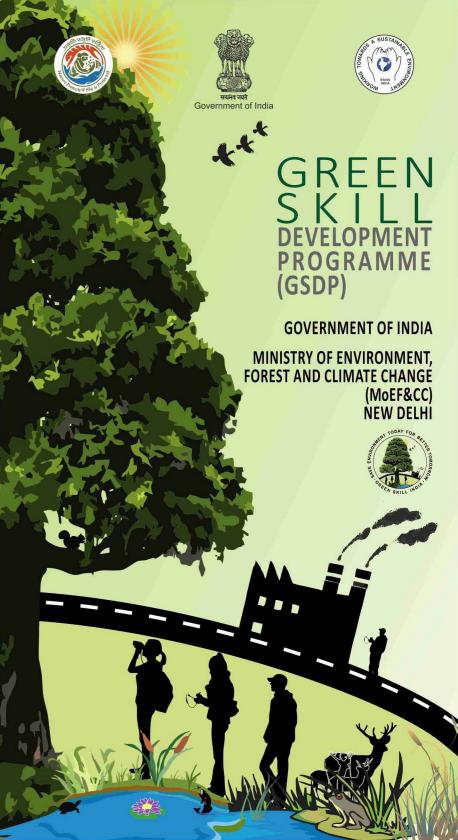
Proposed Certificate Courses/Training programmes under GSDP for Master Trainers (MTs)/ Specialists to commence in July, 2018 SI Title of Certificate Course with required No. **Minimum Qualification** Title of Certificate Course with required ENVIS Hubs/RPs and Institutions/Entities concerned SI **Prospective Employment** 17. Pollution Monitoring No. Minimum Qualification **Opportunities in** Air and Water Pollution 1. Value addition & marketing of NTFPs . AFRI, Jodhpur (d) HFRI, Shimla (c) Self-employment / Master Trainer 8 {Science Graduate/ Diploma in Engg.} BNHS, Mumbai (c) IPIRTI, Bengaluru (c) (Plant Origin) CSF, AVV, Coimbatore (a,d) 10. IWST, Bengaluru (d) (a) Lantana Furniture and Crafts DoE&F, Itanagar (c,d) 11. KSCSTE, TVM (c) (b) Coconut Shells & Fibre Handicrafts 5. DoE&F, Kavaratti (b) 12. RFRI, Jorhat (c) 13. TFRI, Jabalpur (d) (c) Bamboo Crafts 6. FRI, Dehradun (c.d) (d) NTFP Products / Medicinal Plants 7. F&ED, Ranchi (c) Soil Pollution {Science Graduate/ Diploma in Engg.} {(a, b, c) No minimum qualification, (d) Class 12th Pass} 18. Laboratory Technicians / Technical Assistants for Community based conservation of Mangroves CASMB, Parangipettai, Tamil Nadu Govt./Nurseries/Forest Departments electrical testing for environmental criteria GEC, Gandhinagar Ecosystem 3. BSI, Pune {ITI (Electrician/Wireman)/ Diploma/Degree {Class 10th Dropout} (Electrician/Wireman)} 3. Value addition & marketing of NTFPs 1. ASTEC, Guwahati (a) 2. IFP, Ranchi (b) Self-employment / Master Trainer 19. Emission Inventory (Animal Origin) {Graduate / Post Graduate / Engineering background} (a) Wild Bee Keeping and Processing (b) Lac & Tassar Cultivation 20. Para-Taxonomy [including Peoples Bio-diversity {Class 10th Pass} Register (PBR)] Nature Conservation & Livelihood: 1. WII, Dehradun (a, b) 3. GBPNIHESD, Almora Self-employment / Master Trainer {Science Graduate only (with Bio Science)} (a) River based - Ganga Prahari (b) Nature Interpretation 2. DoE&F, Kavaratti (d) 4. SCSTS, Gangtok (c) (c) Eco-tourism (d) Scuba Diving for marine life conservation # {Class 10th pass} 5. Quality Planting Material Producer IFGTB. Coimbatore Self-employment / Master Trainer {Class 10th pass} Sustain and Enhance Technical Knowledge in Solar Self-employment / Private Firms / . EPTRI, Hyderabad 4. DoEERS, J&K TERI, Patna Govt. bodies **Energy Systems** 3. Department of Environment - Chandigarh {Class 12th dropout} 21. Bird Identification and basic ornithology 5. KSCSTE, Thiruvananthapuram 7. Propagation and Management of Bamboo 1. FRI, Dehradun Self-employment / Nurseries / Botanical {Class 10th Dropout} . RFRI, Jorhat Gardens / Master Trainer HFRI, Shimla {Class 12th Pass} 3. IFP, Ranchi 7. TFRI, Jabalpur 22. Bird Migration and Migration study techniques 4. IWST, Bengaluru 8. F&ED, Ranchi {Graduate with basic knowledge of birds} 8. Management of Small Botanical Gardens 1. CPREEC, Chennai 4. AFRI, Jodhpur Self-employment/Nurseries/ Botanical 23. Wildlife Management using Geospatial Techniques 2. FRI, Dehradun TFRI, Jabalpur Gardens/Households/ Corporates/ {Class 12th Pass} 3. F&ED, Ranchi 6. KSCSTE, Thiruvananthapuram Govt./University campuses {Science Graduate} Plantation Techniques and Utilization of Renewable ICAR-CAZRI, Jodhpur Self Employment / Research Institutions 24. Monitoring Ecosystem Health using Invertebrates Energy in Arid Zone related to the theme {Science Graduate (Zoology / life sciences)} {Class 12th pass} 25. Plant Tissue Culture Techniques and its Applications DMI, Bhopal 10. Forest Fire Management Forest Departments {Science Graduate} (Class 12th pass) 11. River Dolphin Conservation ZSI, Patna ZSI / Research Institutions related to the 26. Waste Management: theme {Class 12th pass} Solid Waste, Biomedical Waste, Plastic Waste, E-Waste, Construction and Demolition Waste) 12. Forest Entomology & Pest Control 1. FRI, Dehradun 3. TFRI, Jabalpur Pest Control Agencies/ Companies/ Forest Departments/ Research 2. KSCSTE, Thiruvananthapuram {Science Graduate} {Graduate} Institutions 13. Valuation of Ecosystem Services and Green GDP 3. IISc, Bengaluru GRIDSS/ Research Institutions etc. 1. BNHS, Mumbai 2. EPTRI, Hyderabac 4. KSCSTE, Thiruvananthapuram 27. Laboratory Assistant for Eco-friendly Food testing {Graduate} Laboratory 14. Water Budgeting & Auditing 1. ADRI, Patna 2. EPTRI, Hyderabad Urban local bodies/ Panchayats in rural {Science Graduate} areas/ Industries/ Water treatment plants/ {Graduate} 28. Cleaner Production Assessment Research Institutions etc. 1. ICFRE, Dehradun (a) {Science Graduate} 15. Paralegal Practices 3. NLSIU, Bengaluru (b) Facilitation Centres in State Forest (a) Forestry Acts and Policy 2. NEHU, Shillong (b) Departments/ Law Firms 29. Greenbelt Development for Industries (b) Environmental Laws {Science Graduate} {Graduate} 30. City Environmental Surveyor 16. ETP/STP/CETP Operation and Maintenance ETP/STP/CETP Plants in 1. CECB, Raipur 3. EPTRI, Hyderabad 2. CSIR-NEERI, Nagpur GCPC, Gandhinagar 4. industries/Municipal Corporations/ {Science Graduate/ B.Tech (Env. Engg.) / B.Planing} {Science Graduate} Councils/Boards

| ENVIS Hubs/RPs and Ins | stitutions/Entities concerned | Prospective Employment Opportunities in |
|---|--|--|
| 1. ADRI, Patna 2. CPCB, Delhi 3. EPTRI, Hyderabad 4. IIT-ISM, Dhanbad 5. IITM, Pune 6. MPCB, Aizawl 7. NPCB, Dimapur 8. Puducherry PCC 17. NBRI, Lucknow | TSPCB, Agartala UEPPCB, Dehradun CPCB-RD, Bhopal CPCB-RD, Bengaluru CPCB-RD, Kolkata CPCB-RD, Lucknow CPCB-RD, Shillong CPCB-RD, Vadodara | CPCB/SPCB/ Municipal Corporations/ Councils |
| CERC, Gujarat | | Private firms/Govt. certifying |
| OLINO, Oujarat | | institutions/bodies |
| IITM, Pune } | | CPCB/SPCB/ Municipal Corporations/ Councils |
| 1. ASTEC, Guwahati 2. BNHS, Mumbai 3. BSI, Kolkata 4. BSI, Allahabad 5. BSI, Coimbatore 6. BSI, Dehradun 7. BSI, Gangtok 8. BSI, Itanagar 9. BSI, Jodhpur 10. BSI, Port Blair 11. BSI, Port Blair 12. CASMB, Parangipettai, Tamil Nadu 13. CES, Bhubaneswar 14. DESKU, Nadia, W. B. 1. BNHS, Mumbai WWF, Delhi | DoE, Imphal DoE&F, Itanagar EPTRI, Hyderabad GBPNIHESD, Almora GEC, Gandhinagar HIMCOSTE, Shimla IOM, Chennai SACON, Coimbatore ZSI, Kolkata ZSI, Itanagar ZSI, Jodhpur ZSI, Port Blair ZSI, Pune SACON, Coimbatore | GRIDSS / BSI / ZSI / FRI / ICFRE / SACON / Zoos / wildlife sanctuaries/ national parks / biosphere reserves / Botanical Gardens/ Bird Sanctuaries/ Nurseries/ wetland sites/WCCB Regional Offices/ State Biodiversity Boards/ Biodiversity Management Committees |
| ZSI, Chennai | | ZSI / Research Institutions related to the theme |
| BSI, Dehradun BSI, Shillong BSI, Yercaud DESKU, Nadia, W. Beng | 5. EPTRI, Hyderabad 6. KSCSTE, TVM 7. TFRI, Jabalpur al | Research Institutions related to the theme |
| AFRI, Jodhpur CPREEC, Chennai CSIR-NEERI, Nagpur DESKU, Nadia, W.Benga DzUM, Chennai EPTRI, Hyderabad FRI, Dehradun | F&ED, Ranchi IISc, Bengaluru KSCSTE, TVM NEHU, Shillong TCE, Madurai TFRI, Jabalpur TSPCB, Agartala | Municipal Corporations/ Councils |
| 1. CERC, Gujarat | 2. NIOH, Gujarat | Eco-friendly Food Testing Labs |
| GCPC, Gujarat | | Industries |
| NBRI, Lucknow | | Self-employment / Private Firms / Govt. bodies |
| SPA, Delhi | | Environmental Cell in States/ UTs/Development Authorities/ Municipal Corporations/ Councils |



Importance of Skilling India's Youth

ndia's youthful manpower, a result of the demographic dividend,need to be provided with skills and ability to tackle global challenges. The more we give importance to skill development the more competent youth will be. It is important to predict the possibilities of the future, and prepare for them today itself. We have to make India the skill capital of the world.

> - Shri Narendra Modi, Prime Minister of India

o protect the environmental right of our future generations, all of us have a green social responsibility. The fast evolving and emerging technologies in dynamic world to combat the menace of environmental degradation need to be complemented by specially trained and skilled manpower in various field at all levels. Imparting skill sets for greener transformation will generate employment opportunities and strengthen our resolve to conserve and preserve the priceless environment."

> - Dr. Harsh Vardhan, Minister, Environment, Forest and Climate Change

ndia's youth needed to be empowered with skill development with focussed training in their areas of interest. For instance, there is need for skill development at the grassroots to meet the challenges of hospitality and tourism industry in order to better harness India's tourism potential.

> - Dr. Mahesh Sharma, Minister of State, Environment, Forest and Climate Change

Green Skill Development Programme

The Ministry of Environment, Forest & Climate Change (MoEF&CC) has been implementing a Central Sector Scheme titled ENVIS since 1982-83. ENVIS, by providing scientific, technical and semi- technical information on various environmental issues, has served in facilitating policy formulation and environment management at all levels of Government as well as in decision-making aimed at environment protection and its improvement for sustaining good quality of life for all living beings. ENVIS is a decentralized network of 66 centres of which 31 Centres dealing with "State of the Environment and Related Issues" are hosted by State Government /UT Administrations, called ENVIS Hubs and remaining 35 Centres are hosted by environment-related governmental and non-governmental organisations/ institutes of professional excellence, with varied thematic mandates pertaining to environment, called the ENVIS Resource Partners (RPs).

Utilising the vast network and expertise of ENVIS Hubs/RPs, the Ministry for the first time, has taken up an initiative for skill development in the environment and forest sector to enable India's youth to get gainful employment and/or self employment, called the **Green Skill Development Programme (GSDP)**. The programme endeavours to develop green skilled workers having technical knowledge and commitment to sustainable development, which will help in the attainment of the Nationally Determined Contributions (NDCs), Sustainable Development Goals (SDGs), National Biodiversity Targets (NBTs), as well as Waste Management Rules (2016).

1. <u>Background</u>: India being the second most populous country in the world is bestowed with a large working population. India has advantage of reaping this demographic dividend. However, high drop-out rates from school coupled with poor vocational skills may hinder in reaping this dividend. There exists a demandsupply gap of skill sets, both cognitive and practical, at various levels in the Environment/ Forest fields in India.

Green skilling is crucial for making a transition from energy and emissions – intensive economy to cleaner and greener production and service patterns. It also prepares people for green jobs that contribute to preserving or restoring the quality of the environment, while improving human well-being and social equity. Hence activities under GSDP include process-based green skills such as, monitoring and managing activities such as waste, energy efficiency, impact minimization and assessment, etc. Facilitating the employment/self-employment of the skilled manpower is major goal of GSDP.

Realizing the demand for green skilled youth, the Green Skill Development Programme (GSDP) has been conceptualised and developed in MoEF&CC in consultation with the National Skill Development Agency (NSDA), the nodal agency for synergizing skill development initiatives in the country, under the Ministry of Skill Development & Entrepreneurship (MSDE). All skilling modules would be NSQF compliant. For more information on National Skill Qualification Framework (NSQF) and Common Norms please follow the link: http://www.nsda.gov.in/nsqf.html

2. Present Status: The first GSDP course was formulated for skilling Biodiversity Conservationists (Basic Course: 3 months-Completed) and Para-taxonomists (Advanced Course: 3 months -Ongoing) and is running on pilot basis in ten select districts (covering nine bio-geographic regions). The pilot course has received positive feedback from all stakeholders. For more information on Training Module and Success stories please follow the link: https://goo.gl/PzUTvy

3. Way Forward: With the success of the pilot programme, the next step is to take the skilling programme to an all India level and for all the courses to commence in July, 2018.

List of courses currently offered along with the prospective employment opportunities and ENVIS Hubs/RPs and Institutions/ Entities imparting the courses is given overleaf. The list is not finite and will be increased depending on the demand for the same.

Master Trainers/Specialists:

The list of the courses indicated above would be carried out by the respective ENVIS Hubs/RPs and Institutions/Entities. To expand the skill development programme at a larger scale, there is a requirement to train a pool of **Master Trainers/ Specialists** who can further train youth across the country. Hence, the Ministry would initially create a pool of master trainers in each of the above mentioned courses. As per the requirement of the skilling programme, Graduates in Science/Arts and even drop-outs would be trained to become master trainers.

These courses would commence from July, 2018 across India. These Master Trainers/Specialists would in turn then help in training participants in various States/UTs. These Master Trainers would form the backbone of the entire programme in the years to come. The frequency of conducting each programme in a year would depend on the total duration of each course which would vary from course to course and accordingly the number of skilled persons would increase. Duration of these courses ranges from 80 to 560 hours.

Project Mode: Skilling in Air/Water/Soil Pollution monitoring and management of STP / ETP / CETP operation and maintenance and waste management will be undertaken in project mode in specific stretches of rivers.

Collaborations:

The Ministry has held deliberations with various stakeholders and welcomes any collaboration/ participation/ partnership in the programme from national and international organisations/ institutes/ agencies etc. to build a strong network which can be utilised for green skilling under GSDP for sustainable conservation and management of our natural resources.

For any queries/feedback please feel free to contact us at:

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