

Criterion - 6

Governance, Leadership and Management

NAAC-SSR (2nd Cycle)



ETERNAL UNIVERSITY

BARU SAHIB, SIRMOUR-173101

HIMACHAL PRADESH

6.5.3(5)

Establishment of SDG



ETERNAL UNIVERSITY

BARU SAHIB, SIRMOUR-173101
HIMACHAL PRADESH



ETERNAL UNIVERSITY

(WORLD PEACE THROUGH VALUE BASED EDUCATION)

Established under the Himachal Pradesh Government Act No. 3 of 2009. Recognized by UGC, AICTE, INC, NCTE, DSIR, DRDO and NAAC Accredited

Ref. No. EU/VCO/SDG/88/004

Dated: November 23, 2021

Eternal University, Baru Sahib Under the aegis of The Kalgidhar Trust
Presents an opportunity by
SDG Impact CoE

(In collaboration with the Incubation & Entrepreneurship Cell "Sarbat da Bhala" Lab)

Call for action: To all the innovators & sustainable entrepreneurs for creating a Climate and Environment Sustainability Impact. Be a Change Leader

We invite innovators, our support staff of university and Akal Academy, budding entrepreneurs, students, researchers & teachers to help us **deepen our impact on climate and Environment**. It is specifically with regards to Akal Waste Management facility extension for generating green products and creating more ideas of recyclable products for mainstream distribution.

We invite you to formulate cross-disciplinary teams of researchers, practitioners, High school students, teachers and submit a proposal which pertains to:

1. New recyclable green products
2. New more affordable tech to improve the waste management
3. Awareness Campaigns which can help us create more awareness and replicate the success of our Akal Waste Management beyond our region
 - a. Research proposals,
 - b. Case studies
 - c. Posters
4. Innovative business models which can help us bring the recyclable products to mainstream and connect using e-commerce or other platforms and thus generating more employment opportunities
5. Suggest some revenue sharing models which can empower the employees of Akal Waste Management and lift their economic status while making it viable for the unit to function.

Incubation & Funding support: For the worthy proposals, The Kalgidhar Trust will be promoting the sustainability entrepreneurship value at Eternal University. Under this special Sustainability Impact project, the selected ideas will be provided seed funding and incubation support at Eternal University, Incubation & Entrepreneurship Cell. Ideas with potential to create sustainable impact and which may not qualify for full venture capital funding, will also be supported by all means possible as we want to recognize the careful thought and nurture that idea for a future sustainable initiative.

So come Forward and submit your entries by February 2022. In case, you need help in filling the form, kindly contact at the following email: sarbatdabhala.lab@eternaluniversity.edu.in


Vice Chancellor
Eternal University

Vice Chancellor
Eternal University
Baru Sahib (H.P.) 173101

BARU SAHIB, VIA RAJGARH, DISTT. SIRMOUR, HIMACHAL PRADESH-173101 (INDIA)

Tele: 01799-276012, Fax: 01799-276006, Mob: +91-9805098724

E-mail: contact@eternaluniversity.edu.in, Website: www.eternaluniversity.edu.in



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ENTREPRENEURSHIP & INCUBATION CELL "SARBAT DA BHALA" CHARTER

Eternal University, Baru Sahib under the aegis of The Kalgidhar Trust, aims to create **rural & social transformation** via value-based scientific education.

We recognise Entrepreneurship as a value which offers the best hope of creating equitable societies thereby sustaining the underserved regions and communities as a whole. It is our further belief that nurturing women entrepreneurship will accelerate the much-needed reforms in addressing critical societal and environmental problems.

We have demonstrated consistently in the past with our Village adoption and through various community outreach programs that we have the capacity and required value system in place to take the next leap in the journey of transforming the communities around us. Therefore, to promote sustainable entrepreneurship, Eternal University is establishing an incubation and entrepreneurship cell with an objective to nurture problem solvers, socialpreneurs & innovators driven by sustainability as a core tenet.

We subscribe to the framework of UN SDG (<https://www.undp.org/>) as it resonates with the ideology of "Sarbat Da Bhala" (May all prosper) so, we will derive inspiration from the SDG toolkit and assess the merit of the supporting ventures under the SDG framework. And it is for this reason, we would like to refer to our Entrepreneurship & Incubation Cell as "Sarbat Da Bhala" Lab.

The charter recommends to focus on following areas in the formative years of the Sarbat Da Bhala lab:

1. Create Awareness and basic education workshops to initiate University Students and Faculty onwards for developing the "Entrepreneurial Mindset"
2. Provide necessary infrastructure for a dedicated space which includes computers, workstations, access to internet
3. Create a financial pool to incubate ideas aligned with UN SDG 17 goals
4. Create structured curriculum for educating entrepreneurship across the discipline and make necessary changes to adopt it as a minor
5. Identify opportunities for partnership with the Govt/Non-Govt agencies supporting entrepreneurship and sustainable development.

So, in order to support the incubation and future entrepreneurship, Eternal University will be securing a grant from our founding Trust "The Kalgidhar Trust "towards supporting this cause of sustainable development.


Vice Chancellor
Eternal University

Vice Chancellor
Eternal University
Baru Sahib (H.P.) 173104

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Eternal University, Baru Sahib

(Under the Aegis of The Kalgidhar Trust)



Sustainability Report 2021

UN **SDG 17 Goals** mapping to our impact programs

Our Founding Saints



Sant Attar Singh Ji
(1866-1927)



Sant Teja Singh Ji
(1877-1965)



Baba Iqbal Singh Ji
Former Director
Agriculture-HP,
President-The Kalgidhar
Trust



Late Dr. Khem Singh Gill
Former V.C, PAU
Ludhiana

Our Visionaries

Entire Campus of Eternal University, Baru Sahib, Himachal Pradesh



KEY PROGRAM SUMMARY

PROGRAMS

- ✓ **Akal Institute of Rural Empowerment** – A flagship **Primary Teachers Capacity** building program : **100% tuition & residential aid** targeting **bottom 20%** of family income group
- ✓ **Community Kitchen** to provide **all-day FREE meals** support for over 500+ students & 50+ university staff members
- ✓ **STEM for Girls-** Programming & AI boot camps outreach programs for high school girl students by University Student volunteers & Industry experts
- ✓ **Integrated Farming Workshops** in collaboration with **NABARD**

SDGs



KEY PROGRAM SUMMARY

PROGRAMS

- ✓ **Akal Charitable Hospital: Managed by** Volunteer students & Staff of Akal College of Nursing.
- ✓ **5 Village Adoption by Center of Public Health and administration, Eternal University & MoUs** with local Panchayats to deliver community impact programs in **Women & Child Health, Maternal health, Covid Pandemic support, Nutrition awareness, Sanitation & Cleanliness** drives, **Cognitive & Emotional health** development of child with **special needs**.
- ✓ 13 Villages in five different gram panchayats have been adopted by Dr. Khem Singh Gill Akal College of Agriculture under Mera Gaon Mera Gaurav scheme.
- ✓ **Akal Drug de-addiction Center, Baru Sahib** volunteer managed by Akal College of Health & Allied Sciences.
- ✓ **Dedicated Mental Health Counselling Helpline** for University Students.

SDGs



KEY PROGRAM SUMMARY

PROGRAMS

- ✓ Promoting Green:
- ✓ A policy to only use stationary like file covers & Brochures which are made from recycled waste paper from Akal Waste Management System
- ✓ Promoting Sustainable Energy Solar energy panels for generating renewable energy.
- ✓ Biogas is generated using Cow dung and is used to prepare silage for animals at Akal Dairy Unit.
- ✓ Bio-diversity conservation & Enhancement Program
 - ✓ University Bee-keeping Apiary Unit at Maccher Village
 - ✓ Growth of Herb & Medicinal plants at Botanical garden
 - ✓ Vermicompost units to convert organic waste into manure

SDGs



KEY PROGRAM SUMMARY

PROGRAMS

- ✓ **Conserving Heritage:** Unique distinction of Akal College of Music offering UG/PG in 9 heritage musical instruments – Tanti Saaz to women & thereby also addressing a critical gender inequity in Music
- ✓ **Promoting Spirituality & Peace** via daily performances in Gurmat music & global musical events & World Peace Day Webinars
- ✓ **Achieving 100% employment** of all Music graduates
- ✓ **Promoting a culture of Volunteering & inculcate the values of giving back to community** via several community outreach programs

SDGs





|
Community Development & Women
Empowerment Success Stories

Akal Institute of Rural Women Empowerment (AIRWE) Eternal University



Empowering Rural Women

Akal Elementary Teacher Training Academy at Eternal University empowers **underserved & underrepresented rural women** via **valuebased education**



The Magic

Yearly **500 girls** belonging to low income group with several being orphans are educated from 10th until their graduation in Humanities, Commerce & Music.



Road Ahead

With more than 350 schools to be built this is a unique initiative which is not only transforming lives but also reducing a critical gap of quality teachers in the most remote areas of India

Impact Story : **Sustainability** with livelihood **via value-based education**

- **4,172** teachers employed till date in 129 Akal Academies in Northern India region
- **100% of the students are supported via employments in Schools or at University**
- Program serves low-income families falling into the bottom **10% of household income**
- More than **80%** of these students are **FIRST generation students** in their family
- The Kalgidhar Trust bears expenses of boarding, lodging & training

AKAL Waste Management System– Our CLIMATE Action Towards a sustainable Community

800-1000 Kg/day
Wet Food,
biomedical, paper,
Dairy, plastic

Vermicomposting
Unit



Incinerator

Biogas Digester



Sewage treatment
Plant with capacity
of 10 lakhs liter of
water

Plastic bricks
Making



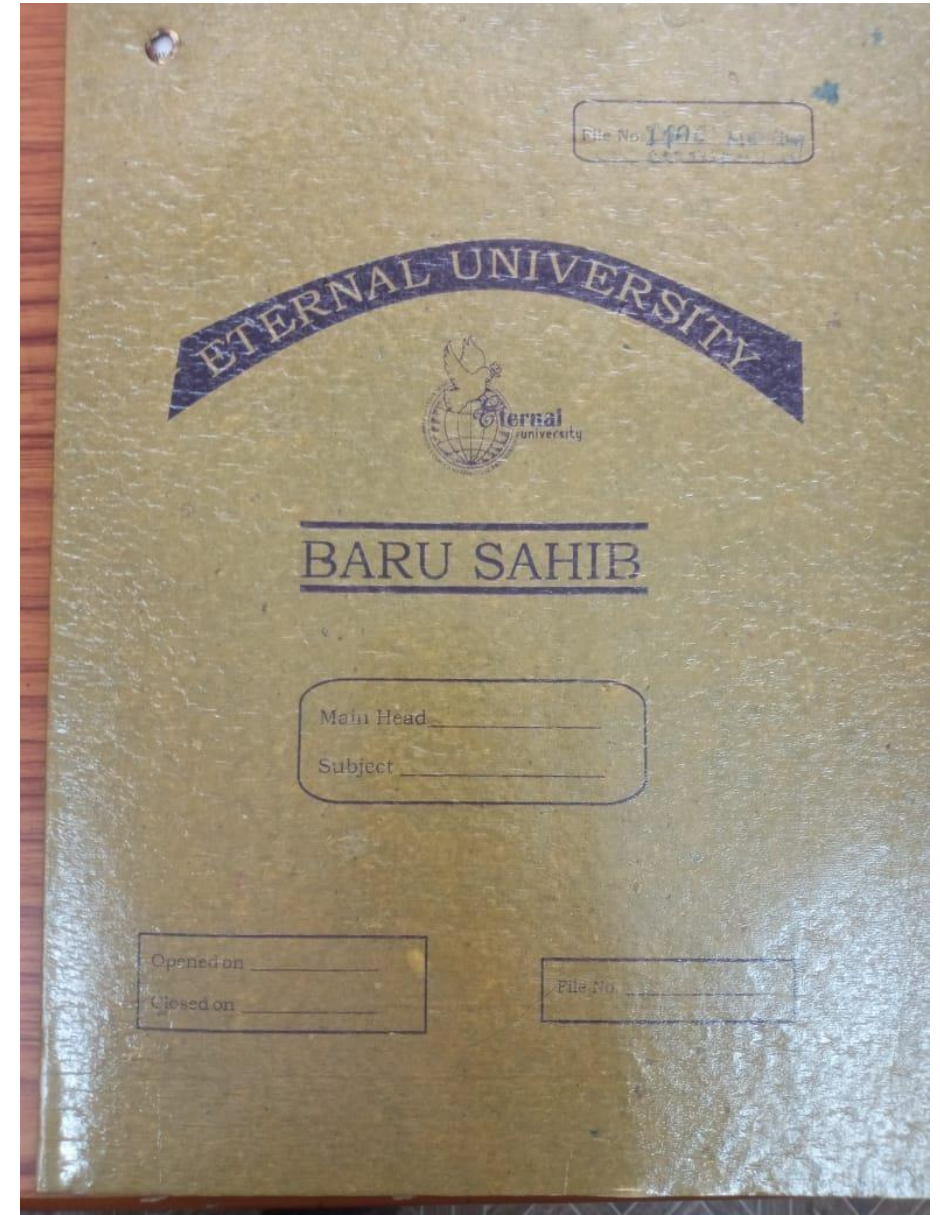
GREEN Pledge: Our CLIMATE Action

Made with waste recycled Paper

By Akal Waste Management Unit

As per green pledge, all our file folder covers are now 100% replaced with the recycled Waste paper and a pilot project is in session to print all brochures on the same paper.

This is a significant step in reducing the carbon footprint by Eternal University and our commitment to Climate Action



Partnership that Matters – IMPACT STORY of SUSTAINABLE Community Impact

Memorandum of Understanding

This Memorandum of Understanding is entered on 10 January, 2019.

Between:

Akal College of Nursing and Centre for Public Health and Healthcare Administration, Akal College of Health and Allied Sciences and Akal College of Education, Eternal University, Baru Sahib, District Sirmour of the one part.

And

Panchayat, Lana Bhalta, Block Pachhad, District Sirmour of the second part.

Each of Akal College of Nursing and Centre for Public Health and Healthcare Administration, Akal College of Health and Allied Sciences and Akal College of Education, Eternal University, Baru Sahib, District Sirmour will be referred to as one party and Panchayat Lana Bhalta Block Pachhad, District Sirmour, will be another Party and collectively both of them will be referred to as Parties.

Preamble

For the improvement of Maternal and Child health, providing health education to mother and children and appropriate schooling to the children, the need for cooperation has been realised by Akal College of Nursing and Centre for Public Health and Healthcare Administration, Akal College of Health and Allied Sciences and Akal College of Education Eternal University Baru Sahib, District Sirmour and Panchayat, Lana Bhalta, Block Pachhad, District Sirmour.

Co-operation between Akal College of Nursing and Centre for Public Health and Healthcare Administration, Akal College of Health and Allied Sciences and Akal College of Education, Eternal University, Baru Sahib and Panchayat, Lana Bhalta, Block Pachhad, District Sirmour.

To formalize this co-operation, it has been agreed to sign a Memorandum of Understanding (MoU) between Akal College of Nursing and Centre for Public Health and Healthcare Administration, Akal College of Health and Allied Sciences and Akal College of Education Eternal University Baru Sahib and Panchayat Lana Bhalta, Block Pachhad, District Sirmour:

- Akal College of Nursing will undertake responsibility for providing consultation to Panchayat Lana Bhalta for Women and Child health and will suggest new interventions for the improvement of the same as required.
- Centre for Public Health and Health Care Administration will generate awareness on the nutritional requirements of pregnant and lactating mothers and children under five years of age in the wards covered by Panchayat Lana Bhalta.
- Centre for Public Health and Health Care Administration will also provide health education to adolescent girls in the wards covered by Panchayat Lana Bhalta for maintaining their nutritional status and menstrual hygiene.
- Akal College of Education will undertake responsibility for providing consultation on best education practises for the child population in the wards covered by Panchayat, Lana Bhalta.
- Akal College of Education will also work in close collaboration with Panchayat Lana Bhalta for cognitive, emotional and mental development of the children with special needs.

- Akal College of Education will safeguard the admission of students in Akal Model School (for which it acts as a consulting body) residing in the wards covered by Panchayat Lana Bhalta.
- All the parties will jointly administrate projects with both long term and short-term goals, keeping in view the interests and philosophies of both the parties.
- The MoU shall remain valid for a period of five years w.e.f. the date of signing and shall be extendable further on mutual consent.

Areas of co-operation

The areas of co-operation will be defined and modified from time to time by mutual decision of both the parties.

Seal of parties

This MoU has been executed in two originals; one of these has been retained by Panchayat, Lana Bhalta, Block Pachhad, District Sirmour and the other by Akal College of Nursing, Centre for Public Health and Healthcare Administration, Akal College of Health and Allied Sciences and Akal College of Education, Eternal University, Baru Sahib, District Sirmour.

For and on Behalf of Panchayat, Lana Bhalta

Signed by:

(.....)
प्रधान
ग्राम पंचायत लाना भलटा
डा. छयाव त. पच्छाद
जि. सिरमौर (हि.प्र.)

Panchayat, Lana Bhalta

Witness:

(.....)
BAKHSISH SINGH

For and on Behalf of Akal College of Health and Allied Sciences and Akal College of Education

Signed by:

(.....)
Dr. Neelam Kaur
Dean of Faculty
Health Sciences
Eternal University
Baru Sahib (H.P.)

Dean

Akal College of Health and Allied Sciences
and Akal College of Education, Eternal
University, Baru Sahib, District Sirmour

Witness:

(.....)
DR. SAHIBSINGH ADVANI

कार्यालय ग्राम पंचायत लाना भलटा

विकास खण्ड व त० पच्छाद, जिला सिरमौर (हि०प्र०)

प्रधान
रूपिन्द्र कौर

क्रमांक: -

दिनांक:- 20/08/2020

LETTER OF APPRECIATION

The Panchayat Lana Bhalta extends its appreciation to the Centre for Public Health and Healthcare Administration, Eternal University, Baru Sahib for its guidance and extending its scientific temperament for sanitation and cleanliness in the wards governed by the Panchayat. The Panchayat Lana Bhalta was awarded the Deen Dayal Upadhyay Panchayat Sashaktikaran Puraskar 2020 for sanitation at the National Level. A considerable credit for the same goes to the consultation provided by Centre for Public Health and Healthcare Administration, Eternal University, Baru Sahib.

प्रधान,

ग्राम पंचायत लाना भलटा

जिला-सिरमौर (हि.प्र.)

(.....)
प्रधान
ग्राम पंचायत लाना भलटा
डा. छयाव त. पच्छाद
जि. सिरमौर (हि.प्र.)

Sustainable Development Goals & Universities: Way Forward

National Conference on Sustainability



Key Action & Pledges

- Eternal University will further develop the Sustainable initiatives like Waste Management, Rural Agriculture empowerment & Gender Upliftment via partnerships like IRMA, SED industries
- EU will establish more formal mechanisms and programs to create awareness in community for SDG goals and bring to the front the already significant impact programs like Poverty alleviation, Food security & uplifting the underserved
- EU will create Carbon offsetting projects & invite the corporates and organization to contribute in reducing the overall carbon footprint

National Conference on Sustainability

Theme: Methods, Practices & Adaptation-Indian Perspective



The conference was organised through **nine different sessions** which included inaugural, valedictory and seven technical sessions. More than 100 participants including faculty members, research scholars and postgraduate students from various colleges of Eternal University participated on the above theme about Sustainable Development Goals (SDGs).

Sustainable Development Goals & Universities: Way Forward

Poster Competition from biodegradable wastes



HOME ABOUT US COURSES ADMISSIONS RESEARCH & FACILITIES STUDENT ZONE

Sustainable Development Goals & Universities: Way Forward

1. Poster Competition (23 rd October, 2021)

A total of 91 EU students participated and prepared Hand- made Posters on the chart papers (developed from biodegradable wastes) and depicted different SDGs through their art and painting.

2. A Talk by Dr. N.P. Singh on Sustainable Development Goals & Universities: Way Forward (27 th October 2021)

A seminar was delivered by Dr. N.P. Singh on the Topic Sustainable Development Goals & Universities: Way Forward in which the role of University was comprehensively explained in achieving sustainable goals. Hon'ble Vice Chancellor Dr. Davinder Singh reiterated the need of sharing the resources and helping the neediest. At the end of the event, Dr. Pritesh Vyas, Chairman of the SDG committee delivered his Vote of Thanks.



Sustainable Development Goals & Universities: Way Forward

Climate Action & Deliberations on SDGs



Eternal University Baru Sahib organized a workshop on "Fabrication of Low Cost Solar Drying System"

International Ozone Day

celebration programme at Eternal University

INVITATION
For
International Ozone Day
September 16, 2021

Eternal University, Baru Sahib celebrating International Ozone Day
Venue: EU Auditorium Time: 9:40 AM

Convenor	Organising Secretary	Resource Person
 Dr. A. S. Ahluwalia Pro-vice Chancellor Eternal University, Baru Sahib	 Dr. Mahesh Tripathi Assistant Professor (Agri. Engg.) Eternal University, Baru Sahib	 Dr. Madhoolika Agrawal FNA, FNASc, FNAAS, Professor, BHU, Varanasi

Sustainable Development Goals & Universities: Way Forward

Integrated Farming ~~FREE~~training for Local & Marginal Farmers – Impacting Poverty

5-days targeted training program impacting **40 local small & marginal farmers** was organized at the premises of Eternal University in collaboration with **NABARD** entitled “Integrated Farming System with Allied Sectors for Socio- economic Upliftment of Rural Farmer Families of Himachal Pradesh”.

The training was given on enterprises as:

- Dairy farming
- Vermicomposting
- Silage making
- Horticultural/Agricultural farming
- Food processing
- Rain water harvesting.

2nd Farmer's Training

NABARD sponsored 5 days On-Campus Training Program



2nd Farmer's Training

5-days training program was organised at the premises of Eternal University under the NABARD sponsored project entitled “Integrated Farming System with Allied Sectors for Socio-economic Upliftment of Rural Farmer Families of Himachal Pradesh”. In this program demonstration was given to the farmers on Integrated Farming Model (IFS) at University farm. IFS represent an appropriate combination of farm enterprises. The waste material of one enterprise is used as input for the productive functioning of other enterprise. This is an effective strategy in raising incomes, generating employment and alleviating poverty among small and marginal farmers. The training was given on enterprises as dairy farming, vermicomposting, silage making, horticultural/agricultural farming, food processing and water harvesting. It will impart awareness and new learnings to the local farmers of this area. These trainings were for 05 days with 40 participants and also including one day exposure visit to UHF, Nouni.

Development of biofortified wheat with high grain iron and zinc for alleviating hidden hunger

About two billion people of the world dependent on staple cereal and tuber food crops are suffering from iron and zinc micronutrient deficiency. The project proposal was aimed at alleviating the micronutrient deficiency through biofortification of wheat cultivars for higher grain iron and zinc content. A number of related wild progenitor and non-progenitor species possessing high grain iron and zinc had been identified and their chromosomes carrying the genes for micronutrient uptake, translocation and sequestration introgressed into elite wheat cultivars as alien transfers, substitution and addition lines through wide hybridization and molecular cytogenetic approaches. Such derivatives were used for dissecting the alien genomes for detailed investigation of the pathways and genes leading to high grain iron, zinc and other micronutrients. Wheat cultivars with different small alien transfers controlling high grain iron and/or zinc without any appreciable linkage drag were used for pyramiding and development of cultivars with higher grain micronutrients for meeting the RDA of the micronutrients. Such biofortified cultivars can be further used for studies for enhancing bioavailability of the micronutrients and cloning genes affecting grain micronutrient concentration.



Achievements:

The wheat-*Aegilops* derivatives with high grain micronutrient have mostly the substitution/addition of group 2 and 7 chromosomes indicating that the most of the genes for micronutrients uptake/translocation/seed sequestration are on these chromosomes as reported in QTL mapping studies.

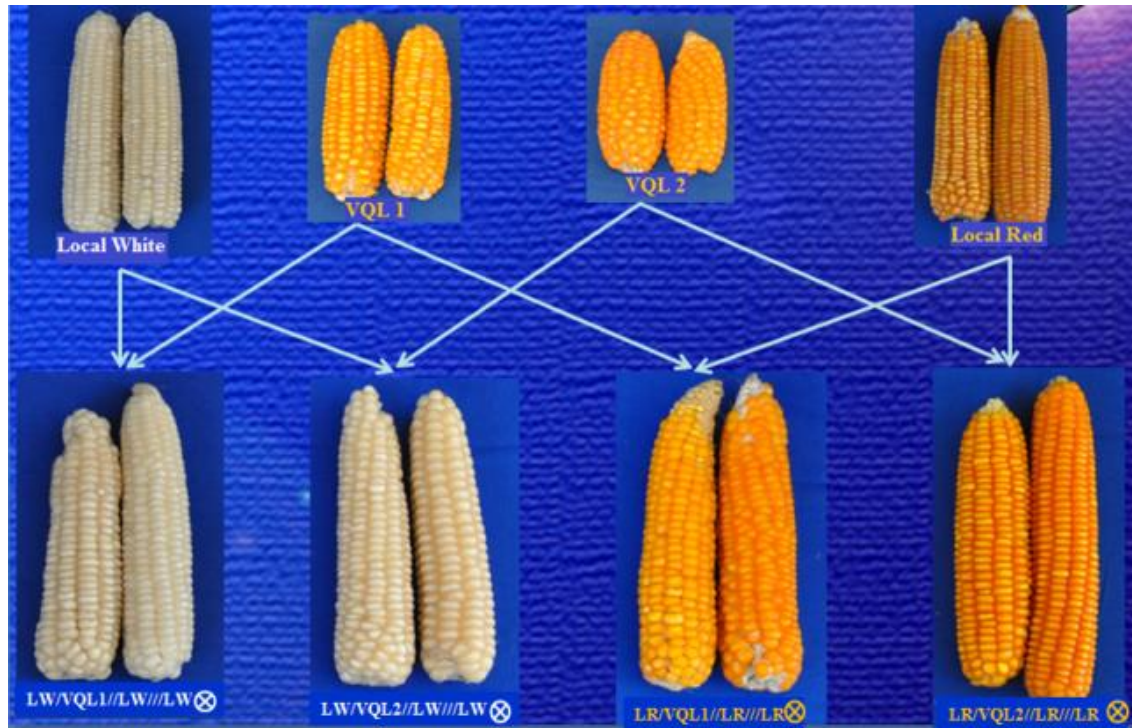
Most of these alien-*Aegilops* chromosomes in the addition/substitution lines having high micronutrient content have been transferred to high yielding and rust resistant backgrounds of predominant wheat cultivar PBW343 *LrYr*.

Appropriate crosses of most of the wheat-*Aegilops* derivatives have been made with *ph1bph1b* stock or through their pollen irradiation for fine transfer of useful variability with reduced linkage drag.

Analysis of intron targeted amplified polymorphic (ITAP) markers confirmed the precise transfers of the genes for micronutrients uptake/translocation/seed sequestration from *Aegilops* species.

Development of Maize lines with high protein content and popping volume

Maize (*Zea mays* L.) is a major cereal crop for livestock feed, human consumption and several industrial uses as well. Because of all these benefits, maize has become a choice among major crops for farmers in developing countries. But maize is deficient in lysine and tryptophan. Deficiency of these two amino acids causes some of the fatal diseases like pellagra, kwashiorkor etc and also malfunctions due to lack of proteins. Genotypes with *opaque 2* (*o2*) allele and *o2* modifiers having increased lysine and tryptophan level but without the negative effect of soft endosperm were developed and termed as 'Quality Protein Maize' (QPM). Here in Eternal University we have developed maize lines with high protein content (high Lysine and Tryptophan amino acids) and popping volume in the local white and local red background using molecular breeding.



Development of Maize lines with high protein content.



Development of Maize lines with high popping volume



Sustainable Development Goals & Universities: Way Forward

Sustainable Agriculture

Akal College of Economics, Commerce and Management, Eternal University, Baru Sahib and HP Crop Diversification Promotion (HPCDP-JICA-ODA) Project, Hamirpur jointly organized two days seminar sponsored by ICSSR, North-West Regional Centre, Chandigarh on **Agriculture Diversification and Vulnerability of Climate Change for Sustainable Food Security and Livelihoods in North-Western Himalayas** on 25-26th March, 2019.

In all, 13 research papers and 2 progressive farmers' success stories were presented and thoroughly discussed during different technical session with focus on

- Diversification of crops with high nutritional values
- Impact of different levels of crop diversification on cropping pattern
- Income & employment generation;
- Current status of agriculture diversification and problems and prospects of crop diversification in horticulture farming of H.P

Agriculture Diversification and Vulnerability of Climate Change for

Livelihoods in North-Western Himalayas



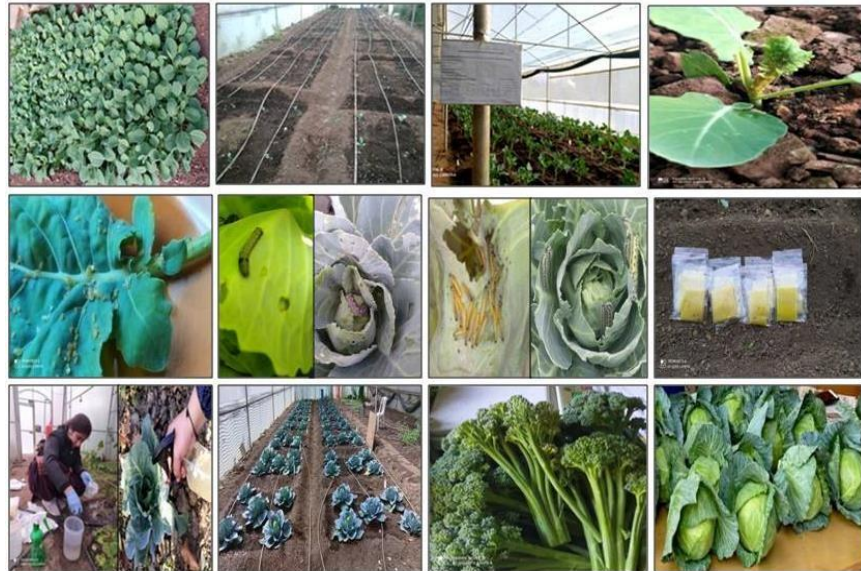
Sustainable Development Goals & Universities: Way Forward

Sustainable Agriculture

Research and Development Related to Sustainable Development Goals (SDGs) on Organic Farming (Department of Zoology)

The major industry responsible for fulfilling the nutritional requirement of every person is the agricultural industry. But the major challenge in the agricultural industry is the crop losses due to attack of insect pests. We are working over the biocontrol attribute of entomopathogenic nematodes (EPNs) against various lepidopteran insect pests since 2019 at Eternal University Baru Sahib, Tehsil Pachhad, District Sirmour, Himachal Pradesh. EPNs were isolated from the soil of fruit orchards from various districts of Himachal Pradesh. Bio-formulations were prepared in the form of sponge stock as a liquid formulation. Various bioassay studies were performed in the laboratory to instigate the insecticidal potential of these isolated EPNs.

After getting the successful results under the laboratory bioassay studies, these EPNs were then applied against the lepidopteran insect pests under protected cultivation. Application of these EPNs has been found as an excellent approach in the field of sustainability. The EPNs are highly virulent, easy for application, safe for non-target animals and are the best alternative in comparison to harmful chemical insecticides. Under the protected cultivation sponge stock formulation of EPNs were applied against the insect pests of cabbage and broccoli. These EPNs were proved as a brilliant source of biocontrol agents than harmful chemical insecticides, in managing the insect pest's population. The produce thus recovered was organic and is free from chemical residue. Even studies were going on in the Department to evaluate the insecticidal potential of these biocontrol agents in the open field also. The application of nematode based formulations will become a boon to the local farmers of this region, for the management of wide range of insect pests.



APPLICATION OF BIOPESTICIDE (EPNS) UNDER PROTECTED CULTIVATION

Extension Activities report on field trail at farmer's field

Field trail at farmer's field under Department of Science and technology (DST) sponsored project entitled "Application of indigenous entomopathogenic nematodes as biocontrol agents for the management of insect pests of tomato (SP/YO/506/2018-G)"
Name: Dr. Neelam Thakur

Demonstration location: Village Pab (Wasni), Sirmour

Number of participants: 15-20 farmers

Date: 23rd & 24th August, 2021



Sustainable Development Goals & Universities: Way Forward

Sustainable Agriculture

Research and Development Related to Sustainable Development Goals (SDGs) on Vermicomposting (Department of Zoology)

Eternal University, Baru Sahib is the first girls University of Northern India located in the Sirmour district of Himachal Pradesh. It is an academic institution with an emphasis on research work that helps in upliftment of the rural people in district Sirmour of Himachal Pradesh. The faculties and students of this university have adopted 5 village Panchayats of Sirmour district under Unnat Bharat Abhiyan for extension services, training and transfer of latest technology among the villagers for their inclusive development. Keeping this in view, our University has established two “**Vermicompost Units**” each of approximately 20x20 feet. In these units, we are using *Eisenia fetida* species of earthworm for conversion of organic waste into compost. This species of earthworm is considered as the most promising species for decaying organic matter in a less time. We are providing training to Agricultural students and to local farmers on the process of making vermicompost from organic waste materials. We are also organising on campus training programmes for local farmers and during these trainings farmers were made aware about the uses of bio fertilizers (compost) which is economically viable and sustainable.



UNIVERSITY VERMICOMPOST UNIT AT KAKHLI

Research and Development Related to Sustainable Development Goals (SDGs) on Beekeeping (Department of Zoology)

We have established beekeeping “**Apiary Unit**” in 2017-2018 at Eternal University Baru Sahib, Tehsil Pachhad, District Sirmour of Himachal Pradesh with 10 bee hives boxes of European honey bee (*Apis mellifera*) especially to meet the SDGs as it is mainly focused on socio-economic upliftment of rural farmers as well as maintained the environmental sustainability. Due to quality production, our honey is in huge demand but production cannot meet the demand thus we expanded this unit.

The main products of beekeeping are honey, bees wax, propolis, royal jelly and pollen. Bee products, especially honey is an important source of nutrition, medicine and additional enterprise to the farmers to generate extra income. Small farmers consider honey as a cash crop instead of a product for home consumption. The nearby areas of Eternal University have large proportion of unapproachable lands for agriculture and are covered with various types of medicinal plants and wild flowers that make this part of the region a high potential area for beekeeping. During on campus beekeeping training programmes, local farmers were made aware about the production of high quality wax and honey using local technology. When beekeepers were taught about the value of 'bee-loving' trees and the bees' pollination activities, they were more willing to preserve forest habitat intact thus reducing erosion and landslides which are common in this steeply mountainous area. Beekeeping is a sustainable resource-based farming system without negative impact on ecology, agricultural activities and resource conservation programs.



UNIVERSITY BEEKEEPING APIARY UNIT AT MACHHER

Sustainable Development Goals & Universities: Way Forward

Sustainable Energy : Focus on Renewable Energy



Solar and Smart Energy Systems for Sustainable Environment

Akal College of Engineering and Technology, Eternal University, Baru Sahib organized a National Workshop on "Solar and Smart Energy Systems for Sustainable Environment" on 6-7 April 2018. This workshop began with inaugural speech of Baba Iqbal Singh Ji, Hon'ble Chancellor of Eternal University and other expert lectures. More than 130 delegates will come for participating this workshop. This workshop covered theoretical and hands-on experience on Solar Photo-voltic, Solar Thermal Energy Conversion and Storage Devices, Smart Grid, Energy Management and Audit.

Sustainable Development Goals & Universities: Way Forward

Sustainable Agriculture & Climate Awareness

Plantations Drives



Plantation Drive was conducted in Akal College of Education on 6th April, 2019 under Eco Club. All B.Ed. trainees participated in it by planting plants near road. The objective of it was to create environment awareness among students and at the same time making our earth pollution free

Kisan Mela-2019

Kisan Mela-2019



The Akal College of Agriculture, Eternal University organized the annual 4th Kisan Mela on April 14, 2019. Hon'ble Sh. Rakesh Kanwar (IAS), Director-cum- Ex-Officio-Spl. Secretary, Panchayati Raj Department, Govt. of Himachal Pradesh was the Chief Guest of the occasion

Sustainable Development Goals & Universities: Way Forward

Impact Story for Women Empowerment through value-based Education

Vaishali Panwar
Age: 24 Years

**VILLAGE SARPANCH,
PANCHAYAT NARANG**

BSc.(Hons)Agriculture
Eternal Univesity,
Baru Sahib

**Member of Disha Committee
District Sirmaur, Himachal Pradesh**



Meet the Entrepreneur

Technology can be liberating !

**Mandeep Kaur, Age 22 years
Btech Comp Science bagged a plush job
with highest package in a product based
company.**

**But she wanted to solve a problem for
the region and hence created a non-
profit startup called Techshilla ,Baru
Sahib incubated at Eternal University
with the aim of skilling the girls in
programming while creating a Volunteer
chain of girl students to sustain it**





Eternal University
Girls High School Outreach program
Techshilla, Baru Sahib



Python Coding Bootcamp For Akal Academy Girls



Every
Saturday



4 PM- 6:30
PM

By Invitation : Girl Students of
Akal Academy , BaruSahib
www.eternaluniversity.edu.in



Arshita Maini
Volunteer Mentor, Techshilla
BTech (CSE)



Sukhjeet Kaur
Volunteer Mentor, Techshilla
BTech (CSE)



Mandeep Kaur
(Founder TechShilla.org)
Techshilla is 1st Startup
incubated at Eternal
University, BaruSahib
By Alumni

Eternal University

