A Nature-based Social Emotional Learning Program for School Teachers and Educators

INTERNSHIP REPORT

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Declaration by the student

I certify that

- The work contained in report is original and has been done by myself under the supervision of my supervisor.
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Certificate

This is to certify that the "A Nature-based Social Emotional Learning Program for School Teachers and Educators" submitted by Priyanka Prakash (2021MSCES14) is the work done by her submitted during academic year, is in partial fulfillment of the requirements for the award of the degree of MSc Environmental Studies (Conservation Practice).

Supervisor Name: Vena Kapoor Date: 18-08-2023

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Supervisor Name: Dr. Shrinivas Badiger Date: 18-08-2023 Place: Bengaluru, Karnataka This work is dedicated to

My grandmother, Padmavati, who has always inspired me with her unconditional love and compassion towards all... And to my parents and sister, for their unwavering support.

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III. LIST OF ABBREVIATIONS

- EVS Environmental Studies
- SEL Social-Emotional Learning
- CASEL Collaborative for Academic, Social and Emotional Learning
- MoEF Ministry of Environment and Forests
- EE Environment Education
- NCERT National Council for Educational Research and Training
- CBSE Central Board of Secondary Education
- IGSCE -- International General Certificate of Secondary Education
- ICSE -- Indian Certificate of Secondary Education
- **IB** International Baccalaureate
- NCF* National Curriculum Framework
- NEP National Education Policy
- NCF Nature Conservation Foundation
- EPE Education and Public Engagement
- NGO Non-Governmental Organization
- DIET District Institute for Education and Training

IV. ABSTRACT

Environmental education in India has evolved, drawing from ancient tradition knowledge systems that are deeply rooted with the concept of nature connection. Post-independence, it gained institutional focus with curricular integration. Several challenges continue to persist, such as lack of teacher expertise, curriculum implementation, resource and time availability etc. Recent frameworks emphasize interdisciplinary and socio-emotional learning, but bridging gaps between theory and practice remains vital for nurturing an environmentally connected society.

The motivations behind this internship included gaining awareness about environment education's relevance, understanding EVS curriculum implementation, exploring teachers' roles, understanding the contributions of external organizations and educators, and learning diverse pedagogical approaches employed for effective environment education. The roles undertaken during this period aligned with Nature Classroom programme's work arms-entailing research and program development, resource creation, workshops, and communications.

Research and program development initiative focused on a nature-based Social-Emotional Learning (SEL) program for school teachers and educators. This involved integrating existing SEL frameworks with nature learning, with an aim to create a program that fosters teachers' emotional health, deepening their connection with nature in turn influencing environmental education in classrooms.

The literature review examines the relevance of SEL and its five core competencies, showing how SEL positively impacts both students and teachers. It discusses the role of teachers in complex educational systems, the challenges they face, and how their emotions influence teaching practices. Moreover, it highlights the significance of nature in enhancing mental wellbeing, emphasizing connections between nature and human emotions.

The work description details the development of the nature-based SEL program's framework, its phases, collaborations and partnerships, and the organizing of a pilot workshop for preliminary assessment of the program. It also describes other areas of work which include - resource development, training workshops, and communications.

The key findings highlight outcomes from the interviews conducted and the ongoing pilot program, revealing teachers' challenges, emotional experiences, and perceptions about environment education. Challenges such as modes of assessments, institutionalization, incorporation of language diversity, and time constraints are discussed. The personal reflections touch on the impact of working directly with teachers, addressing the interlinkages between mental health and nature, and design process intricacies.

The summary section emphasizes on the emotional motivation driving environmental conservation and the necessity of incorporating emotions and values into education. The long-term vision for the work is to expand perceptions about environmental education, integrating social-emotional learning, and nurturing a caring relationship with nature. The conclusion underscores holistic integration of environmental education within conservation efforts, by actively involving teachers and students, which can support the fostering of a profound connection between people and nature.

V. INTRODUCTION

5.1. Unfolding Environment Education

India's traditional knowledge systems have been deeply intertwined with nature with some of the earliest understandings from nature being recorded in ancient texts like the Vedas which dates back to over 8,000 years. The foundations of these knowledge systems were developed by closely living with and observing the surrounding nature; depicting a sense of divinity within nature, and a constant expression of wonder and love for the beauty of the environment in various art forms and literature. One of the prominent philosophies that underlies the Vedic period was "oneness of all creations," where interactions with nature were not just physical, but also spiritual and moral (Baindur, 2015)

In the post-colonial period, conservation and protection of the environment was seen being integrated into the Indian constitution as a fundamental duty of every citizen (*Constitution of India*). With the formulation of the Ministry of Environment and Forests (MoEF) in 1985, it also showed an increasing interest from the government to address environmental challenges. And one of the proposed ways was by raising awareness through Environment Education (EE) in schools and colleges (Mohapatra & Raval, 2018).

The 1990s marked a point of transition in India's economic development. The liberalization of the economy triggered intense growth in all sectors. With this rapid development there was sudden intensification of environmental concerns and rapid depletion of natural resources (Almeida & Cutter-Mackenzie, 2011). Environmental education was made compulsory by the Supreme Court in 2003 (Tandon, 2018). In 2005, NCERT published the third edition of the National Curriculum Framework (NCF*) which made a structured attempt in bridging the gaps in environmental education by giving specific requirements for its integration in the four curricular stages (primary, upper primary, secondary and higher secondary), using a multi-disciplinary lens and encouraging a shift from textbook learning to a more holistic approach (Muralidhar, 2022).

Today the objective of EE is to develop environmental literacy for all, with an aim to instil a behavioural change. The idea has been to build an environmentally literate society where the individual as well as the collective make informed decisions concerning the environment; and

are willing to act on their decisions to improve the well-being of other individuals, societies and the global participants, while addressing the challenges posed by the changing environment (Muralidhar, 2022).

The literature around environment education continues to transform and take new shapes, as we continue to unravel and understand the intricate nature of environmental interactions, and its implications in the long-run.

5.2. Present Challenges in Environment Education

The latest NCF* draft of 2023, drawing from the foundational framework and action-plan presented in the National Education Policy (NEP) 2020, presents an elaborate pedagogy and curricular structure to assist the implementation of EE in the formal system. The new framework introduces 'Interdisciplinarity' as one of the core curricular areas, which opens doors for bringing in subjects such as environmental education, public health, justice, media and journalism, traditional knowledge systems etc., into the classroom spaces in conjunction with the core subjects (science, mathematics, social science etc.), instead of in isolation. Particularly in the case of EE there is emphasis on the idea that developing sensitivity to and care for the environment should be the central theme throughout the school education curriculum. "And while it is important that students acquire a conceptual understanding of environmental issues and challenges, as well as an appreciation of the magnitude of the problem, it is equally important to ensure that they do not get discouraged or despair for their future" (*National Curriculum Framework for School Education 2023*).

But one of the major challenges to environment education, as elaborated in the framework, has been the lack of expertise in teachers to teach environmental education. As there is no formal structure to prepare teachers for EVS, it is often taught in parallel to or by teachers who have expertise in subjects such as Science and Social Science. Another issue highlighted is that "societal practices and observations are often the opposite of what is taught and discussed in schools, which defeats the purpose of the subject" (*National Curriculum Framework for School Education 2023*). With respect to the curriculum structure and implementation, the focus is usually more towards the completion of syllabus rather than inquiry-based and place-based learning. Given the innate nature of the subject, it becomes difficult for teachers to express and

for students to understand the context-specific nuances of our environment when learnt just within the four walls (Rajavelu, 2021).

With India today having become the most populous country in the world, it is at the frontline of facing and managing complex climate-environmental development challenges (Joshi & Singh, 2022). This requires teachers to take up environment education with a multi-disciplinary approach by integrating scientific inquiry, justice, and well-being within the local socio-economic-cultural contexts.

5.3. Shifting Approaches and Bridging Gaps in Environment Education

An increasingly prominent approach in environmental education involves integrating the affective domain of learning, which aims to emotionally engage learners by addressing their attitudes, beliefs, and feelings (Green & Batool, 2017). This shift in approach can prove invaluable when tackling environmental problems, considering that many barriers to improving environmental quality are rooted in prevailing social attitudes, values, and lifestyles (Iozzi, 2010). Moreover, research demonstrates that environmental changes can also affect psychological and mental health outcomes (Fritze et al., 2008).

The NCF 2023 draft also highlights the importance of socio-emotional development in children across the different stages of their lives. It further states that "physical, cognitive and language development is highly influenced by how children feel about themselves and how they are able to express their ideas and emotions" (*National Curriculum Framework for School Education 2023*).

The Social-Emotional Learning (SEL) framework is one such model that allows for the integration of the affective domain in teaching-learning spaces. It aims to advance educational equity and excellence by forming authentic school-family-community partnerships by establishing learning environments and experiences that feature trusting and collaborative relationships and a meaningful curriculum. The broader goals include tackling various forms of inequity and empowering young people and adults to co-create thriving schools that contribute to safe, healthy and just communities (CASEL, n.d.).

In the present education scape, numerous organizations, educators, activists and groups are actively working towards and supporting in bridging the aforementioned gaps. They are providing innovative tools, resources, technology, offering capacity building through workshops and training, and conducting field visits, nature walks, conferences, events. These diverse initiatives are an attempt to continually reframe the narratives and make creative tools available to teachers and students in the formal education spaces, to better explore, learn about and connect with the intricacies of natural ecosystems.

One such initiative is Nature Classrooms, a programme under the Education and Public Engagement Programme (EPE) at the Nature Conservation Foundation (NCF). The main aim of the programme is to integrate contextually relevant elements of Nature Learning and ecology with the existing EVS curriculum of primary schools across India. They primarily engage in capacity building for teachers and educators, develop nature education teaching-learning resources that are age-appropriate, locally-culturally, and contextually relevant, and conduct research projects that contribute towards making Nature Learning meaningful for teachers and learners (Nature Classrooms, n.d.).

5.4. Internship Overview

The motivation for undertaking an internship within the realm of environment education were:

- To gain awareness about the relevance of and current perceptions towards environment education, and its role in the context of environment conservation.
- To gain first-hand experience and understanding about the implementation of the EVS curriculum within school systems.
- To understand the role of teachers and educators in imparting environmental education and the experiences and challenges encountered in the process.
- To understand the role of NGOs in furthering environment education within schools.
- To learn the different pedagogical approaches adopted by NGOs in aiding the implementation of environment education.

The key projects / tasks undertaken during the course of this internship:

- Exploring the integration of Social-Emotional Learning (SEL) with Nature Learning, to address teacher's emotional well-being through nature connections.
- Supporting in the resource creation processes which are in line with the Nature Classrooms pedagogy and framework.
- Organizing, conducting and supporting capacity building workshops for teachers and educators.
- Communicating Nature Classrooms' work through social media platforms.

VI. DESCRIPTION

6.1. The Work of Nature Classrooms

Nature Conservation Foundation's Nature Classrooms programme is hosted in the larger Education and Public Engagement Programme. Initiated in 2018, the team has been working collaboratively closely with schools and educators to connect school learning to the natural world. The focus has been to develop user-friendly nature learning resources closely linked to the school curriculum and that are age-appropriate, locally and culturally relevant and encourage children to engage with nature through hands-on and inquiry-based learning.

The three main components of their work area include:

- Co-creating age-culturally-locally relevant resources, activities and curriculums for teachers / educators as teaching-learning aids.
- Conducting workshops and training in and about nature learning.
- Exploring research questions and projects to help inform the work.

The primary goals of this programme are:

- Developing a sense of curiosity, love, wonder and a deep connection for the natural world among students, teachers and educators.
- Supporting Primary School Environmental Studies (EVS) teachers to be life-long learners who design and transact child-centred and inquiry-based lessons.
- To shift the focus of the current environmental education discourse from a largely human-centric approach to one that highlights that humans are a part of nature and the larger ecosystem.
- Integrating Nature Learning into the school's ethos and culture by making it contextual and relevant.

6.2. Work Profile Overview: Roles and Responsibilities

The roles and responsibilities for this internship were undertaken in tandem to the three work arms of Nature Classrooms and included - conducting research, program development, supporting resource creation, organizing and conducting training workshops for teachers / educators, and communications. The role was undertaken with guidance and supervision from Vena Kapoor, who conceptualized and heads the Programme.

6.3. Areas of Work

6.3.1. Research and Program Development: A nature-based SEL program for supporting teacher's emotional wellbeing and connection with nature

The main focus for this internship was to explore the integrations between the existing socialemotional learning framework and nature learning. This included recognizing the scope for integrating it with Nature Classrooms' existing pedagogy and framework, the possibilities of translating it into action by developing a program framework, creation of supporting resources, and integrating the content as part of workshops, and organizing a test pilot program.

The goal of the nature-based SEL program developed as a part of this internship is to bring together effective nature-based practices, resources, and materials integrated into the larger social-emotional learning framework, with a focus on supporting the overall emotional well-being of teachers. The long-term vision is that this support for teachers' social and emotional well-being will also influence the manner in which they impart environmental studies / education within their classrooms.

A. Literature Review

What is Social-Emotional Learning?

As defined by the **Collaborative for Academic, Social and Emotional Learning (CASEL)**, 'social-emotional learning is the process by which all young people and adults acquire knowledge, skills, and attitudes to develop healthy identities, manage emotions and achieve personal and collective goals, feel and show empathy for others, establish and maintain supportive relationships and make responsible and caring decisions.' (CASEL, n.d.)

Primarily the framework identifies five key competencies or settings. As defined by CASEL, these include:

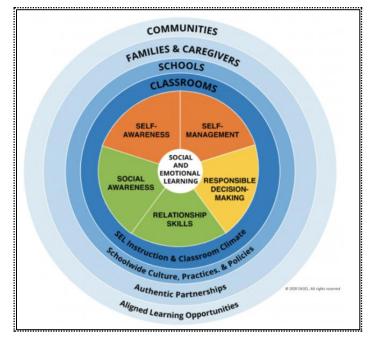


Figure 1: SEL Framework developed by CASEL

- Self-Awareness: the ability to understand one's own emotions, thoughts, and values and how they influence behaviour across contexts.
- Self-Management: the ability to manage one's emotions, thoughts, and behaviours effectively in different situations and to achieve goals and aspirations.
- Social Awareness: the ability to understand the perspectives of and empathize with others, including those from diverse backgrounds, cultures, and contexts.
- **Relationship Skills:** the ability to establish and maintain healthy and supportive relationships and to effectively navigate settings with diverse individuals and groups.
- **Responsible Decision Making:** the ability to make caring and constructive choices about personal behaviour and social interactions across diverse situations (CASEL, n.d.).

The approach emphasizes the importance of establishing learning environments and coordinating practices across key settings of classrooms, schools, families and communities to enhance all students' social, emotional and academic learning. It is seen to be effective when integrated across the broader contexts of schoolwide practices and policies, through ongoing collaboration with families and community organizations. The coordinated efforts should in

turn foster youth voice, agency and engagement; establish supportive classroom and school climates and approaches to discipline; enhance adult SEL competence and establish authentic family and community partnerships (CASEL, n.d.).

Within this framework, students, families, schools and communities are seen as a part of broader systems that shape learning, development, and experiences. Inequities based on race, ethnicity, class, language, gender identity, sexual orientation, caste and other factors are deeply rooted in the vast majority of these systems which is believed to have direct impact on student and adult social, emotional and academic learning. While it has been acknowledged that "SEL alone cannot solve the longstanding and deep-seated inequities in the education system, it can create the conditions needed for individuals and schools to examine and interrupt inequitable polices and practices, create more inclusive learning environments, and reveal and nurture the interests and assets of all individuals" (CASEL, n.d.).

Independent studies conducted to understand the benefits of SEL indicate that it can lead to several positive outcomes. It is shown to have increased the overall academic performance of students who learn within an SEL integrated space. It also allows for creating a safe and nurturing space, where participation in SEL programs have been linked to decreased emotional distress, more positive attitudes about self and others, reduced symptoms of depression and anxiety in the short term, sense of safety, support, better relationships with teachers, stronger feelings of belonging and inclusiveness in schools and in some cases reductions in bullying and aggression (CASEL, n.d.).

Research also suggests that SEL has aided in improving teacher's functioning, with greater efficacy for managing student behaviour and higher levels of personal accomplishment. They were also seen to have lower job-related anxiety and depression which led to higher quality interactions and greater perceived job-control (The Pennsylvania State University, 2016)

Relevance of the Nature-Based Social-Emotional Approach in Education

Our beliefs, values, and feelings make up most of the socialization process, which is deeply linked to our interdependence on nature. And similarly, for the fulfilment of individual and collective potential - we are highly dependent on the material, psychological and spiritual benefits of nature. This is where environmental education gains its importance. Literature defines the goals of environmental education as including - fostering individual and collective self-determination, as well as enhancing environmental knowledge, attitudes, and behaviours (Myers & Clayton, 2009)

Emerging research today indicates the idea that without developing an emotional connection with nature and forging a bond that makes nature a part of an individual and collective sense of identity, it is difficult to nudge people towards taking action in favour of the environment. A nature-based social-emotional approach provides for a connection-based philosophy that recognizes our place within the world and our connection to ourselves, to one another, and to nature (Carter, 2016). While, on one hand, a social and emotional relationship with nature, helps us better perceive and see ourselves as a part of it; interactions with nature can also allow for effectively managing our social and emotional well-being.

Understanding Teachers

The role of teachers within school spaces goes far beyond just teaching. Teaching can be more deeply understood as an emotional practice as a school entails interpersonal emotional experiences (which take place within each teacher and student) (Jennings & Siegel, 2015). Teachers also play a central role in a very complex knowledge and social system. Firstly, the subjects they teach are as large and complex as life, and so it is important to recognize that their knowledge of them is partial. Secondly, the students they teach are larger than life and even more complex. And finally, the school system is a complex nexus of relationships and responsibilities that requires teachers to navigate through it in ample different ways (Palmer, 1997).

Moreover, teachers face a plethora of situations every day that provoke emotions that are difficult to manage. They also experience burnout which results from a breakdown in teachers' ability to cope over time and is viewed as having three dimensions - emotional exhaustion, depersonalization, and feelings of lack of personal accomplishment (Jennings & Siegel, 2015). Additionally, a teacher's beliefs which also include their assumptions about every aspect that is of importance for the teaching/learning process (the subject, how to teach, the students, etc.) can impact how they act in specific learning situations. It is also important to recognize that a teacher's meta-emotion philosophy (organized set of emotions and beliefs regarding one's own and other people's emotions) can be influenced by personal experiences, but also by larger

cultural and societal factors and emotional norms (Ojala, 2020). All of this profoundly affects their teaching-learning goals and practices.

Research done to understand the role of beliefs in the practice of teaching, indicates a clear interaction between feelings, moods and subjective evaluations, and other forms of cognition typically associated with knowledge systems. For example, while knowledge of a domain can be conceptually distinguished from feelings about the domain, values placed on course content by the teachers often influence how they teach the content. To better understand why teachers, organize and run classrooms the way they do we must pay much more attention to the goals they pursue and to their subjective interpretations of classroom processes. A teacher's objectively reasonable beliefs, once reflexively recognized, could be altered or transformed by being shown to be objectively unreasonable (Nespor, 2006).

Teachers' own perception of emotion can also serve as a significant element, especially with regard to how they respond to children's negative emotions. Their levels of emotional awareness and how they manage it is also seen to have a direct correlation with the way they handle children's passive attitudes. They also play a very crucial role in influencing children's emotions. Teachers' acceptance and support for children are essential factors for protecting those children from high-pressure family environments and other social scenarios, which thereby requires them to better regulate their own emotions (Liu, 2021).

This particularly becomes relevant in the context of environmental education, where teachers carry their own beliefs, experiences and understanding of the concepts, and try to unwind the complexities of the systems to a class that contains diverse individuals that perceive and process the knowledge, in different social and emotional ways. When these aspects are recognized by teachers it directly translates into the way they impart environmental education.

Nature and Mental Well Being

Studies have found that well-being can be linked with how close we live to nature spaces, in both urban and rural settings. Some theories that guide these studies include the **Stress Reduction Theory -** which states that "when we observe a natural scenery, such as forests or rivers, we experience positive feelings and emotions that have a restorative calming effect" (*Nature: How Connecting with Nature Benefits Our Mental Health*, 2021).

Contact with nature has also been associated with increased happiness, subjective well-being, positive affect, positive social interactions and adding a sense of meaning and purpose in life which overall decreases mental distress. This could also be because nature instills a feeling of awe and a sense that the individual is part of a much bigger whole. Research in particular has indicated that "people who feel more connected to nature have greater eudemonic well-being; a type of contentment that goes beyond just feeling good and includes having meaningful purpose in life" (Weir, 2020).

Research around nature and mental health has also brought to light the interconnections between nature and psychology, and the direct implications of environmental problems such as climate change on our mental health. **Shifting Baseline Syndrome,** for instance, is the situation in which over time knowledge is lost about the state of the natural world, because people don't perceive changes that are actually taking place. In this way, people's perceptions of change are out of kilter with actual changes taking place in the environment (Hance et al., 2009). This especially gains relevance in the space of environment education and nature connections, as oftentimes textbooks indicate a state of nature that children of the present generation may not completely associate with, understand or feel far removed from and alien to.

Similarly, the term **Nature Deficit Disorder**, which has gained a lot of prominence in the recent times, describes the human cost of alienation from nature: diminished use of the senses, attention difficulties, higher rates of physical and emotional illnesses, a rising rate of myopia, child and adult obesity, and others (Suttie, 2016). Schools can create that opportunity for children to reconnect to their surrounding nature, given the time that children spend and the scope that nature provides for learning. Problems such as **Ecological Grief and Anxiety** have also become very real responses to the impacts of climate change, with people either grappling with losses of lives and/or livelihoods, or just being driven by the anxiety of the possible consequences of climate change which negatively impacts the overall physical and mental health (Cunsolo & Ellis, 2018).

Other Important and Relevant Guiding Theories

Researchers have developed several theoretical frameworks that highlight the importance of integrating social and emotional values when engaging in teaching-learning practices.

To understand the interlinkages between nature and one's own social and emotional development, it is important to first unwrap the values, attitudes, and beliefs with which we perceive and define nature. It then becomes crucial to address questions such as - why do people care or not care about nature? What gives it its emotional and moral resonance? This predominantly depends on the significance people give to nature. The natural environment can shape the ways in which people define themselves as individuals, members of society, and humans. It can play a great role in affecting our sense of self - while also helping us fulfil our desire for connection or belongingness as it gives us an opportunity to think about our role as a part of a larger whole or an interdependent ecosystem. In this sense, the natural environment and our relationship to it can be an important part of our self-concept, all of which leads to us developing an **environmental identity** (Myers & Clayton, 2009).

Education about environmental-related problems and threats also can increase worry and anxiety. In situations such as these, teachers and students are left to deal with their existing emotions, in addition to the emotions felt from learning about the environment and its threats. Studies show that teachers tend to have diverse ways of responding to students' emotions in especially difficult scenarios, which include, avoiding talking about emotion-laden issues, ignoring emotions, trying to replace worry with hope or validating emotions of worry, and using flexible emotion-coaching strategies. **Critical Consciousness**, as defined by Freire suggests that critical discussions, reflections, and actions can lead to a better understanding of the root causes of an unjust society and empower people to make plans and take action to change it (Ojala, 2021).

Similarly, Boler's **Pedagogy of Discomfort** expands on the idea that 'discomforting emotional aspects are part of educating about sensitive and controversial societal issues, and that educators and students need to engage in critical inquiry of emotional positions towards the issues at hand.' The theory further suggests that teachers sometimes influence students' emotions as well as how students cope with them. Research also demonstrates that students who perceived their teachers as not taking their negative emotions concerning societal problems seriously were more inclined to de-emphasize the seriousness of climate change than students who felt their teachers respected and validated their emotions (Ojala, 2020).

B. Interview with Teachers

To contextually understand teacher's emotional experiences and their current relationship with nature, a series of semi-structured interviews were conducted with a group of **18 teachers** from diverse school boards (CBSE, ICSE, IGCSE, IB, Government School, State Board, Alternative Schools) and regions (Maharashtra, Karnataka, Andhra Pradesh, Kerala, Madhya Pradesh). This consisted of 15 female teachers and 3 male teachers. Although gender wasn't a deliberate factor, it was observed that a higher number of female teachers took part in the interviews in this particular instance.

The questionnaire aimed at understanding (<u>Annexure I</u>):

- Different emotions that teachers experience in the school space
- The regulation and management strategies adopted by them when experiencing different emotions.
- Their present relationship with nature time, perception, emotions etc.
- Their perception on the interconnections between their emotions and their interactions in classrooms and the way they teach their subjects.
- Strategies adopted by teachers to manage the diverse emotions of their students.
- Perceptions about the present pedagogy and framework for environment education.
- Their views on the linkages between emotions and nature
- Their outlook on the workshops, programs and outreach conducted on environment education by NGOs, educators etc.

Broadly, the interviews brought to light that while teachers are very keen on providing their children with learnings and experiences from beyond the textbook (especially with respect to environment education), they often feel limited by the larger institutional system, work load, and extracurricular duties, that takes away their time and pushes them to focus more on syllabus-completion. They also feel that they are often overlooked by the system, with a lack of attention on their personal and emotional wellbeing. All the teachers interviewed stated that spending even a short time in nature - be it in the form of walks in the park or gardening in their balcony, or sitting under a tree, offers relief from the work pressure, and also helps them better process their thoughts and actions. With respect to external interventions, most of the teachers felt that they are often perceived as mediums to reach children, and in some cases feel that while these workshops and training programs organized by NGOs are very useful, they seldom

translate into the classroom spaces due to various reasons - such as lack of resources, technology, time, etc.

C. Framework for Nature-Based SEL Program for Teachers

Deriving from CASEL's framework for SEL, the goal of this program is to add to SEL's existing work of body, by inculcating the values embedded within nature learning, giving it a more holistic approach by supporting teachers in their endeavours and also informing the broader approaches towards environment education.

Thus, Nature-based Social-Emotional Learning can be understood as the process by which,

"People acquire knowledge, skills, and attitudes to develop healthy and sustained personal, social and environmental relationships, which supports them in expanding their sense of identity and belongingness. This in turn influences the way in which they manage their emotions and achieve their personal, collective, and environmental goals. It inspires them to feel empathy and compassion towards all living beings, establish and maintain supportive intrapersonal, interpersonal and interbeing relationships; and make responsible and caring decisions for overall personal, social and nature's wellbeing."

With this approach a three-phase program plan was developed which was informed by the literature review and the inputs from the teacher interviews (<u>Annexure II</u>).

- Phase 1: Teacher's social-emotional wellbeing: Using various nature-based practices promoting social and emotional learning within teachers for their well-being and strengthening teachers' connection with nature by supporting their social and emotional well-being.
- Phase 2: Training for implementation in the classroom: This would include sharing and training teachers in incorporating nature-based SEL practices for long-term translation of nature-based social-emotional learning into EVS lesson plans and classroom practices.
- Phase 3: Creating a 'Well Being through Nature' group for teachers in select schools: To encourage teacher interactions which can help them in managing their stress, become more aware of their emotions, and better manage it during classroom interactions. This can be done using tools of mindful and guided nature-based

engagements such as sharing circles, nature-emotion journaling, nature walks, informal outdoor trips, etc., based on the time available.

Phase I of this program was developed as a part of this internship. For this purpose, a series of practices were curated along with supporting resources. These were reviewed by experts with a background in counselling, psychology and social-emotional learning.

D. Collaborations and Partnerships

The foundational framework was developed with support from organizations and individuals who carry expertise particularly in the areas of SEL, environment education and mental health.

- Nirmal Govindaraju and Gurpreet Sethy, from Eikas Foundation have been actively working in the space of SEL for children. They played a crucial role in developing the initial theories and practices for the program, in addition to giving insights about the implementation of SEL at ground level.
- Agastya International Foundation's teacher training program supported us in connecting with teachers for conducting the interviews.
- ApniShala's 'SEL Shala' course provided great insights and aided in the initial development of the practices, materials, and resources for the program.
- Ankita Rajasekharan and Roshni Ravi, who have a background in counselling and psychology reviewed the practices and tools that have been developed for implementing the program.

E. Piloting the Program

The goal of the pilot program was to engage with a small focus group of teachers / educators, for trialling out the initially developed practices and taking into consideration their feedback and responses which will influence the future implementation of the program, especially within the school systems.

For this purpose, an open call was announced on Nature Classrooms' social media platform, inviting teachers to sign up for the program. From a total of 24 registrations, 11 teachers were selected who teach in schools that follow different boards of education - Montessori, CBSE, Early Childhood Education, IGCSE, IB; teaching a range of subjects such as language, math, science, art, and nature education.

The program was officially initiated online on July 8th, 2023 for a period of 4 weeks, structured across eight sessions overall. Presently, the program is ongoing.

The sessions were conducted using various tools (art, music, mind-mapping, movements, observations, journaling, etc) and guided practices that were focused towards achieving the nature-based SEL goals. Different models of reflections have been adopted to assess the participant's experiences and key takeaways. These include (<u>Annexure III</u>):

- **Reflective Questions**: which require participants to provide long-form reflective answers to a guided questionnaire. These were conducted at different points during the program:
 - Pre and post program
 - Reflections post each session
- **Documenting responses during sessions**: The responses of participants to different prompts and guided practices introduced to them during the session were also recorded.
- **Post-program reflections**: to understand from participants their key takeaways and plans for inculcating nature-based SEL in their teaching-learning approaches.

6.3.2. Other Projects Undertaken as Part of the Internship

A. Resource Development

This involved the development and designing of two resources for the program:

• 'Our Senses': This resource was developed in tandem with the Grade 5 NCERT's EVS chapter - 'Super Senses.' The initial design of the resource included the association of different senses to different animals. The design needed to be further developed to incorporate activities and prompts that teachers / educators can use to guide children in exploring how animals use their senses. For this purpose, the process entailed ideating guiding questions, a mini activity, interesting facts and creating an anchor chart that can be easy for teachers to use in classrooms. Moreover, the focus was also to inculcate prompts that could initiate a safe and inclusive space to discuss about how differently abled people engage with their senses (Annexure IV).

Inputs and Designing of a module on the theme of Water: This project was undertaken in collaboration with Ankita Rajasekharan, an educator who worked in developing the framework, content and detailed lesson plans with resources; and Chayant Gonsalves, an illustrator who supported in creating the art illustrations for the module. To bring together the content and illustrations meaningfully, the process of designing the module was undertaken as a part of this internship. The goal was to design and bring the module together in such a way that it aids teachers, educators and parents to implement the different lessons that help explore the complex aquatic ecosystems in a simplified way, in their own capacity, at schools or homes with children (<u>Annexure V</u>).

B. Training Workshops for Teachers and Educators

Participating and facilitating sessions in workshops organized by Nature Classrooms

During the course of the internship, three workshops were organized by the Nature Classrooms team which gave an opportunity to understand how their pedagogy and framework can aid teachers in developing lesson plans for the EVS curriculum. It also created a space to interact with school teachers as well as educators from different organizations, and gain their perspective on Nature Classroom's pedagogy and framework and how they see it being implemented in the school spaces.

• Workshop with Wipro's Sustainability Educators: This was organized as a part of the 12th edition of the Wipro Earthian Awards Programme. The day-long workshop provided an opportunity to engage with the new batch of Wipro's Sustainability Educators who have been working in the domain of sustainability education / environmental education in schools and communities across India. In the session, the educators were guided through the development process of Nature Classroom's pedagogy, framework and resources. They collaboratively also worked on developing and presenting a nature learning chapter which could be weaved into the EVS curriculum. The workshop brought in diverse perspectives as educators from across India brought the essence and insights from their local-cultural contexts and experiences.

- Training Program with NCF's High Altitude Program: The team was invited for an inter-program engagement to brainstorm and conduct a training session for a team of conservationists and nature educators from Nature Conservation Foundation's High-Altitude Program. Through a three-day immersive workshop, the group went through exercises and conversations on strategizing the educational and outreach initiatives in Spiti and Ladakh and exploring, and planning new projects in the landscape. The workshop also gave us the first opportunity to trial out some of the nature-based SEL practices.
- Stories in Nature Workshop: A two-day collaborative workshop was organized with Jane Sahi from the Fig Tree Learning Center, with an aim to explore ways to support awareness and connection with nature using stories and poetry. The workshop brought together school teachers, educationists, storytellers, writers and librarians. The interactive sessions explored a range of themes from nature in an urban context, to the role of folklore, art, magic, poetry, emotions, imaginations, the impact of regional languages, gender, authority, social structures and academic research when using story-telling and poems as a teaching-learning tool.

Conducting Workshops for teachers in Pachmarhi, Madhya Pradesh

The internship provided an opportunity to organize and conduct the Nature Classroom's workshop on its pedagogy and framework with teachers from Pachmarhi in Madhya Pradesh at the NCBS-TIFR field station. On day one, the workshop witnessed participation from over **30 teachers** from Kendra Vidyalaya School, teachers in their second year of training at the District Institute for Education Training (DIET), and a few from local government schools and Anganwadi schools.

In the course of the 4-hour workshop, the activities and sessions organized included:

- Developing the ideal environment education curriculum in a situation where all possible resources (time, funds, space, support, resources, etc.) are made available to the teachers.
- Exploring the three key domains of learning cognitive, skills and affective.
- An introduction to the concept of nature-based SEL through an activity where the teachers explored their 'Environmental Identities.'

- Deep dive into Nature Classrooms' pedagogy and framework. Using examples, discussing the relevance of the different goals that need to be put in place for different age groups, the diverse mediums that can be used for teaching-learning, and the core components and values that need to be inculcated when developing a lesson plan.
- To culminate the workshop, teachers were asked to develop a lesson plan for any chapter from the EVS textbook, using Nature Classroom's pedagogy and framework as a reference.

On the second day, a workshop was organized for **65 teachers** at the DIET institute in Pachmarhi. This was done in collaboration with the SeasonWatch team (NCF). In the two-hour session, the participants were introduced to Nature Classroom's pedagogy and framework, as well as some of the existing resources that have been developed, followed by a session on citizen science by the SeasonWatch team. This was followed by a group activity, where the groups had to come up with a lesson plan to teach children about the seasonal patterns in trees. The session ended with the groups creatively presenting their plan (<u>Annexure VI</u>).

C. Communications

Communication was also a key responsibility handled during the course of this internship. This firstly entailed communicating about Nature Classroom's work on social media platforms. Secondly, working on updating and restructuring the overall website, with a goal to make the resources, pedagogy and framework more accessible, as well as to showcase the different projects undertaken by the program.

VII. REFLECTIONS AND LEARNINGS

During one of the interviews, I asked a primary school teacher from Pachmarhi, Madhya Pradesh, about the kind of support she believes that teachers require. She said with tears in her eyes, "*We just want someone to ask us how we are doing*..."

One of the significant insights I gained from this internship is that our teachers, who are at the heart of the education system face numerous challenges that significantly influence their teaching goals. As an educator, this realization prompted me to contemplate how as external entities we tend to concentrate on delivering programs to teachers without fully acknowledging the multitude of responsibilities, emotions and institutional demands they are managing. Then regardless of how well-designed our initiatives may be, if larger systemic structures are restrictive and conventional, translating these ideas into actionable outcomes only becomes a formidable task.

This internship journey of six months has led to many realizations stemming from different experiences, interactions and observations, which I hope to further develop to inform not only the work being done in the field of environment education, but also to open a space for practitioners, educators, scientists, researchers to build upon and weave in aspects of mental well-being into their work and approaches towards conserving our environment.

7.1. Research Project

Journey towards developing the nature-based SEL framework

This internship was my first introduction to the domain of Social-Emotional Learning. Traversing across the literature around SEL was a journey in itself, as I gradually found myself unravelling the myriad of themes that make-up this framework.

While the SEL framework proposes an ideal, inclusive, and safe teaching-learning environment, it is important to recognize that its fundamentals are based on the educational and social systems present in the United States of America. And this is true for most literature that is present with respect to SEL today. This raises the question - how much does the Indian education system allow for implementing such alternative learning processes? This called for reviewing the existing theories and assessing how it addresses the systemic differences - exposure, population,

diversity (social, school boards, languages, etc), syllabus, resources, policies, environment, infrastructure, teacher training and availability, etc.

It is quite evident that for such a system to be implemented at a large-scale, it would require a monumental shift from the already existing system that is so deeply institutionalized and established upon decades of policy frameworks. This would require a rigorous restructuring of our policies as well as its implementation not just in terms of resource-availability, but with a shift in mindset and practices at a grassroots level.

I was particularly interested in taking Nature Classrooms' attempt at looking at the integration of SEL through a more subject-based lens, particularly with nature learning, forward. The work around SEL in India is only beginning to emerge with organizations such as ApniShala and Eikas Foundation carrying out SEL-focused programs. But upon studying the work of organizations globally and nationally, it emerged that while many other disciplines such as arts, sciences, etc. have been integrated, nature was mostly missing from the picture. This is where we envisioned contributing to the existing work by bringing in the essence of nature learning.

The present environment education curriculum harps on the idea that the children of today need to be environmental guardians. Additionally, it doesn't account for the 'shifting baselines,' where children are growing up in very different realities from what they are being asked to protect. This imposition of responsibility in children as young as 8-10 years old, could induce stress and anxiety which the school system may not be able to cope with. Moreover, we live in a fast-evolving digital era where students are learning from sources beyond their classrooms. How does this affect their understanding and connection with nature and in turn influence their social-emotional wellbeing?

Based on our personal experiences and available research, we identified the linkages between our experiences with and learnings from nature and our emotional well-being. The results build upon CASEL's framework - firstly, nature can help us gain **self-awareness** as we often turn to nature when we want to introspect or find inner peace. Secondly, spending time in nature can regulate our emotions, which can in turn help us in **self-management**. It also brings **awareness to our values, beliefs and other social systems** that contribute to our identity and sense of belonging (from the food we eat to religious, spiritual, cultural practices). Fourthly, our social **relationships** are built within the larger environmental settings which influences the bonds we create and instils a sense of belonging. And finally, our love and respect for nature can make us take empathetic and compassionate actions and **decisions**, since all happenings in nature are based on the principle of balance.

Developing a Nature-based SEL Program for School Teachers and Educators

Given Nature Classrooms had already channelled its efforts towards teachers and educators, it was an intuitive starting point. Most of the literature reviewed pointed towards the emotional experiences that teachers endure in schools and its implications on their personal, classroom and social interactions.

To further gain first-hand understanding I approached teachers to learn about their emotional experiences in school and their relationship with nature. The series of 18 interviews were a changing point in my program-development journey, as it altered my understanding and approaches towards environment education. The key outputs were:

- When discussing the connections between emotions and interactions, several teachers revealed that although they experience a diverse range of emotions in schools, once they step into a classroom, they adeptly set them aside and concentrate solely on their daily lesson objectives. While they ensure not to bring their emotions from home to school, many teachers confessed that they often carry the emotions experienced at school back home, resulting in occasional conflicts with their families.
- When questioned about their primary challenges as teachers, they unanimously cited the lack of time as their foremost concern. In addition to their teaching responsibilities, teachers are burdened with various additional duties, including election duty, COVID duty, managing admissions, and handling administrative tasks such as data entry, paper grading, and organizing events for different occasions. As a result, their primary focus during classroom sessions becomes completing the syllabus, leaving them with limited opportunities to experiment or innovate in their teaching approaches.
- Each of the teachers expressed feeling inadequately prepared to address challenging emotional situations in the school environment. Two teachers recounted the heartbreaking experiences of losing students to suicide, but due to the demanding nature of their responsibilities, they had no time or opportunity to process the loss or provide support to other students coping with the tragedy. Additionally, one teacher shared a distressing incident where a student was lost during a nature excursion, resulting in the

suspension of a colleague, and prohibition of future nature trips. These traumatic events had a profound impact on the teacher's presence in the classroom and significantly affected their interactions with their families.

- When discussing their connection with nature, the majority of teachers disclosed that they actively engage with nature through various means, including gardening, nature walks, and visits to nearby forests, among others. All of them associated nature with feelings of "peace," "escape," "quiet time," "reflection," and "calm."
- When questioned about their perception about environment education, they all shared that it had to be done practically and just teaching within their classroom walls limits the children from understanding concepts. A few teachers also shared that they have on their own tried to take up initiatives such as recycling, clean up drives, and nature walks, to encourage children to connect with nature.
- A few teachers shared that the hierarchy and the power struggles within the school administration often hinders them from openly talking about their emotions.
- When talking about their perception about the external capacity building workshops organized by NGOs, they shared that all the workshops that they attend are usually targeted towards children. And they are mostly only seen as a medium to reach children. Many also shared that they have felt forced or burdened to participate in external workshops and programs (specifically in the case of Govt. School teachers).

Developing the Program Structure and Practices

The process of developing and curating practices and resources for conducting the sessions was an emotional journey. I devoted significant effort to study and comprehend what it truly means to establish a safe and inclusive space where teachers can openly share their emotions. To achieve this, I attended a program on SEL by ApniShala, which provided valuable insights into the kind of experience a SEL program should aim to create for its participants.

Taking on the role of a facilitator for the first time was a unique and transformative experience. It involved delving deep into the art of creating safe and inclusive spaces for participants. I had to carefully consider language and conversation techniques, as well as develop guided prompts and exercises that would encourage self-exploration and foster meaningful connections with nature. This process challenged me to be more mindful of how I was crafting an environment

where teachers felt comfortable opening up and placing their trust in me throughout the journey.

To craft each practice, it necessitated a thorough study and review of numerous existing practices. I personally experimented with each one to comprehend the emotions and thoughts they could evoke, while also evaluating how well they aligned with the broader objectives of the nature-based SEL.

Furthermore, I had to prepare myself to handle any difficult conversations that might arise, and be ready to offer emotional support to the teachers when needed. To do this effectively, I had to prioritize my own mental well-being and be emotionally attuned and self-aware to better support the teachers. It was also crucial to try my best to set aside my personal biases and values to maintain neutrality while creating a comfortable space.

Launching the Pilot Program

To trial out the effectiveness of the program in practice we decided to launch a pilot through an open call via social media. With the 11 teachers that were selected, a 4-week online program was initiated. The group is composed of one male teacher and ten female teachers. Although the gender distribution of the participants wasn't a primary consideration, it was noted that the majority of the teachers were women.

The program is presently ongoing. As part of the pilot program, a total of four sessions, including reflections, have been successfully concluded up to this juncture. Several of the reflections stemming from these sessions have been included in **Annexure IV**.

The participating teachers have shared that they feel supported to know that there is space for them to process their emotions and trial out techniques to regulate them. The verbal feedback with respect to the practices and planned interactions have been positive so far, where teachers have shared how it has added a new perspective in the way they approach their emotions and connect with nature. They hope to use these in their classroom spaces to encourage more interactions and connections with nature.

Personally, given that this has been my first time facilitating this program, it has been challenging yet exhilarating as it has pushed me to introspect on my personal relationship with

emotions and nature. It has helped me better connect with the ideas of inclusivity and safe space, as I have gained deeper awareness about the importance of a co-creating and a co-learning space which can result in better ideas and solutions.

Challenges

Some of the caveats and limitations that we have identified in this process include:

- Arriving at structured methods for measuring and assessing teacher's experiences from the program.
- Institutionalizing this program, given the complex school administrative system.
- Given that emotions are processed and expressed differently in different languages, how can we make this suitable for vernacular languages?
- The biggest challenge experienced by teachers is the lack of time. How do we implement this program such that it doesn't take away more of their time?

7.2. Personal Reflections / Takeaways

In my three years of journey in the environment, education space, and engagements with children, I would often wonder if I was truly making any difference, given that I had no control over how they engaged with this subject once I left their school space. How do I truly measure the impact of the literacy programs on each and every child as there is no possible way to track their lifetime journey? And the fact that a three-day workshop could completely influence their behaviour started seeming a little absurd. Could longer workshops be the way? Maybe incorporate more activities, games, field trips? There was no way to know for certain what would work, but it always felt worth the trial and error.

Entering Nature Classrooms, I was introduced to the idea of working directly with teachers and educators, as it is they who spend most time with children and best understand and connect with them. This personally was such a refreshing approach which also addressed several of the challenges I encountered while trying to engage with just children.

This internship expanded my perceptions about the environment education in multi-fold ways:

• Interacting with teachers added to my understanding of the working of the education space. This further helped me understand the complexities, gaps and challenges that hinder us from effectively furthering environment education.

- Teachers genuinely do not have the time, and this became evident as I struggled to connect with teachers for interviews as well as the pilot program. This nudged me all the more towards the direction of supporting teachers in their efforts.
- Learning about the far-reaching impact our mental health has on the work we do. Through rigorous learning and exploration of emotions over the past six months, I couldn't help but question why emotions are not already actively considered in the realm of environmental education. This journey also became personal, as I delved into the state of my own mental health, which I aim to continue integrating into all my future endeavours.
- The process of designing and developing resources compelled me to delve deeply into the various design and content elements required to succinctly explain different concepts while aligning it with the EVS curriculum.
- During the internship, I had the chance to collaborate with a wide range of organizations, educators, and researchers, each with diverse expertise. This invaluable experience significantly enriched my knowledge and understanding of various domains. Additionally, it provided an excellent opportunity to expand and strengthen my professional network.
- I had the most incredible opportunity to work with not just the Nature Classroom's team, but also with the larger EPE team at NCF. Interacting and engaging with different programs and cross-collaborating added to my knowledge about ecology and the environment as a whole. It offered me diverse and interdisciplinary perspectives which deeply played into my work.

VIII.SUMMARY AND CONCLUSION

At the heart of any environmental protection initiative lies a driving force fuelled by passion, compassion, love, and empathy. It is our profound affection for nature that motivates and compels us to preserve and safeguard it. Even as researchers, scientists, educators, though we heavily rely on scientific methodologies, we are equally guided by our deep-seated care, and reverence for the planet, spurring us to take action.

Current environmental education should incorporate these values, as existing pedagogies focus on imparting factual knowledge but lack addressing the fundamental "why" questions. Today, environmental-induced mental health issues affect both children and adults, including "nature deficiency," "eco-anxiety," and "eco-grief." Thus, classrooms should nurture open discussions about these topics among teachers, educators, and students to foster coping mechanisms and understanding.

During this six-month internship, I explored social, emotional, and nature-based learning, discovering vital connections that drive behavioural changes through deep connections with nature. Collaborating closely with teachers enriched my understanding and improved the implementation of my research findings into practical applications.

8.1. Outcomes and Way Forward: Nature-based SEL Program

The nature-based social-emotional learning (SEL) program's primary objective is to cultivate a deep connection between teachers, educators, and the natural world. By fostering a symbiotic relationship where nature emotionally supports teachers, it inspires their commitment to protect and nurture the environment. This connection then extends to their classroom interactions and teaching methodologies, fostering collective learning and action for the environment.

The nature-based SEL approach holds great potential for contributing to existing work in the nature and conservation education space. By integrating nature-based SEL practices into existing programs, inclusive and safe spaces can be created for children and teachers. This approach nurtures a holistic nature learning experience, intertwining knowledge with personal and social well-being, aligning with the larger goal of promoting nature's well-being. Moreover, involving stakeholders like teachers and educators can expand the field of environmental

conservation, amplifying project reach and impact. Considering the influence of a person's emotional state in environmental education and recognizing the impact of an initiative / program on their mental well-being can enhance overall effectiveness and significance.

The implementation plan for the future involves three key steps. Firstly, organizing online/hybrid-mode sessions specifically for teachers and educators to equip them with the necessary knowledge and skills for the nature-based SEL approach. Secondly, integrating the program within schools to make it an integral part of the educational system and teacher practices. Lastly, developing comprehensive guidebooks and resources to support teachers, educators, and organizations in incorporating the nature-based SEL approach into their existing work.

8.2. Role at Nature Classrooms Going Forward

Moving forward, I will be stepping into the role of Project Manager position at Nature Classrooms where I will be working to advance the work initiated during the internship and provide support to the program in achieving its nature learning objectives.

8.3. Conclusion

Environmental education has the potential to drive environmental conservation efforts. However, in the Indian context, these initiatives often operate independently and prioritize reaching a large scale. Nevertheless, these initiatives would benefit greatly from a more comprehensive and holistic approach, one that involves the integration of various disciplines and domains of learning, including cognitive, skill-based, and affective aspects.

Instead of being viewed as a stand-alone endeavour, environmental education can be weaved into the broader conservation and restoration initiatives. This integration should actively involve local communities, including teachers and children, as this can play pivotal roles in enhancing their understanding of the environment through hands-on actions and experiences. This can foster a deeper connection between people and nature, leading to more informed, compassionate and impactful conservation practices.

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X. ANNEXURE

10.1. Annexure I: Questionnaire for Teachers

The following questionnaire was used to interview teachers for developing the nature-based SEL program:

- Which grade(s) are you currently teaching?
- How many hours in a day / week do you spend engaging with students?
- How often do you take time during the day to become aware of how you are feeling?
- What kind of different feelings/emotions have you experienced during your time at school?
- Do you experience feelings of stress, overwork, or burnout during school/teaching hours? If yes, how often do you experience these feelings?
- Do the feelings / emotions you experience at school influence your feelings and interactions at home and vice versa?
- Do you believe there is a connection between the way you feel and the way you interact with the students in the classroom? Can you share some instances?
- Each individual child experiences their very own diverse set of emotions. As a teacher how do you engage with those emotions? How does that leave you feeling?
- How do you manage the different emotions that students express in a classroom; and also, on days you may feel stressed?
- How would you define your present relationship with nature? Do you believe there is a connection between our emotions and how we relate to nature? If so, how?
- Do you or your peers find time to share your emotions with each other?
- What do you think about the topics being covered under the environmental education curriculum?
- Do you check in with your students as to how they feel about the different concepts and the way it is being taught?
- Do you think emotions and feelings have a role to play in the way in which children connect with nature?
- Do you think it will be useful for you to gain awareness of your emotions and explore ways to manage the same?

- Do you think that this module could help you in imparting environmental education in your classroom?
- Have you come across any similar interventions before?
- Any other comments?
- Would you be interested in becoming a part of the pilot workshop?

10.2. Annexure II: Nature-Based SEL Framework

Chapters	SEL Component	Goals / Objectives of The Journey	Outcomes
Finding oneness with Nature	Self-Awareness	The first part of the module will focus on developing a sense of personal awareness. Teachers and educators will be encouraged to explore their perception of the self, and how that is intertwined with their feelings and emotions. This will then be linked with how they believe nature is contributing to their sense of self- awareness.	 Developing an awareness of one's own emotion Developing a sense of personal, social, and environmental identity Integrating personal, social, and environmental identities. Identifying one's emotions toward the
		 Objectives: Recognizing one's own emotions and feelings through different nature-based practices. Creating an image of oneself - based on different values and beliefs about ourselves. Identifying different external factors that may influence our sense of self - social, cultural, historical, and environmental identity. 	 community Identifying one's emotions towards nature. Recognizing the influence of social, cultural, and environmental interactions on one's own emotions Seeing oneself as a part of nature, and understanding the role of nature on the individual's sense of identity

The following table details out the key goals and objectives for the nature-based SEL framework.

		• Exploring how we see ourselves as a part of nature, and how nature defines our identity.		Developing of personal and emotional connection with nature
Finding Support in Nature	Self-Management	 Once the teachers/educators start becoming more regularly aware of their emotions, in the second stage, the teachers will explore ways of managing different emotions. In this phase, the focus will be on nature-based social-emotional learning, where teachers/educators will explore the connection between their emotions and the nature around them. Objectives: Becoming aware of how one manages their emotions in different situations Recognizing how emotions affect our interactions in different social and environmental settings Adopting better practices for the management of emotions Deepening the connection with nature by exploring nature-related practices for managing emotions. 	•	Managing our emotions in diverse social and environmental settings Recognition of one's existing management strategies for emotions Identifying how the present strategies need to be developed Setting personal, collective, and environmental goals Understanding how one's emotions affect social and environmental interactions Understanding how nature can support in managing our emotions, thoughts, and feelings.

Finding the	Social and	In this stage, the teachers and educators begin to place	•	Recognizing our social and		
'Us' within	Environmental	their personal sense of identity and self-awareness		environmental identity		
Nature	Awareness	within the larger social and environmental context.	•	Taking into consideration the		
		The focus is to understand how one's own emotions		perspectives of all beings		
		are influenced by social and environmental	•	Recognizing strengths in all beings		
		interactions and vice versa.	•	Showing concern, empathy, and		
				compassion for the feelings of other		
		Objectives:		beings		
		• Understanding the characteristics of the	•	Identifying diverse social and		
		community and the environment that gives us a		environmental norms, including unjust		
		sense of belongingness.		ones.		
		• Understanding how one's own emotions are	•	Understanding the influences of social,		
		influenced by social and environmental		cultural, and environmental systems on		
		interactions.		personal and collective emotions and		
		• Identifying how social and environmental		behaviour.		
		interactions can influence our emotions.	•	Understanding the interaction between		
				different systems (social, personal,		
				cultural, and environmental)		

Finding the	Relationship	In the fourth stage, the focus shifts from social and	•	Developing positive, emotional and
connections	Skills	environmental awareness, to understanding how one		sustained social and environmental
with Nature		can maintain social and environmental relationships. In		relationships
		this phase, the focus is on exploring how one can	•	Navigating settings with differing social,
		establish, maintain and nurture relationships that are		cultural and environmental demands and
		integral to their personal, social and environmental		scenarios.
		identities.	•	Practicing teamwork and collaborative
				problem-solving for addressing nature-
		Objectives:		related concerns
		• Recognizing the integral network of	•	Standing up for the rights of all beings
		relationships - at a personal, social and	•	Understanding diversity and practicing
		environmental level.		inclusivity of all social, emotional and
		• Exploring the influence of these relationships		environmental forms
		on our identities and emotions.		
		• Acknowledging the importance of these		
		relationships in our lives and understanding		
		how different relationships can be nurtured		
		differently.		
		• Exploring how our social relationships		
		influence our connection and relationship with		
		nature and vice versa.		

How can I Support Nature?	Responsible Decision Making	The final part of the module explores the role of emotions on the decisions we make and vice versa. The idea is to arrive at how one nurtures the ability to make caring and empathetic decisions that have a positive influence on the self, the society and the	•	Identifying solutions for personal, social and environmental problems Anticipating and evaluating the consequences of one's actions on personal, social and environmental
		 environment. Objectives: Gaining awareness about the impact of our choices on self, the society and the environment. Understanding the role of empathy and compassion in the decisions we make. Re-evaluating the ways in which we make decisions in our day-to-day lives. 	•	 wellbeing. Recognizing how critical thinking skills are useful in an environmental context. Reflecting on one's role to promote personal, community and nature's well- being Evaluating personal, community, institutional and interbeing impacts Evaluating the benefits and consequences of various actions for personal, social, and environmental well-being.

10.3. Annexure III: Teacher's Reflections – Pilot Program

A. Pre-Program Reflections

QUESTIONS	TEACHER 1	TEACHER 2	TEACHER 3	TEACHER 4	TEACHER 5
What	Not very pleasant, I	I validate and stay with	I have a close relationship	Quite aware of	Well, I have a deep
relationship	guess. I think I'm too	my emotions and	with my emotions. I am	emotions of self. Most	relationship with my
would you say	judgemental about	observe them. I try to	very sensitive to my own	often my emotions	emotions. Whatever
you share with	myself.	process them instead of	emotions as well as those of	link to specific	emotions I go
your emotions		distracting myself.	others, it has always been	instances or	through, I feel them
presently?			that way. I'm only now	surroundings.	with high intensity.
			learning how to wield this	Sometimes it is easy	Sometimes I don't
			as a strength, especially in	to regulate my	understand why they
			the classroom, with my	feelings and get back	are there. I am now
			students, with myself, and	into the moment while	learning to manage
			my loved ones. For most of	at other moments it	my emotions and
			my life it has felt like a	takes longer to pass	seeing them without
			weakness, however, now I	through those.	judging them.
			realize it adds a depth and		
			richness to my experience,		

			1 1.11.		
			and my ability to connect		
			with others where they are.		
How often do	Learning to do it	I reflect quite often and	Very often. My internal	Every morning of the	At least once a day. I
you check-in	regularly. Off and on	do check with myself	experience of life is just as	week.	realized when I check
with yourselves		on most days. I try to	vivid, if not more, than my		how I am feeling
in a week, as to		let go of the things	outer experience. The		consciously then I see
how you are		which are not under my	emotions I have, the		it from a third
feeling?		control. On some days I	connections my mind		person's perspective
		fail though.	makes, the patterns I		and do not react to it.
			recognise are all very		
			interesting parts of my		
			internal experience of life. I		
			check in once a day		
			generally, and I have micro		
			check ins with myself		
			whenever I need them		
Can you	Yes, I think I can	Yes.	I can, generally speaking.	Yes, usually I am able	Not always but yes
recognize the			Sometimes, it might be	to identify how I am	most of the time.
different			harder, so I use other	feeling and why.	What I don't know
emotions you			techniques to help me.		mostly is why do I
				1	

have experienced?					feel the way I do? Emotions tell us a lot about ourselves.
What are some	Thinking,	I usually have the habit	Continuing from the	Talk to people I trust	I talked to a loved
ways in which	overthinking, talking	of writing down quotes	previous question - I have a	and self-introspect.	one, went for a walk,
you manage your	about it to my husband	and dialogues which	strong relationship with	Try to look at the	watched something,
diverse		are relatable and	spirituality, and energy-	positive side of things.	listened to music,
emotions?		resonate with me from	based practices. I have	If still unable to	thought about
		books or any series that	completed my 3rd degree in	overcome those then I	something else,
		I have watched. I go	Reiki. So, if I need a little	take time and let my	taking my anger out.
		back and read them.	help with my feelings, I	emotions flow.	But sometimes none
		Cleaning and	usually do a bit of self-reiki,		of them work.
		organizing my	sometimes some form of		
		surroundings help me	meditation (maybe a		
		manage my emotions	walking meditation - sitting		
		and a warm shower. I	still is hard for me with my		
		also talk to my close	ADHD), or EFT helps a lot		
		friends if I'm having a	too.		
		bad day in particular			
		and I'm unable to			

		manage my emotions			
		on my own			
How would you	Missing walks/trails in	Still discovering and	I feel deeply connected to	Very close, healing,	I love nature a lot.
define your	a forest	exploring my	nature, its presence is	giving, rejuvenating,	Nature heals me and
present		relationship with	enough to soothe me and	nurturing.	keeps me grounded. I
relationship with		nature. Being in nature	remind me of what's 'real'		have this urge to be
nature?		and spending time	in life - trees, grass, our		in nature now.
		outdoors, going on	loved ones, spending time		
		walks brings a sense of	with them, breathing deeply		
		calm and peace which	and fully. As opposed to		
		helps me regulate my	zoom meetings, screens,		
		emotions	notifications, and other junk		
			that tends to clutter my		
			mind.		
What do the	Nature learning to me	The ability to be in a	Learning how to identify,	Nature Learning -	Nature learning is the
terms 'nature	is about exploring all	space, assimilate what	manage, and regulate our	learning from the very	one which happens in
learning' and	the wonderful things	it has to offer, enjoy the	emotions, connect with	natural way of things,	nature or with nature.
'emotional	and finding a	beauty of the present,	others, and maintain social	people, environment.	Emotional learning
learning' mean	connection with them.	being really present,	relationships using nature as	Emotional learning -	where we learn how
to you?	Like I said yesterday,	mindful and aware of	a medium and guide.	Learning about self-	

going to a forest feels	your space, trusting the	emotions, managing	to work with our
like coming home. It	process of nature and	them, interpersonal	emotions.
is very soothing and a	letting go of things	emotions.	
meditative experience	which are not under		
for me. I remember	one's control.		
reading about			
something called			
Shinrin Yoku, the			
Japanese word for			
forest bathing and I			
think I have			
experienced it every			
single time how			
calming it is for me.			
Emotional learning for			
me is about figuring			
out about my own self,			
who I am and how that			
knowledge about			
myself can help me in			
building better			
5			

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connections with those		
around me. On a		
personal level also I		
have come to realize		
its importance a lot in		
the last three four		
years but as a teacher		
also I realize how		
important it is for a		
teacher to learn how to		
be there for the young		
people you meet.		
There are so many		
people who need		
someone to listen to.		
Adolescence can be a		
lonely and challenging		
period. I remember		
how difficult it was		
for me and how that		
period of my life, the		

	emotions and Loneliness I felt then, and low self-esteem continue to affect me even today.				
As a teacher /	It directly has an	Personally, I believe	I work with students from	Very important. I need	The work that I do
educator, what	impact on the quality	that emotions are what	grades 1 to 8, and I find that	to connect with the	has everything to do
role does	of classes/ interactions	makes us human. It	I connect best with students	emotions of my	with connections.
emotions play in		connects us to each	when I am able to meet	learners, their interest,	And emotions are an
the work you do?		other and builds an	them halfway. This means	curiosity, boredom,	integral part of us
		understanding of	if I'm conducting an	pace of absorption to	hence they affect the
		everything around us.	interactive class, and one of	connect with them for	connection or
		Without emotions we	my students tells me not	exchange of	relationships because
		would be like	feeling so good, I can	knowledge. Their	they affect you.
		machines. As an	empathize with that and	emotional readiness	
		educator, emotions play	offer them an alternate way	allows them to be	
		a huge role in the work	of participating with the	open to learning and	
		that I do. It helps me	class which might be less	they cannot be pushed	
		connect with my	social. It also means I'm	into it. Giving their	
		children. I facilitate and	aware of how my emotions	emotions time and	

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	cater to the needs of	might affect them, on days I	space to learn	
	very young children	don't feel too good, I make	naturally by observing	
	(20 months to 6 /7	sure to be a little extra kind	and exploring	
	years). My role is to	with them as well as myself,		
	positively and	and give them the benefit of		
	sensitively help my	the doubt if needed, or defer		
	children in their	any decisions (about marks,		
	transitions from Home	assignments, indiscipline)		
	to School environment,	to the next day where I am		
	to build the trust so that	feeling more like myself so		
	they feel safe and	I can try to act according to		
	belonged. To provide a	my values as much as		
	space where they can	possible.		
	be who they are			
	without any prejudices,			
	to hold space for them			
	in the time of chaos, to			
	provide a scaffolding			
	when they have			
	difficulties in			
	understanding and			
	C			

r		1		i
	learning	to give them		
	the word	s to express		
	themselv	res, to be		
	patient a	nd observe		
	them in a	order to		
	understa	nd their		
	develop	nental needs		
	which in	cludes		
	physical	mental, social		
	and emo	tional needs.		
	As an in	dividual, I		
	strongly	believe that		
	whether	it is children or		
	adults, b	oth will thrive		
	and flour	rish in an		
	environr	nent where an		
	individu	al is respected,		
	accepted	for who they		
	are with	out any		
	judgmen	t and where		
	they hav	e the		

		opportunity to learn together, grow together and contribute together.			
Do you	In higher classes we		Yes, I take my students into	Letting learning take	Nature learning: I
incorporate	do occasionally have		the open lawns we have on	place naturally	want to but I have not
nature learning	conversations about		campus for classes, when	without following a	been able to. I am not
and emotional	emotions, sometimes		the weather is good. I try to	set process.	sure what emotional
learning in your	with the help of a		incorporate physical		learning is but i pay a
teaching-	story or sometimes		movement, it helps with		lot of attention on
learning	Just discussion.		students of all ages to		student's emotions as
approaches? If	Though these		release some energy, and		I talk to them about it
yes, in what ways	conversations are not		it's fun to be outside under		and listen to them. I
do you do the	as often as I would		the sun rather than in a class		also feel that the
same?	like them to be. I do		all day, even for me.		spaces should be
	feel I should be better				given to them to learn
	equipped to have these				to understand their
	conversations with				emotions and help
	young adults				them to discover
					ways to deal with
					their emotions.

What are your	Still curious what it is	I'm Looking forward to	•	Understanding ways of	Understand the	To understand more
key expectations	going to be like.	spending my time with		managing my stress	program and the	about socio-
from this	Looking forward to	each one of you and		and emotions as a	details of it. I have a	emotional aspects of
program?	learning anything that	learning and taking it		teacher	conviction that such a	learning. To
	is about nature or	forward in my journey.	•	Meeting like-minded	program will really	understand more
	about emotional well-			educators who love	help the teachers and	about my challenges
	being			nature, understand the	their students	and how to deal with
				importance of one's		them. To find tools
				emotions, and care for		for my social
				the students the way I		emotional learning
				do		for myself and
			•	Building and nurturing		students. To learn
				this little community of		from others in the
				educators		group.

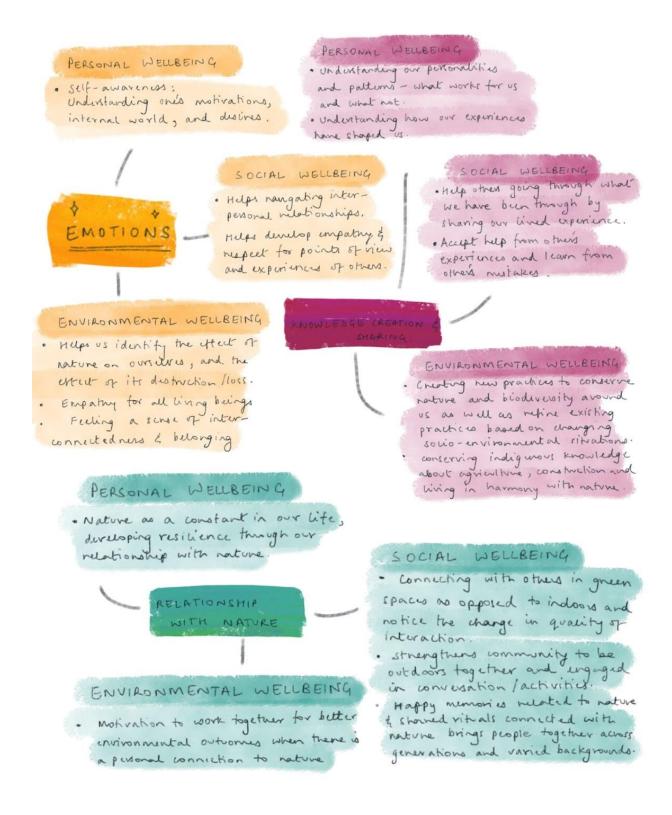
B. Goal-Setting Exercise

In the second session participants were encouraged to explore how they see the three core areas we are looking at in this program - our emotions, process of knowledge creation and sharing, and our relationship with nature - supporting your overall personal, social and environmental wellbeing. While reflecting, they also explored and shared what these different terms mean: Personal Well-Being, Social Well-Being and Environmental Well-Being.

TEACHER 2 - RESPONSE:

	Personal Well Being	Social Wellbeing	Environmental Wellbeing
Emotions	To be able to validate, process and stay with my emotions and let them pass.	To be aware of not letting my emotions affect the people around me.	To be mindful of the choices that I make while being in nature.
Knowledge creation and sharing	Observe, understand, and learn how different each living being is and how differently each one will express their emotions	To create awareness on what role nature plays in our wellbeing (Includes social, emotional and physical)	To help children and adults reconnect with nature. To understand the implications of our actions on nature and to be mindful.
Relationship with Nature	To spend more time outdoors, go on walks, to learn more about the flora and fauna of my region and understand Simple sustainable living	To engage and connect with people and gain insights from their experiences with nature.	Two quotes I came across recently made me think," We have borrowed our land from our children, let's hand it over to them in better shape". "What is your and your child's relationship with the real world?"

TEACHER 3 - RESPONSE:



A. Reflections from Session conducted on Self-Awareness (Finding Oneness with Nature)

QUESTIONS	TEACHER 1	TEACHER 2
What were your expectations from this session, prior to joining?	I had no expectations, honestly. However, the previous sessions were very interesting so I knew this one would be too.	I wasn't very sure about joining this session as I was traveling so my only expectation was that I be allowed to join on listening mode so I am very happy that I could attend it. I have been on this journey of self exploration and knowing myself since the last 5 to 6 years. There is a lot that I have unlearned to be a better person. I think a lot of growth has happened in the last 5 years but I think it is just the beginning and I am yet to learn so much more. But for starters one thing I want to learn is how to not beat myself up and also not let others affect me so much. So, I was hoping to hear something connected with that.
How was the experience for you, personally, in this session? And as a teacher?	Well, the session started off with us drawing and adding colours as per the prompts that were given. It was extremely helpful in recognizing how we see certain aspects of ourselves and our emotions.	I attended it while traveling but I still enjoyed every bit of it. While attending these two sessions I was thinking how wonderful it would be if we had such spaces to share even at our workplace. I am sure that all the work places will have some challenges and difficult people but I wish there was some support system everywhere. As teachers deal with young people, I think it is very important that we know who we are

		to be able to be there for our students. I think there are not enough safe spaces for teachers to be vulnerable. We are required to 'know it all' but that puts a lot of pressure. The session helped me see how we all are flawed humans with our own concerns on which we all are working and it is important to remember that we are a work in progress.
What were your key learnings from this session? How did these learnings make you feel?	I counted all of my blessings in this particular exercise.	I have been reading about the importance of mindfulness and self- awareness and like I said in the session, I tend to be very harsh with myself. While attending the session and hearing others talk, I realized how it is difficult for everyone and we all are looking for answers, ways to deal with things that are difficult for us. I think the practice of pausing and reflecting is very important to have a better perspective about things.
Do you think nature can contribute to our sense of self-awareness? If so, how?	Absolutely. There's so much you can learn from nature. If you observe it and spend some time outdoors, it has such wisdom that every tiny detail can teach you so much about life.	I think in the last five - years nature has played a key role in my life in bringing awareness about what I want from life and what my strengths are.

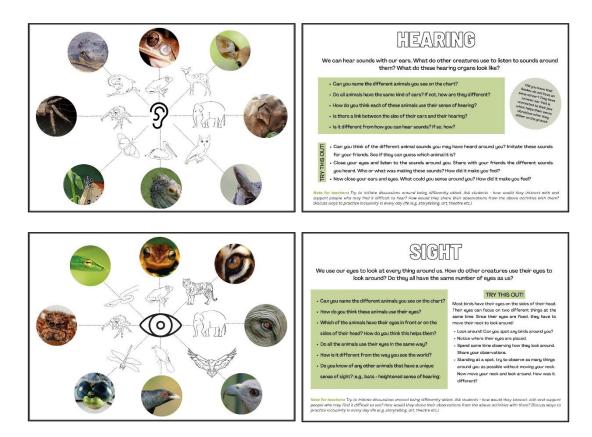
From the practices, what linkages do you draw between your personal sense of self-awareness and environmental identity?	Everything that we do, every choice that we make has consequences on the world around us. If I am more conscious about my choices maybe wherever I am there can be at least a little difference. Some people say individual actions don't account for much but I have learnt that they do.
Any other feedback /	The conversations in the sessions are
suggestions / comments -	enriching. I am just happy I
regarding session	happened to see the post about these
content, facilitator,	sessions and found courage to fill
overall interactions etc.	the form.

B. Reflections from Session conducted on Self-Management (Finding Support in Nature)

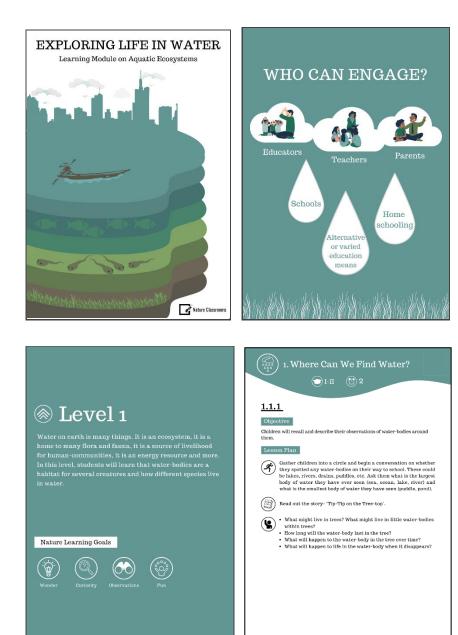
QUESTIONS	TEACHER 1
What were your expectations from this session, prior to joining?	I was hoping to explore some strategies that would help me in not giving too much attention to what others say and find strength in being true to myself. And the session did meet my expectations. It was very helpful.
How was the experience for you, personally, in this session? And as a teacher?	I really enjoyed the session. It was meditative.
What were your key learnings from this session? How did these learnings make you feel?	It made me feel light and wonderful about myself. I learnt so many different ways in which I can cope with stress. Plus, I also realized that some of the practices that I already do are useful as well. I used to think I don't put effort on my own to resolve things but I realized that there are certain things that I do but don't acknowledge my effort.

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What meaning and value do you	I have been wanting to start journaling but haven't
associate with self-management,	really started it. The guided activity helped me a lot in
post the session? And how do you	doing it meaningfully. The tools were useful and maybe
see yourself practicing it in your	I will use them for myself. NVC is also something
everyday life?	which has been very helpful in understanding myself
	and people around me. I came across it only two years
	back and I think it will take a while to internalize it.
Do you think nature can support	Yes, it can. This question reminds me of 'Shinrin
us in managing our emotions? If	Yoku'- forest bathing. Just being surrounded by trees
yes or no, how?	makes me feel nice. Hugging a tree makes one feel even
	better. In all, noticing birds, insects, squirrels it just
	helps me remember how wonderful the world is. It acts
	as an anchor sometimes when I feel lost.
Any other feedback / suggestions /	The third and the fourth sessions were lovely. Just want
comments - regarding session	to express gratitude to the facilitator for creating this
content, facilitator, overall	space and being kind and patient with us. Her and the
interactions etc.	participants enthusiasm is contagious. Very happy to be
	a part of this group.

10.4. Annexure IV: 'Our Senses' Resource



10.5. Annexure V: Snippets from the Water Module



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10.6. Annexure VI: Snapshots from the Workshop in Pachmarhi

