



Communicating S&T for Regenerative Ecological Futures

Eco Innovation | Eco Design | Eco Media | Eco Cultures

Igniting a Next Generation of Eco Intelligence for a Regenerative Ecological Future

PREAMBLE

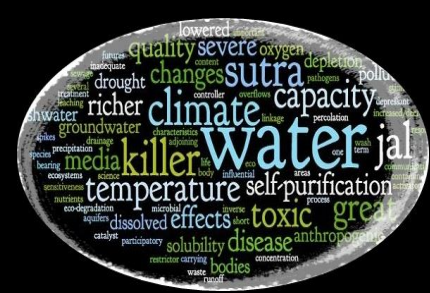
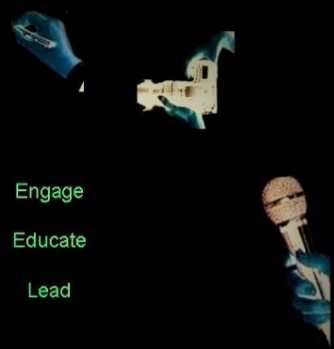
Effective science communication can change ways of community learning, peoples' access to knowledge & resources, and societal paradigms. The science behind management of ecological resources, habitat & ecosystems services is central to our wellbeing and ability to work. It thus addresses critical life cycle needs and complexities of social, economic and ecological nature.

The 'eco NEXT' initiatives are driven by S&T Communication skills centered upon eco-media, eco-design, eco-innovation & eco-cultures and support Youth Leadership equipped for building the future through a next generation of eco-intelligence, informed choices and decision making. In today's fast-paced world, role of media, design & innovation is critical in leveraging & furthering these goals. The initiatives focus upon responsiveness for building regenerative ecological futures. The leverage by eco media, eco design & eco innovation is intended for sharpening the integrated efforts for conservation & regenerative use of natural resources, and is specifically aimed at -

- Developing models in public guidance systems based on science communication, like location specific innovative initiatives for actionable learning and building field capacity for adopting scientific & best practices in transdisciplinary knowledge critical domains.
- Knowledge led equipping of youth for leadership and improvement of quality of life of specific target groups based on scientific approaches of 'Being-on-their-Own' and 'Collective response' to challenges and location specific problems.

Programme -in Charge

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PROJECTS AND ACTIVITIES

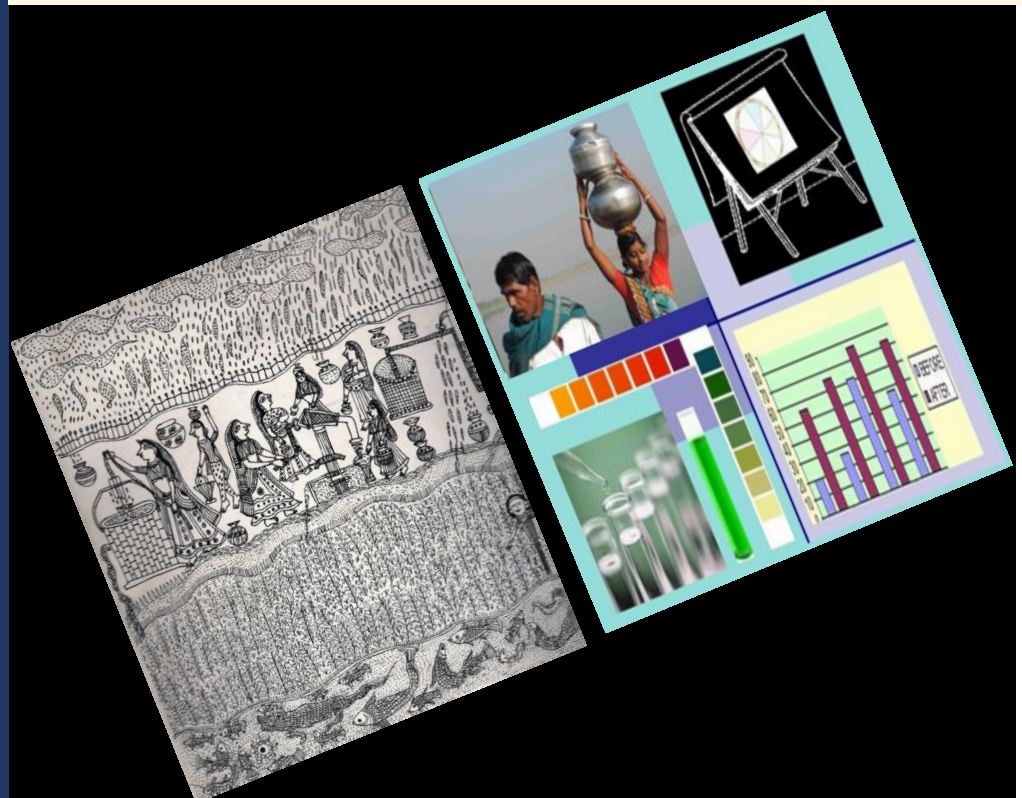
Projects & activities are supported in order to -

- Innovate, informalize and spread the messages of science with common man, scientists and future scientists
- Coordinate and support need specific field mobilization programmes for spreading and enhancing the reach and impact of messages
- Aid people to embark upon new modes of action by helping a re-invention of more resourceful & scientific mindset, capacity to think, decide & innovate
- Assessing the needs and evaluating the impact of science communication programmes in the subject areas

The physical & financial progress and technical content is closely monitored. Online submissions of pdf files of Quarterly Progress Reports and finally the Project Completion Report, also in a hard copy, are required in the prescribed formats. NCSTC and its nominated experts mentor the implementation. On-site reviews/Group Reviews/Evaluations of Final Outcome are invoked with annual, interim/need based & end line periodicity. Satisfactory utilization of funds for the approved purposes, delivery against objectives (original/modified) and compliance to the terms & conditions of grant-in-aid, & release of next instalment of grant are interlinked.

FOCUS

Guidelines & format are available under NCSTC section of DST website www.dst.gov.in and on www.onlinedst.gov.in where the proposals are to be submitted.



*'Vigyanen Swachham Sarvada
Vigyanen Haritam Sarvada'*

Mission eco NEXT

*S&T Communication for
Eco Cultures, Eco Media, Eco Design, Eco Innovation & Eco Solutions*

Vision: *Igniting a Next Generation of Eco-Intelligence for Regenerative Ecological Futures*

Mission: *To inspire and nurture the Eco Intelligent Youth & Young Change Maker*

Focus: Capacity, Competence Building Initiatives for Youth Engagement Trainings, Engagement, Site Specific Communication Resource Creation, and Change Making by Youth is in focus. The goal is to raise a dedicated & skilled cadre of youth equipped through transdisciplinary S&T Communication for Eco Media & Culture, Eco Design, Eco Innovation & Eco Solutions & Practices including alternative or novel farming & forestry practices for regenerative ecological futures through a next generation of eco-intelligence, informed choices and decision making, and also support National Youth Policy, Skilled India & Swachh Bharat missions.

The forthcoming phases of programme would focus upon initiatives in building real-time understanding of nature & its ecosystems, responsiveness, eco-design & eco-media literacy for promoting integrated efforts. The programme supports a direct and purposeful communicative paradigm, as Science Media & Eco Innovative & Eco Creative Youth leadership.

Capacity Building Methodology should be highly interactive and include case studies, critical inputs, presentations, focussed group discussions, science debates, FAQs, hands-on approach, individual & group assignments, Master Classes, presentations & feedback, Questionnaire/ quiz, field notes, plans for post training Field Initiatives, etc.

The criteria for selection of participants for the Trainings should be proposed which should be inclusive of their track of educating & inspiring the people, innovation mindset, scientific temper and positive ecological outlook.

:: Initiatives 2018-19::

'eco NEXT' focus for 2018-19 is upon the following initiatives detailed hereafter :

- # Eco Rise Challenge*
- # Eco Next 'Miles' Challenge*
- # Eco Routes*
- # Eco Leads*

'Eco Rise Challenge' in S&T Communication

AIM

Effective & purposeful S&T Communication can yield benefits which are transformatory & rooted in productive outcomes. The skills can be harnessed under a challenging context to alter not only behaviour but also the capacity to support community development & lifestyle choices linked to livelihoods, vocations & enterprise. The growth of Eco Next Initiatives of NCSTC has witnessed diverse and transdisciplinary options emerging in these directions.

The initiative aims to demonstrate that any region less endowed in terms of development, natural resource management, vulnerabilities of education, health, livelihood & enterprise, especially the SC/ST population predominant regions, but having strong Eco-cultural assets can rise by gaining assets like human resources especially in form of Young Change Makers who are groomed with S&T Communication skills. These Change Makers would communicate & promote and add assets in turn to the region based on Eco-solutions like Eco Innovation & Design Mind-set, Practices and lifestyle choices especially Eco-enterprises & Eco-Vocations. This should signify the rise of regions' endowments through sustainable use of Eco resources, thereby triggering far reaching resurgence & transformations.

PRIORITY AREAS FOR INTERVENTION

A selection of priority districts based on literacy rate, predominance of less endowed/developed locations &/or eco-sensitive regions, scarce resources for livelihood & agriculture, etc. is given at Annex I. The areas of intervention in the Less Endowed Regions (LERs) in such districts can be proposed along with strong rationale for proposed target area including other indicators of development, even beyond the criteria mentioned above. Single District Initiatives as well as Regional Initiatives (2 or more Districts) shall be supported.

ECO RISE GOALS

The *Eco Rise Goals* have been identified to yield returns in terms of numbers of youth sensitized, young change makers nurtured and eco-solutions propagated. It is hoped to reach LERs in up to 20 districts during 1st year, up to 40 districts during 2nd year and up to 60 districts during the 3rd year of the Eco Rise Challenge. These goals are further quantified as targets for 3 years as follows:

- I) To reach ~ 25 lakhs students from LERs in 60 districts through **Eco Next Talent Hunts** as detailed in Mission Eco Next Programme brochure on DST website
- II) Promoting 2500 Young Change makers in LERs in 36 states/UTs through S&T Communication based trainings - **Eco Eureka, Eco Next Studio & E³Labs Eco Next** & post-training engagements (**Annex II**) to *select numbers of trainees working in groups with 3-4 nos of participants who have successfully completed the trainings (but are not selected for stipend supported assignments, but each can also be offered one time honorarium Rs. 5000/-).*
- III) Promoting the endowment of 2000 kinds of **Eco Solutions** to Eco Innovation & Design and Eco -prise/Eco Vocational Challenges in LERs in 60 districts in first 3 years through post-training engagements of S&T Communication trainees (demonstrations & practices) and community ownership for sustained adoption.
- IV) To receive nominations based on multi-sectoral opinion poll in the challenge areas by project implementing agencies for the "Person of Eco NEXT Excellence" who show tireless

dedication and influencing capacity for Eco Next Mission Goals, and to identify them for the programme needs based on recommendations of Technical Advisory Committee for inducting the identified persons at a convention for an “Eco Next Hall of Fame” at national level.

V) **Eco Next “Consult”/Eco Next “Connect”**: Round Table Consultation Workshops (1-2 days): *Technical Assistance and Capacity Building, Sharing Experiences, Tools and Methodologies of effective handling of Eco Rise Challenges*

Representations from diverse sections of stakeholders shall share Experiences, Tools and Methodologies and synthesize innovative world views, while synergizing capacities and experiences especially under the following critical domains of field action and capacity of action groups -

- Needs assessment
- Planning and design
- Implementation
- Monitoring and evaluation
- Social Innovation
- Dialogue and Hand-holding for Eco-social support & Innovation

Suggested Stakeholders: Media, CSR, Banking/Investment/Venture Capital Managers, Not for Profit organizations, Educational and Technical Institutions, District Administration, PRIs, Influencers/Eco Next Persons, etc. chosen based on their experience in fostering cross-sector collaborations, and developing common languages and approaches for addressing complex community issues along with development of youth leadership.

HOW TO APPLY:

- The multi-component proposals are invited for the Eco Rise Goals mentioned above, in addition to regular details per guidelines and format, should also have ***Project Benefit & Delivery Statements*** under the proposed objectives and methodology giving quantified levels of the challenge undertaken versus the districts selected (ref I-III above, & List of Districts at Annex I), clearly described in terms of the following,
 - a. *the number of youth to be sensitized through Eco Next Talent Hunt*
 - b. *young change makers to be nurtured through trainings*
 - c. *number & kind of eco-solutions/eco-enterprises/eco-vocations to be propagated through science & technology communication*
 - d. *the rationale behind the targets proposed*
 - e. *know-how and do-how to achieve the targets*
- **Proposals are specifically invited from State S&T Councils, focussing on Aspirational Districts declared by Govt of India and indicated with asterisk (*) mark at ANNEX – I.**
- Project Proposers may refer to NCSTC Guidelines and format of proposal writing given at <http://www.dst.gov.in/scientific-programmes/st-and-socio-economic-development/national-council-science-technology-communication-ncstc>
- Submission are as per submission cycles announced on DST website and online only on www.onlinedst.gov.in

Eco NEXT 'Miles Challenge' in S&T Communication

AIM

Effective & far reaching S&T Communication can help address barriers created by inaccessibility, disruption, stress and vulnerability. The skills can be harnessed under a challenging context to alter not only behaviour but also the capacity to support community rehabilitation, ecologically balanced development & lifestyle choices. The growth of Eco Next Initiatives of NCSTC has witnessed diverse, transdisciplinary, transformatory options emerging in these directions.

The communities affected by natural disasters or man made ecological crises, can show a path to resilience by nurturing and adopting the eco-talents of young change makers & difference makers. These Change Makers would communicate & promote eco-resilience thereby triggering far reaching resurgence & transformations.

GOALS

Fostering and Re-shaping Eco-cultural Talents & Productive Eco Talents, especially for -

- Eco Torch bearers
- Young Eco Life Coaches providing Science based eco-restorative life coach & communication service
- Youth SHG as Eco-social enterprises
- Social Innovation
- Dialogue and Hand-holding for Eco-social support & Innovation
- Social Capital & Productive Eco Intelligence
- Communities of Eco Cultural Learning

APPROACH & ACTIVITIES

The initiative aims to demonstrate that reaching out, across and deeper is possible by crisis hot spot approach reinforced by eco-cultural, eco-health and eco-rehab centric science communication. Risk science communication and rehab science communication for Fragile Eco Systems & Challenged Communities are the core content areas in this endeavour. The challenged ecosystems and communities, the target of this initiative, can benefit from resulting eco-restoration and rehabilitation.

The extra miles necessary for the cause, are the Eco Next Miles, which normally one would not normally travel to reach the unreachable and to meet the challenges of S&T based communicative action for challenged ecosystems/ communities.

These Miles of Action would need to be travelled in unearthing and nurturing eco talents, ecological rehabilitation, and building communities of learning.

The outcome measures of these Miles would be the extent of severity of challenges & ecological gaps intended to be addressed through eco-science communication in terms of - *access, criticality, nature, scale & size of crises & challenges, and achievement goals in terms of numbers & kinds of young talents & Torchbearers or expected Community based Learning to meet the future, but not limited to these!*

Communicative Action		Eco Next Miles
Reaching out to :	Crises Hot Spots	Magnitude of inaccessibility/ complexity of the location Nature, scale & size of the crises & ecological issues to be addressed
Reaching out to:	Challenged Communities	Criticality of the challenges & ecological gaps identified to be addressed through Next generation ecological talents
Reaching across:	Community Based Learning	Goals in Community Based Learning
Reaching deeper:	Unearthing & Nurturing Young Eco Talent	Targeted numbers and kind of Young Eco Talents Targetted numbers and desired roles of Young Torchbearers

As recognition of excellence & contributions, nominations would be invited under project initiatives based on multi-sectoral opinion poll in the challenge areas by project implementing agencies for “Eco Next Person of Excellence” (year wise) who show exemplary dedication and influencing capacity for the cherished goals, and the selections announced based on recommendations of Technical Advisory Committee for the programme. The selected persons shall be inducted at national level to an “Eco Next Hall of Fame”.

The project activities are suggested to be a flow of science communication initiatives & events as follows:



HOW TO APPLY:

- For submitting multi-component proposals as mentioned above the Project Proposers may refer to details of Training modules and budgeting at **Annex II**. *The Eco Next Camps may be designed specific to locations.*
- NCSTC Guidelines and format of proposal writing given at <http://www.dst.gov.in/scientific-programmes/st-and-socio-economic-development/national-council-science-technology-communication-ncstc>
- Submission are online on www.onlinedst.gov.in as per submission cycles announced on DST website

‘Eco Routes’

the sub-regional pilot initiatives

‘Eco Routes’ are to be Multi-locational clusters of **sub-regional initiatives** aimed at spurring pilot sub-regional missions, for **less endowed or under stress**, yet eco-culturally rich hotspots, which would be developed by following means:

I **‘Eco NEXT Talent Hunts’ & ‘Eco Media Fests’**, have been conceptualized to leverage the Eco NEXT messages with youth exuberance and potential as multi-locational sub-regional initiatives. There shall be competitive events in the categories, i) Discovery Science & Eco Exploration, ii) Eco creativity, Eco-Design & Eco Media, and iii) Eco-innovation.

The activities should be designed for Rural & Urban Youth in clusters of 5-10 Districts, to select & promote promising Young Change Makers who can be further shortlisted for Capacity Development Modules or would develop Eco Talent Networks, with in Rs. 25 Lakhs, and can be inclusive of appropriate number of Capacity Development Modules as detailed in Annex II. The events may culminate as showcases/fests for Eco Media.

II **Eco Next Schools**, may be identified and recognized so, with NCSTC approval, as part of the project initiatives as those schools/academic institutions who

- Must have at least 2 teachers oriented as Eco Next Associates through their participation in E3 Labs/Eco Eureka/Studio Eco Next Trainings or Eco Next Camps
- Eco Next Associate must have nurtured & coached at least 2 Young Change Makers
- Young Change Makers must have helped create Eco solutions in the school or linked communities to be counted as Change in the making
- The School should aspire to be an Eco Smart School and demonstrate at least 5 Eco solutions to be counted on the path to become Eco Smart School
- Overall, the *Next Generation of Eco Intelligence* should be represented by the promising results for the school as yielded by Eco Talent Hunt, and Lead Teachers/Eco Next Associates rising up and nurturing young change makers

III **Eco Next “Consult”/Eco Next “Connect”**: Also an NCSTC coordinated activity, these Consultation Workshops (1-2 days) are meant for *Technical Assistance and Capacity Building, Sharing Experiences, Tools and Methodologies of effective handling of Eco Next Initiatives*. Representations from diverse sections of stakeholders shall share Experiences, Tools and Methodologies and synthesize innovative world views, while synergizing capacities and experiences especially under the following critical domains of field action and capacity of action groups – Needs assessment, Planning and design, Implementation, Monitoring and evaluation, Social Innovation, and Dialogue and Hand-holding for Eco-social support & Innovation

Suggested Stakeholders: Media, CSR, Banking/Investment/Venture Capital Managers, Not for Profit organizations, Educational and Technical Institutions, District Administration, PRIs, Influencers/Eco Next Persons, etc. chosen based on their experience in fostering cross-sector collaborations, and developing common languages and approaches for addressing complex community issues along with development of youth leadership. **Ideas and concepts only, not proposals, are invited for expanding this initiative & developing the route map further.**

IV **Eco NEXT Media Labs**, an NCSTC coordinated initiative has a trail & road map dotted with **representative** ecological hotspots which are **less endowed or under stress**, yet eco-culturally rich. Starting with a Brainstorming over Jaisamand ecosystems near Udaipur,

followed by an Eco Media Master Lab at Jaipur, Eco Media Lab travelled to Amarkantak, the origin of Narmada, then Mhow, the birthplace of Dr BR Ambedkar and aims to go on exploring the potential for youth aspirations in eco-cultural & media domains. Such Labs are organized under NCSTC coordination for orientation of promising young change makers, especially from science & media, not in project support mode, in regional collaboration with institutions hosting the Technical Advisory Committee meetings. An indicative map is ever evolving for future eco-travels with youth. **Ideas and concepts only, not proposals, are invited for expanding this initiative & developing the map further.**

HOW TO APPLY:

Proposals for activities at I, II & III above may be submitted online on www.onlinedst.gov.in as per submission cycles announced on DST website

Eco Leads

Youth Capacity Development & Leadership Initiatives

Studios Eco Next & Eco Eureka training workshops, and *Training of Trainers through E³ Labs*, adhering to modules & details given at Annex II, would continued to be supported in project mode as Capacity Development Initiatives aiming at regional/eco-regional resource creation & short term orientation of promising young change makers, especially from science & media for serving diverse priority categories of target groups like Media & Theatre students, Tribal population, Youth (Students/ NSS volunteers, village youth), and/or for themes suitable to different eco-regions.

*Central Themes of the Capacity Development Initiatives, and up to a min. of 2 Nos of respective **Post training Field Initiatives** need to be from the following categories –*

Swachham Sarvada : Science Communication for adoption of schools, rural/urban areas for triggering and sustaining best practices in Eco-sanitation & Innovation. *Resources: @ Rs. 50,000/- per year (IEC resources, activities, etc.) per field initiative.*

Haritam Sarvada: Science Communication for adoption of schools, areas under ecological stress, promotion of eco-innovative practices for ever green farming & horticulture, social forestry, aquaculture, etc. *Resources: @ Rs. 50,000/- per year (IEC resources, activities, etc.) per field initiative.*

Water Eco Health Clinics: Design, Development and supervision of Community Science Media & Communication Systems by youth for water ecosystems health & eco innovation. *Resources: @ Rs. 50,000/- per year (IEC resources, activities, etc.) for one module*

Eco Design & Eco Digital Clinics: Design, Development and supervision of Eco Design Communication Systems by trained youth for Community Science Media & Literacy by youth and eco-interpretation/eco consultations for eco-design, eco digital & eco-innovation skills. *Resources: @ Rs. 50,000/- per year (IEC resources, activities, etc.) for one module*

Eco Smart Schools: Design, development and supervision of School Science Media & Communication System by youth, and it

- may be part of the local school system as a modular component with special additional focus, curricular or extracurricular, or

both, on the concerned themes & should represent diversity and engagement with Ecological issues as an explicit purpose.

- should involve hands on learning, that is inquiry and outcome based, and science communication as alternative mode & unique approach to learning
- should provide an environment or experience that would attract students and communities from other school zones also, especially from challenged locations
- should help institutionalize and mainstream actionable *Eco* learning with neighbouring communities (through festivals, events, weekly markets, adoption of sites/action locations, etc.)
- should be able to encourage Eco Innovation Educators from teachers and stakeholders across the boundaries
- networking & handholding should be the key deliverables
- *Learning Resources*: @ Rs. 50,000/- per year for one module per school for IEC resources, activities, etc.

STATES/UTs	ECO RISE CHALLENGE DISTRICTS
Andhra Pradesh	Anantapur, Karimnagar, Kurnool, Nalgonda, Prakasam, Srikakulam, Vizianagaram*
Bihar	Araria*, Banka*, Begusarai*, Bhagalpur, Darbhanga, East Champaran, Gaya*, Jamui*, Kaimur, Katihar*, Khagaria*, Kishanganj, Madhepura, Madhubani, Muzaffarpur*, Nalanda, Nawada*, Purnia*, Saharsa, Samastipur, Saran, Sheikhpura*, Sheohar, Sitamarhi*, Supal, West Champaran
Chhattisgarh	Bastar*, Balod, Balrampur-Ramanujganj district, Bemetara, Bijapur*, Dakshin Bastar (Dantewada*), Kabirdham, Kondagaon*, Mungeli, Narayanpur*, Sarguja, Sukma*
Gujarat	Banaskantha, Dahod, Dang Devbhoomi Dwarka, Kutch, Panchmahal/Mahisagar, Patan
Haryana	Charkhi Dadri, Mahendragarh, Mewat*/ Nuh, Panchkula
Jharkhand	Chatra*, Deoghar, Dumka*, Garhwa*, Girdih*, Godda*, Jamtara, Khunti*, Latehar*, Pakur*, Palamu*, Sahibganj*, West Singhbhum
Karnataka	Chamrajnagar, Kalaburgi (Gulbarga), Kodagud, Mandya, Raichur*, Shimoga, Vijayapura (Bijapur), Yadgir*
Kerala	Kottayam, Alappuzha, Palghat, Wayanad*
Madhya Pradesh	Agar Malwa, Alirajpur, Barwani*, Burhanpur, Chhatarpur*, Dhar, Dindori, Guna*, Jhabua, Khargone, Mandla, Panna, Rajgarh, Sheopur, Shivpuri, Sidhi, Singrauli*, Tikamgarh, West Nimar,
Maharashtra	Aurangabad, Gadchiroli*, Jalna, Nandurbar*, Osmanabad*, Parbhani, Sangli, Yavatmal
Odisha	Balasore, Balangir*, Bhadrak, Gajapati*, Kalahandi*, Koraput*, Malkangiri*, Mayurbhanj, Nabarangpur, Nuapada, Rayagada*
Punjab	Amritsar (Harike), Bhatinda, Muktsar Sahib, Mansa
Rajasthan	Banswara, Baran*, Bhilwara, Bundi, Chittaurgarh, Dungarpur, Jaisalmer*, Jalor, Jhalawar, Nagaur, Pratapgarh, Tonk
Tamil Nadu	Dindigul, Madurai, Rameshwaram, Salem, Thirunelveli, Tirupur
Telangana	Adilabad*, Khammam*, Mahbubnagar, Medak, Nizamabad
Uttar Pradesh	Bahraich*, Balrampur*, Banda, Barabanki, Bareilly, Budaun, Chitrakoot*, Farrukhabad, Fatehpur*, Gonda, Hardoi, Jyotiba Phule Nagar, Kasganj*/Kanshi Ram Nagar, Kaushambi, Kheri- Lakhimpur, Lalitpur, Maharajganj, Mahoba, Moradabad, Pilibhit, Rampur,

West Bengal	Shahjahanpur, Shamli, Shrawasti*, Siddharthnagar*, Sitapur, Sonbhadra Bankura, Birbhum*, Dakshin Dinajpur, Malda*, Murshidabad*, Puruliya, Uttar Dinajpur
NORTH EASTERN & MOUNTAINOUS STATES	
Arunachal Pradesh	Anjaw, Changlang, Changlang, Dibang Valley, East Kameng, Kurung Kumey, Lower Subansiri /Ziro, Tawang, Tirap, Upper Siang, Upper Subansiri
Assam	Baksa*, Barpeta*, Bongaigaon, Chirang, Darrang*, Dhemaji, Dibrugarh*(Maujili), Dhubri*, Hailakandi*, Morigaon, Odalguri*, Silchar
Himachal Pradesh	Chamba Kinnaur, Lahaul and Spiti, Sirmour, Udaipur
Jammu and Kashmir	Annatnag, Badgam, Bandipora, Doda, Ganderbal, Kishtwar, Kulgam, Kupwara*, Leh, Ramban, Reasi, Shupiyan, Udhampur
Manipur	Senapati
Meghalaya	East Khasi Hills, Jaintia Hills, Garo Hills
Mizoram	Aizawl
Nagaland	Dimapur, Mon
Sikkim	East Sikkim
Tripura	Dhalai*
Uttarakhand	Haridwar*, Pauri Garhwal, Pithoragarh, T Garhwal, US Nagar
UNION TERRITORIES	North and Middle Andaman, Dadra and Nagar Haveli, Daman and Diu, Lakshadweep, Nicobar, Puducherry, South Andaman, South Goa

() Proposals are specifically invited from State S&T Councils, focussing on Aspirational Districts declared by Govt of India and indicated with asterisk mark.*

TRAINING MODULES

Studio Eco Next, Eco Eureka & E³ Lab

“Studio eco NEXT”

- Youth Eco Media, Arts, Culture & Interpretations Trainings

Project duration 6 month to 1 yrs for a series of Trainings inclusive of post Trainings assignments, with budget components given below (a)-(f) in addition to budget heads as per DST norms like Project Staff, Overheads, etc., overall with in Rs. 20 Lakhs.

(a) 5 days inclusive of 1 day of Experiential Outdoor, for Site Specific Hands-on Studio Trainings for Science Communication Products/ Resource Creation, up to 20 trainees per batch up to @ Rs. 3,00,000/- per batch	(b) Site recording tools & digital/ media instruments up to Rs. 75,000/-	© Resource Development on Eco Media Capacity Building up to Rs. 75,000/-	(d) Monitoring, Evaluation, Review, Documentation up to Rs.50,000/	(e) Travel & Contingency up to Rs. 50,000/	(f) Support for Post Training assignments to select number of participants (up to 10%) as Eco Creatives/ Eco Media Associates with a token stipend @ 5000/- pm. (3 months) based on evaluation by implementing organization & review/technical vetting by NCSTC
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Methodology, Work Plan & Core Content Modules

Methodology & Work Plan should follow a Youth centric, eco-regional/ eco-habitat & heritage, culture & science based approach to understand & interpret ecological issues for promoting communities engagement, community leadership & professional development of youth. Capacity & competence may be promoted in Interpretive Science Communication & Natural Heritage Science Communication & eco-creations. *Proposals should provide focussed methodology & work plan* giving criteria for selection of participants, feedback & impact assessment, and day-wise details of sessions/activities linked with respective resources/resource persons on the following core modules :

Module #1	Module #2	Module #3	Module #4	Module #5	Module #6
Assessment: Eco-sight & outlook, reasoning, aptitude and attitudes of the	Orientation with basic eco-concepts:	Site recording, design & development of science	Field Lab/Trails in Eco cultural &	Eco Learning Resource Enrichment (based on	“Youth Portfolio” by participants as per NCSTC

trainees, aptitude for print, electronic & ICT including technology like GIS & GPS, mixed media, new media, etc.	Eco-systems & Sustainability, Climate Change, Biodiversity, Natural/renewable resources, Spatial & Temporal Attributes of eco sources, Health of ecosystems, Eco-degradation & restoration, Eco-Innovation & Technologies especially with Eco Digital Skills, Eco-performance, Ecological Values & Charter for Young Change makers on Scientific Temper & Ecological duties (Annex III)	communication/eco-media products: Surveys, ecological landscapes & profiles, eco-interpretation, narrative & artistic creations, documentation, photo/videography, mapping, GPS assisted mapping, eco digital skills, etc.	Eco media Interpretation	outcomes in Eco Media, Arts & Cultural Capacity Building)	framework (Annex IV).
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“Eco Eureka”

- Youth Engagement trainings for *Nature, Labs & Youth Connections for Eco-innovation & community leadership*

Project duration 6 month to 1 yrs, with budget components given below (a)-(f) in addition to budget heads as per DST norms like Project Staff, Overheads, etc., overall with in Rs. 20 Lakhs.

(a) 5 days of Youth Engagement for <i>Nature, Labs & Youth Connections for Eco-innovation & community leadership</i> including experiential camping of 1 day, upto 25 trainees per batch, upto Rs. 2.5 lakh per Training	(b) Hands-on-science instruments & accessories upto Rs. 75,000/-	© Resource Enrichment based on outcomes for Capacity Building (Rs. 50,000/-)	(d) Monitoring, Evaluation, Review, Documentation upto Rs.50,000/-	(e) Travel & Contingency upto Rs. 50,000/-	(f) Post Training assignments, may be supported to select number of participants (upto 10%) as <i>Eco Eureka Fellows</i> , with a token stipend @ 5000/- pm. (3 months) based on evaluation by implementing organization &
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Methodology, Work Plan & Core Content Modules

Methodology & Work plan should address- Exposure, eco-interpretation & experiential action learning module for Nature- lab- Youth connections for *Eco –innovation & community leadership*. *Proposals should provide focussed methodology & work plan* giving criteria for selection of participants, feedback & impact assessment, and *day-wise details of sessions/activities linked with respective resources/resource persons on the following core modules (but not limited to the same):*

<i>Module #1</i>	<i>Module #2</i>	<i>Module #3</i>	<i>Module #4</i>	<i>Module #5</i>	<i>Module #6</i>
<p>Assessment: Eco-sight & outlook, reasoning, aptitude and attitudes of the trainees</p> <p>Ecological Values & Charter for Young Change makers on Scientific Temper & Ecological duties (Annex III)</p>	<p>Orientation with basic eco-concepts:</p> <ul style="list-style-type: none"> • Nature, Labs & Youth Connections • Science, nature conservation and Eco restoration • Nature base solutions, co-creation & eco-innovation • Eco-habitat, Eco-sanitation, WaSH, & Renewable Resources for sustainable futures 	<p>Eco Exploration for Evidence:</p> <p>Photo/ video documentation of evidence, mapping, GPS assisted mapping, ecological landscapes & profiles, eco digital skills, eco-interpretation etc. Documentation, Communication, Education & public awareness, Impact & Outcome mapping.</p>	<p>Eco Exploration for Evidence:</p> <p>Hands-on, Lab & outdoor assignments</p> <p>Field Eco Lab/Exploratory Trails in Eco cultural Interpretation</p>	<p>Learning Resource Enrichment for Capacity Building</p>	<p>“Youth Portfolio” by participants as per NCSTC framework (Annex IV).</p>

“E³ Labs”

- *Training of Trainers in Eco Media, Eco Design & Eco Innovation centric science Communication: ‘Hands-on-Science Training of Young Educators through engagement with evidence based S&T Media, Design, Digital & Innovation Media, especially for Trainers like Eco Media Educators, Eco Creatives, Eco Educators, & also the Young Change Makers & exchange of eco-learning, by means of igniting youth leadership and organizational capacity building.*

Project duration 6 month to 1 yrs for a series of trainings, *with budget components given below (a)-(f) in addition to budget heads as per DST norms like Project Staff, Overheads, etc., overall with in Rs. 25 Lakhs.*

(a) 5 Days of motivation, skill & competence building, up to 20 participants per batch, up to Rs. 3.50 Lakh per batch	(b) Hands-on-science instruments, training kits & accessories up to Rs. 100,000/-	© Resource Enrichment for Capacity Building based on outcomes (Rs. 75,000/-)	(d) Monitoring, Evaluation, Review, Documentation up to Rs.50,000/-	(e) Travel & Contingency up to Rs. 50,000/-	(f) A select no. of successful participants (20%) to be supported as Eco Media /Eco Innovation Educators or Young Community Advisors for their Field Initiatives (Post Trainings, Ref Annex) with a token honorarium/ stipend @ Rs. 5,000/- for in-service &Rs. 10,000/- p.m. X 6 months for not in service participants, based on evaluation by implementing organization & review/technical vetting by NCSTC.
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Methodology, Work Plan & Core Content Modules

Methodology & Work plan should address *youth engagement with evidence based S&T Media for Eco Innovation & Performance for exchange of eco-learning, by means of igniting youth leadership and organizational capacity building. Proposals should provide **focussed methodology & work plan** giving criteria for selection of participants, feedback & impact assessment, and day to day schedule of capacity development activities linked with respective resource persons may be proposed based on the NCSTC core curriculum given below. Criteria for selection of participants should also be proposed inclusive of their continuing track of empowering, educating & inspiring the people, innovation mindset, scientific temper and positive ecological outlook.*

Core competencies: Communication, Working with People, Drive for Results	1st Day	Pre Lunch Session # 1 Tutorials & Quiz Multidisciplinary nature of Eco & Sustainability Science Communication (concepts, practices & resource agencies)	Pre- Lunch Session # 2 Interactive Talks & Quiz COMMUNITY LEARNING & PRACTICES: <ul style="list-style-type: none"> • Ecological Values & Charter for Young Change makers on Scientific Temper & Ecological duties (Annex III) • Role of policy in shaping the Eco landscapes and raising ecological performance • Priority humanitarian needs versus sustaining Eco Systems Services 	Lunch Hours: Handouts Questionnaire / quiz for submission next day	Post Lunch Sessions # 3 & 4 (A) EXPERIENTIAL LEARNING/ ECO-EXPLORATORIES WITH ACTIVITIES LIKE <ul style="list-style-type: none"> • Scenario building, participatory mapping, eco-scaping, Eco cultural & Eco Media Interpretation etc.

Functional & Experiential Competency

2nd/3rd Day

Recap of prev day quest/quiz
EXPOSURE & FIELD IMMERSION

- 1) Visits to ecological hotspots
- 2) Identification of entities working in the *Eco & Innovation* sphere & networking
- 3) Developing *eco-innovation, design, eco digital & media leads* for livelihood options, mitigation & adaptation to ecological risks, etc.
- 3) Interaction with media

COMMUNITY LEARNING & PRACTICES:

- Ecological Values & Charter for Young Change makers on Scientific Temper & Ecological duties
- Role of policy in shaping the Eco landscapes and raising ecological performance
- Priority humanitarian needs versus sustaining Eco Systems Services

Field Note for submission next day

- Eco- innovation – concepts, designs, prototypes/demo models, field experiments, etc.
- Games & role play, design/ calculation workouts, eco-media lead generation & communication
- Reflecting on every day learnings, opinion leadership, sharing, co-travelling, counselling, advising, consulting, educating, etc.

Technical & Functional Competency

2nd/3rd Day

Recap of prev day questionnaire/ quiz
ECO-SYSTEMS®IONAL ECOLOGIES

- Eco-systems, Eco-Regions & Biodiversity, global warming, etc.
- Ecological Risk Assessments, audit & budgeting, Eco-systems services

ISSUES OF LOCAL IMPORTANCE

- basic knowledge
- problems, management, technology, best practices & innovation options
- role of eco-media and other outreach methodologies in promoting eco-innovation & best practices

Questionnaire /quiz for submission next day

(B) MASTERCLASSES (2-3 Nos) by scientist/technologist/agriculturist/ persons of excellence in the area, etc.

ECO RISK PREPAREDNESS (acute, post-acute, protracted, chronic crises)

Technical & Functional Competency

4th Day

Recap of prev day questionnaire/ quiz
TOOLS, TECHNIQUES AND ECO-INNOVATIONS

Case studies, quality- risk understanding, assessment & reduction: Water, Land and Forest Ecosystems, atmospheric environment, etc.

ISSUES OF LOCAL IMPORTANCE:

- potential innovative solutions for Ecological challenges at the household, community and eco-regional level

Questionnaire /quiz for submission next day

Consolidation & planning for future

5 th Day	<p>Recap of prev day questionnaire/ quizz</p> <p>EXPOSURE & FIELD IMMERSION</p> <p>1) Visits to ecological hotspots</p> <p>2) Identification of entities working in the <i>Eco & Innovation</i> sphere & networking</p> <p>3) Developing <i>eco- innovation leads for livelihood options, mitigation & adaptation to ecological risks, etc. & compilation of self- learning resources</i></p> <p>3) Interaction with media</p> <p>4) “Youth Portfolio” of the participant (Annex IV)</p>	<p>Field Eco Lab/ Trails in Eco cultural & Eco Media Interpretation</p>	<p><i>Proposed plans for Field Initiatives</i></p>
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**YOUNG CHANGE MAKER'S
CHARTER
OF SCIENTIFIC TEMPER & ECOLOGICAL DUTIES**

Preamble: *We, the enlightened youth of India, do hereby solemnly affirm and dedicate ourselves to rise in love and sacrifice for humanity and uphold the values for a peaceful, harmonious and thriving natural world, and we hereby resolve that –*

Article 1: It shall be our humble and onerous endeavour & duty to stand for Ecological Integrity of our motherland.

Article 2: It shall be our commitment to our inner voice that tells us to live by scientific outlook and decide our day to day ecological responsibilities.

Article 3: It shall be our foremost ecological duty to nurture the scientific temper of ours and people of our motherland.

Article 4: It shall be our utmost care and duty to give back in greater measure to our common natural heritage than we receive from it.

Article 5: It shall be our self commanding ecological duty to create, value and preserve the resilience of our ecosystems as that alone can ensure a scientific and sustainable way of our co-existence.

Article 6: It shall be our utmost devotion to carry on the learning and living rooted in timeless traditions of eco-friendly living and valuing the harmonious ecological world order.

Article 7: It shall be our collective and individual duty to help our people meet the present and future with out ecological dis-privilege or deprivation for any one.

Article 8: It shall be our sacrosanct ecological duty to rise to mitigate and adapt to ecological upheavals wisely and with a loving conscience.

Article 9: It shall be our restorative ecological duty and scientific temper to offer ourselves to check ecological degradation and restore ecological imbalances near us and far, as much as we can.

Article 10: It shall be our missionary spirit and duty to be ever rising to the cause of rescue, rehabilitation and revival in the face of ecological disasters.

Article 11: It shall be our duty to help our people to create a 'Sustainable Society' based on the Principles of maintaining peace, overcoming poverty and creating economic equality, securing fundamental human rights, establishing democracy and freedom and conserving the Ecology and Natural Resources.

*Overall, It shall be the lifework of us all **Young Change Makers**, to be ever self sacrificing and contributing to building of scientific temper, ecological preservation and renewal so that we bequeath to future generations a better planet with healthier ecological relations.*

(Authored by Dr Pamposh Kumar & Dr Afroz Ahmad)

**ECO NEXT
YOUTH PORTFOLIO**
of
Inteerpertation & Evidence

Tagline/Motto:

1

PERSONAL

1.1

Name

1.2

Address

1.3

E mail

1.4

Contact No.

1.5

Career Goals

1.6

Education

1.7

**Professional
Qualification/
Trainings**

1.8

Work History

1.9

**Achievements/Awards/
Acclaims/ Specialization**

Initials of Course Coordinator

2

SELF APPRAISAL*(about 250 words)*

Candidate to work out and remove after filling in succeeding entries

2.1

Worksheets**Knowledge**

To be filled in by the candidate

2.2

Skills

To be filled in by the candidate

2.3

Attitudes

To be filled in by the candidate

2.4

Values

To be filled in by the candidate

2.5

Personal Attributes

To be filled in by the candidate

2.6

Professional Attributes

To be filled in by the candidate

Initials of Course Coordinator

3

APPRAISAL OF LEARNING OUTCOMES

Candidate to work out and remove after filling in succeeding entries

3.1

Worksheets**Scientific Outlook**

1-5 Star Ratings to be filled in by the course coordinator

(in words and symbols both)

3.2

Method of Science

1-5 Star Ratings to be filled in by the course coordinator

(in words and symbols both)

3.3

**Science & Technology
Communication
Proficiency**

1-5 Star Ratings to be filled in by the course coordinator

(in words and symbols both)

3.3.1

Verbal

3.3.2

Written

3.3.3

Creative

3.4

**Learning pathways
gained**

To be filled in by the course coordinator

(about 50 words)

3.5

**Competencies
strengthened**

To be filled in by the course coordinator

*(about 50 words)**(May add sub- sections)**(May add sub- sections)*

Initials of Course Coordinator

4	Worksheets	APPRAISAL OF INSPIRATIONAL WORK Candidate to work out and remove after filling in succeeding entries 1-5 Star Ratings to be filled in by the course coordinator <i>(in words and symbols both)</i>
4.1	Evidence Capture Skills	
4.2	Narrative Skills	
4.2.1	Verbal	
4.2.2	Written	
4.2.3	Creative	1-5 Star Ratings to be filled in by the course coordinator <i>(in words and symbols both)</i>
4.3	Torch bearing potential <i>(May add sub- sections)</i>	To be filled in by the course coordinator <i>(about 150 words)</i>
4.4	Spirit of Community mobilization/ change making <i>(May add sub- sections)</i>	To be filled in by the course coordinator <i>(about 150 words)</i>

Initials of Course Coordinator

5	DETAILED ENDORSEMENT OF ENGAGEMENT WITH ECO & WaSH SCIENCE	
5.1	Worksheets Observations and Evidences Captured (add more rows, if required)	Candidate to work out and remove after filling in succeeding entries To be filled in by the candidate
	Day 1	
	Day 2	
	Day 3	
	Day 4	
	Day 5	
5.2	Hypothesis & Validation (add more rows, if required)	Major Hypothesis Formed
	Hypothesis #1	To be filled in by the candidate (about 50 words)
	Hypothesis #2	To be filled in by the candidate (about 50 words)
		Validation / Experiments/ Hands-on-Science/ Inquiries
		To be filled in by the candidate (about 50 words)
		To be filled in by the candidate (about 50 words)
5.3	Conclusions & Scientific Interpretation (add more rows, if required)	Conclusions
	Conclusion #1	To be filled in by the candidate (about 50 words)
	Conclusion #2	To be filled in by the candidate (about 50 words)
		Scientific Interpretation
		To be filled in by the candidate (about 100 words)
		To be filled in by the candidate (about 100 words)
5.4	Documentation (written, digital, photo, and other documentation)	How done? To be filled in by the candidate (about 150 words)
5.5	Dissemination & Communication of Findings & Experiences (including feedback)	How done? To be filled in by the candidate (about 150 words)
5.6	Goals, Readiness & Commitments for Future	To be filled in by the candidate (about 200 words)

Initials of Course Coordinator

CERTIFICATE

*Certified that
Mr/Ms.....
S/D
actively participated in held on and
successfully engaged with activities & exercises as given in the accompanying
"Eco Next Youth Portfolio"
which demonstrates his/her preparedness, skills and strengths*

Sig. Head of the Organization **Sig. Course Coordinator** **Sig. NCSTC Prog-i-C**
*Disclaimer: This endorsement is for motivational purposes only, and shall not be a basis for legal or any
other kind of claims.*

'END OF DOCUMENT'