



GOVERNMENT MOHINDRA COLLEGE PATIALA

(Affiliated to Punjabi University, Patiala)

NAAC ACCREDITED GRADE A+ CYCLE-I

NAAC REACCREDITED GRADE A (CGPA 3.86) CYCLE-II

AISHE CODE: C-22146

INTERNAL QUALITY ASSURANCE CELL (IQAC)

AMARJIT SINGH (PES-I)
Principal

LOVELEEN PARMAR
IQAC Coordinator

MOHAMMAD SOHAIL
IQAC Co-Coordinator

Contact:

Telephone: 0175-2321695

Website: <https://govtmohindracollege.in/>

email: gcmohindrapatiala@gmail.com



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GOVERNMENT MOHINDRA COLLEGE, PATIALA

Supporting Documents/Additional Information

**Title- Policy Document on the Green and Plastic-Free
Campus**

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Green and Plastic Free Campus Policy

Government Mohindra College, Patiala



The idea of a green campus exhibits the firm resolve of the institution towards environmental concerns and making the campus a place free from any kind of environmental pollution. Making environmental concerns a part of its curriculum, and organizing curricular and extra-curricular activities to sensitize students and society at large, about its role in protecting the environment from any form of pollution is integral to the idea of a green campus. It would not be incorrect to state that a green campus as an idea shows us the path of how an institution can play its role in protecting the environment.

Government Mohindra College, Patiala, an age-old institution continues to strive hard to perform excellently on environmental parameters. The college keeps working with a missionary zeal and dedication towards creating a green, pollution-free and healthy environment for its stakeholders. In this regard, the college has adopted its Clean and Green Campus Policy.

About Clean and Green Campus Policy

The Green Campus Policy of the institution showcases the firm commitment and objectives of the college to respond to environmental concerns and adopt sustainable practices in its day-to-day functioning. To inculcate and nurture awareness amongst students- the future citizens

Mission

To utilize and nurture the natural resources in a way that brings sustainability at the core of it and to influence individual choices in adopting a sustainable lifestyle.

Objectives

The major objectives of the policy are to:

- Make environmental concerns an integral part of the curriculum;
- Preserve, protect and strengthen the diverse flora and fauna of the college;
- Adopt renewable sources of energy in the overall consumption pattern and bring efficiency to energy consumption;
- Develop spaces inside the college that may contribute positively to the overall health of the environment;
- Encourage sustainable practices in green waste management;
- Collaborate with various agencies in furthering the cause of environmental health;

- Organize awareness programmes inside and outside of the community such as seminars, conferences and workshops; extension and guest lecturers; tree plantation drives; rallies; cleanliness drives; poster making, essay writing, photography and slogan writing competitions for students; educational tours etc. to sensitize stakeholders about the concerns pertaining to environmental health;
- Celebrate national and international days such as Earth Day, Environment Day, Swachhta Diwas etc. focusing on environmental health;
- Make college plastic-free by banning the use of single-use plastic inside the campus;
- Facilitate undertaking of various audits such as green and environment audits and energy audits by externally recognized/competent agencies in order to assess the performance of the college in terms of various environmental indicators.

Focus Areas of Policy on the Green and Plastic-Free Campus

Taking into consideration the mission and objective of the policy, the following focus areas have been identified. Activities are organized and necessary infrastructure is created along the lines of these focus areas. The focus areas are:

1. Environment health in curriculum;
2. Maintaining record of flora and fauna of the college;
3. Renewable Energy Sources
4. Spaces Contributing to Environmental Health;
5. Sustainable Green Waste Management;
6. Developing Collaboration with Agencies Working in the Field
7. Awareness Activities/Programmes for Students and Community;
8. Celebration of National and International Days;
9. 'Single Plastic Use' Free Campus;
10. Energy Audit; and
11. Green and Environment Audit

Activities Covering the Focus Areas enlisted in the Policy are as under:

1. Environment Health in Curriculum

List of Courses relevant to Environment Sustainability

Session: 2018-19, 2019-20, 2020-21, 2021-22, and 2022-23

Sr. No.	Program	Subject
1.	B.sc Medical sem-6	Plant Ecology
2.	B.sc medical sem-2	Ecology
3.	B.sc hons Biotechnology sem-3	Environmental Biotechnology
4.	Bachelor of laws sem-5	Environmental law
5.	Msc Geography sem-1	Man and Environmental
6.	Msc Geography sem-2	Human Impact on Environmental: issues and Perspectives
7.	MA Psychology sem-2	Environmental Psychology
9.	MA Sociology sem-3	Environmental Sociology
10.	Environment studies and Road safety	Compulsory for all programmes

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**B. Sc. Part-III, Botany Syllabus for Semester-V and VI
(2016-17, 2017-18 and 2018-19)
Semester-V**

	External Marks	Sessional work (Internal Assessment)
Semester V:		
Theory Paper - IX: Plant Physiology	30	8 (Attendance: 2+ Assignment: 2+ House Test: 2)
Theory Paper - X: Plant Growth, Development and Biotechnology	30	8 (Attendance: 2+ Assignment: 2+ House Test: 2)
Practical Pertaining to theory paper IX & X	24	Nil
Total	84	16
Grand Total		100
Semester VI:		
Theory Paper - XI: Plant Ecology	30	8 (Attendance: 2+ Assignment: 2+ House Test: 2)
Theory Paper - XII: Plant Utilization	30	8 (Attendance: 2+ Assignment: 2+ House Test: 2)
Practical Pertaining to theory paper XI & XII	24	Nil
Total	84	16
Grand Total		100

Note:

1. The number of teaching hours per week for each theory paper: 03 Hours
2. The number of teaching hours for each practical: 06 Hours
3. In the final examination there will be one practical paper of 3 hours in each semester.


 Director
 M. S. University
 Mysore

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SEMESTER-VI PAPER - XI PLANT ECOLOGYDate: Month / 20
Page No: / 2024Examination to be followed: 25
(Each of 45 minutes duration)
Time Allowed: 2 Hours**INSTRUCTIONS FOR PAPER SETTER**

The question paper will consist of three sections A, B and C. Section A and B will have five questions each from the respective sections of the syllabus and will carry 5 marks each. Section C will consist of 5 short-answer type questions which will cover the entire syllabus uniformly and will carry 10 marks in all.

INSTRUCTIONS FOR CANDIDATES

Candidates are required to attempt four questions selecting two questions from each section A and B. The entire section C is compulsory.

Section A

1. Concept of ecology and its scope. Environmental factors: climatic, abiotic, biogeochemical and biotic. Shortlands law of succession.
2. Population ecology: Characteristics, positive and negative interaction, growth limits, carrying capacity, curves and models.
3. Community ecology: Community characteristics, dispersion, density and abundance, career life forms, ecology of succession (Pioneer, Nourture, Climax), principle of competitive exclusion.
4. Structure and concept of ecosystem, ecological products, food chain, food web, ecological energetics, ecological productivity.

Section B

5. Environmental issues: Role of air, water, noise and soil pollution; Global warming and ozone depletion; International efforts for mitigation of global climate change.
6. Biodiversity: Types and conservation, concept of hot spots, biomes, phytogeographic regions of India, vegetation types (Forest, Grasslands, Wetlands).
7. Ecological adaptations in xerophytes, heliophytes and halophytes.
8. Biogeochemical cycles with particular reference to C, N and P.

RECOMMENDED READINGS

1. Begon, M., Townsend, C.F. & Harper, J.L. 1996. *Ecology: From individuals to ecosystems* (4th Edition) Blackwell Publishers, America.
2. Connors, J., Schaffer, S.M. and Fox, G.A. 2006. *The Ecology of Plants* (2nd Edition) Sinauer Associates Inc, Pub. USA.
3. Kenneddy, E.J. 1996. *Concepts of Ecology* (Pearson-Hall of India Pvt. Ltd., New Delhi).
4. Madgwick, A. et al. 1999. *Human Impact on Ecology*, Vista Books Pvt. Ltd., New Delhi.
5. Odum, H.T., Schell, R.M. & Youngak, J. 2007. *Environmental Science: Systems and Solutions* (4th Edition) John and Wiley, Pub., USA.
6. Odum, E.P. 1983. *Flow Ecology*, Sinauer, Philadelphia.
7. Ojima, K., Sugi, H., Yamashita, S. and Kozaki, N. 2007. *Air pollution and Plant Biotechnology: Progress in Phytoremediation and Phytoremediation*, Springer-Verlag, Tokyo, Japan.

Principal
Jawahar College
Maddur

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SUGGESTED LABORATORY EXERCISES PERTAINING TO THEORY PAPERS, PLANT ECOLOGY AND PLANT UTILIZATION.

Teachers may select those materials available to their local institutions.

1. To determine minimum number of quadrats required for study of a grassland.
2. To study the frequency of herbaceous species in grassland and to construct the frequency distribution with Raunkiaer's General Frequency Diagram.
3. To compare frequency value index (FVI) for grassland species on the basis of relative frequency, relative density and relative biomass in perennial and annual grassland.
4. To measure the vegetation cover of a grassland through profile diagram.
5. To measure the above ground plant biomass in a grassland.
6. To determine Kery's constant for herb and grasses species and to estimate the leaf area index of a grassland community.
7. To compare diversity indices (Shannon, Simpson, Gini, Pielou, Whittaker) in grass and perennial grassland.
8. To measure bulk density and porosity of perennial and mixed soil.
9. To determine nutrient content and water holding capacity of grassland and woodland soil.
10. To study the vegetation structure through profile diagram.
11. To measure transpiration, pH and temperature of different water bodies.
12. To determine dissolved oxygen content in polluted and unpolluted water samples.
13. To estimate salinity of different water samples.
14. To determine the soil water holding index of different soil samples collected around polluted sites.
15. To determine water holding capacity of the leaves of different plant species.
16. Leaf films: study of the morphology, structure and water content chemical tests of the leaf, and the nature of the wax, when water, protein and sugar are. Microscopic examination of wax in these plants (scrapping organisms).
17. Films: Study of protein films, examination of the surface of the developing seeds to view the origin and development of protein films. Microscopic study of cotton and wool for cellulose. Isolating and staining of pure wool showing the location and development of fibres. Microscopic structure. Chemical tests for cellulose.
18. Vegetative life: study of leaf structure of grassland, woodland and coastal soil sampling of soil structure with Sphagnum II and Sphagnum III.
19. Field Work: To study sources of biomass (20 plants, water-pollinated tree (10 trees) and bushes). A list to be prepared mentioning special features.
20. Spores: Examine Black pepper, olive, Gramineae (leaf sections) and other kinds of spores and identify from field.
21. Preparation of an illustrative account of 10 medicinal plants and one herb of indigenous systems of medicine of aliphatic. Write their botanical and common names, parts used and diseases disorders for which they are prescribed.
22. Beverages: Section of herbal coffee beans and tea leaves to study the characteristic structural features.

SUGGESTED READINGS FOR LABORATORY EXERCISES IN PLANT ECOLOGY AND PLANT UTILIZATION

1. APHA. Standard Methods for the Examination of Water and Wastewater. American Public Health Association, Washington, D.C.
2. Kishi, C. I. 1995. Ecological Microbiology. Springer and Har, New York, USA.

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Parul University, Patna, Bihar, India. Year I (Semester I & II) Subject - Zoology
 Period: 2017-18, 2018-19 and 2019-20

SYLLABUS

B.Sc. Part-I (Semester-I and II) Subject: Zoology
 (Courses 2017-18, 2018-19 and 2019-20)

Semester-I

THEORY

	External Marks	Internal Assessment
Paper-I: Cell Biology	40	15 (Attendance: 2 + Assignments: 4 + Model Test: 9)
Paper-II: Biodiversity - I	40	15 (Attendance: 2 + Assignments: 2 + Model Test: 1)

PRACTICAL

Pertaining to Theory Paper-I and Theory Paper-II	40	
Total Marks (Semester-I)		
Theory		80 Marks
Practical		40 Marks
Internal Assessment pertaining to Theory Paper I & II		30 Marks
Total		150 Marks

Semester-II

THEORY

	External Marks	Internal Assessment
Paper-I: Biodiversity - II	40	12 (Attendance: 2 + Assignments: 4 + Model Test: 6)
Paper-II: Ecology	40	15 (Attendance: 2 + Assignments: 4 + Model Test: 9)

PRACTICAL

Pertaining to Theory Paper-I and Theory Paper-II	40	
Total Marks (Semester-II)		
Theory		80 Marks
Practical		40 Marks
Internal Assessment pertaining to Theory Paper I & II		30 Marks
Total		150 Marks

Note:

- The number of teaching hours per week will be fixed for each theory paper and there will be one practical in every semester. In all, there will be 12 teaching hours per week covering both theory and practical requirements. (The teaching hours for theory and for teaching hours for practical per week)
- There will be one practical paper of 3 hours pertaining to the theory papers I & II in each semester. The timing of practical examination will be 8:30 am to 12:30 noon.

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Central Board of Secondary Education, New Delhi, India
 Ministry of National Education, Government of India

PAPER-II: ECOLOGY

Max. Marks: 55
 Pass marks: 33%
 Theory: 40
 Internal Assessment: 15

Time Allowed: 3 hours
 Lectures to be delivered: 45
 (Each of 45 minutes duration)

INSTRUCTIONS FOR PAPER SETTER

The question paper will consist of three sections A, B and C. Section A and B will have four questions from the respective sections of the syllabus and will carry 8 marks each. Section C will consist of 8 short-answer type questions (8 x 10/15) which will cover the entire syllabus uniformly and will carry 16 marks in all.

INSTRUCTIONS FOR CANDIDATES

Candidates are required to attempt two questions from each section A and B and the entire section C, which is compulsory.

SECTION-A

II. Ecology

- | | |
|---------------------------|---------------------------------------------------------------------------------------------|
| 1. Ecology | Subdiscipline and scope of ecology. |
| 2. Ecosystem | Components, ecological energetics, food web, introduction to major ecosystems of the world. |
| 3. Ecological factors | Temperature, light and soil as ecological factors. |
| 4. Nutrients | Biogeochemical cycles and concept of limiting factors. |
| 5. Ecological adaptations | Morphological, physiological and behavioural adaptations in animals in different habitats. |

SECTION-B

III. Environmental Studies

- | | |
|-------------------------------|----------------------------------------------------------------------------------|
| I. Environmental education | Importance of Biodiversity. |
| II. Population | Characteristics and regulation of population. |
| III. Intra and inter specific | Cooperation, predation, parasitism, relationship commensalism & mutualism. |
| IV. Natural resources | Renewable and non-renewable natural resources and their conservation. |
| V. Environmental degradation | Causes, impact and control of air, soil, water and noise pollution (in general). |

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PAPER II ENVIRONMENTAL BIOTECHNOLOGY

Max. Marks: 50
Pass Marks: 33%

Lectures to be delivered: 55
(Each of 45 minutes duration)
Time Allowed: 3 Hours

INSTRUCTIONS FOR INTERNAL ASSESSMENT

The internal assessment (18 marks) would comprise of 4.0 marks for attendance of candidates, 7.0 marks for assignment and 7.0 marks for internal test. Two tests would be conducted by the concerned teacher during the semester and the average of the two would be considered for internal assessment.

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections A, B and C. Section A and B will have four questions from the respective section of syllabus and will carry 8 marks each. Section C will consist of 10 short-answer type questions which will cover the entire syllabus uniformly and will carry 20 marks in all.

INSTRUCTIONS FOR CANDIDATES

Candidates are required to attempt two questions from each section A and B and the entire section C.

SECTION - A

1. Introduction: Brief introduction to environment, Indicators of pollution: Physicochemical and Biological
2. Air pollution: Units of measurements, sources of pollutants and hazards.
3. Soil pollution: sources of pollutants and hazards.
4. Water pollution: sources of pollutants and hazards.
5. Waste-water treatment: a) Aerobic: Brief account of activated sludge reactor, aeration ponds and lagoons, trickling filter.
b) Anaerobic waste-water treatment: Outline of biogas production, up-flow anaerobic sludge blanket reactor, anaerobic filter reactor, contact reactor, factors affecting process operation, status of biogas production in India.

SECTION - B

6. Vermicomposting: Vermicomposting process, types of vermicomposting systems, vermicomposting product, waste management by vermicomposting, effect of various vermicompost on the growth and yield of plants.
7. Bioremediation: General description of bioremediation and application of biotechnology: Remediation of heavy metals, pesticides and xenobiotics, paper, dye and textile industry effluents.
8. Pollutant monitoring I: Diseases, Introduction Principle and Applications for the detection of heavy metal ions, pesticides and pathogens.
9. Pollutant monitoring II: Principle, working and applications of GC and HPLC.
10. Pollutant monitoring III: Spectroscopic techniques for monitoring pollutants.

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Recommended Reading:

1. *Industrial Water Pollution* (1988) by W. Wintley Ellwood, Jr. McGraw Hill International, India.
2. *Biochemistry-Application to Environmental Protection* (1993) by M.M. Pandey, Harshana Publishing House, India.
3. *Commercial Biochemistry-Its International Aspects* (1984) by United States Office of Technology Assessment, DIANE Publishers, USA.
4. *Advances in Industrial Waste Water Treatment* (1999) by P.K. Goyal, Technoscience Publications, India.
5. *Environmental Engineering* (1988) by H.S. Peavy and D.R. Rowe, McGraw Hill International, India.
6. *Recent books need to be added*

PRACTICALS

Max Marks: 50

Pass Marks: 33%

List of Practicals

1. Determination of TS, TDS and TSS in an industrial effluent.
2. Determination of BOD of an industrial effluent.
3. Determination of (XX) of an industrial effluent.
4. Estimation of Cr(VI) content in electroplating industrial effluent by spectrophotometric method.
5. Estimation of Ni(II) content in electroplating industrial effluent by spectrophotometric method.
6. Demonstration of Biogas production.
7. Bioresmediation of heavy metal ions/pesticides/pesticide effluent.
8. Demonstration of vermicomposting.

Practical Performance	: 22 Marks
Viva-Voce	: 7 Marks
Practical Record	: 7 Marks



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M.A. (SOCIOLOGY) PART-I
For Regular/Distance Education Students
(FOURTH SEMESTER)

Session : **2018-2019 & 2019-2020**

Note: Regular/Distance Education Student each paper is of 70 marks and 30 marks of Internal Assessment.

The Break-up of 30 Marks for Internal Assessment (Theory Papers) is as below:

- | | |
|----------------------------------------------------------|----------|
| 1. Test | |
| 12 Marks | |
| 2. Class Attendance | 06 Marks |
| 3. Field Work / Project Work/Assignment/
Seminar etc. | 12 Marks |

TOTAL MARKS	30 Marks
--------------------	-----------------

SEMESTER-IV
PAPER-I

SOCIOLOGICAL AND ANTHROPOLOGICAL
THEORIES-IV

Regular/Distance Education M. Marks: 100
3hrs

Time Allowed:

Pass Marks: 25
Theory 70-Internal 30

INSTRUCTIONS FOR THE PAPER-SETTER

The question paper will consist of three sections A, B and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 100 marks each. Section C will each consist of 14 short-answer type questions, which will cover the entire syllabus uniformly and will carry 28 marks in all. Each short-answer type question will carry two marks. Thirty (30) marks will comprise of internal assessment.

(Signature)

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Sem-II

P. U. B. ENVIRONMENTAL PSYCHOLOGY

Course Code: _____ **Final Teaching Period:** 30

Maximum Marks: 75 **Time Allowed:** 3 Hours

LEVEL: _____

INSTRUCTIONS FOR THE PAPER-SETTER FOR ALL PAPERS:

The question paper will consist of three sections A, B and C. Syllabus of each section (i.e. each) will mark two subjects. The paper will set two questions from Section A (each question having internal choice covering both parts of syllabus of section A) and two questions from section B (each question having internal choice covering both parts of syllabus of section B). Each question will carry 15 marks. Section C is compulsory, and shall comprise nine short answer type questions carrying 2 marks each. The short type answer should be written in approximately 30 words (i.e. 7-8 lines).

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt one question from each subject of both the sections A & B of the question paper and the entire section C. The short type answer should be written in approximately 30 words (i.e. 7-8 lines).

SECTION - A

(i) Environmental Psychology: Nature and Scope, Psychological benefits of nature Environment and Human Perception (Brockwell, Gilroy, Barker, Environmental)

(ii) Personal Space and Territoriality: Nature and Theories
Crowding and Over-Population

SECTION - B

(i) Environmental Problems with reference to India: Pollution: Noise, Air and Water (Psychological Causes and Management)

(ii) Psychology and Climate Change: Natural and Technological Disasters.
Role of Psychology in environment management and promotion of eco-friendly behaviour

REFERENCES

Prof. Dr. Mohindra College
MATA

1. Baum, A., & Singer, J.E. (1980). *Advances in Environmental Psychology: Application of Personal Control* (Vol. II). Hillsdale, NJ: Lawrence Erlbaum Associates.
2. Beatty, R.B. (1991). *Environment and Behaviour: An Introduction*. Thousand Oaks, CA: Sage Publications.
3. Beaman, M., & Sussangkarn, C. (1995). *Environmental Psychology: A Psycho-Social Introduction*. London, UK: Sage Publications.
4. Chertman, A., & Scitlief, R.B. (2002). *Handbook of Environmental Psychology*. New York, NY: John Wiley and Sons.
5. Gilroy, B. (1987). *Environmental Psychology: Principles and Practices*. Boston, MA: Allyn & Bacon.
6. Hogg, R.H. (1981). *The Human Context: Environmental Determinants of Behaviour*. New York, NY: Wiley.
7. Sakata, E., & Altman, I. (1987). *Handbook of Environmental Psychology* (Vol. 1,2). New York, NY: Wiley.
8. Cole, E.H., & Morris, J.T. (Eds.) (1991). *Advances in Environment, Behaviour and Design* (Vol. 1). New York, NY: Praeger Press.

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Sanku Kumar
Sanku Kumar

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SYLLABUS
M.A. (PSYCHOLOGY) PART-I
(SEMESTER I & II)
FOR 2017-2018 AND 2018-19 EXAMINATION

SEMESTER - I

		External Assessment	Internal Assessment	Total
Psy. I.1	Systems and Theories of Psychology	75	25	100
Code				
Psy. I.2	Experimental Psychology	50	25	100
Code				
Psy. I.3	Physiological Psychology	75	25	100
Code				
Psy. I.4	Statistics in Psychology	75	25	100
Code				
Psy. I.5	Practical (Lab Experiments, Computers)	60-15	25	100
Code				

Internal Assessment of 25 marks in each Theory Paper.

Break up of marks for Theory Papers is as follows

2 Tests	10 Marks
Attendance	5 Marks
Assignments/Project/Seminar	10 Marks

SEMESTER - II

		External Assessment	Internal Assessment	Total
Psy. II.1	Cognitive Processes	75	25	100
Code				
Psy. II.2	Social Psychology	75	25	100
Code				
Psy. II.3	Developmental Psychology	75	25	100
Code				
Psy. II.4	Experimental Designs in Psychology	75	25	100
Code				
Psy. II.5	Practical (Field Studies, Cognitive Testing, Computers)	30/15/10	25	100
Code				

Internal assessment of 25 marks in each paper.

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Break up of marks for Theory Papers is as follows

2 Tests (Assignments)	10 Marks
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- (v). Environmental controversies 8 Periods
- Tej Trough controversy
 - Ganga Action Plan controversy
 - Chhika Lake controversy
- Global Environmental Problems & Strategies
- (vi). Problems 8 Periods
- Global warming
 - Urban Heat Island
 - Acid Rain
 - Ozone Depletion
- (vii). Environmental Strategies 8 Periods
- Stockholm Conference, 1972
 - Vienna Conference, 1985
 - Montreal Protocol, 1987
 - Rio Summit, 1992
 - Kyoto Protocol, 1997
 - World Summit on Sustainable Development, Johannesburg, 2002
 - Paris Summit, 2015

BOOKS RECOMMENDED

- Agarwal, A. et. al (2001): *Asles Apart*, Centre for Science and Environment, New Delhi.
- Cunningham, W.P. and Gago, B.W. (1995): *Environmental Science*, Wm Brown Publisher, Dubuque.
- De A.K. (2003): *Environmental Chemistry*, New Age International Publishers, New Delhi.
- Gouldin, A. (1993): *The Human Impact*, Oxford Basil Blackwell.
- Joseph, B. (2006): *Environmental Studies*, Tata McGraw Hill Publishing Company, New Delhi.
- Mishra, A. (2004): *Environmental Studies*, Selective and Scientific Books, New Delhi.
- Park, C. (1997): *Environment*, Routledge, London.
- Raven, R.H. et. al (1993): *Environment*, Harcourt Brace College Publishers, Florida.
- SV, S.B. and Seth, B.L. (2010): *Sewage Canal: How to clean the Yamuna*, Centre for Science and Environment, New Delhi.
- The World Bank (2010): *World Development Report 2010: Development and Climate Change*, The World Bank, Washington.

Principals
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Semi-IT
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Paper - E: HUMAN IMPACT ON ENVIRONMENT: ISSUES & PERSPECTIVES
 Max. Marks: 100 Time Allowed: 3 Hours

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Internal Assessment: 30 Marks Total Teaching
 Periods: 66
 Written Paper: 70 Marks
 Pass Marks: 33%

INSTRUCTIONS FOR THE PAPER-SETTER

- (i) The question paper will consist of three sections: A, B & C. Sections A and B will have four questions each from the respective section of the Syllabus and each question will carry 30 marks. Section C will consist of 10 short-answer type questions of 3 marks each covering the entire Syllabus uniformly and will carry 30 marks in all.
- (ii) If any table is necessary for attempting any question of the question paper, it is to be specifically mentioned.

INSTRUCTIONS FOR THE CANDIDATES

- (i) Candidates are required to attempt two questions each from the sections A and B of the question paper and the entire section C.
- (ii) Candidates are allowed to use outline/blank maps of the world/continents/countries. They are also allowed to use simple calculators.

SECTION-A

Population and Environment

- (i) Theories of Man/Habitat Interaction 8 Periods
- (ii) Population Dynamics and Regulations, Population Characteristics, Population Growth Curves: S-shaped and J-shaped, Density Dependent and Density Independent Factors 9 Periods

Man's Impact on Water & Atmosphere


- (i) Water 8 Periods
 - a. Deliberate modifications of rivers.
 - b. Dams and Environment.
 - c. Effects of Deforestation.
 - d. Water Pollution.
- (ii) Atmosphere 8 Periods
 - a. Sources of Air Pollution.
 - b. Effects of Air Pollution on Human Health, Vegetation & Material.
 - c. Indoor Air Pollution.
 - d. Measures & Controls of Air Pollution.

SECTION-B

Issues & controversies

- (i) Social Issues 8 Periods
 Sustainable Development: Concepts of Sustainable Development, International Cooperation to accelerate Sustainable Development, Strategies to achieve Sustainable Development.

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SYLLABUS
M. Sc. (GEOGRAPHY) PART -I, SEMESTER-I
SESSION 2018-19 and 2019-20

Title of Paper	Credits	No. of Lectures	Max. Marks	Time Allowed
CORE PAPERS				
Paper I Fundamentals of	5	65	100	3 hrs.
Geomorphology	5	65	100	3 hrs.
Paper II. Man and Environment	5	65	100	3 hrs.
Paper III. Resource Geography of India	5	90	100	6 hrs.
Paper V. Map Work and Practical Geography (Cartography)				
ELECTIVE PAPERS				
Paper IV:				
Option (i) Geography of Settlements with Special Reference to India	5	65	100	3 hrs.
Option (ii) Economic Geography	5	65	100	3 hrs.

SYLLABUS
M. Sc. (GEOGRAPHY) PART -I, SEMESTER-II
SESSION 2018-19 and 2019-20

Title of Paper	Credits	No. of Lectures	Max. Marks	Time Allowed
CORE PAPERS				
Paper I. Remote Sensing and Geographic Information System	5	65	100	3 hrs.
Paper II. Human Impact on Environment: Issues & Perspectives	5	65	100	3 hrs.
Paper III. Geography of Regional Planning	5	90	100	6 hrs.
Paper V. Map Work & Practical Geography (Morphometric Analysis & Air Photo Interpretation).	36			
ELECTIVE PAPERS				


 Pooja Mohindra College
 PATIALA
 Haryana

Page No. 35

PAPER - II : MAN AND ENVIRONMENT

Max. Marks: 100
 Internal Assessment: 30 Marks
 Periods: 65
 Written Paper: 70 Marks
 Pass Marks: 35%

Time Allowed: 3 Hours
 Total Teaching

INSTRUCTIONS FOR THE PAPER-SETTER

- (i) The question paper will consist of three sections: A, B & C. Sections A and B will have four questions each from the respective section of the Syllabus and each question will carry 10 marks. Section C will consist of 10 short-answer type questions of 3 marks each covering the entire Syllabus uniformly and will carry 30 marks in all.
- (ii) If any table is necessary for attempting any question of the question paper, it is to be specifically mentioned.

INSTRUCTIONS FOR THE CANDIDATES

- (i) Candidates are required to attempt two questions each from the sections A and B of the question paper and the entire section C.
- (ii) Candidates are allowed to use outline stencil maps of the world continents/countries. They are also allowed to use simple calculators.

SECTION-A**Man and his environment**

- (i) Environment: Meaning of Environment, Approaches to the study of environment, Historical perspective on man & environment relationship. 6 Periods
- (ii) Ecology & Ecosystem: Meaning and concept of ecology, sub-divisions. 5 Periods
- (iii) Ecosystem: Meaning, types of ecosystems, structure and functions of ecosystems. 6 Periods

Energy, Material and Biogeochemical Cycles

- (iv) Energy & Material Cycling in Ecosystem: Food chains and food web, Energyflow in ecosystem by grazing and

Page No-34

SYLLABUS
M. Sc. (GEOGRAPHY) PART -I, SEMESTER-I
SESSION 2018-19 and 2019-20

Title of Paper	Credits	No. of Lectures	Max. Marks	Time Allowed
CORE PAPERS				
Paper I. Fundamentals of Geomorphology	5	65	100	3 hrs.
Paper II. Man and Environment	5	65	100	3 hrs.
Paper III. Resource Geography of India	5	90	100	6 hrs.
Paper V. Map Work and Practical Geography (Cartography)				
ELECTIVE PAPERS				
Paper IV:				
Option (i) Geography of Settlements with Special Reference to India	5	65	100	3 hrs.
Option (ii) Economic Geography	5	65	100	3 hrs.

SYLLABUS
M. Sc. (GEOGRAPHY) PART -I, SEMESTER-II
SESSION 2018-19 and 2019-20

Title of Paper	Credits	No. of Lectures	Max. Marks	Time Allowed
CORE PAPERS				
Paper I. Remote Sensing and Geographic Information System	5	65	100	3 hrs.
Paper II. Human Impact on Environment: Issues & Perspectives	5	65	100	3 hrs.
Paper III. Geography of Regional Planning	5	90	100	6 hrs.
Paper V. Map Work & Practical Geography (Morphometric Analysis & Air Photo Interpretation).				
ELECTIVE PAPERS				

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Principal
 Prof. Mohindra Chandra
 RATVA
 K. N.

Page-8-Environmental Law

UNIT 1

- Meaning, Definition & Kinds of Pollution, Pollution by Fireworks.
- Ecology System.
- Factors Affecting the Environment in India.
- General Legal Provisions relating to Control of Pollution.
- Constitution of India Articles 48A, 52A(g).
- Code of Civil Procedure Code Section 91.
- Code of Criminal Procedure Code Section 133.
- Indian Penal Code Sec. 268, 270, 278, 290.
- Law of Torts and Judicial Remedies.
- Environment Protection Act, 1986.
- Salient Features of National Green Tribunal Act, 2010.
- Salient Features of Sustainable Development.
- Role of Judiciary in India for the protection of Environment.
- Principles of Stockholm Declaration on the Human Environment 1972.
- Principles under the Rio Declaration on Environment & Development 1992.

UNIT 2

- The Water (Prevention and Control of Pollution) Act, 1974.
- The Air (Prevention and Control of Pollution) Act, 1981.
- The Punjab Javelin Smoking Act, 1958.
- The Cigarettes (Regulation of Production, Supply and Distribution) Act, 1975.

Noise Pollution and Law.

- Meaning, Concept and Effects of Noise Pollution.
- Legislated measures to Control Noise Pollution.
- Noise Pollution and Constitutional Provisions.

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Principal
Om Mahindra College
PATIALA

5

Wild Life Protection Act, 1972

- Constitution of National Board and Functions of National Board
- Constitution of State Board and Officers of State Board
- Prevention and Detection of Offences
- Penalties

SYLLABUS
BACHELOR OF LAWS PART-III
(5YEAR COURSE) (FIFTH AND SIXTH SEMESTERS)
FOR 2016-17, 2017-18 AND 2018-19 SESSIONS
SCHEME OF STUDIES

FIFTH SEMESTER

Paper	Subject	Univ. Exam.	Internal* Assessment	Max. Marks
I	Legal History	74	26	100
II	Environment Law	74	26	100
III	Law of Property	74	26	100
IV	Labour and Industrial Law-I	74	26	100
V	Administrative Law	74	26	100
	Total	370	130	500

SIXTH SEMESTER

Paper	Subject	Univ. Exam.	Internal* Assessment	Max. Marks
I	Jurisprudence	74	26	100
II	Law of Taxation	74	26	100
III	Company Law	74	26	100
IV	Labour and Industrial Law-II	74	26	100
V	Option Any one of the following: (a) International Organisations (b) Gender Justice (c) Media and Law	74	26	100
	Total	370	130	500

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Environmental activism:

Legislation

NGOs: types and functions

Media: types and functions

Environmental Movements:

Development, Nature and types

The Chipko movement: a detailed study of its significance

RECOMMENDED READINGS

1. Agarwal, A. and Narain
1985 : *State of India's Environment: The Second Citizen's Report 1984-85*, New Delhi: Centre for Science and Environment.
2. Alvarez, C. 1992 : *Science, Development and Violence*, Delhi: Oxford University Press.
3. Dreyer, Oleg 1989 : *Ecological Problems of Developing Countries*, Delhi: Ajanta.
4. Gadgil, M. and Guha, R. 1995 : *Ecology and Equity: The Use and Abuse of Nature in Contemporary India*, Delhi: Viking Penguin.
5. Guha, R. 1988 : *Ideological Trends in Indian Environmentalism*, *Economic and Political Weekly*, Vol. 13, pp. 2578-81.
6. Hanningan, J. A. 1995 : *Environmental Sociology*, London: Routledge.
7. Harvey, B. and Hallitt, J. D. 1977 : *Environment and Society: An Introductory Analysis*, London: Macmillan.
8. Iyer, K. G. (ed) 1977 : *Sustainable Development: Ecological and Socio-cultural Dimensions*, New Delhi: Vikas.
9. King, Leslie and Deborah McCarthy 2008 : *Environmental Sociology - From analysis to action*, Routledge & Littlefield Publishers, INC.
10. Mehta, M. D. and E. Quèrri (eds) 1995 : *Environmental Sociology: Theory and Practice*, North York: Capra Press.
11. Rangarajan, M. 1986 : *The Politics of Ecology*, *Economic and Political Weekly*, Vol. 31, pp. 2378-81.
12. Redclift, M. R. and 1984 : *Social Theory and Global*

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The question paper will consist of three sections A, B and C. Sections A and B will have four questions from the respective sections of the syllabus and will carry 10½ marks each. Section C will each consist of 14 short-answer type questions, which will cover the entire syllabus uniformly and will carry 28 marks in all. Each short-answer type question will carry two marks. Thirty (30) marks will comprise of internal assessment.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt two questions each from sections A and B.

All questions in Section C are compulsory.

Section-A

Environmental sociology

Nature: main features
Scope: the main topics and areas of ES
Emergence: phases of development

Basic concepts:

Environment: a discussion of various concepts and functions of environment Ecology and eco-system: History of concept, reasons for popularity.

Theoretical perspectives:

Human Exemptionalist Paradigm (HEP): main features of HEP, Marxist and Durkheimian perspectives
New Ecological Paradigm (NEP)

New perspectives:

Radical ecology: Main features.
Deep ecology:
Eco-feminism: Main features.

-S-

Section -B

Ecological Crisis:

Nature: Extent and Types.

Major issue:

resource
controversies

Population: New Malthusian and ultimate
debate GMOs, benefits and

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Flagship University, Patna, All UG Courses - IIIrd Year 3rd Semester Environmental and Road Safety Awareness Session: 2023-23, 2023-24 & 2024-25

Flagship University, Patna, All UG Courses - IIIrd Year 3rd Semester Environmental and Road Safety Awareness Session: 2023-23, 2023-24 & 2024-25

All UG Courses - IIIrd Year 3rd Semester
Environmental and Road Safety Awareness
Session: 2023-23, 2023-24 & 2024-25

Total Marks: 100
Theory: 60 marks
Internal Assessment: 15
(5th Answer & 10 or 15th)
Mandatory field visit to PG
Science City & Report: 25 Marks

Max Time: 3 hrs.
Credits: per week 5
Credits: 04

INSTRUCTIONS FOR THE PAPER SETTERS (Regular Students)

The question paper will consist of three sections A, B and C. Each of sections A and B will have four questions from the respective sections of the syllabus. Each question shall carry 9 marks. Section C will consist of 11 short answer type questions of 9 marks each.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt any two questions from each section A and B. Section C is compulsory.

PRIVATE/DISTANCE EDUCATION STUDENTS

Max Marks: 100

Max Time: 3hrs.
Credits: per week 5

INSTRUCTIONS FOR THE PAPER SETTERS

The question paper will consist of three sections A, B and C. Each of sections A and B will have four questions from the respective sections of the syllabus. Each question shall carry 15 marks. Section C will consist of 20 short answer type questions of 2 marks each.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt any two questions from each section A and B. Section C is compulsory.

SECTION-A

INTRODUCTION TO ENVIRONMENTAL STUDIES

The interdisciplinary nature of environmental studies. Definition, scope and importance
Concept of Biosphere - Lithosphere, Hydrosphere, Atmosphere.

ECOSYSTEM & BIODIVERSITY CONSERVATION

Ecosystem and its components, Types of Ecosystems
Biodiversity - Definition and Value, Threats to biodiversity and its conservation
Level of biological diversity: genetic, species and ecosystem diversity; bio-geographic zones of India; biodiversity patterns and global biodiversity hot spots.
India as Mega-biodiversity nation; Endangered and endemic species of India.
Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and informational value

1

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Punjab University, Patna, ABUG Courses - 1st Year (5th Semester) Environmental and Road Safety Awareness Session: 2022-23, 2023-24 & 2024-25

NATURAL RESOURCES-RENEWABLE AND NON RENEWABLE RESOURCES

Land resources and land use change; land degradation, soil erosion and desertification; Deforestation: causes and impacts due to mining, dam building on environment, Forests, Biodiversity and tribal populations.

Water: Use and over-exploitation of surface and ground water, Floods, droughts, conflicts over water (international & inter-state)

Energy resources: renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

Environmental Pollution

Environmental Pollution: types, causes, effects and controls; Air, Water, Soil and noise pollution. Nuclear hazards and human health risks. Solid waste management, Source Segregation; Control measures of urban and industrial waste, Pollution case studies.

SECTION-B

ENVIRONMENTAL PROTECTION LAWS IN INDIA

Environmental protection act for: Air (Prevention and control of pollution), Water (Prevention and Control of pollution), Wild life, Forest Conservation, Issues involved in the enforcement of environmental legislation, Role of an individual in prevention of pollution.

Environmental policies & Practices; Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture.

Human Communities and the Environment

Human population growth: Impact on environment, human health and welfare; Sanitation & Hygiene, Resettlement and rehabilitation of project affected persons; case studies. Disaster management: floods, earthquake, cyclones and landslides. Environment movements: Chipko, Silent valley, Bishnois of Rajasthan, Environmental ethics: Role of Indian and other religions and cultures in environmental conservation for a Clean-green pollution free state.

Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi)

ROAD SAFETY AWARENESS

Concept and significance of Road safety, Traffic signs, Traffic rules, Traffic Offences and penalties, How to obtain license, Role of First aid in Road Safety.

Stubble Burning

Meaning of Stubble burning.

Impact on health & environment.

Management and alternative uses of crop stubble.

Environmental Legislations and Policies for Restriction of Agriculture Residue Burning in Punjab.

Field Work

Visit to an area to document environmental assets: river/Forest/Flora Fauna, etc.

Visit to Local polluted site -urban/Rural/Industrial/Agricultural.

Study of common Plants, Insects, Birds and basic principles of Identification.

Study of simple ecosystems-pond, river, Delhi Ridge, etc.

and [Signature]

2. Maintaining record of flora and fauna of the college;

**Govt Mohindra College, Patiala
Flora and Fauna Report
(2023-24)**



LJFLORA OF COLLEGE

Triangular Area (In front of Science Block)

Sr. No.	Botanical name of the Plant	Common name	No. of Plants
1	<i>Pithecolobium longipetalum</i>	False Ashoka	10
2	<i>Ravibrevia rugata</i>	Royal Palm	4
3	<i>Decasium grandis</i>	Teak	5
4	<i>Adelia azizkhanii</i>	Dek-Dharuk	3
5	<i>Abelmoschus eschscholzi</i>	Chambray	1
6	<i>Lagerströmia</i>	Iron-Pride of India	2

Parking Area

Sr. No.	Botanical name of the Plant	Common name	No. of Plants
1	<i>Delonix regia</i>	Indian tree	1
2	<i>Adelia azizkhanii</i>	Dek-Dharuk	6

In front of Sri Gaurabara Sahib (Square Area)

Sr. No.	Botanical name of the Plant	Common name	No. of Plants
1	<i>Rosa indica</i>	Rose / gulab	27
2	<i>Hibiscus rosa-sinensis</i>	China rose	3
3	<i>Ficus tree sp.</i>	Teak	1
4	<i>Ficus sp.</i>	Fig tree	2
5	<i>Antyopha divaricata</i>	Ramrajot tree plant	6
6	<i>Arachis indica</i>	Three seeded groundnut	1
7	<i>Citrus limon</i>	Lemon	1



Rain fly *Zephyranthes tuberosa growing wildly with flowers up.



Lawn Area (In front of Science Block)

Sr. No.	Botanical name of the Plant	Common name	No. of Plants
1	<i>Pithecolobium longipetalum</i>	False Ashoka	33
2	<i>Ficus longicallosa</i>	Fig	1
3	<i>Boyal jalis</i>	Palm tree	10
4	<i>Samanea saman</i>	Chandi	16
5	<i>Ficus sp.</i>	Morjankla	28
6	<i>Chadrasia tuberosa</i>	Redwood	11
7	<i>Gracillia robusta</i>	Silver oak	8
8	<i>Brodiaea sp.</i>	Kachnar	7
9	<i>Cassia fistula</i>	Amaltas	3
10	<i>Bougainvillea sp.</i>	Kikar	2
11	<i>Ardisia sp.</i>	Ramrajot	10
12	<i>Androsace indica</i>	Nann	13
13	<i>Senecio calandula</i>		3
14	<i>Delonix regia</i>	Orissalal	4
15	<i>Terminalia arjuna</i>	Aryu	3
16	<i>Terminalia chebula</i>	Harad	2
17	<i>Terminalia litoralis</i>	Tecoma	5
18	<i>Melia azizkhanii</i>	Dek	3
19	<i>Mimosa elatior</i>	Mimosa	1
20	<i>Albizia julibriss</i>	Kash Patta	52
21	<i>Citrus aurantium</i>	Siamandi	9
22	<i>Phytolacca dioica</i>	Khagra	10
23	<i>Mimosa alba</i>	Sahaj	1
24	<i>Ficus religiosa</i>	Fig	1
25	<i>Pongamia pinnata</i>	Tridaxhar	2
26	<i>Bauhinia grandis</i>	Alar	2
27	<i>Gracillia robusta</i>	Silver oak	1
28	<i>Cassia auriculata</i>	Coconut shell-Tree	1
29	<i>Argemone mexicana</i>	Black paper tree	8



1. Flowering of Mimosa pinnata



2. Blooming Cassia Pinnata

Agri-farm

Sl. No.	Name of the Plant	Common Name	No. of the Plant
1	<i>Rosa indica</i>	Rose	42
2	<i>Ficus religiosa</i>	Fig	9
3	<i>Elaeagnus argentea</i>	Rudraksh	1
4	<i>Emblica officinalis</i>	Amla	5
5	<i>Ficus religiosa</i>	Fig	3
6	<i>Bambusa nana</i>	Serai	2
7	<i>Panicum polyanthum</i>	Amar	1
8	<i>Chloranthus chinensis</i>		5
9	<i>Morus alba</i>	Silk	1
10	<i>Eucalyptus sp.</i>	Safed	6
11	<i>Euphorbia sp.</i>		8
12	<i>Terminalia arjuna</i>	arjuna	1
13	<i>Ravenea frutescens</i>	Royal palm	1
14	<i>Lantana camara</i>	malabar	2
15	<i>Moringa oleifera</i>	salamba	5
16	<i>Gliricidia sepium</i>	Gliricidia	15
17	<i>Melia azadirachta</i>	Deer	3
18	<i>Pongamia pinnata</i>	Sakhalan	1
19	<i>Tournefortia sp.</i>		12
20	<i>Dyckia sp.</i>		11
21	<i>Aegle marmelos</i>		1
22	<i>Nerium indicum</i>	Har- shringar	2
23	<i>Stygium chinensis</i>		1
24	<i>Lonicera xylosteum</i>	Sa-halool	12
25	<i>Rhus sp.</i>	Rhus	8

Flowering on *Alstonia scholaris*

Backside of Science Block (Rose Garden)

Sr. No.	Name of the Plant	Common name	No. of Plants
1	<i>Albizia scholaris</i>	silind	5
2	<i>Delonix regia</i>	Faluk mofaka	13
3	<i>Platanus orientalis</i>	Klasara	12
4	<i>Bauhinia purpurata</i>	Kachana	3
5	<i>Banyan tree</i>	Rona	10
6	<i>Ficus religiosa</i>	-	7
7	<i>Cassia javanica</i>	Korogit-gorogit	4
8	<i>Albizia sp.</i>	Moropokha	8
9	<i>Cassia fistula</i>	Amalaka	4
10	<i>Calliandra sp.</i>	kuruk bharu	2
11	<i>Delonix regia</i>	Gulmohar	1
12	<i>Platanus sp.</i>	Frangipani/Champagnik lati	1
13	<i>Melia azadirachta</i>	Dak	2
14	<i>Mangifera indica</i>	Amb	1
15	<i>Cassia florida</i>	Amalaka	1
16	<i>Shorea robusta</i>	Silver oak	4
17	<i>Ficus religiosa</i>	Papal	2
18	<i>Mimus alba</i>	salun	2



Delonix Regia (Gulmohar at college campus)



In front of Principal office

Sr. No.	Name of the Plant	Common name	Number of the plant
1	<i>Banyan tree</i>	Rona	25
2	<i>Ficus religiosa</i>	Fig	7
3	<i>Albizia reginae</i>	Golden Shower	Numerous
4	<i>Tabernaemontana divaricata</i>	Chandni	14
5	<i>Bauhinia regia</i>	Banyan palm	10



Flowering on *Tabernaemontana divaricata*

Basketball court Ground

	Name of the Plant	Common name	Number of plants
1	<i>Albizia lobbii</i>	Sirin	3
2	<i>Delonix regia</i>	Faluk/ Mandara	3
3	<i>Ficus delavayi</i>	Fig beland/banyan tree	1
4	<i>Ficus religiosa</i>	Papal/ Fig	1



Flowering on *Mimosa pudica*

Sports Ground

	Name of the Plant	Common name	Number of plant
1	<i>Terminalia arjuna</i>	Ajru	6
2	<i>Bauhinia variegata</i>	Kachana	1
3	<i>Albizia lobbii</i>	Sirin	2
4	<i>Apocynum androsaemum</i>	Nandu	1
5	<i>Bauhinia variegata</i>	Syrind	2

Botanical Garden Plant list



Pimenta rubra in front of campus library



Calotropis procera in front of Sri Gurusathan Sahib, campus

Sl. No.	Name of the plant	Common name and Family	Number of the plants
1	<i>Dioscorea alata</i>	Coco plant Zingiberaceae	8
2	<i>Cucurbita</i> (Mela)	Amrithas Fabaceae	2
3	<i>Pilea glaucocoma</i>	Gesleriaceae	2
4	<i>Pilea volubilis</i>	Peperaceae	1
5	<i>Pilea angustifolia</i>	Balanaceae	1
6	<i>Strobilanthus</i> (Musa)	Strobilanthaceae	2
7	<i>Eleusine indica</i> (Wheat)	Kulmbhili Gramineae	1
8	<i>Zinnia</i> (Mela)	Asteraceae	1
9	<i>Zinnia</i> (Mela)	Balanaceae	2
10	<i>Zinnia</i> (Mela)	Balanaceae	2
11	<i>Zinnia</i> (Mela)	Asteraceae	2
12	<i>Zinnia</i> (Mela)	Asteraceae	1
13	<i>Zinnia</i> (Mela)	Asteraceae	2
14	<i>Zinnia</i> (Mela)	Asteraceae	4
15	<i>Zinnia</i> (Mela)	Asteraceae	2
16	<i>Zinnia</i> (Mela)	Asteraceae	2
17	<i>Zinnia</i> (Mela)	Asteraceae	2
18	<i>Zinnia</i> (Mela)	Asteraceae	4
19	<i>Zinnia</i> (Mela)	Asteraceae	4
20	<i>Zinnia</i> (Mela)	Asteraceae	2
21	<i>Zinnia</i> (Mela)	Asteraceae	1
22	<i>Zinnia</i> (Mela)	Asteraceae	1
23	<i>Zinnia</i> (Mela)	Asteraceae	1
24	<i>Zinnia</i> (Mela)	Asteraceae	2
25	<i>Zinnia</i> (Mela)	Asteraceae	1
26	<i>Zinnia</i> (Mela)	Asteraceae	1
27	<i>Zinnia</i> (Mela)	Asteraceae	2
28	<i>Zinnia</i> (Mela)	Asteraceae	1
29	<i>Zinnia</i> (Mela)	Asteraceae	1
30	<i>Zinnia</i> (Mela)	Asteraceae	2
31	<i>Zinnia</i> (Mela)	Asteraceae	2
32	<i>Zinnia</i> (Mela)	Asteraceae	2
33	<i>Zinnia</i> (Mela)	Asteraceae	1
34	<i>Zinnia</i> (Mela)	Asteraceae	1
35	<i>Zinnia</i> (Mela)	Asteraceae	5
36	<i>Zinnia</i> (Mela)	Asteraceae	6
37	<i>Zinnia</i> (Mela)	Asteraceae	6

Botanical Garden

Sl. No.	Scientific Name	Common name	No. of plants
41	<i>Sonchum oleraceum</i>	Arrowhead plant Asteraceae	-
42	<i>Taraxacum officinale</i>	Spade-leaf Compositaceae	-
43	<i>Calceolaria</i>	Calceolaria Lamiaceae	-
44	<i>Dieffenbachia</i>	Dieffenbachia Araceae	-
45	<i>Carex</i>	Palm-leaf Cyperaceae	-
46	<i>Bryophyllum</i>	Peperaceae	-
47	<i>Ficus</i>	Fig plant Moraceae	2
48	<i>Ardisia</i>	Christmas tree	2
49	<i>Prunus</i>	Peach Rosaceae	2
50	<i>Albizia</i>	Senna Apocynaceae	2



Melaleuca sp. & *Prunus* persica at botanical garden

Botanical Garden



2. Birds Visiting college campus

Sr. no.	Common name	Scientific name	Campus
1	Black Kite	<i>Nyctala leucorhoa</i>	Campus
2	Shrike	<i>Lanius ludovicianus</i>	Campus
3	Common House Wren	<i>Troglodytes aedon</i>	Campus
4	Black-winged Stilt	<i>Himantopus himantopus</i>	Campus
5	Rock Pigeon	<i>Columba livia</i>	Campus
6	Spotted Dove	<i>Streptopelia chinensis</i>	Campus
7	Yellow-footed Green Pigeon	<i>Turtur dussumieri</i>	Campus
8	Common Hoopoe	<i>Upupa epops</i>	Campus
9	Asian Kestrel	<i>Falco tinnunculus</i>	Campus
10	Common Cuckoo	<i>Coccyzus erythrophthalmus</i>	Campus
11	Grey Francolin	<i>Pedunculatus galus</i>	Campus
12	Indian Parakeet	<i>Psittacula krameri</i>	Campus
13	Common Myna	<i>Acridothera tristis</i>	Campus
14	White-throated Warbler	<i>Acridothera tristis</i>	Campus
15	Asian Parakeet	<i>Psittacula krameri</i>	Campus
16	Black Drongo	<i>Dicrurus leucophaea</i>	Campus
17	Black Bulbul	<i>Pycnonotus melanocephalus</i>	Campus
18	Bridle-necked Parakeet	<i>Streptopelia dussumieri</i>	Campus
19	Common Myna	<i>Acridothera tristis</i>	Campus
20	Asian Parakeet	<i>Psittacula krameri</i>	Campus
21	Indian Robin	<i>Eopsittacus indus</i>	Campus
22	Indian Sparrow	<i>Passer domesticus</i>	Campus
23	Asian Parakeet	<i>Psittacula krameri</i>	Campus
24	Common Myna	<i>Acridothera tristis</i>	Campus
25	Asian Parakeet	<i>Psittacula krameri</i>	Campus
26	Asian Parakeet	<i>Psittacula krameri</i>	Campus
27	Asian Parakeet	<i>Psittacula krameri</i>	Campus
28	Asian Parakeet	<i>Psittacula krameri</i>	Campus
29	Asian Parakeet	<i>Psittacula krameri</i>	Campus
30	Asian Parakeet	<i>Psittacula krameri</i>	Campus
31	Asian Parakeet	<i>Psittacula krameri</i>	Campus



Birds Visiting college campus

Sl. No.	Common name	Scientific name	Area
12	Brown Hooded Barb	<i>Alcedo tenebrosa</i>	Campus
13	Coppersmith Barb	<i>Alcedo tenebrosa</i>	Campus
14	Lesser Golden Backed Woodpecker	<i>Dryocopus longicauda</i>	Campus
15	Red Winged Parakeet	<i>Pyrrolocheilus leucostictus</i>	Campus
16	Spotted Oriole	<i>Icterus leucos</i>	Campus
17	Red winged Lapwing	<i>Vanellus indicus</i>	Campus
18	Red winged Blackbird	<i>Ficedula jayus</i>	Campus
19	White Wren	<i>Monticola alba</i>	Campus
20	White breasted Wagtail	<i>Motacilla leucophaea</i>	Campus
21	Greenish warbler	<i>Phylloscopus trochiloides</i>	Campus
22	Indian Grey Heron	<i>Ardea cinerea</i>	Campus
23	Red winged Blackbird	<i>Pycnonotus cafer</i>	Campus
24	European Dick-Cissel	<i>Buteo bledius</i>	Campus
25	Brown Back Chat	<i>Coccyzus erythrophthalmus</i>	Campus
26	Long Tail Shrike	<i>Lanius arboreus</i>	Campus



3. Insects at college campus

Sl. no.	Scientific name	Scientific name
	<i>Spizella monticola</i>	<i>Spizella</i>
	<i>Spizella monticola</i>	<i>Spizella</i>
	<i>Spizella monticola</i>	<i>Spizella</i>
	<i>Spizella monticola</i>	<i>Spizella</i>

Initial stage of praying mantis



Spizella monticola



Spizella monticola on *Lantana* flower



Initial Leaf Hopper





Striped beetle



Spotted fly



Two Examples of proto-cooperation at campus between Two species is the indicator of sound ecosystem



1. Tree hoppers and *Formica rufa* in symbiotic Association on plant *Cassia fistula*
2. Termite house covered with *Termitomyces* fungus



• Indian Chameleon "*Chamaeleo zeylanicus*"



• Wood rotting Fungus
Ganoderma sp



The flora and fauna of Government Mohindra College, Patiala are highly diversified and rich as evidenced from the available types of plants (near about 89 genus and more than 100 species) and birds (near about 40 species) along with insects and reptiles. It not only complements its architectural beauty but serve as important academic resource for its various academic programmes.

3. Renewable Energy Resources

GOVT. MOHINDRA COLLEGE, PATIALA

The Institution has facilities for alternate source of energy and energy conservation measures.

In today's time, with the rapidly growing population and increasing energy consumption, energy conservation has become a major issue. This is because of energy is a precious gift of nature. Our college has also taken significant steps towards energy conservation. Some concepts are here:

❖ Solar Power Plant

One of the most common alternative energy source is solar power. Our institution has also installed a solar power plant, which has been installed on 15-10-2015 from AP Technologies inside Saurin Gera, Patiala. Solar energy is renewable, clean and does not produce any greenhouse gases. Our Solar Power Plant was installed on 14th July, 2022 on the top of Administration Block. Total cost of this project including PEDA service energy charges was ₹.89,100. Capacity of this solar system is 20KW.

❖ Use of LED Bulbs and energy efficient equipment

To further reduce energy consumption, the institution has replaced old electrical fittings with energy efficient LED tube lights and LCD monitors. Additionally, they have installed five – star energy efficient refrigerators, which create less heat and consume less energy. Such AC's have been installed in the college which consumes less electricity.

❖ College Building

All blocks in the college building are well ventilated, with glass windows in every room to maximize natural light and air. Students and staff are encouraged to make the most of natural light and shade of trees wherever possible to save energy. These initiatives demonstrate the institution's commitment to promoting sustainable practices and reducing its Carbon footprint.

Solar Power Plant



Science Block



Administration Block



Energy Efficient Equipment: LED Bulb



Energy Efficient Equipment: Refrigerator



Energy Efficient Equipment: LCD / Monitor



Energy Efficient Equipment: ACs



Ventilation and natural light provision in Classrooms

4. Spaces contributing to environmental health;







5. Sustainable green waste management:

Management of the various types of degradable and non degradable waste

The college is actively working for solid waste management. For this purpose, has been made for segregation of solid waste and compost pits have been constructed near botanical garden, in botanical garden, near gate number 1 and girls hostel in the college campus. In this technique the plant wasteage is converted into organic manure for use in garden in college campus.

- **Composting** – Compost is prepared in the college by the gardeners. It contains water soluble nutrients and is an excellent nutrient rich organic fertilizer.
- **Biodegradable waste**- Biodegradable waste includes organic wasteage like food, leaves, garden waste, kitchen waste etc. For Biodegradable waste green dustbins installed at different places.
- **Recyclable waste** –Recyclable waste like paper, cans, plastic, metal etc. For Recyclable waste blue dustbins installed in college campus.



Composite pit near Botanical Garden



Composite pit in Botanical Garden



Composite pit near gate no. 3



Composite pit in Girls Hostel



Green and Blue Dustbins for waste segregation

6. Collaborate with various agencies in furthering the cause of environmental health;

Plantation Drive 2021



Celebration of Earths day in collaboration with National Green Corps, Punjabi University, Patiala (2022)

ਦਫਤਰ: ਮਿੰਸੀਪਲ, ਸਰਕਾਰੀ ਮਹਿੰਦਰਾ ਕਾਲਜ, ਪਟਿਆਲਾ।

ਦਿਨ:

ਡਾ. ਹਿਮੇਦਰ ਜਾਰਤੀ,
 ਡਾਇਰੈਕਟਰ ਕੋਆਰਡੀਨੇਟਰ,
 ਸੈਂਟਰਲ ਸਿਸਟਮਟਿਕਸ ਅਤੇ ਐਂਵੇਲੂਮੈਂਟਲ ਆਇਲਿਜੈਂਸੀ ਲੈਬ,
 ਜੂਨੀਅਰ ਅਤੇ ਵਾਤਾਵਰਣ ਵਿਗਿਆਨ ਵਿਭਾਗ,
 ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਪਟਿਆਲਾ।

ਮਿਤਰ ਨੰ. (113) _____ ਮਿਤੀ: 19-5-2022

ਵਿਸ਼ਾ: ਘਰਤ ਦਿਵਸ ਮਨਾਉਣ ਵਿੱਚ ਤੇਜ਼ੀ ਹੋਈ ਗ੍ਰਾਂਟ ਦੀ ਵਰਤੋਂ ਸਰਟੀਫਿਕੇਟ ਤੇਜ਼ੀ ਸੰਬੰਧੀ।

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸੰਬੰਧ ਵਿੱਚ ਆਪ ਜੀ ਵੱਲੋਂ ਤੇਜ਼ੀ ਗ਼ੈਰ ਈ-ਮੇਲ ਰਾਹੀਂ ਕਿਹਾ ਗਿਆ ਸੀ ਕਿ 6000/- ਰੁਪਏ ਗ੍ਰਾਂਟ ਆਪ ਜੀ ਨੂੰ ਚੌਲ੍ਹੇਜ਼ ਕਰ ਦਿੱਤੀ ਗਈ ਹੈ ਅਤੇ ਆਪੀ 2000/- ਰੁਪਏ ਦੀ ਗ੍ਰਾਂਟ ਵੱਧਰ ਪ੍ਰਾਪਤ ਕਰਨ ਤੇ ਚੌਲ੍ਹੇਜ਼ ਕੀਤੀ ਜਾਵੇਗੀ। ਆਪ ਜੀ ਨੂੰ 8000/- ਰੁਪਏ ਦਾ ਵਰਤੋਂ ਸਰਟੀਫਿਕੇਟ ਅਤੇ ਸਰਟੀਫਿਕੇਟ ਵੱਧਰ ਅਭਿਲਾਸ਼ੀ ਕਰਵਾਉਣ ਵਿੱਚ ਤੇਜ਼ੀ ਜਾਂਦੇ ਹਨ। ਕਿਰਪਾ ਕਰਕੇ ਬਕਾਇਆ ਰਕਮ 2000/- ਰੁਪਏ ਜਲਦੀ ਤੋਂ ਜਲਦੀ ਜਾਰੀ ਕੀਤੀ ਜਾਵੇ।


 ਮਿੰਸੀਪਲ 19/5/22




ਬੋਟੈਨਿਕਲ ਸੋਸਾਇਟੀ, ਮਹਿੰਦਰਾ ਕਾਲਜ ਪਟਿਆਲਾ ਵਲੋਂ 'ਧਰਤੀ ਦਿਹਾੜਾ' ਮਨਾਇਆ

ਪਟਿਆਲਾ: 22 ਅਪ੍ਰੈਲ ਨੂੰ ਬੋਟੈਨਿਕਲ ਸੋਸਾਇਟੀ, ਮਹਿੰਦਰਾ ਕਾਲਜ ਪਟਿਆਲਾ ਵਲੋਂ 'ਧਰਤੀ ਦਿਹਾੜਾ' ਮਨਾਇਆ ਗਿਆ। ਇਸ ਮੌਕੇ ਸੋਸਾਇਟੀ ਦੇ ਮੈਂਬਰਾਂ ਨੇ ਇੱਕ ਸਮਾਗਮ ਦਾ ਆਯੋਜਨ ਕੀਤਾ, ਜਿਸ ਵਿੱਚ ਸ਼ਾਮਲ ਹੋਣ ਵਾਲੇ ਸ਼ਿਸ਼ੂਆਂ ਨੂੰ ਵਾਤਾਵਰਣ ਦੀ ਸੁਰੱਖਿਆ ਬਾਰੇ ਸੂਚਨਾ ਦਿੱਤੀ ਗਈ। ਇਸ ਮੌਕੇ ਸੋਸਾਇਟੀ ਦੇ ਮੈਂਬਰਾਂ ਨੇ ਇੱਕ ਸਮਾਗਮ ਦਾ ਆਯੋਜਨ ਕੀਤਾ, ਜਿਸ ਵਿੱਚ ਸ਼ਾਮਲ ਹੋਣ ਵਾਲੇ ਸ਼ਿਸ਼ੂਆਂ ਨੂੰ ਵਾਤਾਵਰਣ ਦੀ ਸੁਰੱਖਿਆ ਬਾਰੇ ਸੂਚਨਾ ਦਿੱਤੀ ਗਈ।

ਸੋਸਾਇਟੀ ਦੇ ਮੈਂਬਰਾਂ ਨੇ ਇੱਕ ਸਮਾਗਮ ਦਾ ਆਯੋਜਨ ਕੀਤਾ, ਜਿਸ ਵਿੱਚ ਸ਼ਾਮਲ ਹੋਣ ਵਾਲੇ ਸ਼ਿਸ਼ੂਆਂ ਨੂੰ ਵਾਤਾਵਰਣ ਦੀ ਸੁਰੱਖਿਆ ਬਾਰੇ ਸੂਚਨਾ ਦਿੱਤੀ ਗਈ। ਇਸ ਮੌਕੇ ਸੋਸਾਇਟੀ ਦੇ ਮੈਂਬਰਾਂ ਨੇ ਇੱਕ ਸਮਾਗਮ ਦਾ ਆਯੋਜਨ ਕੀਤਾ, ਜਿਸ ਵਿੱਚ ਸ਼ਾਮਲ ਹੋਣ ਵਾਲੇ ਸ਼ਿਸ਼ੂਆਂ ਨੂੰ ਵਾਤਾਵਰਣ ਦੀ ਸੁਰੱਖਿਆ ਬਾਰੇ ਸੂਚਨਾ ਦਿੱਤੀ ਗਈ।

ਪ੍ਰਭਾਤ ਇੰਟਰਨੈਸ਼ਨਲ ਸਕੂਲ ਧਰਤੀ ਦਿਵਸ ਮੌਕੇ ਜਾਰੂਰੀ

ਪ੍ਰਭਾਤ ਇੰਟਰਨੈਸ਼ਨਲ ਸਕੂਲ ਧਰਤੀ ਦਿਵਸ ਮੌਕੇ ਜਾਰੂਰੀ ਕਾਰਜ ਕੀਤੇ। ਸਕੂਲ ਦੇ ਬੱਚਿਆਂ ਨੂੰ ਵਾਤਾਵਰਣ ਦੀ ਸੁਰੱਖਿਆ ਬਾਰੇ ਸੂਚਨਾ ਦਿੱਤੀ ਗਈ। ਇਸ ਮੌਕੇ ਸਕੂਲ ਦੇ ਬੱਚਿਆਂ ਨੂੰ ਵਾਤਾਵਰਣ ਦੀ ਸੁਰੱਖਿਆ ਬਾਰੇ ਸੂਚਨਾ ਦਿੱਤੀ ਗਈ।

Celebration of Earth Day 2023 Under environment Education Program held in collaboration with PSCST

Earth Day 2023



ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਨਮਾਨਤ ਕਰਦੇ ਹੋਏ

ਕਾਲਜ 'ਚ ਧਰਤੀ ਦਿਵਸ ਨੂੰ ਸਮਰਪਿਤ ਸਮਾਗਮ ਕਰਵਾਇਆ

ਪੱਤਰ ਪ੍ਰਕਾਸ਼, ਪਟਿਆਲਾ : ਸਰਕਾਰੀ ਮਹਿੰਦਰਾ ਕਾਲਜ ਪਟਿਆਲਾ ਦੇ ਸਰਕਾਰੀ ਵਿਦਿਆਰਥੀਆਂ ਵੱਲੋਂ ਸੰਵਿਗਨਤ ਕਮਿਸ਼ਨਰੀ ਵਿਸ਼ੇਸ਼ ਤੌਰ 'ਤੇ ਸਮਰਪਿਤ ਕਾਲਜ ਦੇ-ਵੱਲੋਂ ਧਰਤੀ ਦਿਵਸ ਮਨਾਇਆ ਗਿਆ । ਪਹਿਲੇ ਦਿਨ ਵਿਦਿਆਰਥੀਆਂ ਵੱਲੋਂ 'ਪੜ੍ਹ-ਪੜ੍ਹਨ' ਮੁਕਾਬਲਾ ਅਤੇ ਸੰਵਿਗਨਤ ਮੁਕਾਬਲਾ ਕਰਵਾਏ ਗਏ ਅਤੇ ਦੂਜੇ ਦਿਨ ਕਾਲਜ ਦੇ ਸਰਕਾਰੀ ਸਮਾਗਮ ਵਿੱਚ ਵਿੱਚ ਪੇਂਟਿੰਗ ਕੋਲੀ ਕੋਲੀ ਗਈ ਗਿਆ ਤੇ ਸਰਕਾਰੀ ਵਿੱਚ ਮੌਜੂਦੀ 'ਵਿਦਿਆਰਥੀ ਪਟਿਆਲਾ' ਦੇ ਸਰਕਾਰੀ ਵਿਦਿਆਰਥੀ ਤੇ ਪ੍ਰ. ਮਹੰਦਰਾ ਪੁਸ਼ਟ ਮਿੱਠ ਵੱਲੋਂ 'ਧਰਤੀ ਦਿਵਸ ਵਿੱਚ ਅੰਦਾਜ਼' ਵਿਖੇ 'ਤੇ ਵਿਸ਼ੇਸ਼ ਖੇਤਰ ਵਿੱਚ ਗਿਆ ।

ਅਤੇ ਦੂਜੇ ਦਿਨ ਸਰਕਾਰੀ ਵਿਸ਼ੇਸ਼ ਮਹੰਦਰਾ ਮਿੱਠ ਦੀ ਅੰਗਰੇਜ਼ੀ ਵਿੱਚ

ਕਾਲਜ ਵਿੱਚ ਵਿਸ਼ੇਸ਼ ਮੁਕਾਬਲੇ ਵਿੱਚ ਹਾਜ਼ਰ ਹੋ ਕੇ ਮਹਿੰਦਰਾ ਕੋਲੀ ਵੱਲੋਂ ਕਾਲਜ ਵਿੱਚ। ਧਰਤੀ ਦਿਵਸ ਮਨਾਉਣ ਲਈ ਪੰਜਾਬ ਸਟੇਟ ਕਾਉਂਸਿਲ ਡਾਕ ਸਾਈਜ਼ ਕੋਲ ਟੈਕਸਟਬੁੱਕ ਵੱਲੋਂ ਵਿਸ਼ੇਸ਼ ਗੁਣ ਜਾਰੀ ਕੀਤੀ ਗਈ ।

ਇਸ ਸਿੱਕੇ ਵਿੱਚ ਮਹੰਦਰਾ ਮਿੱਠ ਦੀ ਅੰਗਰੇਜ਼ੀ ਕੋਲ ਹੋਰ ਵੱਧ ਕਰਦੇ ਗਏ ਅਤੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵੀ ਹੋਰ ਵੱਧ ਕਰਦੇ । ਇਸ ਵੱਲੋਂ ਪ੍ਰ. ਮਹਿੰਦਰਾ ਕੋਲੀ, ਪ੍ਰ. ਕਾਲੀ ਕਾਲਜ, ਪ੍ਰ. ਸੰਵਿਗਨ ਮਿੱਠ, ਪ੍ਰ. ਸਰਕਾਰੀ ਕਾਲਜ, ਪ੍ਰ. ਕਾਲਜ ਸਰਕਾਰੀ, ਪ੍ਰ. ਸੰਵਿਗਨ ਕੋਲੀ, ਪ੍ਰ. ਸੰਵਿਗਨ ਕੋਲੀ, ਪ੍ਰ. ਕਾਲਜ ਮਿੱਠ, ਪ੍ਰ. ਸਰਕਾਰੀ, ਪ੍ਰ. ਮਿੱਠ, ਪ੍ਰ. ਕਾਲਜ ਕੋਲੀ, ਪ੍ਰ. ਸਰਕਾਰੀ ਕੋਲੀ, ਪ੍ਰ. ਕਾਲਜ ਕੋਲੀ ਅਤੇ ਪ੍ਰ. ਕਾਲੀ ਕੋਲੀ ਕੋਲ ਮਹਿੰਦਰਾ ਕੋਲੀ ।





GOVT. MOHINDRA COLLEGE, PATIALA

(NAAC Accredited - A Grade In Cycle II with CGPA - 3.86)
Department of Botany in Collaboration with IQAC



Under

Environment Education Programme

By PSCST



Celebrating EARTH DAY - 22 April 2023

This is to certify that Ankush of B.A. IIIrd (History Hons)
participated in Paper Reading category and secured - position.

[Signature]
Coordinator

[Signature]
Co-Coordinator

[Signature]
Principal

World Environment Day-2022

Celebration of Environment Day in collaboration with Punjab Pollution Control Board:

Balance economic development goals with environmental sustainability: Prof Ghuman

TRIBUNE NEWS SERVICE

PATIALA, MAY 31

The department of public administration and the internal quality assurance cell of Government Mohindra College, Patiala, in collaboration with Punjab Pollution Control Board (PPCB) organised a series of academic events to celebrate World Environment Day 2022. The United Nations Environment Programme (UNEP) has declared to celebrate this year's environment day under the campaign slogan of "Only One Earth" with a focus on "Living Sustainably in Harmony with Nature". The events—slogan writing, poster making, awareness rally by students and seminar—were based on the campaign slogan and the focus area. The celebrations took place under the patronage of Principal Simrat Kaur and environmental engineer, Naveesh Singh of the PPCB.



Government Mohindra College organises an event to celebrate World Environment Day on Tuesday. (Tribune Photo Service)

The poster making and slogan writing competitions were held to make the students aware about the environmental concerns in which hundreds of students participated. Meanwhile, an awareness rally was organised by the students in the city in which the students sensitized citizens about environmental challenges. The rally was

followed by a half-day seminar on "Challenges to Environmental Sustainability in Punjab: A Way Forward" Guru Nanak Dev University's Prof of Eminence RS Ghuman delivered the keynote address.

While introducing the theme of the seminar, Dr Muhammad Sohail, head department of public administration, dwelled upon the

history of policy efforts by the national and international organisations such as UN, OECD to make human-environment interface more crucial.

During the keynote address, Prof Ghuman opined that developmental targets and environmental health were not antagonistic to each other and the policy makers must develop complementary relation between the two. Prof Ghuman at length deliberated on issues of environmental sustainability in Punjab and its negative effects on natural resources such as water, air and soil. He further expressed that the agriculture had been hit hard by the climate change in the recent times.

Dr Simrat Kaur, Principal, Government Mohindra College, Patiala, congratulated the department of public administration and Pollution Control Board for organising events to mark the World Environment Day.





ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ
PUNJAB POLLUTION CONTROL BOARD



PPCB/No.

Dated:

TO WHOM IT MAY CONCERN

This is to certify that the Punjab Pollution Control Board, Regional Office, Patiala sanctioned an amount of Rs-25000/- to Department of Public Administration, Government Mahindra College, Patiala for celebrating World Environment Day-2022. The Department utilized this amount to organize a series of academic events from May 30-31, 2022. The academic events included slogan writing competitions, poster making competitions, awareness rally and seminar on "Environment and Sustainable Development with special reference to Punjab". All the academic events were organized in collaboration with the Punjab Pollution Control Board, Regional Office, Patiala.

Signature and Stamp

Designation

Environmental Engineer
Punjab Pollution Control Board
Regional Office, Patiala.

ਖੇਤਰੀ ਦਫ਼ਤਰ, 23 ਜੀ, ਮਾਡਲ ਟਾਊਨ, ਪਟਿਆਲਾ

Phone: 0175-2228132 E-mail: gpo.patiala@vsnl.com, Web: www.ppcb.gov.in

7. Awareness Activities/Programmes for Students and Community, Celebration of National and International Days & 'Single Plastic Use' Free Campus;

Activities to Enhance Campus greenery and Cleanliness

1. Botanical Garden; Construction of Medicinal Plants Section & Aquatic plant section.



2. Naming of the plants at Botanical Garden for Students Knowledge and Awareness



3. Earth Day celebration by Department of Botany , 22.04.22



Events organised

- POSTER MAKING COMPETITION
- RANGOLI COMPETITION
- EXTEMPORE SPEECH COMPETITION
- GUEST LECTURE BY DR. RAJEEV SHARMA
ON TOPIC- **SINGLE USE PLASTIC**

April 22, 2022



POSTER MAKING COMPETITION

RANGOLI MAKING COMPETITION



SPECIAL LECTURE BY Dr. RAJEEV SHARMA

(HEAD, CHEMISTRY, MULTANI MODI COLLEGE, PATIALA)



**Lecture on- Single Use Plastic (Prof Rajiv Sharma, Chemistry, MM Modi College, Patiala)
(22/4/2022)**



PLANT DISTRIBUTION



EXTEMPORE SPEECH COMPETITION

4. Guest lecture on Tree Risk Management by Prof. Manish Kapoor on the occasion of World Science Day (9.11.2022)



Field visit with Prof. Manish Kapoor for Assessing under tree Risk



5. Earth Day, 2023

Organized a rally on Environment Education programme by Department of Botany



Tree Distribution and plantation on Earth Day, 2023



6. Guest Lecture on Earth Day, 2023 by Prof Avneet Pal Singh, Dept. of Botany, Punjabi University.

दैनिक सवेरा

गवर्नमेंट महिंद्रा कालेज में मनाया पृथ्वी दिवस



गवर्नमेंट महिंद्रा कॉलेज, पटियाला, सरकारी महिंद्रा कॉलेज पटियाला के छात्र-छात्रिकाओं द्वारा 'गवर्नमेंट महिंद्रा कॉलेज पटियाला' के 148th फाउंडेशन डे के अवसर पर 25 अप्रैल को विश्वभर में मनाया जाने वाला पृथ्वी दिवस मनाया गया। इस अवसर पर छात्र-छात्रिकाओं ने 'गवर्नमेंट महिंद्रा कॉलेज पटियाला' के 148th फाउंडेशन डे के अवसर पर 25 अप्रैल को विश्वभर में मनाया जाने वाला पृथ्वी दिवस मनाया गया। इस अवसर पर छात्र-छात्रिकाओं ने 'गवर्नमेंट महिंद्रा कॉलेज पटियाला' के 148th फाउंडेशन डे के अवसर पर 25 अप्रैल को विश्वभर में मनाया जाने वाला पृथ्वी दिवस मनाया गया।



7. Tree Plantation by OLD STUDENTS ASSOSSIATION on the occasion of 148th Foundation Day. 30.03.2023



8. Guest Lecture on Environment Day by Prof. RS Ghuman (Prof. eminence, GNDU, Amritsar)



Tree Plantation by Prof RS Ghuman on the occasion of Environment Day

Balance economic development goals with environmental sustainability: Prof Ghuman

Tribune News Service

PATIALA, MAY 31

The department of public administration and the internal quality assurance cell of Government Mohindra College, Patiala, in collaboration with Punjab Pollution Control Board (PPCB) organised a series of academic events to celebrate World Environment Day 2022. The United Nations Environment Programme (UNEP) has declared to celebrate this year's environment day under the campaign slogan of "Only One Earth" with a focus on "Living Sustainably in Harmony with Nature". The events— slogan writing, poster making, awareness rally by students and seminars— were based on the campaign slogan and the focus area. The celebrations took place under the patronage of Principal Suresh Kumar and environmental engineer Navmesh Singh of the PPCB.



Government Mohindra College organises an event to celebrate World Environment Day on Tuesday. (Tribune Photo Service)

The poster making and slogan writing competitions were held to make the students aware about the environmental concerns in which hundreds of students participated. Meanwhile, an awareness rally was organised by the students in the city in which the students sensitised citizens about environmental challenges. The rally was

followed by a half-day seminar on "Challenges to Environmental Sustainability in Punjab: A Way Forward". Gurnanok Devi University's Prof of Kinship Prof RS Ghuman delivered the keynote address.

While introducing the theme of the seminar, Dr. Mohammad Sohail, head, department of public administration, dwelled upon the

history of policy efforts by the national and international organisations such as UN, UNEP to make human-environment interface more cordial.

During the keynote address, Prof. Ghuman opined that developmental targets and environmental health were not antagonistic to each other and the policy makers must develop complimentary relation between the two. Prof. Ghuman at length deliberated on issues of environmental sustainability in Punjab and its negative effects on natural resources such as water, air and soil. He further expressed that the agriculture had been hit hard by the climate change in the recent times.

Dr. Suresh Kumar, Principal, Government Mohindra College, Patiala, congratulated the department of public administration and Pollution Control Board for organising events to mark the World Environment Day.

9. **Stage Play by NSS Volunteers on the occasion of Earth Day celebration by Department of Botany , 22.04.22**

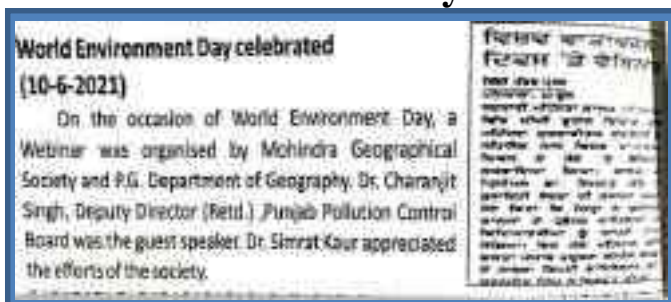




Tree Plantation by the teachers in the College Campus



Tree Plantation by the Students in the College Campus



Organized a Webinar on the Occasion of World Environment Day



Ploughing Drive by NCC Cadre



Anti – Cracker Diwali



Ban of Plastic Use to maintain Green and Clean Campus



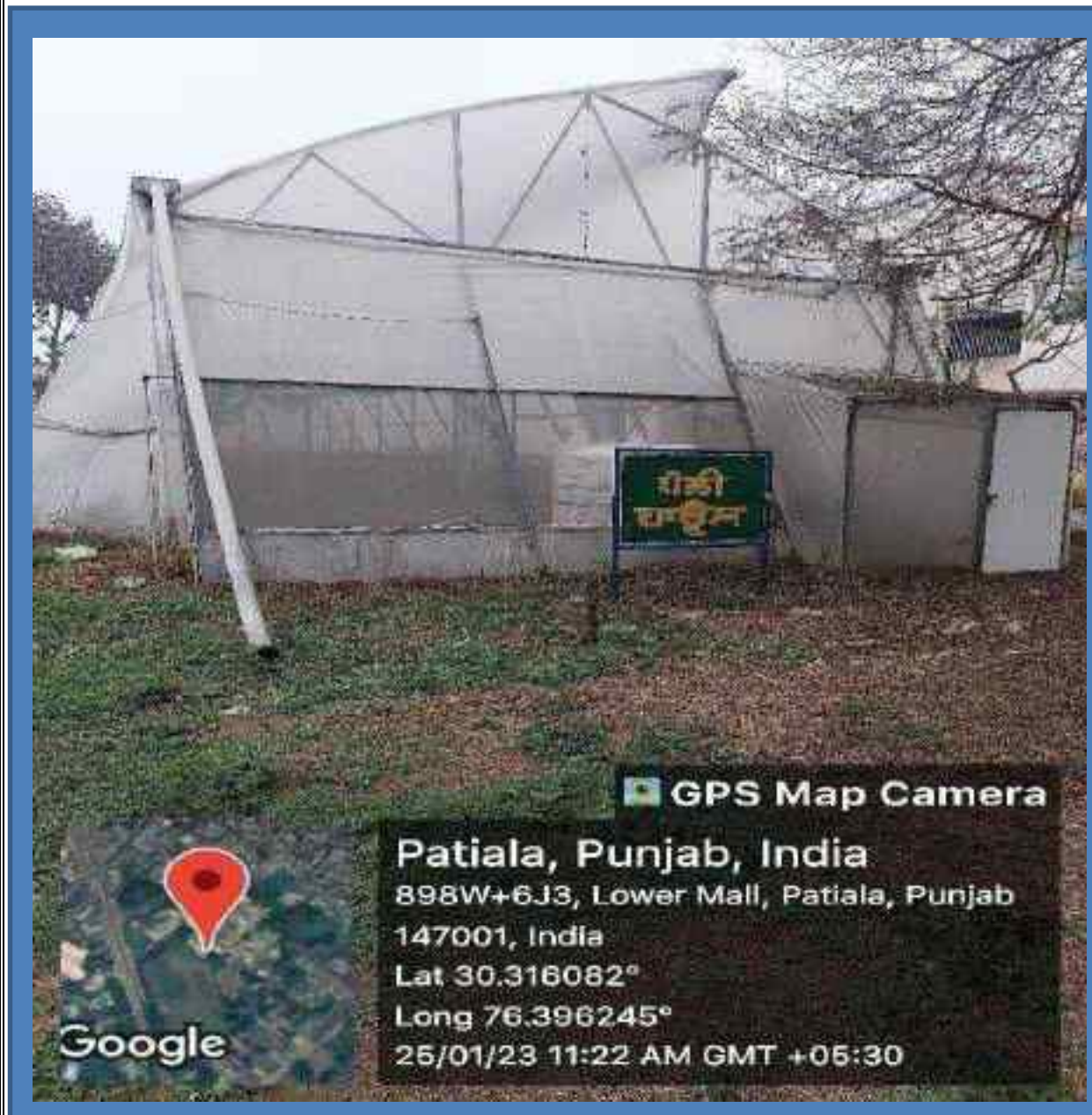
Rally on World bicycle Day



NSS volunteer organized Environment Awareness Rally



Polythene free campus



Playhouse at campus

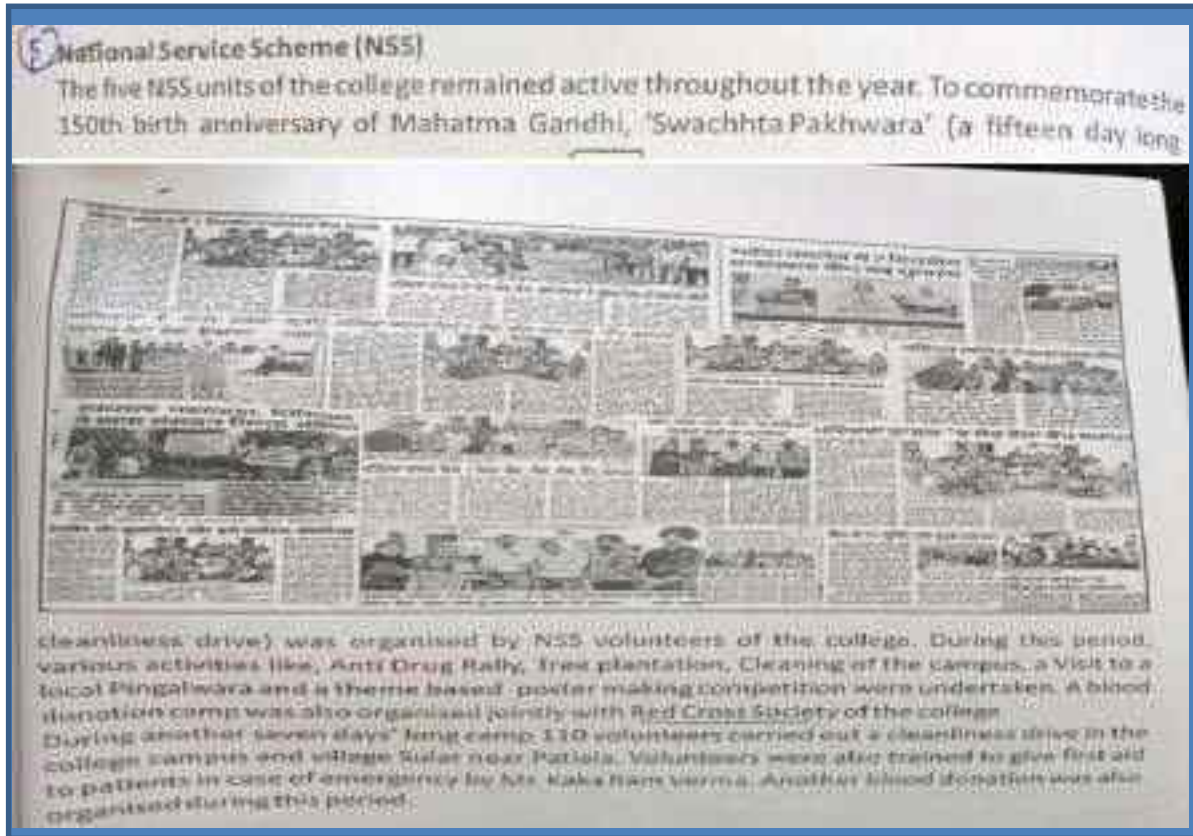


ਹੋਸਟਲ ਦੇ ਵਾਤਾਵਰਣ ਨੂੰ ਹਰਾ ਭਰਾ ਰੱਖਣ ਲਈ ਬੂਟਾ ਲਾਉਂਦੇ ਹੋਏ ਪ੍ਰਿੰਸੀਪਲ
ਅਤੇ ਹੋਸਟਲ ਕਮੇਟੀ ਦੇ ਮੈਂਬਰ 7.1.21

Plantation Drive

Beyond the campus environmental promotion and sustainability activities conducted outside by NCC/NSS units

Session -2018-2019



Session: 2019-2020



Session: 2020-2021

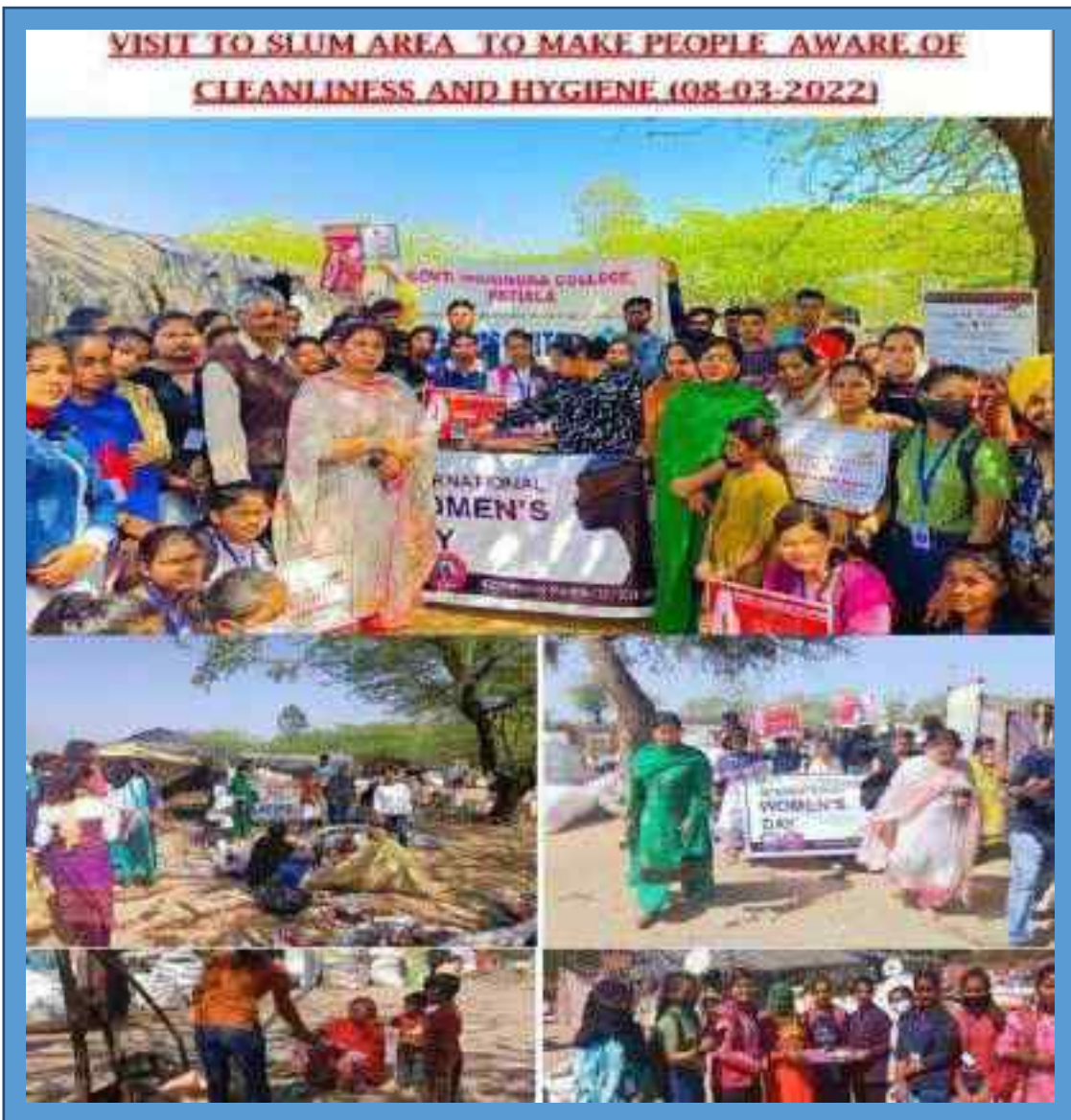


ਬੰਨੇ ਗਏ ਸੀ। ਨਿਯਮਤ ਵਿਭਾਗ ਦੇ ਕੋਲਿਗਟ ਆਪਣੇ ਭਲੀ-ਕੁਆਂਬ ਵਿੱਚ ਸਜਾਬਣੀ ਕੂਟੇ ਅਤੇ ਭਲਕਾਓ ਚਲਾਉਣ ਲਾਉਣ ਹੋਏ।



ਵਲਗ ਦੇ ਐਨ.ਐਸ.ਐਸ. ਵਲੰਟੀਅਰ ਆਪਣੇ ਆਖ-ਕੁਆਂਬ ਵਿੱਚ ਕੂਟੇ ਲਾ ਕੇ ਆਕਸੀਜਨ-ਪੂਰਤੀ ਦੀ ਸੁਹਿੰਮ ਦੇਵਾਨ

Session: 2021-2022



Punjab Pollution Control Board (PPCB) Activity (Report – May, 2022)

The Department of Public Administration and the Internal Quality Assurance Cell (IQAC) of Government Mohindra College, Patiala in collaboration with Punjab Pollution Control Board (PPCB), Punjab organized a series of academic events on May 30-31, 2022, to celebrate World Environment Day 2022. The UNEP has declared to celebrate this year’s Environment Day under the campaign slogan of “Only One Earth” with a focus on “Living Sustainably in Harmony with Nature”. The events, namely, slogan writing, poster making, awareness rally by students and seminar were based on the campaign slogan and the focus area. The celebrations took place under the patronage of Principal Dr. Simrat Kaur and Environmental Engineer Mr. Navtresh Singla, PPCB

Poster Making and slogan writing competitions were held on the first day to make the students aware about the environmental concerns in which hundreds of students participated. On the second day, an awareness rally was organized by the students in the city in which the students sensitized the citizens about environmental challenges. The rally was followed by a half day seminar on “Challenges to Environmental Sustainability in Punjab: A Way Forward”. Professor RS Ghuman Professor Eminence - Guru Nanak Dev University delivered the Keynote Address. The Punjab pollution Control Board was represented by Mrs. Pritpal Kaur, SDO Patiala.

1. Poster Making and Slogan Writing Competition: 30th May 2022

Department of Public Administration
Government Mohindra College, Patiala
Internal Quality Assurance Cell of the College

In Collaboration with
Punjab Pollution Control Board, Patiala
-Co-Organize-

World Environment Day 2022
Theme: “Living Sustainably in Harmony with Nature”



POSTER MAKING COMPETITION

INTRODUCTION:
1) Students from all departments B.A/B.Sc/BCA/BBA/LLB and M.A/LLM can participate.
2) Half Size Chart shall be used. Any type of material is allowed.
3) Entrants should send their entries to Room No. 43 by Mr. Navtresh (981720848) and Mr. Simrat (9817242706) by May 28th 2022.
4) Participants may prepare poster at home & bring it to college on 30th May 2022 for competition. They can also make it on the spot in college.
TIME: 9:00 AM - 12:00 Noon (30th May 2022)
VENUE: Room No. 43 (In IQAC Department)
**Prize: Prizes: Rankers (1st, 2nd and 3rd) will get a trophy and a certificate along the Prize Distribution Ceremony which will be held on May 31st 2022 in College Hallway.
5) Participants will be given participation certificate.**

Department of Public Administration
Government Mohindra College, Patiala
Internal Quality Assurance Cell of the College

In Collaboration with
Punjab Pollution Control Board, Patiala
-Co-Organize-

World Environment Day 2022
Theme: “Living Sustainably in Harmony with Nature”



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2. Awareness Rally: 31May, 2022



3. Seminar on Challenges to Environmental sustainability in Punjab: A Way Forward 31st May 2022



4. Plantation Drive: 31st May 2022



5. Prize Distribution : 31st May 2022



Balance economic development goals with environmental sustainability: Prof Ghuman

TRIBUNE NEWS SERVICE

PAITALA, MAY 31

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Government Mohindra College organises an event to celebrate World Environment Day on Tuesday. TRIBUNE PHOTO: NAGDEV SINGH

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Dr Simrat Kaur, Principal, Government Mohindra College, Patiala, congratulated the department of public administration and Pollution Control Board for organising events to mark the World Environment Day.

6. Seven Days NSS camp in village Sular, Patiala (11-03-2022 to 17-03-2022)



DAY-3

18 MARCH 2022

“DO SOMETHING DRASTIC, CUT THE PLASTIC”



**Volunteers
campaigned for a
plastic-free
environment from
sheesh mahal to
gurudwara sahib**



“EK KADAM SWACHHATA KI ORE”

**KEEPING OUR CITY
CLEAN IS OUR MORAL
DUTY SO A
CLEANLINESS DRIVE
WAS DONE BY THE
VOLUNTEERS UNDER
THE SUPERVISION OF
PROGRAMME
OFFICERS**



VOLUNTEERS CONDUCTED A CLEAN UP DRIVE AT THE PRIMARY URBAN HEALTH CENTER, WATER SUPPLY CENTER AND ANGANWADI



DAY -5

A CLEANLINESS OPERATION WAS CARRIED OUT TO CLEAN THE GURUDWARA SAHIB AND SWARGHDHAM



VOLUNTEERS CLEANED THE AREA AROUND THE COLLEGE



Session -2022-2023





On 19-10-2022, N. S. S volunteers took out a rally and went to villages to make people aware about not burning stubble.

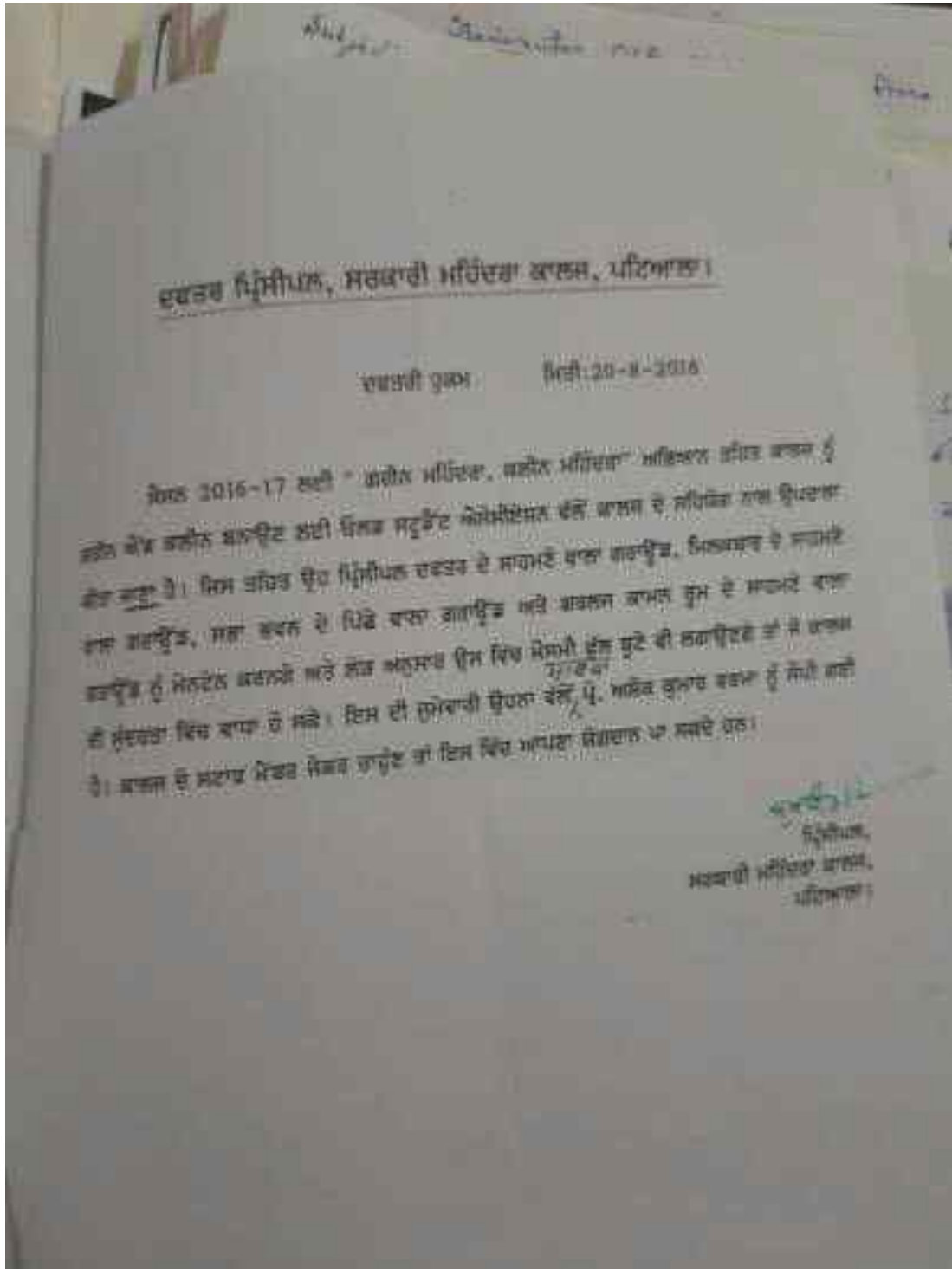


On 08-10-2022, a cleanliness drive was conducted in the girls' hostel of the college.

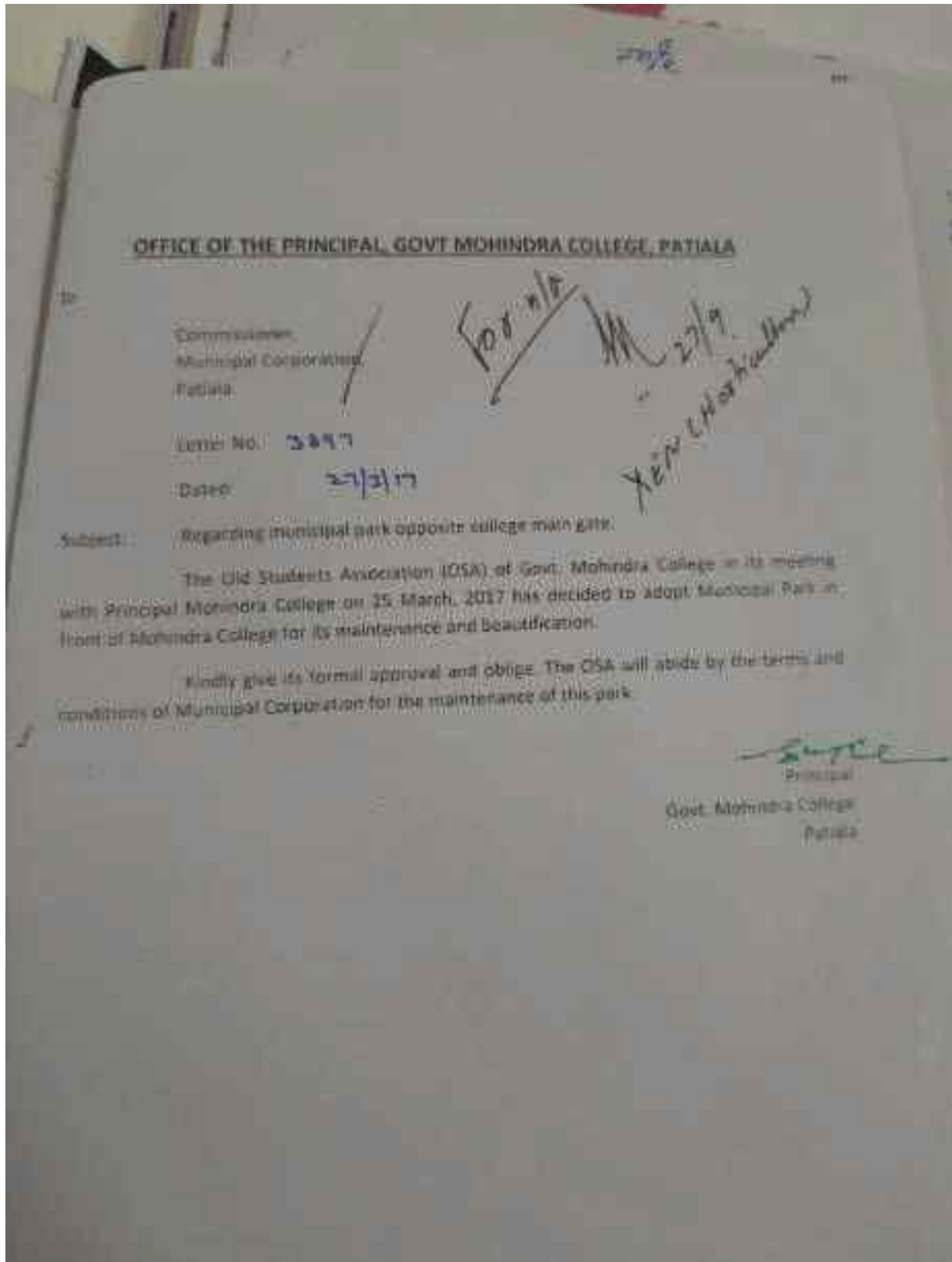
Beyond the campus awareness rally by Dept. of Botany: (25/04/2023)



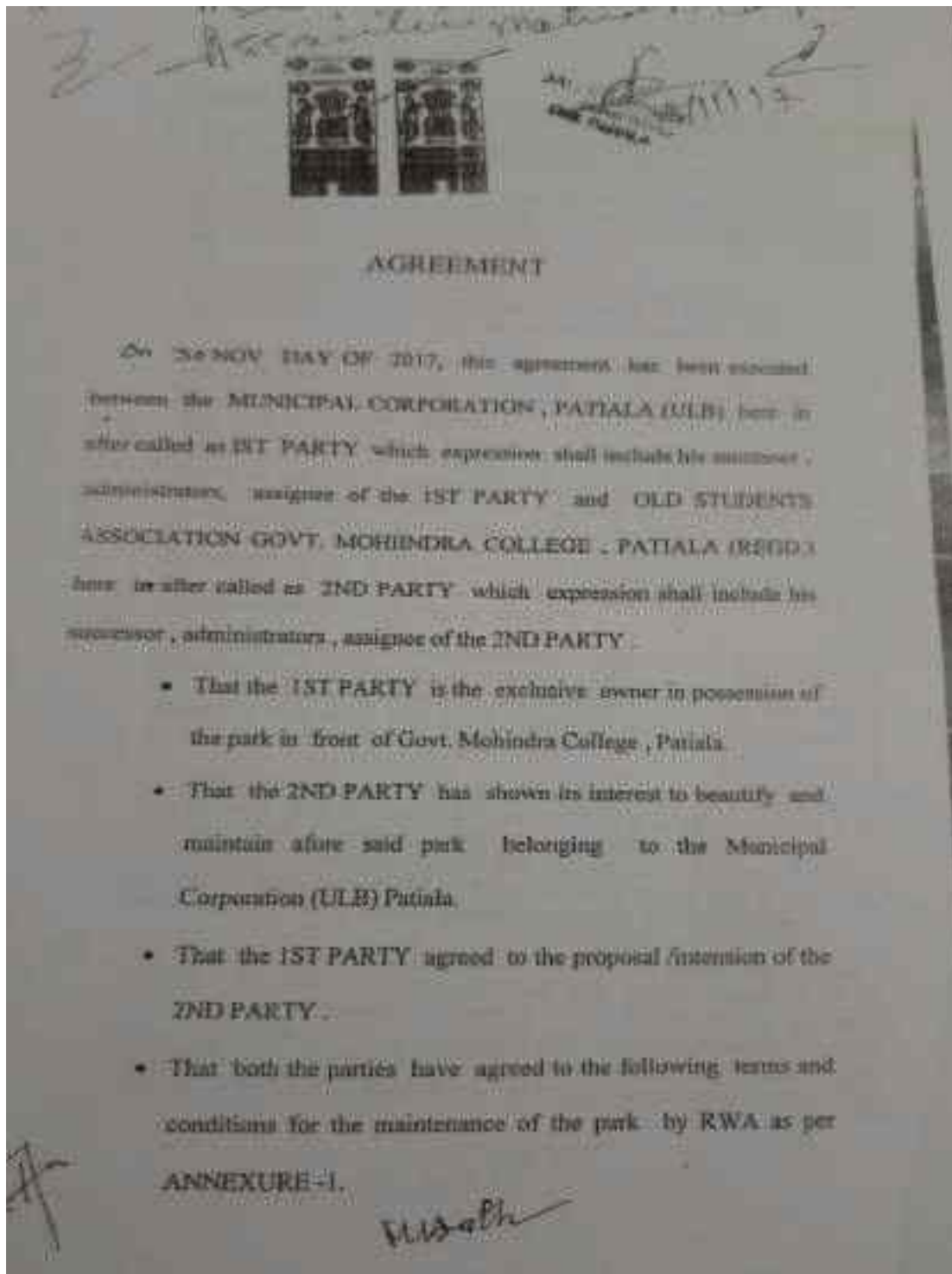
Campaign by OSA for Green Mohindra, Clean Mohindra



Permission of Municipal Park granted to OSA



Agreement letter between OSA & Municipal Cooperation



General Terms and Conditions for the maintenance of Parks by RWA/Welfare

1. Registered Scheme Welfare Association/Registered Body of the Scheme shall only be allowed to take the Maintenance work as per following:-
2. Payment in the Maintenance Agency will be reviewed by 7th of every succeeding Month on certification by the Horticulture officer or any other officer empowered by the Commissioner/Executive officer of the ULB on his case may be on his behalf.
3. That the Registered Body/Welfare Association shall maintain the said Park for satisfaction of Commissioner/Executive officer of the ULB or any other officer empowered on his behalf as per the terms and conditions set herein.
4. The Registered Body/Welfare Association shall not utilize or permit to utilize the said park belonging to ULB for any other purpose whatsoever except to maintain it as green. The Registered Body shall ensure that no encroachment is made in the park.
5. That the ownership control, possession and supervision of said park shall remain with ULB and the Registered Body will only have the right to display its name on a small board of the size not more than 4' x 2' 1/2" as approved by the competent authority or officer empowered by him on his behalf and the number of such boards shall not be more than Four (4) one on each entry on the park, the decision of the or any other officer empowered by him on his behalf shall be final. The inscription on the board shall be approved by the Commissioner/Executive officer of the ULB or any officer empowered by him on his behalf.
6. The Registered body/ Welfare Associations shall not have any right, title or interest in the greeneries of said ULB Parks nor shall it be deemed to have Possession or be considered as being conferred with any right, title or interest in respect of said greeneries/parks except the permission to maintain the said park for a specified period.
7. That the Registered Body/ Welfare Associations shall prominently display that the said park is a ULB park and the fact that the Registered Body Association has only been permitted to maintain the Park.
8. That the Registered Body/ Welfare Associations shall be paid @ Rs. 250/- per square meter per month to be increased 20% per year to cover the entire costs and expenses on the maintenance of the said ULB park.
9. The Registered Body/ Welfare Association shall be solely responsible for keeping the said ULB Park in neat and healthy condition to the satisfaction of Commissioner/Executive officer of the ULB or any other officer empowered by him on his behalf and Association should not permit for holding marriages and functions etc. For holding of Marriages or other religious function, prior approval of Commissioner/Executive officer of the

M. S. K.

- ULB will be mandatory
- vii) That the said ULB Park shall be open to the general public without any restriction fee or prohibition whatsoever. The Registered Body/ Welfare Association shall use the land of the ULB Park only for maintenance of the park and shall not transfer the maintenance of the park to any other person, Society, company, department, organization etc. and the association shall not enter into sub-agreement for maintenance etc. with others.
- viii) That the Registered Body/ Welfare Association shall enter into an agreement for maintenance of the said ULB Park with ULS.
- ix) That in the event of termination of Agreement prior to agreed period or on expiry of period of the agreement for maintenance of the said park, all assets (Movable and immovable) shall vest with ULS.
- x) That the registered Body/ Welfare Association shall not remove or cut any plant, tree, etc. including any other item for the said ULB park.
- xi) That the registered Body/ Welfare Association shall not erect, construct or put any sort of structure, movable or immovable, temporary or permanent or semi-permanent without the written consent of Commissioner/Executive officer of the ULB or any other officer empowered by him on his behalf for the purpose of maintenance of the said ULB Park.
- xii) That in case the Registered Body/ welfare Association wants to install any pipeline etc. for maintenance purpose of park/green space the Registered Body/ Welfare Association shall not do so without the written permission of the Commissioner/Executive officer of the ULB or any other officer empowered by him on his behalf and expenses thereof shall be borne by the Registered Body/ Welfare Association itself and the Registered Body / Welfare Association shall not claim any money, compensation or loss for the same at the time of expiry of the agreement as referred to in para ix here-in-above and the same shall become the property of ULS.
- xiii) That in case of any breach or violation of any terms and conditions of this Agreement for the maintenance of the said park the agreement shall stand terminated and the decision of ULS or any other officer empowered by him on his behalf shall be final. However, before the initiation of termination proceedings the Registered Body/ Welfare Association would be given a 15 days to show cause notice to explain the position.
- xiv) That the Registered Body/ welfare Association will not be entitled to allow any other person to develop the park or any part thereof. Even in the event of winding up the Registered Body/ welfare Association or Registered Body/ welfare Association becoming insolvent or dissolved, the agreement for maintenance of park shall stand terminated automatically and the transferees or assignees etc. maintenance of the said ULB park shall not claim any right title or interests in the said park.
- xv) That the registered Body/ Welfare Association shall be responsible for all damages or loss of property of the said ULB Park due to the reasons for

which it or ^{its} servant are directly responsible and shall be liable to make good any loss or damages that may be sustained by ULB except those due to normal wear and tear or such ^{as} caused by storms, earthquakes or any

calamity beyond its control. The decision of the chairman ULB or any other officer empowered by him on his behalf with regard to the extent and quantum of compensation to be paid to the ULB shall be final and binding upon the Registered Body/ Welfare Association.

- xvii) That all disputes and differences arising out of or in any way touching or concerning the agreement, regarding maintenance of ULB parks otherwise herein before provided for shall be referred to sole arbitration to E.C. Local Government or his nominee. There will be no objection to any such appointment, that the arbitrator so appointed is a government servant or that he had to deal with the matter of which this indenture refers and that during the course of his duties as such Govt. servant has expressed view on all or any other matters in dispute or differences. The award of the arbitrator so appointed shall be final and binding upon the parties.
- xviii) The Registered Body/ Welfare Association shall also abide by all the instructions and order fruit, plants etc, for sale for any commercial use and responsibility of agency to keep the park green & free from all encroachments/misuse etc.
- xviii) The Registered Body/ Welfare Association shall not use the flowers or any other fruit, plants etc, for sale for any commercial use and responsibility of agency to keep the park green from all encroachments/ misuse etc.
- xix) That the ULB will not be responsible or liable for paying any compensation or damages to the Registered Body/ Welfare Association in compensation or damages to the Registered Body/ Welfare Association in case of any loss caused by theft, fire and natural calamities, riots or for any other reason whatsoever. The ULB shall be free to remove or clean the land from all the features created by the agency on termination of the agreement.
- xx) That the ULB shall have no liability (civil or criminal) in respect of any claim of third person against the Registered Body/ Welfare Association in connection with the maintenance of the said ULB park.
- xxi) That the ULB shall have the right to post its supervisors in the said ULB park at their discretion and its officers or authorized representatives shall have access to it at all hours to the said ULB park or any part thereof and the Registered Body/ Welfare Association shall have no objection

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whichever for the same.

- xxv) That the ULB shall be free to use the said ULB park for any purpose whatsoever and the Registered Body/ Welfare Association shall not raise any objection to it on any ground whatsoever.
- xxvi) The ULB shall be competent to dispose off or sell the trees, some and other items, produce etc. of the said ULB park using the assets thereof.
- xxvii) That the stamp duty payable for the execution of the agreement of Maintenance of the said ULB park shall be borne by the Registered Body/ Welfare Association.
- xxviii) In case of loss or damages of any kind of landscaping feature electrical fitting etc. provided by ULB the Association/Registered Body shall be held jointly responsible for making good of the loss or value by the department.
- xxix) In case any dispute arises with ULB, IIC or his nominee shall be Arbitrator & his decision shall be binding on both the parties.

Both the parties signed this agreement in the presence of witness in token of acceptance.

That this agreement is initially for three years and after that it is the discretion of the 1ST party to renew the same or not.

Witness

Ashok Kumar Verma

(Prof. Ashok Kumar Verma)

8-A, Street No. 5, Dusseh Nagar, Patiala

Mob: 98555-09530

Witness

Himinder Singh

Prof. Himinder Singh Tohra

E-152, Omaxe City, Sirhind Road, Patiala

Mob: 98726-71329

M.C. Patiala

1ST Party

(Commissioner M.C. Patiala)

Mohinder Singh Saini

2ND Party

(Mohinder Singh Saini)

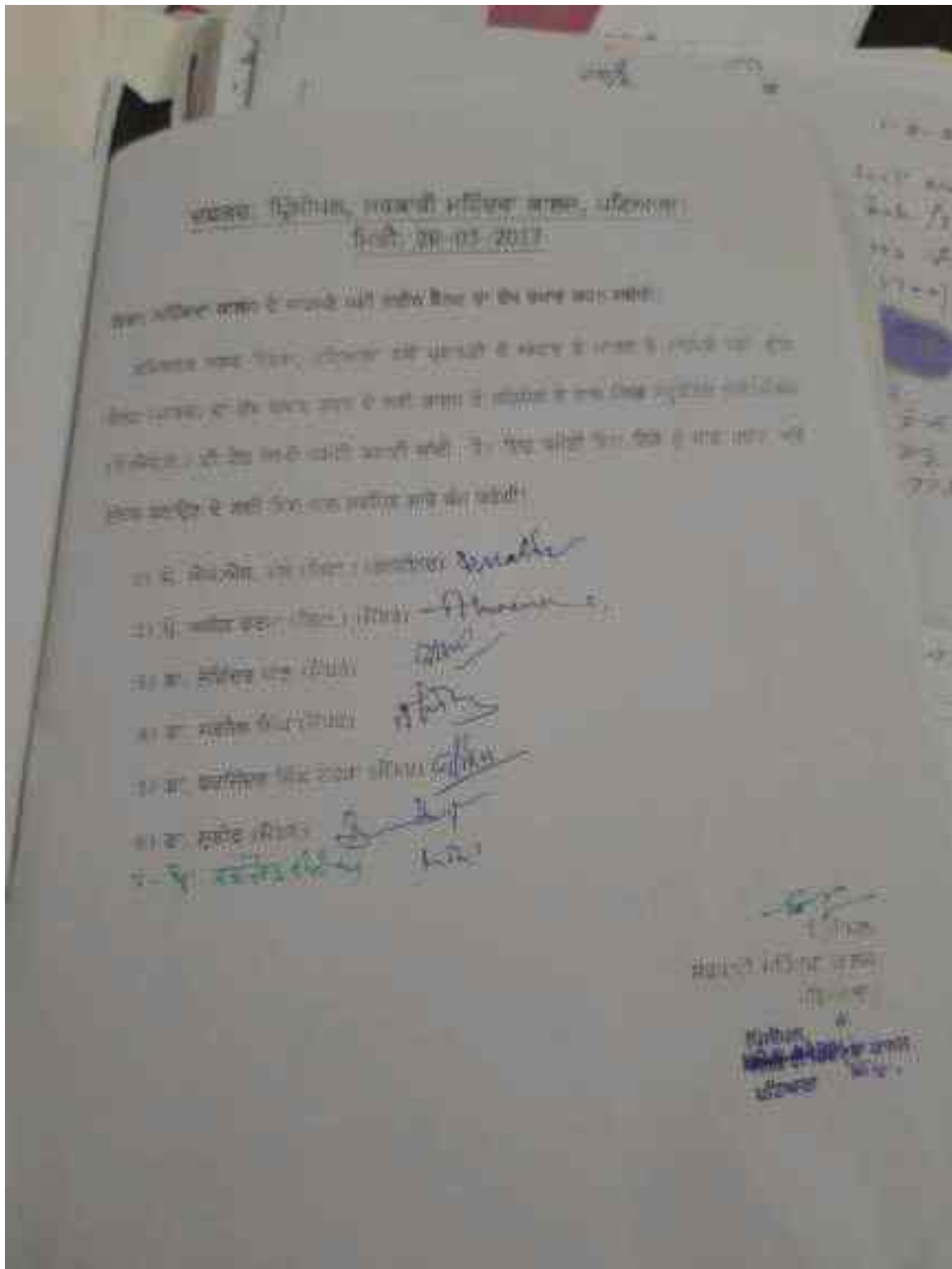
General Secretary

Old Students Association

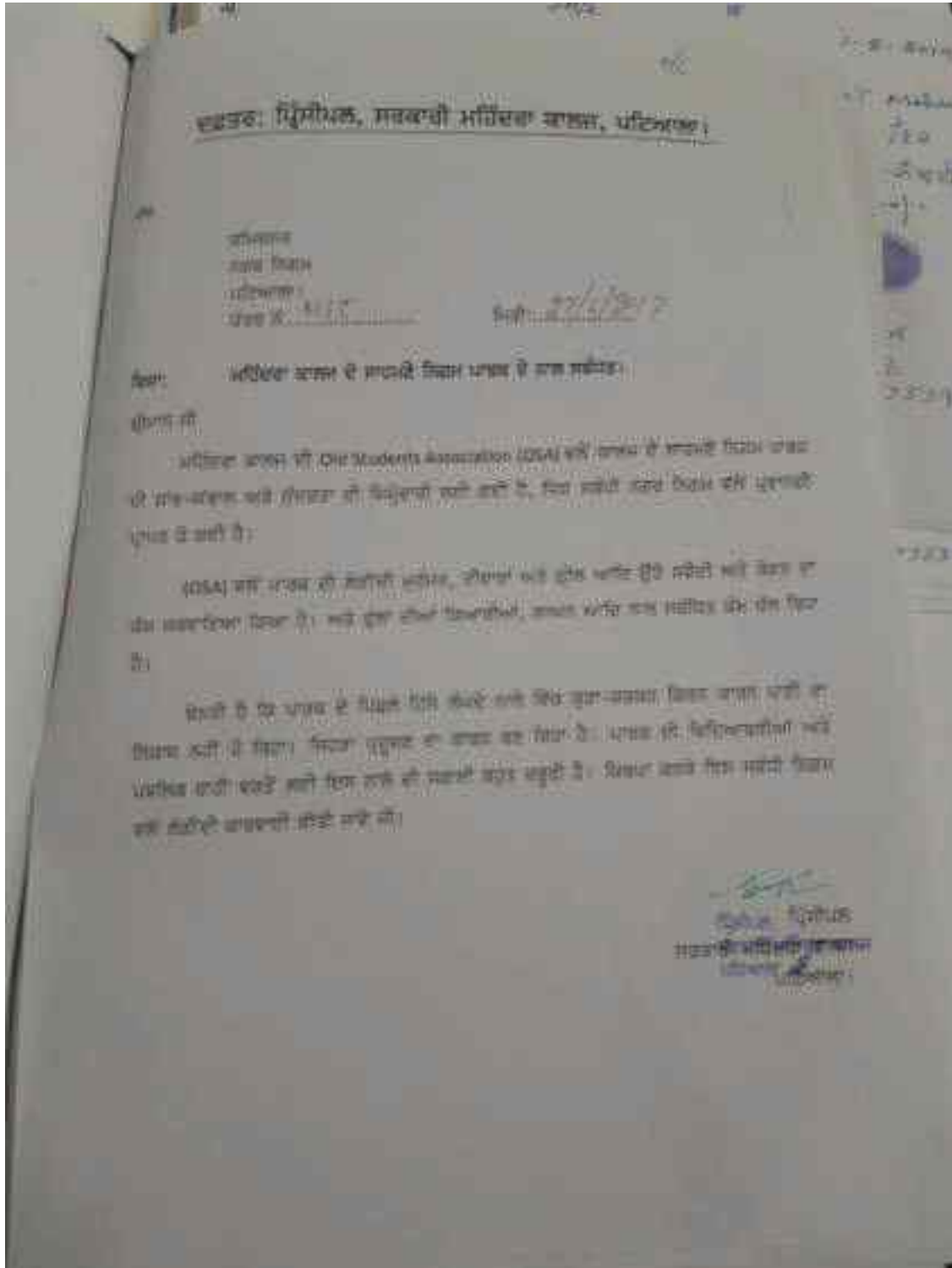
Govt. Mohindra College, Patiala (Regd.)

Mob: 98761-95433

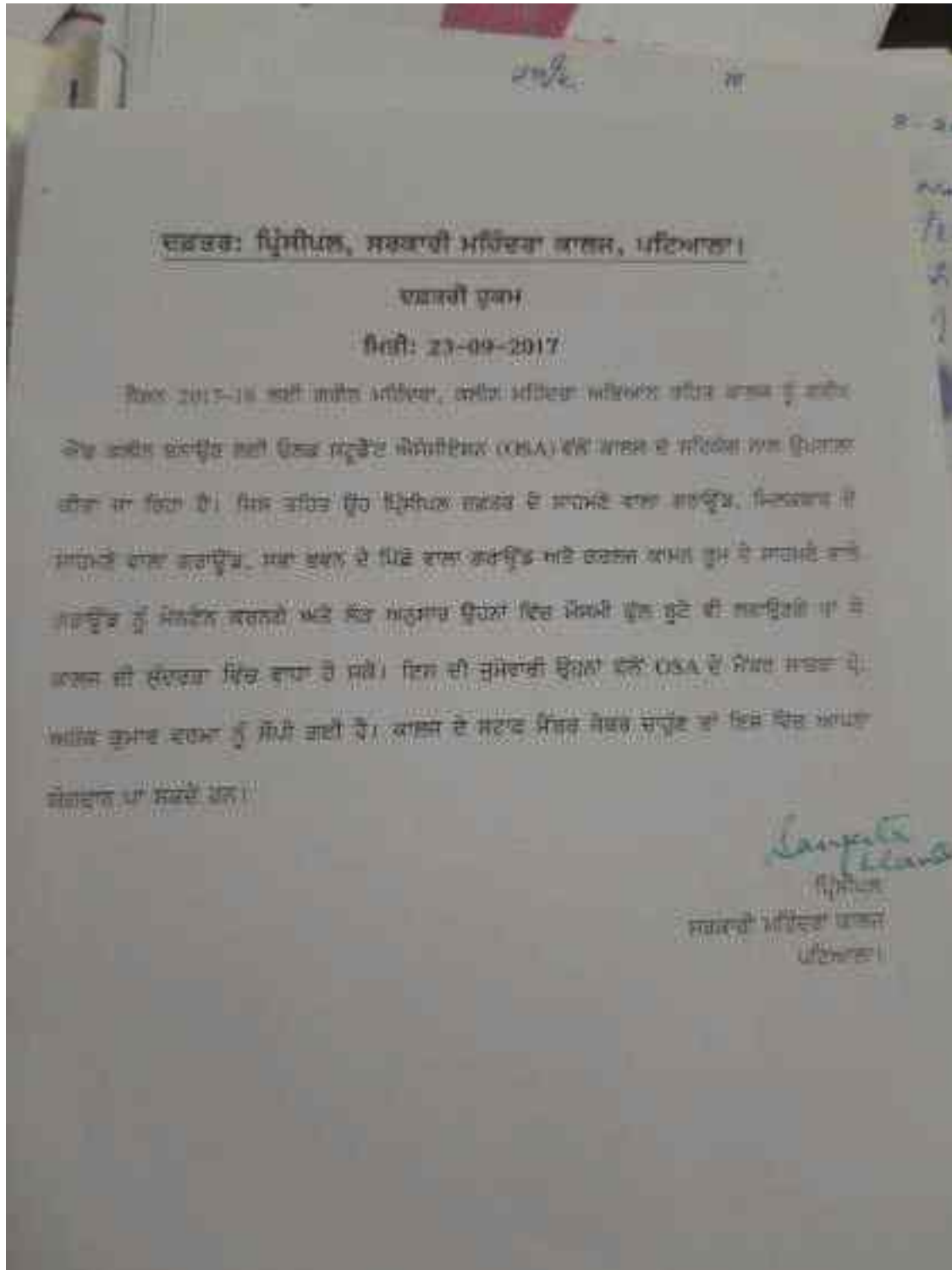
Duties assigned to different OSA members to maintenance the park



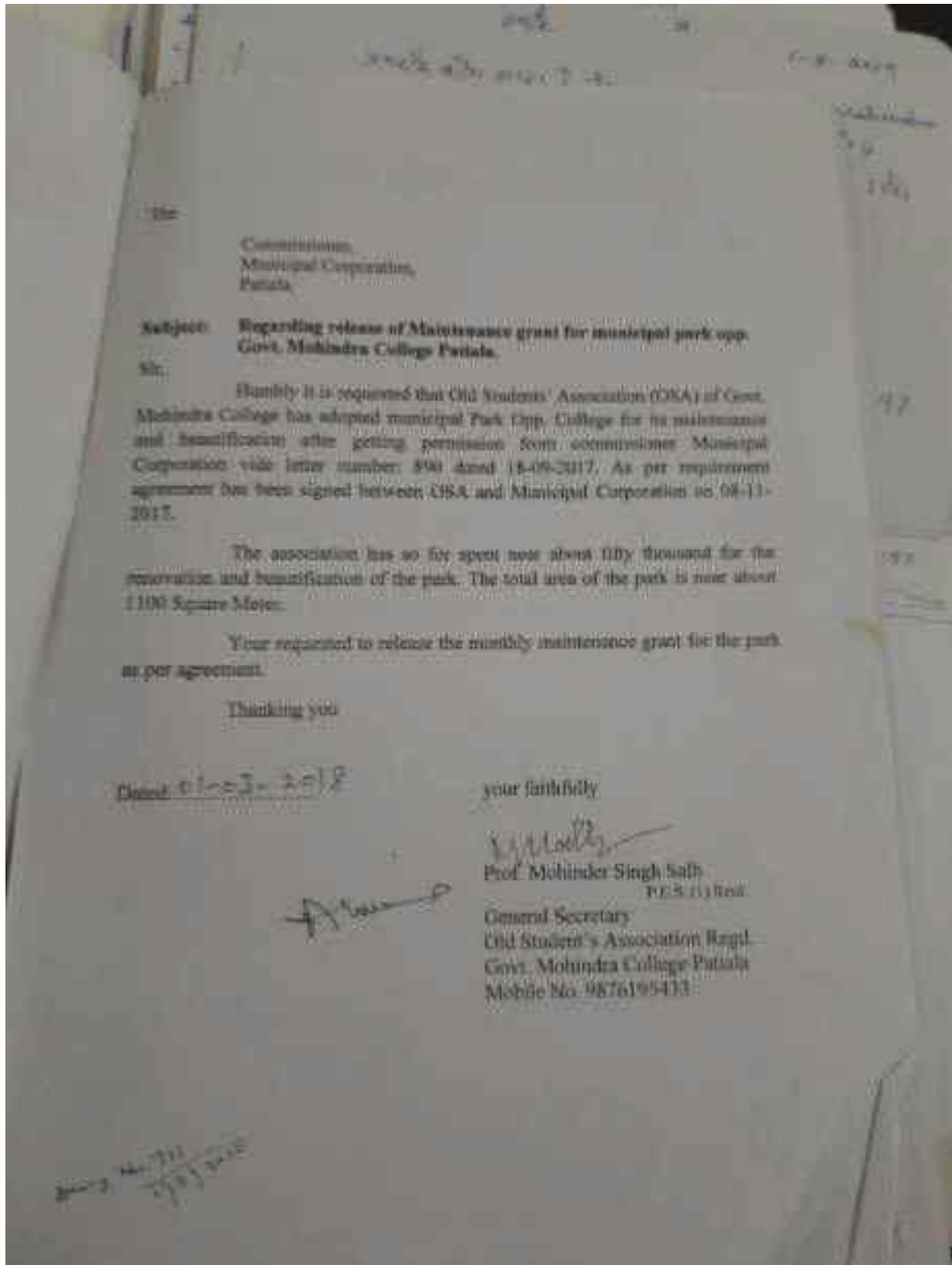
Request for maintain hygiene & Cleanliness by OSA to Municipal Corporation



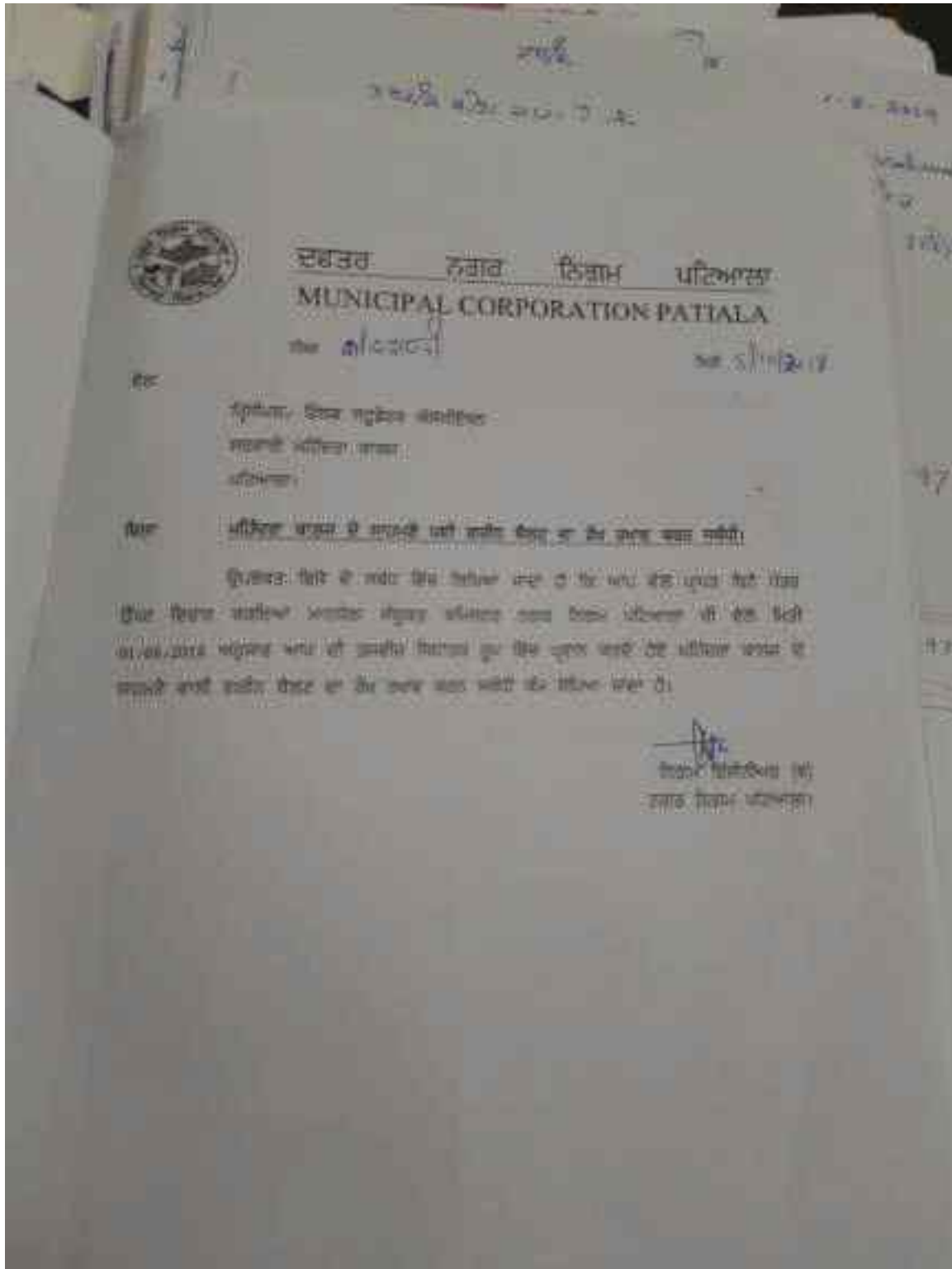
Initiative taken by OSA for Green Mohindra, Clean Mohindra



Request for grant regarding monthly maintenance of park



Letter regarding acceptance of grant request by Municipal Corporation



8. Energy Audit

This Audit has been conducted by Punjab Energy Development Agency (PEDA) through Indona Innovative Solutions. The detailed report will be available in the form of link below.

Sr. No.	Description	Agency	Link
1.	Energy Audit	PEDA	https://www.govtmohindracollege.in/audit/ https://www.govtmohindracollege.in/wp-content/uploads/2023/10/Energy-Audit-Report-Mahindra-College23082023.pdf

9. Green and Environment Audit

This Audit has been conducted by Innovative Energy Conservative Solutions. The detailed report will be available in the form of link below.

Sr. No.	Description	Agency	Link
1.	Green Audit	Innovative Energy Conservative Solutions	https://www.govtmohindracollege.in/audit/ https://www.govtmohindracollege.in/wp-content/uploads/2023/10/Draft-Green-Audit-Report-Mohindra-College-Patiala-21-9-23.pdf

:

INNOVATIVE ENERGY CONSERVATION SOLUTIONS

An ISO 9001:2015/ ISO/IEC 17020:2012/ ISO 14001:2015

Certified Organisation

At: 205, Eco Towers, Shivalik
Enclave Sector 125, Greater
Mohali-140301

E: Pankaj@iecsolutions.in

T: +91-9685613238

DATE

September 21, 2023

PLACE OF WORK: Patiala

No. CERT/2023/09/21

Green & Environment Audit Certificate

Is Issued To:

Government Mohindra College, Patiala

for successful completion of Green & Environment Audit of the College on Date 18/9/23 to 20/9/23, conducted by **M/s Innovative Energy Conservation Solutions**. This Green & Environment Audit included Sectoral Audits i.e., Water, Waste cum Material, Air Quality & Noise, Bio-diversity, outdoor environment, Health & well-being, Activities and Institutional management aspect cover to improve the sustainability and green Environment inside the campus.

The College is certified to have done exceptionally well to conserve energy, environment and ensuring sustainable development for the assessment period.

Date of Issue: 21/09/2023



Innovative Energy Conservation Solutions
Innovative Energy Conservation Solutions
 M. Tech in Environmental & Energy Study
 Certified Energy Auditor CEA-28926

ISO 9001:2015

Certificate No:- 1205Q169822

ISO 14001:2015

Certificate No:- 30S023061338E

ISO/IEC 17020:2012

Certificate Number: QVA-ILHV-23-1322609

Thank You

www.iecsolutions.in
Pankaj Dhote

