Interdisciplinary	62	-	62	62
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	6 Programme (MSW, MPH, MHA, MSc - Bio Stat, MSc - Virology, MSc - Lib Info Sci) MSc anatomy, physiology, bochemistry, microbiology
Trimester	-
Annual	63 (All others)

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Incorporating soft skills, gender sensitivity, medico-legal and ethical issues in the curriculum
 Incorporating environmental studies module
 A curriculum book with exact topics and syllabus to be given in the beginning at the time of admission.
 Syllabus is reviewed in board of studies meeting held every 6 months . Introducing latest teaching modules. Periodic Assessment and mock examination

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Yes. Department of Emergency Medicine and Division of Liver Transplant and Hepatobiliary Surgery under Surgery department.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	416	193	96	107	20

2.2 No. of permanent faculty with Ph.D. 27

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	69	49	02	15	01	05	14	07	86	76

2.4 No. of Guest and Visiting faculty and Temporary faculty - 60 -

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops/Symposia	29	288	584
Presented papers	98	186	64
Resource Persons	29	89	93

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Small group teaching was emphasized. Various small group teaching methods like seminar, tutorial, case based learning, problem based learning and team based learning was introduced. e-learning platform where all study material, references, videos are uploaded for students. Videography of lectures are also done so that students can refer them later
 Small group teaching, tutorials, seminars
 Self directed learning at weekends has been introduced

2.7 Total No. of actual teaching days during this academic year

302

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding Double Valuation, Photocopy, Online Multiple Choice Questions)

Onscreen marking system, Double valuation, MCQs, Students writing exams on e- pads

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

41

14

17

2.10 Average percentage of attendance of students

85%

2.11 Course/Programme wise distribution of pass percentage :

S.No.	Title of the Programme	Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
	MBBS	1019	179	432	249		13
		July, 2015					
1	M.Sc(Clinical Embryology)	6	0	3	3	0	0
2	M.Sc(Medical)Anatomy	3	0	1	0	0	0
3	M.Sc(Medical)Biochemistry	9	0	3	3	0	0
4	M.Sc(Medical)Microbiology	12	0	0	9	0	0
5	M.Sc(Medical)Pharmacology	3	0	0	3	0	0

		February, 2016					
1	M.Sc(Medical)Anatomy	1	0	0	0	0	0
2	M.Sc(Medical)Biochemistry	3	0	0	0	0	3
3	M.Sc(Medical)Microbiology	2	0	0	0	0	1
		July, 2015					
1	M.Sc(Yogatherapy)	3	0	1	2	0	0
		February, 2015					
1	Panchakarma	8	1	4	3	0	0
		August, 2015					
1	Panchakarma	4	0	4	0	0	0
		July, 2015					
1	D.M.(Nephrology)	2	0	0	0	0	2
2	D.M.(Cardiology)	2	0	0	0	0	2
3	D.M.(Neurology)	2	0	0	0	0	2
4	D.M.(Gastroenterology)	1	0	0	0	0	1
5	M.Ch(Urology)	2	0	0	0	0	2
6	M.Ch(Neuro Surgery)	2	0	0	0	0	2
7	M.Ch(Paediatric Surgery)	1	0	0	0	0	1
8	M.Ch(Cardivascular & Thoracic Surgery)	1	0	0	0	0	1
		July, 2015					
1	Advanced Training in clinical	1	0	1	0	0	0

	genetics						
		October, 2015					
1	MD(Community Medicine)	2	0	0	0	0	2
2	MD(Microbiology)	1	0	0	0	0	1
3	MD(Pathology)	2	0	0	0	0	1
4	MD(General Medicine)	3	0	0	0	0	3
5	MD(Paediatrics)	4	0	0	0	0	4
6	MD(Radiodiagnosis)	1	0	0	0	0	1
7	MD(DDVL)	1	0	0	0	0	1
8	MS(General Surgery)	1	0	0	0	0	1
9	MS(Oto-Rhino-Laryngology)	1	0	0	0	0	1
10	MS(Ophthalmology)	1	0	0	0	0	1
11	MS(Obstetrics & Gynaecology)	1	0	0	0	0	1
12	MS(Orthopaedics)	3	0	0	0	0	3
		April, 2016					
1	MD(Anatomy)	3	0	0	0	0	3
2	MD(Physiology)	1	0	0	0	0	1
3	MD(Biochemistry)	1	0	0	0	0	0
4	MD(Pathology)	9	0	0	0	0	9
5	MD(Microbiology)	4	0	0	0	0	4
6	MD(Pharmacology)	7	0	0	0	0	7
7	MD(Forensic Medicine)	3	0	0	0	0	3
8	MD(Community Medicine)	3	0	0	0	0	3
9	MD(General Medicine)	21	0	0	0	0	20
10	MD(Paediatrics)	10	0	0	0	0	9

11	MD(Anaesthesiology)	14	0	0	0	0	13
12	MD(Pulmonary Medicine)	2	0	0	0	0	2
13	MD(DDVL)	3	0	0	0	0	3
14	MD(Immuno Haematology & Blood Transmission)	2	0	0	0	0	2
14	MD(Psychiatry)	3	0	0	0	0	3
15	MD(Radiotherapy)	3	0	0	0	0	3
16	MD(Radiodiagnosis)	5	0	0	0	0	5
17	MD(Hospital Administration)	3	0	0	0	0	3
18	MS(Obstetrics & Gynaecology)	8	0	0	0	0	6
19	MS(General Surgery)	8	0	0	0	0	8
20	MS(Orthopaedics)	9	0	0	0	0	7
21	MS(Ophthalmology)	5	0	0	0	0	5
22	MS(Oto-Rhino-Laryngology)	4	0	0	0	0	4
23	DCH(Paediatrics)	2	0	0	2	0	0
24	DDVL	2	0	1	1	0	0
25	DPM(Psychiatry)	4	0	0	4	0	0
26	DA(Anaesthesiology)	4	0	2	1	0	0
27	DMRD(Radiodiagnosis)	2	0	1	1	0	0
28	D.Ortho(Orthopaedics)	3	0	0	2	0	0
29	DLO	1	0	0	1	0	0
30	DO	1	0	0	1	0	0
31	DGO(Obstetrics & Gynaecology)	5	0	0	5	0	0
32	DCP(Clinical Pathology)	1	0	0	1	0	0

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- Student feedback on teachers and infrastructure obtained periodically.
- Seminars and conferences for teaching faculty to inspire their quality of teaching.
- Medical education unit through which IQAC periodically conducts sessions to explore avenues to enhance teacher effectiveness through professional skill development training programmes.

- Department audit by trained Auditors twice a year.
- Analysis of Results, Research output, Performance of students, and teachers analysed in Core committee meeting and board of studies.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	12
UGC – Faculty Improvement Programme	Nil
HRD programmes	35
Orientation programmes	22
Faculty exchange programme	01
Staff training conducted by the university	43
Staff training conducted by other institutions	02
Summer / Winter schools, Workshops, etc.	25
Others	02

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	143	06	11	
Technical Staff	121	12	11	

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- IQAC encourage the teachers to undertake major/minor research projects sponsored by DST, ICMR and other funding agencies and provide necessary facilities & assistance.
- Renowned researchers are invited for motivational talk on research. Students are encouraged to do research and attend conferences and publish papers in journals
- The staff and students are informed about the various fellowships available and are encouraged to apply for the same
- IQAC encourage the teachers to present papers in international, national and state level seminars and conferences.
- Financial support to Present Research outcomes in National and International Conferences and Publications
- Research incentives are given for publishing papers, books or patents
- Awards are given for best paper published

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	35	35	70	
Outlay in Rs. Lakhs	35144053.25	61102901.67	96246954.92	

DEPARTMENT OF VIRUS RESEARCH

	Completed	Ongoing	Sanctioned	Submitted
Number	2	5	0	2
Outlay in Rs. Lakhs	6,83,364.00	15,78,85,650.00	0	99,10,001.00

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	3	4	7	
Outlay in Rs. Lakhs	71400.00	469045.00	540445.00	

DEPARTMENT OF PUBLIC HEALTH

Details regarding Total Projects

	Completed	Ongoing	Sanctioned	Submitted
Number		4		
Outlay in Rs. Lakhs			2500399	2500399

3.4 Details on research publications

	International	National	Others
Peer Review Journals	469	202	
Non-Peer Review Journals	1	5	
e-Journals			
Conference proceedings			

DEPARTMENT OF PUBLIC HEALTH

	International	National	Others
Peer Review Journals			
Non-Peer Review Journals			
e-Journals			
Conference proceedings			
TOTAL	7	1	

DEPARTMENT OF VIRUS RESEARCH

	International	National	Others
Peer Review Journals	7	1	0
Non-Peer Review Journals	0	0	0
e-Journals	0	0	0
Conference proceedings			

3.5 Details on Impact factor of publications:

Range	0.347 – 8.736	Average	0.545	h-index	6	Nos. in SCOPUS	443
-------	---------------	---------	-------	---------	---	----------------	-----

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
MAJOR PROJECTS				
Repeated superovulation induced changes in the oocytes, embryos and somatic cells - Dr Guruprasad Kalthur	3	Science & Engineering Research Board (SERB)	2,214,400.00	700,000.00
Clinical & molecular evaluation of inherited arthropathies and multiple vertebral segmentation defects - Dr Girisha K M	3	Indian Council of Medical Research, New Delhi	3,305,967.00	770,927.00
Evaluation of the mechanisms involved in wound healing properties of topical application of few Indian traditional Medicinal Preparations- Histopathological, biochemical, cellular, molecular and biomechanical analysis - Dr Kumar MR Bhat	3	Science & Engineering Research Board, New Delhi	1,635,000.00	500,000.00
To compare the efficacy, safety and effects of Caffeine Versus Aminophylline for Apnea of Prematurely in Indian Neonates. A prospective Randomized Control Trial -	4	Indian Council of Medical Research, New Delhi	2,753,598.00	777,422.00

Dr Leslie Lewis				
Effect of assisted hatching on developmental potential of the embryo etc - Dr Satish Kumar Adiga (Fellowship - Mr Sachin Honguntikar)	1	Indian Council of Medical Research, New Delhi	524,424.00	233,881.00
A clinico microbiological environmental and molecular approach to explore the epidemiology of neglected disease Melioidosis - Dr Chiranjay Mukhopadhyay	2	Indian Council of Medical Research, New Delhi	3,833,650.00	301,224.00
Development and application of next generation sequencing based gene panel for disorders with low bone mineral density - Dr Girish Katta	2	Ministry of Science & Technology, Department of Biotechnology, Government of India	3,318,500.00	550,500.00
Differences in T lymphocyte apoptosis in the granulomatous inflammation in intestinal tuberculosis and Crohn's disease - implications to diagnosis and pathogenesis - Dr Ganesh Pai	4	Science and Engineering Research Board, New Delhi	5,148,000.00	700,000.00
A community based assessment of visual, hearing, locomotor disabilities and psycho-social morbidities among geriatric population in coastal Karnataka - Dr Ranjitha S Shetty	2	Indian Council of Medical Research, New Delhi	2,239,848.00	612,274.00
Metabolomics based non invasive detection of genetically normal human embryos - Ms Shubhashree Uppangala	1	Vision Group on Science and Technology	400,000.00	40,000.00
Molecular Analysis of filamin b related disorders -	3	Indian Council of Medical		

Dr K M Girisha (Award of Sr. Research Fellowship to Mr Abdul Mueed Bidchol)		Research, New Delhi	665,075.00	203,200.00
Advanced Embryology Training - Dr Satish Kumar Adiga	5	Merck Serono India	1,150,000.00	1,150,000.00
Registry of people with Diabetes in India with Young Age at Onset -II - Dr Sudha Vidyasagar	3	Indian Council of Medical Research, New Delhi	1,012,870.00	471,435.00
Fertility preservation using Moringa oleifera/Leaf extract in Mice Treated with Chemotherapeutic Agents and its Nechanism of Action - Dr Guruprasad Kalthur	3	Indian Council of Medical Research, New Delhi	1,801,012.00	65,200.00
Clinico-Microbiological correlation and phenotypic characterisation of non tuberculous mycobacteria (NTM) in Kasturba Hospital, Manipal - Dr Chiranjay Mukhopadhyay	18 months	Ganpatrai Luhariwala Charitable trust	200,000.00	150,000.00
Adolescent health care in two districts of coastal Karnataka an exploratory study - Dr Asha Hegde	2	Indian Council of Medical Research, New Delhi	2,193,865.00	572,652.00
Functional, Cellular and Molecular Evaluation of Hepatoprotective Property of Caesalpenia Bonduc (Kantakikaranjah): an in vitro study - Dr Kumar M R Bhat	3	Indian Council of Medical Research New Delhi	2,003,000.00	902,112.00
Evaluation of multiple ligation dependent probe amplification (MLPA) for diagnosis and carrier detection in families with a dystrophinopathy - Dr Girisha K M	3	Science and Engineering Research Board, New Delhi	2,066,557.00	266,557.00
Determination of	2	Indian Council		

diagnostic-prognostic significance of peripheral blood parasite index, leucocyte and platelet parameters for disease severity and outcomes among hospitalized adult patients with plasmodium vivax malaria - Award of Sr. Research fellowship to Mr Rishikesh Kumar		of Medical Research, New Delhi	203,200.00	203,200.00
Modification and Demonstration of Efficacy of an Existing Module for Affect Recognition Training in Schizophrenia - Fellowship to Mr Umesh Thonse	2	Indian Council of Social Science Research, New Delhi	414,000.00	115,000.00
Thiopurine Therapy in Inflammatory Bowel Diseases: Optimising Existing Strategies - Dr Ganesh Pai	3	Science & Engineering Research Board	4,992,862.00	1,306,666.00
Screening for Human Papilloma Virus and other DNA virus infections of the cervix among tribal women in Southern India - Dr Ranjitha Shetty	3	Indian Council of Medical Research, New Delhi	2,804,599.00	741,274.00
Comprehensive analysis of genetic diversity in Waardenburg syndrome - Dr Anju Shukla	3	Science & Engineering Research Board, New Delhi	2,160,000.00	750,000.00
Development of procedures for restoration of fertility in cancer affected male individuals, post chemotherapy - Dr Satish Adiga	3	Science & Engineering Research Board, New Delhi	3,998,172.00	1,116,828.00
Efficia ECG 100HUB & Spoke Services Project PO # 25000058054(SC9328592)-	Not mentioned	Philips India Ltd		137,400.00

Dr Ranjan Shetty				
Identification of a novel gene responsible for autosomal recessive oculocutaneous albinism using whole exome sequencing - Dr Solange Smita Lewis/Co-PI Dr Girisha K M	3	Ministry of Science & Technology, Department of Biotechnology	4,690,000.00	180,000.00
Multicentric Collaborative study of the Clinical Biochemical and Molecular Characterization by Lysosomal Storage Disorders in India - The initiative for research in LSD - Dr Girish K M	3	Indian Council of Medical Research, New Delhi	2,343,200.00	375,147.00
The Mechanism and Clinical Profile of Steroid induced diabetes - Dr Sudha Vidyasagar	3	Research Society for the study of Diabetes in India	395,000.00	131,667.00
The Mechanism and Clinical Profile of Steroid induced diabetes - Dr Sudha Vidyasagar	3	Research Society for the study of Diabetes in India	395,000.00	131,667.00
Fellowship for continuing medical training at Kasturba Medical College & Hospital - Dr K Vamshi Krishna	1	India Medtronic Pvt Ltd	600,000.00	150,000.00
Women Scientist project - Role of paternal genome on stress response and polarity of pre-implantation stage embryo - Ms Ramya Nair M T	3	Ministry of Health and Family Welfare (Department of Health Research)	3,549,000.00	591,500.00
Cissus Quadrangularis Linn (Asthisrinkala) as a regulator of bone progenitor cells in osteoporosis and	2	Council of Scientific and Industrial	1,075,000.00	112,500.00

diabetes induced bone disorders: cellular and functional basis for osteogenic regenerative medicine - Dr Kumar M R Bhat		Research		
Merck Serono Medical Education Funding - Dr Satish Kumar Adiga	2 days	Merck Specialities Pvt Ltd, Mumbai	200,000.00	200,000.00
Effect of biotin supplementation to sperm wash media on the enhancement of sperm function and pregnancy outcome in intrauterine insemination programme - Dr Guruprasad Kalthur	3	Indian Council of Medical Research, New Delhi	1,526,665.00	270,287.00
A Systematic evaluation of fetal syndromes - Ms Shalini	3	Indian Council of Medical Research, New Delhi	211,600.00	211,600.00
ALKEM/CT/ARBK/032012 - Dr Muralidhar Varma	2 months	KPS Clinical Services Pvt Ltd	786,800.00	25,000.00
CSPP100F2301 - Dr Padma Kumar	4	Novartis Healthcare Pvt Ltd	1,000,000.00	57,250.00
Literature review of current state of the art - Dr Raviraj Acharya	3 months	Intel Technology India Pvt Limited	589,890.00	589,890.00
ILO522D2301 - Dr P S V N Sharma	2	Quintiles Research (India) Pvt Ltd	800,000.00	79,292.00
Philips Efficia Central Release B.01 Project - Dr Raviraj Acharya	Not mentioned	Philips India Ltd	150,000.00	150,000.00

Val/07/13 - Dr Pratap Kumar	1	Martin & Harris Pvt Ltd	422,265.00	422,265.00
KMC/MED/001/2013 - Dr K L Bairy	2	Apex Laboratories Private Limited	1,216,000.00	608,000.00
KMC/MED/002/2013 - Dr K L Bairy	2	Apex Laboratories Private Limited	1,216,000.00	608,000.00
PHA/DERMA/01-2012 - Dr Satish Pai	3	Apex Laboratories Private Limited	976,000.00	138,856.00
01/Skin Irritancy/2014 - Dr K L Bairy	1	Apex Laboratories Private Limited	264,000.00	132,000.00
01/Burn wound healing study/2014 - Dr K L Bairy	2	Apex Laboratories Private Limited	294,340.00	147,170.00
CACZ885M2301 - Dr Tom devasia	4	Novartis Healthcare Pvt Ltd	1,658,600.00	15,880.00
RGH-MD-06 - Dr P S V N Sharma	2	Quintiles Research (India) Pvt Ltd	400,000.00	31,566.30
Rota :03/12 - Dr Veena Kamath	2	Serum Institute of India Ltd	258,868.25	10,422.78
B3271002/1313 - Dr Donald Fernandes	8 Months	ICON Clinical Research India Pvt Ltd	Per patient 3,43,567.00	197,988.87
RMS/OS/BD/1202 - Dr Kiran Acharya		Regenerative Medical Services Pvt Ltd	409,715.00	62,217.00
B3271002 - Dr Donald Fernandes	8 Months	ICON Clinical Research India Private Limited	Per patient 3,43,567.00	23,535.00

EX2211-3748 - Dr Sudha Vidyasagar	5	Novo Nordisk India Pvt Ltd	7,000,000.00	57,225.00
KMC/ZVT/01/2014 - Dr K L Bairy	18 months	Apex Laboratories Private Limited	429,960.00	171,984.00
KMC/ZVT/02/2014 - Dr K L Bairy	18 months	Apex Laboratories Private Limited	429,960.00	171,984.00
WSA-CS-008 - Dr Sudha Vidyasagar	7	Quintiles Research India Pvt Ltd	2,24,188/per patient	22,000.00
BRV07 - Dr Avinash Shetty	2 years	Shantha Biotechnics Limited	1,906,000.00	407,277.00
KMC/AGELESS/01/2015 - Dr K L Bairy	18 months	Apex Laboratories Private Limited	626,400.00	375,840.00
KMC/AGELESS/03/2015 - Dr K L Bairy	18 months	Apex Laboratories Private Limited	568,800.00	341,280.00
KMC/AGELESS/05/2015 - Dr K L Bairy	18 months	Apex Laboratories Private Limited	828,800.00	497,280.00
BRV10 - Dr Avinash Shetty	18 months	Shantha Biotechnics Pvt Ltd	1,651,980.00	165,198.00
B3281006 - Dr Karthik S Udupa	1	Icon Clinical Research (India) Pvt Ltd	Per patient 2,00,000.00	1,145.00
Rota:03/12 - Dr Veena Kamath	2	Serum Institute of India Pvt Ltd	386,821.25	32,586.00
OSB14286/ICLPS registry - Dr Mukhyaprana Prabhu	1 month	Sanofi Synthelabo (India) Pvt Ltd	140,000.00	55,860.00
ROTO-03/12 - Dr Veena Kamath	2	Serum Institute	327,527.25	

		of India LTD		26,708.00
Protocol NANO/INN/SUP/001 - Dr Ranjan Shetty	2	Innvolution Med System, New Delhi	200,000.00	18,320.00
TUXEDO India study - Dr Ranjan Shetty	2	Fortis Escorts Heart Institute & Research Centre	914,947.17	161,250.00
BRV-10 - Dr Avinash Shetty		Shantha Biotechnics Private Limited	1,651,980.00	363,198.00
KMC/Ageless Liquid/01/2014 - Dr K L Bairy	18 months	Apex Laboratories private limited	780,600.00	335,124.00
KMC/Ageless Liquid/03/2014 - Dr K L Bairy	18 months	Apex Laboratories private limited	810,600.00	323,244.00
RMS/CH/ACD/1202 - Dr Kiran Acharya	1	Regenerative Medical Services Pvt Ltd	409,715.00	1,244.00
MINOR PROJECTS				
Travel Grant to Ms Sandhya Kumari M V to attend World IVF Congress on Invitro Fertilization-2015 held at Copenhagen, Denmark - Ms Sandhya Kumari M V	4 days	Centre for Internation co- operation in Science (CICS), New Delhi	20,000.00	20,000.00
Grant received towards periodical medical check up - Dr Muralidhar Kulkarni	1	Yashaswi Fishmeal & Oil Company	26,400.00	13,200.00
EFC 11319 - Dr Mukhyaprana Prabhu	5	Sanofi- Synthelabo (India) Limited	350,000/ subject	17,978.00
GPL/CT/2013/012/III - Dr Shyamala G	3 months	Glenmark Pharmaceuticals Ltd	17,900/per patient	17,175.00

CLR_08_10 - Dr Arun Achawla	1	Sun Pharmaceutical Industries Ltd	25,000.00	25,000.00
CQVA149A318 - Dr Aswini Kumar	1	Novartis Health Care Ltd	45,145.00	15,000.00
Tips-3 - Dr Sudha Vidyasagar	6	Cadila Pharmaceuticals Limited	56,000/per patient	3,818.00
Interdisciplinary Projects	-	-	-	-
Industry sponsored	46			
Projects sponsored by the University/ College				
Dr Chiranjay Mukhphadhyay	1 year	MAHE University	10,00,000.00	10,00,000.00
Dr Kiran Chawala	1 year	MAHE University	10,00,000.00	10,00,000.00
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)				
Total				

DEPARTMENT OF VIRUS RESEARCH

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects		ICMR, CDC, NVBDCP	15,85,69,014.00	15,85,69,014.00
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	-	-

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST

DPE

DBT Scheme/funds

3.9 For colleges

Autonomy CPE DBT Star Scheme INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	4	-	-	-
Sponsoring agencies	2	3	-	-	-

DEPARTMENT OF PUBLIC HEALTH

Level	International	National	State	University	College
Number	1	1			
Sponsoring agencies					

DEPARTMENT OF VIRUS RESEARCH

Level	International	National	State	University	College
Number	2	6		1	
Sponsoring agencies	CDC, Atlanta & American society of Microbiology	American society of Microbiology		Department of Virus Reserach	

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations

International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency

From Management of University/College

Total

DEPARTMENT OF VIRUS RESEARCH

From Funding agency From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	1
	Granted	
International	Applied	1 (US9196047B2)
	Granted	
Commercialised	Applied	
	Granted	

DEPARTMENT OF VIRUS RESEARCH - NIL

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
44	10	24	02	02	-	06

DEPARTMENT OF VIRUS RESEARCH

Total	International	National	State	University	Dist	College
4	2 (Travel grant)	0	0	2	0	0

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

DEPARTMENT OF VIRUS RESEARCH - Ph. D. Guides

students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

Department Of Virus Research No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
National level International level

3.22 No. of students participated in NCC events:

University level State level
National level International level

3.23 No. of Awards won in NSS:

University level State level
National level International level

3.24 No. of Awards won in NCC:

University level State level
National level International level

3.25 No. of Extension activities organized

University forum College forum
NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Participation in national health programmes of the government
- Conducting camps at various places involving various departments of the hospital
- Conducting and participating in blood donation camps
- VSO organized camps for patients and activities for fund raising for poor students

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area				
Class rooms				
Laboratories				
Seminar Halls				
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	600	84	OWN	684
Value of the equipment purchased during the year (Rs. in Lakhs)	3889.71	341.43	OWN	4231.14
Others				

Department Of Virus Research

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	1	0	ICMR and University	1
Class rooms	1	0	ICMR and University	1
Laboratories	1	0	ICMR and University	1
Seminar Halls	1	0	ICMR and University	1
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	59	134	CDC Atlanta	193

Value of the equipment purchased during the year (Rs. in Lakhs)	350	440	CDC Atlanta	790
Others				

4.2 Computerization of administration and library

Administration & Library is fully computerized
--

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	40100	3,28,85,327.89	1621	44,76,182.42	41721	3,73,61,510.31
Reference Books						
e-Books	-	-	52	-	9126	11,54,246.00
Journals	-	-	-	-	167	2,35,00,410.00
e-Journals	-	-	4	-	124	
Journals (Print+Online)	-	-	-	-	2	
Digital Database	-	-	-	-	10	1,38,37,345.00
CD & Video	457	-	34	-	491	-
Others (specify)	-	-	-	-	-	-

Department Of Virus Research

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	0	0	0	0	0	0
Reference Books	195	20,00,000.00	0	0	195	20,00,000.00
e-Books	0	0	0	0	0	0
Journals	2	5,00,000.00	0	0	2	5,00,000.00
e-Journals	17	FOC	0	0	17	FOC
Digital Database	0	0	0	0	0	0
CD & Video	0	0	0	0	0	0
Others (specify)	0	0	0	0	0	0

4.4 Technology up gradation (overall) – Sathish Kamath

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	524							
Added	47							
Total	571							

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- All the faculty and students are provided with laptop computers
- All the departments are provided with computers, LAN Internet and computer accessories
- Wi Fi internet is available throughout the campus
- Students are encouraged to make use of computers for Power Point Presentations of their seminars and projects
- Free internet facility for the staff in the library and in the department

4.6 Amount spent on maintenance in lakhs :

i) ICT	103.14
ii) Campus Infrastructure and facilities	1196.07
iii) Equipments	349.16
iv) Others	136.30
Total :	1784.67

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Student Orientation programme at the beginning of the academic programme
- The institution publishes its updated prospectus and handbooks annually. The information content is disseminated to students at the beginning of every academic year.
- Timely announcements of upcoming events, projects, and notices are displaced in notice board kept at vantage points.
- Groups emails are sent to students and parents wherever necessary

5.2 Efforts made by the institution for tracking the progression

- All the department maintain document, compare and discuss the performance and progress of the students in their exams and other academic activities.
- Every department maintains a register for recording the progress of students.
- Each student is allotted a mentor and the mentor maintain a mentoring booklet in which he/she updates details of academic performance and curricular progress. Mentors offer academic counselling to students, recommend them for remedial coaching, if necessary, and also meet/communicate with parents of their mentees to update them on their progress.
- Attendance by biometrics to monitor students attending classes closely
- SIS for tracking the students progress in academics, attendance and other related issues
- Regular in course Formative Assessment conducted with student feedback

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1229	717	08	

(b) No. of students outside the state

1575

(c) No. of international students

106

Men	No	%	Women	No	%
	51	48		55	52

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1603	24	08	41	-	1676	1542	27	09	35	-	1613

Demand ratio 253:1

Dropout % <1%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET

-

SET/SLET

-

GATE

-

CAT

-

IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

Student counseling is done by the teacher mentors and counselors of the institution

- Student counseling process is managed by the teacher guardian
- Student grievance is addressed by the Grievance cell
- Career guidance is through interactive session with the faculty

Two more counsellors have been appointed

No. of students benefitted

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
08	41	15	14

5.8 Details of gender sensitization programmes

University has a policy on grievance redressal mechanisms which has been made aware for the employees. All the employees have been oriented to the gender sensitization and sexual harassment of women at workplace policies and legal framework

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

Financial support from institution

Type of scholarship	# Students	Scholarship Amount
AGE SCHOLARSHIP	11	1,08,900
FREESHIP	39	1,67,39,400
INT SUBSIDY ON EDU LOAN	2	19,431
KONKANI SCHOLARSHIP	18	8,20,685
KUNDAPUR MOHAN & LATA BHANDARKAR SCHOLARSHIP	1	40,000
SAGES	22	1,04,23,450
STAFF CHILD/SPOUSE SCHOLARSHIP- Manipal Foundation	21	48,90,325
Total	114	3,44,75,391

Financial support from government

Scholarship for SC/ST Category	13	7,65,600
--------------------------------	----	----------

Financial support from other sources	11	5184900
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

04

5.13 Major grievances of students (if any) redressed: NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

To provide global leadership in human development, excellence in education and healthcare

Mission

To train competent, compassionate and caring physicians through excellence in teaching, patient care and medical research

6.2 Does the Institution has a management Information System

Yes

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Twice a year Board of Studies meeting to upgrade curriculum, Examination pattern, Teaching methodology
2. Inclusion of Subject Expert in the BoS from other University
3. Inclusion of Student Representative
4. Separate Board of studies for Pre, Para and Clinical departments and for PG and Super specialty departments
5. Feedback from students

6.3.2 Teaching and Learning

ICT enabled teaching, didactic lectures, discussions, seminars, quiz contests, Case Based Learning
• Academic calendar prepared and given to students and strictly adhered
• Course outline and syllabus given to students in the form of Hand Book/Soft copy
E-learning platform, impartus for capturing lectures, SDL and PBL and TBL have stated

6.3.3 Examination and Evaluation

Most departments follow

- Objective Structured Practical Examination (OSPE)
- Objective Structured Clinical Examinations (OSCE)
- Objective and Descriptive type of Theory questions
- Problem solving type of questions
- Multiple choice questions
- Viva-voce examination
- On screen marking and introduction of e-pads for students to write exams
- Evaluation by internal and external examiners as per rules of regulatory body
- Double evaluation of answer scripts

6.3.4 Research and Development

Students were also encouraged to take ICMR STS projects and exhibit their creativity. TEN students are given funds from the university if their STS project is not selected by ICMR. The institution also organizes regular sessions on research methodology, seminars, conferences, workshops, poster and model presentations.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Manipal University has an excellent Health Sciences Library, perhaps the best among all Health Sciences Libraries in India. The state of the art library stretching over 1.5 lakh square feet, on five levels is a domain for information seekers; be it students, faculty or researchers. It has the capacity to accommodate 1300 students at a time. Besides the comfortable seating and reading environment, the library is well equipped with modern facilities such as e-learning, access to internet and web resources including online journals and e-books. Library is providing a growing range of databases on the campus network. Access to e-resources subscribed by the library has also been provided for off-campus users. All the library services have been automated on modern line. The library has fully computerized its collection, which could be accessible through OPAC. The library is enabled with Wi-Fi technology and security systems with Closed Circuit Television System (CCTV). There is a separate audio-visual room, computer lab, group study area and private study area in the library. The library has excellent computing infrastructure including 103 PCs, 14 printers, 1 color laser printer and 8 scanners. The library has all the facilities for the students to learn. The Health Sciences Library is committed to provide a world-class information support to its users.

6.3.6 Human Resource Management

Faculty are encouraged to take part in academic events/activities/conferences etc and University has provided monetary incentives for the same. Faculty are encouraged to subscribe to the professional bodies to update their knowledge. Medical Education Unit of the Institution provides regular training to deliver effective teaching and learning for the students. Regular trainings are conducted for all the categories of staff.

6.3.7 Faculty and Staff recruitment

Faculty Selection Committee at the University level selects and appoints the faculty. Vacant positions are notified to the University for filling the same.

6.3.8 Industry Interaction / Collaboration

Post graduate Students are sent to industry for internship for 1-2 months

6.3.9 Admission of Students

Students are admitted by all India level entrance exams on merit basis. The admission is on merit as per rank obtained in the MAHE CET and PG CET. Students who have obtained ranks in Karnataka CET and PG CET are also given admission. Superspecialty and PhD students are admitted based on their performance in qualifying exam, entrance exam and interview. MBBS and MD students are now admitted via their ranking in NEET exams. An eligibility criteria of 50% is maintained

6.4 Welfare schemes for

Teaching	Medicare, GTLI, school fee reimbursement, fee concessions, membership to the library, Membership to professional bodies, PF & gratuity, free laptop, conference facility, NPS, Leave Encashment
Non teaching	ESI, Medicare, GTLI, school fee reimbursement, fee concessions, membership to the library, PF & gratuity, NPS, Gratuity, Leave Encashment
Students	Medicare facilities, Anti-ragging committee, Counselling, Felicitation of students for co-curricular and academic activities, Support for attending conferences,

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	TUV Rheinland	Yes	IQAC
Administrative	-	-	Yes	IQAC

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Each paper has double evaluations one by an internal and one by an external examiner. If there is a discrepancy of 15% in the marks, third valuation is performed. Students also are allowed to see their papers. There is very strict policy and standard operating procedures conduct of theory and practical exams.
E-pad introduction, paperless examination

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

University promotes autonomy by allowing management of academic programmes.
All teaching learning activities are self-governed by Institution

6.11 Activities and support from the Alumni Association

Annual alumni meeting is held
Alumni meets are conducted at the department level periodically
Alumni visit departments and deliver guest talks

6.12 Activities and support from the Parent – Teacher Association

Participate in college activities and give feedback for improvement in T-L and student support
Representation in IQAC. Parents part of mentor cell

6.13 Development programmes for support staff

Communication and soft skill development

6.14 Initiatives taken by the institution to make the campus eco-friendly

Institution is 14001:2004 certified with objectives of reducing paper consumption, water consumption and power consumption and Bio waste management as per the norms and prescribed guidelines and waste water treatment. Trees being planted in rainy season. Paperless exams after introduction of e-pads. LED bulbs have been installed. Solar panels mandatory for new buildings
Campus is a No smoking zone

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Onscreen marking of answer script was introduced. Elearning platform. Impartus for recoding lectures, Biometric attendance.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Institutional and departmental objectives were defined.
2015 data will be taken as a baseline for target achievement in 2016

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

Student Information system, Introduction of paperless exams,
IMPARTUS
Performance Management System

**Provide the details in annexure (annexure need to be numbered as i, ii,iii)*

7.4 Contribution to environmental awareness / protection

Institution is 14001:2004 certified with objectives of reducing paper consumption, water consumption and power consumption and Bio waste management. Awareness programmes are conducted for staff and student about environmental protection. Trees are being planted in campus

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

8. Plans of institution for next year

Continue to excel in teaching and student evaluation. To look into the curriculum and modify within the framework of MCI. Digitalization of all student and faculty services offered by the institution. Biometric attendance for all faculty.

Name: Dr. Bharti C Magazine

Name: Dr. Poornima Baliga B

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

_____***_____

Annexure I

Abbreviations:

- CAS - Career Advanced Scheme
- CAT - Common Admission Test
- CBCS - Choice Based Credit System
- CE - Centre for Excellence
- COP - Career Oriented Programme
- CPE - College with Potential for Excellence

DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission
