

Govt. [Model Autonomous] Holkar Science College

**[Affiliated to Devi Ahilya Vishvavidyalaya,
Indore [M.P.], India]**

Agra-Mumbai National Highway No. 03, Near Bhawarkua Square,
INDORE – 452001

SELF STUDY REPORT

III CYCLE



Submitted to

**The Director,
National Assessment and Accreditation Council [NAAC],
Nagarbhavi, Bangalore – 560072
Karnataka**

January – 2015

STEERING COMMITTEE

Sr. No.	Name and Designation	Position
1	Dr. R. K. Tugnawat Principal	Chairperson
2	Dr. M. M. P. Shrivastava Professor of Zoology and Controller of Examinations	Convener
3	Prof. R. S. Maheshwari Head, Department of Biochemistry	Member and Coordinator, IQAC
4	Dr. R. K. Sharma Professor of Mathematics	Member and Convener, IQAC
5	Dr. P. K. Sharma Professor & Head, Department of Computer Science	Member
6	Dr. M. K. Dwivedi Professor of Chemistry	Member
7	Dr. Vipul Kirtee Sharma Professor & Head Department of Bioinformatics	Member
8	Dr. R. C. Dixit Assistant Professor of Physics	Member
9	Dr. Netram Kaurav Assistant Professor of Physics	Member
11	Dr. Suwarna Tanwani Assistant Professor of English	Member
12	Sh. S. K. Chaure Assistant Professor of Geology	Member
13	Dr. Narendra Joshi Assistant Professor of Geology	Member

**Govt. [Model Autonomous] Holkar Science College
Indore, M.P.**

Self Study Report [III Cycle]

CONTENTS

Sr. No.	Particulars	Page Nos.
1	Preface	
2	College at a glance	
3	Executive Summary	1-14
4	Profile of the Institution	15-23
5	Criteria-wise Analytical Report	
	Criteria – I : Curricular Aspects	24-34
	Criteria – II : Teaching-Learning and Evaluation	35-64
	Criteria – III : Research, Consultancy and Extension	65-98
	Criteria – IV : Infrastructure and Learning Resources	99-108
	Criteria – V : Student support and Progression	109-131
	Criteria – VI : Governance, Leadership and Management	132-148
	Criteria – VII : Innovations and Best Practices	149-157
6	Evaluation Report of the Departments	158-160
7	Post Accreditation Initiatives	161-614
8	Declaration by the Head of the Institution	615
	Appendix – 01 : Seminars and Symposiums attended by the Faculties	01 to 59
	Appendix – 02 : Research papers published by the Faculty members of Biosciences	60 to 73
	Appendix – 03 : Research papers published by the Faculty members of Physical Sciences	74 to 79
	Appendix – 04 : Research papers published by the Faculty members of Mathematical Sciences	80 to 84

Sr. No.	Particulars	Page Nos.
	Appendix – 05 : Research papers published by the Faculty members of Chemical Sciences	85 to 92
	Appendix – 06 : Research papers published in Proceedings	93 to 95
	Appendix – 07 : Research papers published as Chapters in Books	96
	Appendix – 08 : Books and Manuals written by Faculty Members	97 to 100
	Appendix – 09 – A : List of Ph. D. awarded candidates	101 to 106
	Appendix – 09 – B : List of candidates registered for Ph. D.	107 to 111
	Appendix – 10 – A : List of M. Phil. awarded candidates	112 to 120
	Appendix – 10 – B : List of M. Phil. admitted candidates	121 to 122
	Appendix – 11 : Site Plan of the College	123
	Appendix – 12 – A to D : Audit Reports	124 to 127
	Appendix – 13 : Letter of 2(f) and 12 (B)	128 to 129
	Appendix – 14 : Letter of Affiliation from the University	130
	Appendix – 15 – A to I : UGC letters regarding the Release of Development Grants [latest]	131 to 139
	Appendix – 16 : Letter of Extension of Autonomy	140

PREFACE

Govt. Autonomous Holkar Science College, Indore, as it is currently known is the translated reality of a dream seen by the visionary king of erstwhile Holkar State Maharaja Shivaji Rao Holkar about a quarter and a century ago. The thoughtful king was genuinely concerned with the idea of widening the mental horizon of his people by means of an adequate educational system. He was convinced that the optimum exploitation of one's potential was possible only through education. Thus the foundation of the college is embedded with high ethical ideals and values.

Ever since its inception the college has remained a pioneer in the field of higher education. During the course of its long journey the college produced a number of eminent scholars and researchers. Excellence seems to have remained a watch word for all the stake holders of this century old institution. The college still painstakingly tries to carry forward the legacy left by its great predecessors. The college was first chosen to be a model college and then recognized as a centre for excellence by the state govt. The UGC found the institution fit to be accorded with the autonomous status. The state govt. has recently shortlisted Holkar College among twelve colleges of Madhya Pradesh who may seek foreign collaboration and sign MOUs with foreign institutes.

It is our sincere concern for excellence in the field of higher education that has made us opt for evaluation by the NAAC twice before. We are fully aware that the inputs received in the form of the observations and recommendations of the NAAC team help us see our strengths and weaknesses very clearly and they are indispensable for the development of the college. The college has tried earnestly to make the best use of the guidance received from the reports of two earlier evaluations. Besides infra-structural development the college has inducted a good number of new courses/course combinations since then. Inclination towards research and the consequent research output has also grown significantly.

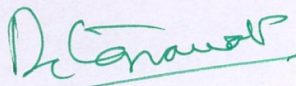
Being a govt. owned institution the college has its own restrictions/limitations/ constraints. In spite of these handicaps the college steadfastly adheres to its motto of imparting quality education to the students so that they may grow into thoughtful human beings and responsible citizens.

The act of once again going for the assessment by the NAAC underlines our sincere desire to seek guidance for excelling in the field of higher education. The SSR has been prepared with great care and precision within the framework of a government owned college.

We have great pleasure to submit SSR for your kind consideration and also cordially extend our invitation to the NAAC and the esteemed members of the peer team to visit our Institution.

Deep regards and thank you.

Indore, 31st January, 2015



Dr. R.K. Tugnawat
Principal
Govt. Holkar Science College,
INDORE (M.P.)

HOLKAR SCIENCE COLLEGE AT A GLANCE

1. Established on 10th June 1891. A huge 34.5 acre campus with 7 gardens.
2. Enjoying autonomy since 1989.
3. College of excellence since 2001-2002.
4. More than 300 Ph.D. awarded scholars.
5. Two D.Sc. Awarded (Chemistry and Zoology).
6. Two separate academic blocks for class rooms.
7. Separate library building with DELNET and INFLIBnet facilities.
8. Teaching is available for B.Sc, M.Sc, M.Phil, Ph.D, BCA and BLIS (start from July 2015).
9. M.Phil. and Ph.D. program in six subjects.
10. B.Sc. with 26 subjects combination/options.
11. M.Sc. in 14 subjects.
12. Free coaching to SC/ST/OBC and other students for NET, PSC and competitive examinations.
13. Wi-Fi campus.
14. CCTV cameras in class rooms and campus.
15. Regular publication of e-news letter and e-magazine (to reduce paper load).
16. Separate sports ground for Hockey, Football, Cricket, Tennis, Basketball, Volleyball, Kho-kho etc.
17. NSS with separate boy and girl units.
18. NCC with two boys and one girls division.
19. Campus is well protected with compound wall which exhibits photos of renowned scientists etc.
20. Committed staff for social cause in PM and CM relief fund (Recently staff donated one day salary for Kashmir Calamity).
21. Staff regularly support army social funds by purchasing flags.
22. College supported service worked for the welfare of villages and weaker societies.
23. Regularly arrange blood donation and health camps for society and students. Recently college staff and students work for eye donation campaign which receive Golden Limca Book Record.
24. College provides free ship facilities to unreserved, weaker section of the students who lost their parents and having income less than one lac.
25. College have well defined policy like- Research Policy, IT Policy, Green Policy, Women Empowerment Policy, Professional Ethics Policy, Anti-Ragging Policy and Attendance Policy.
26. Suggestion and complaint boxes/fire extinguisher units installed in each department.
27. College is running IGNOU study centre.
28. College professor are producing research journals.
29. College has Primary health centre and SBI branch.
30. College has canteen and separate space for two and four wheeler parking.
31. Fully functional Language lab is there. A Energy lab is under construction.
32. Promotion of solar energy based equipment.
33. College students have represented the college in cultural, sports, NSS, NCC at national and international level.