



Green Audit Report

Auditee:

Sophia College

Bhulabhai Desai Road, Mumbai -400026

RAMAGOUDA B. PATIL

10/12/2022



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1. AUDIT OVERVIEW

1a. Audit Objectives - Assess the effectiveness of institute's processes and practices towards

- i) Building, Maintaining & Enhancing a Green Campus
- ii) Optimum utilization of natural resources
- ii) Environment Protection & Energy Optimization
- iii) Promoting Health & Safety
- iv) Creating awareness & sensitivity amongst students on the key aspects of Sustainability
- v) Consistently meeting the compliance obligations.

1b. Audit Methodology – Audit methodology incorporates

- i) interactions with key stakeholders- staff (teaching & non-teaching) , students, suppliers & partners.
- ii) Review of documents & records.
- iii) Observation
- iv) Physical round of the campus/facility

1c. Categorization of Audit Findings* – The outcomes of the audit will be categorized as Good /Positive Points and Opportunities for Improvement.

**Audit will be sampling based, and audit findings will be based on the same.*

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1d. Audit Date- Saturday, 10th December 2022

1e. Auditor Details

Name: Ramagouda Patil*

**Profile & Supporting Documents enclosed as Annexure 1*

1f. Participants from Auditee Organization

Sr. No.	Participant Name	Department	Designation
1	Dr Sr Ananda Amritmahal	English	Principal
2	Dr Anagha Tendulkar Patil	Sociology	HOD, IQAC Coordinator and Vice Principal Administration
3	Dr Roymon T. C.	Philosophy	Associate Professor
4	Mr Vijay Vig	Microbiology	Assistant Professor
5.	Dr Chinmoyee Vatsyayan	Quality Assurance	Joint Director, QA

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2. AUDITEE INFORMATION

Name- Sophia College
Type - Educational Institute
Location- Bhulabhai Desai Road, Mumbai: 400026

Website www.sophiacollegemumbai.com

Number of Sites -01 (above address)

Key Contact Person -

Brief of the Institute-

Sophia College (autonomous), founded in 1940, is affiliated to the University of Mumbai. The Governing Body of the Society for the Higher Education of Women in India runs the College. The Religious Sisters of the Sacred Heart of Jesus and lay staff form the staff of the College.

Sophia College, is a NAAC re-accredited 'A' Grade college with a CGPA of 3.70 out of 4 in the third cycle(2015), was granted Autonomy in 2018 and DBT Star status in 2020 . The focus of the College is to provide quality higher education for women from junior college to the post-graduate level, with undergraduate courses in Arts, Science, Mass Media, and Information Technology, in addition to vocational training. The College aims to make Sophia educational experience vibrant and student centred. College is equipped with a state-of-the-art Library and Information Centre, science laboratories, five computer laboratories, multiple audio-visual rooms, an instrumentation Room, a Convention Centre, Counselling Centre, Placement Cell, gymnasium, basketball and badminton courts.

Sophia College (Autonomous) is under Mumbai University. It is a degree College with two streams – Arts and Science. Junior College is also there. The College also runs PG and Doctoral programs. It offers B.A., B.A.SCJ, B. Sc., B.Sc. IT, M.A., M. Sc., Ph.D., PG Diploma programmes.

Sophia's employee strength includes 99 teaching staff and 108 non-teaching staff. The total number of students across all the streams /programs is 3398. (for 2021-22)

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3. AUDIT FINDINGS

3a. Good /Positive Practices – The institute has several good practices, few of the key practices are as listed below-

The institute has documented the process/practices into a Green Audit Report/ Green Practices Manual, elaborating its current practices in environment protection, enhancing green campus, energy optimization & safety. This also incorporates results achieved for key metrics (records) which form a good baseline for setting improvement targets.

Institute's explicit goal – *'To generate among students an awareness of women's issues, human rights and environmental issues, so that they understand and respond constructively to these'*. With a strong focus on "Refuse – Reduce – Reuse – Recycle – Replenish", the commitment of the Management, Principal and Staff towards this goal is noteworthy.

With approximately 25% green cover, Sophia has a well maintained and nurtured green campus. It has more than 125 genus of flowering, ornamental and fruiting plants with many species and varieties within each genus. It has an exclusive herbal garden with identified plants of more than 50 different genus. 63 trees are identified, labelled and numbered. There is a wide variety of fauna in the campus, the flowers in the garden attract a wide variety and number of butterflies.

Institute proactively conducts various activities / campaigns with participation from students & staff- Save electricity/water, Anti-plastic campaign, Campus cleaning drive, Beach cleaning drive, Waste segregation & kitchen composting, Best out of waste & recycling, Tree plantation drive etc.

The institute moved towards partially meeting its energy requirements through renewable energy sources as early as 2016 with solar panels of 15KWP later followed by 12.8 KWP and 52.2 KWP, which has enabled reduction in usage of electricity.

The institute's building has an architectural design with high ceilings, enabling good cross ventilation and adequate illumination, reducing dependency on use of electricity for lights and fans.

The institute manages waste (approx. 70 to 80 Kg daily) from the College Canteen and Hostel kitchen using a Bio composter (100 Kg capacity), getting a 90% reduction in the wet waste. The compost generated is utilized in enriching the soil of Sophia College garden.

The institute has proactively identified improvement areas to focus on in the near future, few of them include - conservation of paper, promote car -pooling for travel,

BBJ



Energy saving bulbs, motion sensor lights, Mock Drills, Testing for Potability of water by NABL accredited laboratory

Students are encouraged to be frugal with water usage while performing experiments in the labs. Semi micro analysis practical in Chemistry enable reduction of use of chemicals and water. Various water saving awareness activities are undertaken - essay writing, photography contest, awareness through video, questionnaire distribution, movie screening and discussion, peace walk with posters, oath to save water, session on rainwater harvesting.

Institute keeps track of and monitors periodic trends (monthly/ quarterly) of consumption of electricity and water.

Institute's Chemistry department has introduced some green experiments to reduce usage of chemicals. Institute focuses on E - waste management through awareness sessions and e - waste collection drives. The first such effort led to collection of 5kgs of e-waste and a green certificate issued by Eco Friend Industries.

Sophia college has in place several initiatives to ensure safety of its stakeholders with CCTV installations, Deployment of security guards, fire extinguishers, first aid boxes, display of emergency contacts, sessions on first aid & disaster management, ramp for senior citizens, smoke detectors and smoke alarms in science building, within campus -girls hostel, teaching & support staff quarters etc.



3b. Opportunities for Improvement

The 'Green Audit Report' of the Institute can be 'Document Controlled' through appropriate Version / Revision Control.

Institutional level Environment, Safety, Health Policies & Objectives can be defined. Key policies & procedures with performance metrics, as appropriate can be documented like procurement policy, waste management procedure, Water Conservation and Management Plan, Emergency Preparedness & Response Plan, etc. These enable & reinforce a more systematic and performance driven approach.

Automatic Leak detection systems for conservation of water can be in place. Periodic Water Testing, Ambient Air Quality, Noise Level Monitoring can be considered.

Feasibility of having separate water meters, electricity meters for units/ departments, as appropriate, can be considered.

Training and Participation across staff in the areas of Health, Safety, Environment and Community Development can be enhanced by having targets like training/participation hours per staff per year

For the identified improvement areas, the institute, as appropriate, can have in place action plans, targets & timelines.

Feasibility/ Practicability of Tracking and monitoring of per student consumption of electricity and water could be considered in the future.

Compliance Requirements (Legal & other requirements) to be met can be listed and monitored for timely compliance.

Vendor /Partner Agreements (Cafeteria / Canteen , Security etc.) can be reviewed to ensure inclusion & addressing of parameters related to Health, Safety & Environment.

Digitalization can be taken up as a key strategic initiative.

RAMAGOUDA .B. PATIL

10/12/2022

Ramagouda Patil (Ram Patil)

A professional with 25 + years of rich experience in – business management, management systems, process management, quality &, productivity management, market research etc. Worked extensively in both manufacturing and services sector. The industries covered include – Engineering, Chemicals, Food, Pharma Financial services, Health care, Education, IT, Trading etc, The clientele' comprising Large Corporates, Small Medium and Micro Enterprises have significantly benefited from his consulting services.



- **Certified Examiner of Quality Management for IMC Ramakrishna Bajaj National Quality Award (equivalent to Baldrige National Quality Award)**
 - Successfully completed all the phases of 15 cycles of assessment- training, review / evaluation /scoring of application, participation in consensus meeting , site visit and feedback report – for top organizations of India.(services and manufacturing), and Overseas.
 - Enabled/Facilitated leading organizations (service/manufacturing) write application reports for prestigious National Quality/Excellence Awards leading to winning the highest recognition levels.
- **Lead Auditor Certifications- Auditing / Training**
Quality Management Systems ISO 9001, Food Safety Management Systems ISO 22000, Occupational Health & Safety Management System ISO 45001, Information Security Management Systems ISO 27001, Environmental Management System ISO 14001
- Empaneled as External Assessor of Performance/Business Excellence framework for leading Business groups
- On the Assessor Panel for the prestigious - Council of Fair Business Practices (CFBP) Jammalal Bajaj Awards.
- Well versed with Global Business / Performance Excellence Frameworks (Malcom Baldrige / EFQM)
- Trained-Certified Six Sigma Black Belt/ Certified Six Sigma Green Belt
Asian Institute of Quality Management. (Accredited by ASCB (Europe) Ltd, U.K)
- Engaged in various activities for student development in rural schools.
- Well Read - Top/Best selling authors on leadership/motivation- Tony Robins, Stephen Covey, Robin Sharma, Brian Tracy etc.

Education

- **MS Consultancy Management** – BITS, Pilani
- **Bachelor of Engineering**
(Industrial & Production Engineering), Gogte Institute of Technology
Karnatak University, Dharwar
- Diploma in **Total Quality Management** from National Center for Quality Management



CERTIFICATE OF ACHIEVEMENT

Certificate No.: 51035682-144394588

CQI and IRCA Delegate ID: 435254

This is to confirm that

Ramagouda B. Patil

has participated in the following training course and passed the written examination and continuous assessment necessary for successful completion.

**Environmental Management System Auditor/Lead Auditor Training
Course as per ISO 14001:2015**

on 25-July-2022 08:45 - 29-July-2022 17:00

Course number: 17913

This course meets the formal training requirements for individuals seeking certification under the CQI and IRCA Auditor Certification scheme and for this purpose, the certificate is valid for five years from the date of completion of the course.

Place and date: Mumbai, 07 October 2022

Delivery Type: Virtual Classroom



Signed on behalf of the Global Training Unit
CQI and IRCA Certified Approved Training
Partner ID: 1196512

Ramanie Pathirage Chandraratne
Global Training Manager
DNV Business Assurance Academy

CERTIFICATE OF ACHIEVEMENT

Certificate No.: 45102

CQI-IRCA Delegate ID: 133821

This is to confirm that

Ramagouda B. Patil

has participated in the following training course and passed the continuous assessment and the written examination necessary for successful completion.

OHSMS ISO 45001 (COMBINED) AUDITOR MIGRATION TRAINING

on 15-October-2018 to 15-October-2018

Course number: 1902

Lead Trainer: Shashank Gokhale

Place and date:

Pune, 19-October -2018



Signed on behalf of DNV GL Business
Assurance India Pvt. Ltd.
CQI & IRCA Certified Approved
Training Partner ID: 1196512

Manish Thakurdas
Operations Manager - Pune

BUREAU VERITAS
Certification



Certificate of Successful Completion

This is to certify that

Ramagouda Patil

has successfully completed the course assessment and examination for the

***IRCA Certified ISO 9001:2015 Auditor Transition
Training Course***

Course No. A17897 certified by the International Register of Certificated Auditors (IRCA).
This course satisfies the training requirements for the IRCA QMS Auditor
Certification Scheme.

Held on: *January 18 – 19, 2016*

at: *Mumbai, India*

Signed: 
**General Manager - Training Services, SAR,
Global Accreditation, Training**

Date: *March 09 2016*

Certificate Serial No: *TCQS/16/IN/710*

Course No: *A17897*



The Certificate is valid for 3 years for the purpose of Auditor Certification by IRCA subject to meeting pre-requisites



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CERTIFICATE OF TRAINING

Certificate number: 25329

This is to certify that:

Ramagouda B. Patil

Has successfully passed the training course for:

**FOOD SAFETY MANAGEMENT SYSTEM
AUDITOR/LEAD AUDITOR PROGRAM**

As per ISO 22000:2005

from:

19th – 23rd September 2011 at Mumbai

Course Number: A17376 Certified by IRCA

On behalf of:
DNV BUSINESS ASSURANCE GROUP AS,
REGION INDIA & SRI LANKA

Chinmayee...

*Chinmayee Deulgaonkar
Lead Trainer*



Signed on behalf of DNV
IRCA Training Org. Ref: A09660

S. Pradeep

*S. Pradeep
Zonal Chair – West Zone*

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