

F.No.22-5/2013- HSMD
Government of India
Ministry of Environment, Forest and Climate Change
(HSM Division)

Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi – 110003.

Dated: 11th March, 2024

OFFICE MEMORANDUM

Subject: Minutes of the Project Steering Committee Meeting of the GEF funded project “Development and Promotion of Non-POPs Alternatives to DDT”-reg.

In reference to the meeting of the Project Steering Committee (PSC) meeting of the GEF funded project “Development and Promotion of Non-POPs Alternatives to DDT” held under the chairmanship of Shri Naresh Pal Gangwar, Additional Secretary, MoEF&CC on 22.12.2023 at 2:00 PM, the minutes of the PSC meeting are hereby enclosed.

2. This issues with the approval of the Competent Authority.

Encl: As stated


(Dr. Satyendra Kumar)
Director

To

1. Secretary, Ministry of Chemicals and Fertilizers, Shastri Bhawan, New Delhi-110001. Email: sec.cpc@nic.in
2. Secretary, Ministry of Health & Family Welfare, Nirman Bhawan, Maulana Azad Road, New Delhi-110011. Email: secyhfw@nic.in
3. Director, ICMR- National Institute of Malaria Research (Delhi campus) Sector 8, Dwarka, New Delhi-110077. Email: director@mrcindia.org
4. Director, National Centre for Disease Control, 22 – Sham Nath Marg, Delhi – 110 054. Email: dirnicd@nic.in
5. Director, National Center for Vector Borne Diseases Control, 22, SHAM NATH MARG, DELHI – 110054. Email: nvbdcp-mohfw@nic.in

6. Director, CSIR – National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur. Email: director@neeri.res.in
7. Director, Institute of Pesticide Formulation Technology, Sector-20, Udyog Vihar, Gurgaon-122016. Email: director@ipft.gov.in
8. Director, CSIR-National Botanical Research Institute, 436, Rana Pratap Marg, Lucknow – 226001. Email: director@nbri.res.in
9. Director, ICMR- Vector Control Research Centre, Medical Complex, Indira Nagar, Puducherry – 605006. Email: director.vcrc@icmr.gov.in
10. Director General, CIPET Head Office, T.V.K. Industrial Estate, Guindy, Chennai - 600 032. Email: dg@cipet.gov.in
11. Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032. Email: mscb.cpcb@nic.in
12. CMD, HIL (India) Limited, Scope Complex, Core 6, 2nd floor, 7, Lodhi road, New Delhi-110003. Email: hildirm@gmail.com
13. Head, Country Office, United Nations Environment Programme, UN House, 55 Lodi Estate, New Delhi, India – 110003. Email: bagai@un.org
14. Mr Jaime Moll de Alba, Director Regional Bureaus and Field Offices, Officer-in-Charge, UNIDO, New Delhi-110003
15. Ms. Carmela Centeno, Project Manager, UNIDO, Vienna International Centre, P.O. Box 300, A-1400 Vienna, Austria. Email: C.CENTENO@unido.org
16. Dr. Y P Ramdev, National Technical Advisor, UNIDO, UN House, 55 Lodhi Estate, New Delhi-110003. Email: Y.RAMDEV@unido.org
17. Country Representative, WHO Country Office, Nirman Bhawan, 537, A Wing, Maulana Azad Rd, New Delhi, Delhi 110011.

Copy to:

1. PPS to AS(NPG)
2. PS to Dir.(SK)
3. SO, HSMD

Minutes of the Project Steering Committee Meeting of the GEF funded project ‘Development and Promotion of non-POPs alternatives to DDT’ held on 22.12.2023

The meeting of the Project Steering Committee (PSC) of the GEF funded project ‘Development and Promotion of non-POPs alternatives to DDT’ was held on 22.12.2023 through hybrid mode. The meeting was chaired by **Shri Naresh Pal Gangwar, Additional Secretary, MoEFCC and National Project Director**. The list of participants is placed at **Annexure I**.

2. The aim of the project is to introduce bio- and botanical pesticides and other locally appropriate cost-effective and sustainable alternatives to DDT for reduction and eventual elimination of dependency on DDT in India. Following three products are to be manufactured by M/s HIL (India) Ltd. under the project:

- i. Long Lasting Insecticide Mosquito Net (LLIN),
- ii. *Bt* Based Pesticides (Suspension Concentrate, Wettable Powder and Spreading Oil), and
- iii. Neem Based Pesticides (Neem Oil, Floating Tablets, Mosquito Coil, Repellent Cream and Suspension Concentrate).

3. The project was initiated in June, 2015. PSC, during the last meeting held on 13.12.2022, had recommended the extension of the project by 24 months, w.e.f January, 2023 till December, 2024, with no additional cost, for completion of the project activities

4. The following five components of the project are being implemented by UNIDO and UNEP:

| Sl.No. | Component | Status |
|--------|--|--|
| i | <p>Component 1: Legislation, policy framework and institutional capacity for DDT alternatives throughout their life cycle (production, registration, use and disposal)</p> <p>Implementing agency: UNEP</p> <p>Executing agencies: Enviro Legal Defence Firm for gap analysis and Toxics Link for preparation of guidance documents</p> <p>GEF grant: USD 5,00,000</p> | <p>i. Gap Analysis report and action plan to identify legal requirements for the lifecycle of DDT alternatives and guidance documents on the alternatives have been prepared.</p> <p>ii. Reports to be reviewed by sub-committee/ TWG.</p> |

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| ii | <p>Component 2: Development and efficient pilot production of bio- and botanical pesticides as well as other alternatives to DDT ready for enhancement to large scale production</p> <p>Implementing agency: UNIDO</p> <p>Executing agencies: IPFT/CIPET/ICMR-VCRC for formulations, HIL for implementation</p> <p>GEF grant: USD 7,100,000</p> | <p>i. LLIN:</p> <ul style="list-style-type: none"> a. First stream of LLIN (5 million LLINs per annum) commissioned and operational b. Phase-II trial by VCRC-ICMR in progress. <p>Second stream of LLIN:</p> <ul style="list-style-type: none"> c. Application for CTE submitted in July 2023 d. Tender floated in October 2023 for award of contract for installation of equipment and commissioning of plant e. Installation of equipment and commissioning to be completed by July 2024 <p>ii. Neem-based pesticide:</p> <ul style="list-style-type: none"> f. Application for CTE submitted in July 2023. Site inspection completed. g. Installation of equipment is expected to be completed by August 2024 and commissioning and operationalization of plant is expected to be completed by December 2024. <p>iii. Bt based bio-pesticide:</p> <ul style="list-style-type: none"> a. Revised CIB&RC application submitted in Oct 2023. b. Application for CTE submitted in July 2023. Site inspection completed. c. Factories and Boilers Consent by April 2024. d. Installation of equipment is expected to be completed by |
|----|---|--|

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| | | October 2024 and commissioning of plant by December 2024 |
| iii | <p>Component 3: Promotion of five new dwarf cultivars of Neem with early maturity and higher limonoids yield for large scale cultivation</p> <p>Implementing agency: UNIDO</p> <p>Executing agency: NBRI</p> <p>GEF grant: USD 4,90,485</p> | <p>i. Multi-location trials (MLT) have been undertaken for evaluation of growth, yield and quality of four neem cultivars at five different agro climatic zones.</p> <p>ii. 4 varieties of neem dwarf cultivars have been identified, out of which 1 has been identified as the most potent, and will be propagated in large scale in different parts of the country using tissue culture technique and clonal propagation.</p> |
| iv | <p>Component 4: Development and Promotion of Integrated Vector Pest Management (IVPM)</p> <p>Implementing agency: UNEP</p> <p>Executing agencies: CPCB & NEERI</p> <p>GEF grant: USD 7,95,825</p> | <p>i. Modules on Integrated Vector Pest Management (IVPM) drafted.</p> <p>ii. IVPM modules to be reviewed by sub-committee/ TWG.</p> |
| v | <p>Component 5: Monitoring and Evaluation of the project</p> <p>Implementing agencies: UNIDO & UNEP</p> <p>GEF grant: USD 6,37,500</p> | Midterm evaluation of UNIDO and UNEP components completed. |

5. The expenditure of the project as on 15.11.2023 for the UNIDO components is USD 7.97 million of the GEF grant of \$8.3 million (96.04%). The expenditure of the UNEP components is \$ 9,30,722.66 as on 22.12.2023 out of the sanctioned funds of \$1.675 million (55%).

6. The last review meeting for the project was held on 05.12.2023 to review the implementation of the project in detail. The record of discussions of the review meeting is placed at **Annexure II**.

7. **Representative from HIL** highlighted the following points regarding the status of the activities for Component 2 of the project:

- i. For neem based pesticides, application for CIB&RC registration will be done after completion of storage stability by IPFT (expected by January 2025) and bio-efficacy studies by ICMR-NIMR (expected by the second quarter of 2025).
- ii. Commissioning of the second stream of LLIN is expected to be completed by July 2024, and commissioning of neem-based pesticide and Bt-based pesticide plants is expected to be completed by December 2024.

8. Subsequently, **representative from UNEP** highlighted the following points:

- i. If the updated workplan is approved, the final validation meeting will be held in September 2024.
- ii. For Component 1 of the project (gap analysis report), the updated completion of execution is September 2024 with the input due by February 2024.
- iii. Terminal report for the project will be completed and submitted by December 2024.

9. The following points were highlighted by the **representative from MoEF&CC**:

- i. The components of both UNIDO and UNEP are implemented and executed as a single project. Accordingly, all the proposed activities as approved by the PSC are to be carried out till 31.12.2024.
- ii. The work plan has been received from UNEP for utilization of the remaining funds concerning the UNEP components. Draft comments from MoEF&CC have been shared with UNEP regarding the workplan.
- iii. The work plan with the comments from MoEF&CC has been placed at **Annexure III**.
- iv. Sub-committees/TWG will review the reports prepared by UNEP under Components 1 and 4 and furnish the recommendations.
- v. All the training modules may be placed on the website of the project and the website of NCDC.

10. **Representative from NVBDCP** commented that the IVPM modules under Component 4 are not as per the requirement of the Programme. The modules may be used as part of trainings for the stakeholders regarding how to deal with the vector borne diseases.

It was further informed that LLIN is under the Programme and HIL has supplied LLIN to the Programme recently. Regarding the Bt based bio-pesticide, there is some discrepancy regarding the doses. NVBDCP has informed HIL to correct the discrepancies and get the product endorsed to be included in the Programme. Further, there needs to be more information on the neem-based larvicide.

11. **Representative from NBRI** requested for way forward regarding re-allocation of funds in different heads. NBRI may make a request to UNIDO regarding the matter for its consideration.

12. After deliberations, the **following decisions** have been recommended:

- i. Project tenure till 31.12.2024 as extended by PSC in its last meeting held on 13.12.2022 will be applicable for all the components of the project being implemented by UNIDO and UNEP.
- ii. HIL to share the procedure of grant of CIB&RC registration and the necessary legal provisions under which the application for permanent and provisional registration is submitted.

(Action: HIL)

- iii. MoEF&CC to communicate the updated work plan as approved by PSC to UNEP.

(Action: MoEF&CC)

- iv. TWG/ sub-committees to suggest activities to be undertaken for utilization of the remaining funds under Components 1 and 4.

(Action: TWG/ sub-committees)

- v. MoEF&CC to share the IVPM training modules with the Ministry of Health & Family Welfare for their inputs/comments.

(Action: MoEF&CC)

- vi. NVBDCP to share their comments/inputs on the four IVPM training modules.

(Action: NVBDCP)

- vii. NVBDCP and MoEF&CC to deliberate further regarding how the IVPM modules may be best utilized.

(Action: NVBDCP and MoEF&CC)

13. The meeting ended with a vote of thanks to the Chair

List of Participants

MoEF&CC

1. Shri Naresh Pal Gangwar, NPD, Additional Secretary, MoEFCC
2. Dr. Satyendra Kumar, Director, NPC, MoEFCC
3. Shri N. Subrahmanyam, Scientist D, MoEFCC
4. Ms. Shraddha Dhakhwa, Assistant Project coordinator, UNIDO
5. Ms. Preeti Dubey, Project Assistant, UNIDO

CPCB

6. Sh. Dinbandhu Gouda, Scientist 'E'
7. Sh. R. N. Pankaj, Scientist E

UNIDO

7. Ms. Carmela Centeno, Project Manager, Head Office, Vienna
8. Dr. Y.P. Ramdev, National Technical Advisor

UNEP

9. Mr. Jitendra Sharma, Task Manager
10. Ms. Neha Dharmshaktu, Associate Project Management Officer
11. Ms. Valentina Ricca, Associate Legal Officer, Law Division

National Botanical Research Institute

12. Dr S.K. Tiwari, Chief Scientist

NEERI

13. Dr. A Ramesh Kumar, Senior Scientist
14. Mr. Gujju Gandhi, Research Associate
15. Mr. Abhishek Chaudhary, Scientist

HIL

16. Shri Kuldeep Singh, CMD
17. Mr. Rajendra Thapar, DGM(M)

NCVBDC, MoH&FW

18. Dr. Pranab Jyoti Bhuyan, Joint Director (PH)
19. Dr. Kalpana Baruah, Joint Director

ICMR- National Institute of Malaria Research

20. Dr. Himat Singh, Scientist E

Record of Discussions of the Project Review Meeting of the GEF Funded Project titled 'Development and Promotion of non-POP alternatives/environmentally sound alternatives to DDT' held on 05.12.2023

The project review meeting of the GEF funded project 'Development and Promotion of non-POPs alternatives alternatives to DDT' was held on 05.12.2023 at 12:00 PM under the chairmanship of **Dr. Satyendra Kumar, Director, HSM Division, MoEF&CC**. The list of participants has been given in **Annexure I**.

2. The project was initiated in June, 2015 for a period of five years. The tenure of the project was extended for 2.5 years upto 31.12.2022 beyond the completion date of 25.06.2020. PSC, during the last meeting held on 13.12.2022, had recommended the extension of the project by 24 months, w.e.f 1st January, 2023 till 31st December, 2024, with no additional cost, for completion of the project activities.

3. The project aims to introduce bio- and botanical pesticides as alternatives to DDT for reduction and eventual elimination of dependency on DDT in India. There are three types of alternatives being developed as alternatives to DDT under the project:

- i. Long Lasting Insecticide Net (LLIN)
- ii. *Bt* Based Pesticides (Suspension Concentrate, Wettable Powder and Spreading Oil)
- iii. Neem Based Pesticides (Neem Oil, Floating Tablets, Mosquito Coil, Repellent Cream and Suspension Concentrate)

4. The total cost of the project is USD 53.15 million (GEF grant: USD 10.0 million- USD 8.3 million to UNIDO and USD 1.7 million to UNEP; co-financing: USD 43.15 million).

5. The following five components of the project are being implemented by UNIDO and UNEP:

| Sl. No. | Component | Implementing agency | Executing Institution | GEF grant in USD |
|---------|--|---------------------|---|------------------|
| i | Component 1: Legislation, policy framework and institutional capacity for DDT alternatives | UNEP | <ul style="list-style-type: none"> Enviro Legal Defence Firm for gap analysis Toxics Link for preparation of guidance documents | 500,000 |
| ii | Component 2: Development and | UNIDO | IPFT/CIPET/ ICMR-VCRC: for | 7,100,000 |

| | | | | |
|-------------------------------|--|-----------------------------|---|---------|
| | efficient pilot production of bio- and botanical pesticides as well as other alternatives to DDT ready for enhancement to large scale production | | developing technology and formulations HIL: for implementation and commercial production | |
| iii | Component 3: Promotion of five new dwarf cultivars of Neem with early maturity and higher limonoids yield for large scale cultivation | UNIDO | NBRI | 490,485 |
| iv | Component 4: Development and Promotion of Integrated Vector Pest Management (IVPM) | UNEP | CPCB & NEERI | 795,825 |
| v | Component 5: Monitoring and Evaluation of the project | UNIDO & UNEP | | 637,500 |
| Project Management Cost (PMC) | | 476,190 | | |
| Total | | 10,000,000 (10 million USD) | | |

6. The expenditure of the project for the UNIDO components till 15.11.2023 is USD 7.97 million of the GEF grant of \$8.3 million (96.04%). The expenditure of the UNEP components as on 15.11.2023 is \$ 852,861.1 out of the sanctioned funds of \$1.675 million (51%).

7. The physical progress of the project is given below:

| Sl.No. | Component | Status |
|--------|--|---|
| i | Component 1: Legislation, policy framework and institutional capacity for DDT alternatives throughout their life cycle (production, registration, use and disposal) | <p>i. Gap Analysis report and action plan to identify legal requirements for the lifecycle of DDT alternatives and measures to streamline legal requirements prepared by Enviro Legal Defence Firm</p> <p>ii. Guidance documents prepared by Toxics Link on LLIN, <i>Bt</i>-based and Neem to</p> |

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| | | <p>support stakeholders to meet legal requirements for DDT alternatives</p> <p>iii. Reports to be reviewed by Sub-Committee/ Technical Working Group (TWG)</p> |
| ii | <p>Component 2: Development and efficient pilot production of bio- and botanical pesticides as well as other alternatives to DDT ready for enhancement to large scale production</p> | <p>i. LLIN:</p> <ul style="list-style-type: none"> a. Technology transferred by CIPET for impregnating pesticide in plastic pellets used for making mosquito nets. b. First stream of LLIN (5 million LLINs per annum) commissioned and operational. c. Application submitted in November 2023 for extension of provisional registration with CIB&RC. d. Phase-II trial by VCRC-ICMR is in progress. e. Application for permanent registration with CIB&RC shall be submitted after generation of Bio-efficacy Phase-III report. f. Around 16 lakhs LLINs have been sold as on date. g. The capacity of the LLIN plant is being enhanced to 10 million nets per annum. <p>Second stream of LLIN:</p> <ul style="list-style-type: none"> h. Application for CTE submitted in July 2023. i. Tender floated in October 2023 for award of contract for installation of equipment and commissioning of plant. j. Installation of equipment and commissioning to be completed by July 2024. <p>ii. Neem-based pesticide:</p> <ul style="list-style-type: none"> a. Technology transferred by IPFT to HIL in September 2020 b. Application for CTE submitted in July 2023. Site inspection completed. |

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| | | <ul style="list-style-type: none"> c. DPR prepared in October 2020 d. Award for work for tender specifications to be done by Dec 2023 e. Detailed engineering report is expected by June 2024. f. Installation of equipment is expected to be completed by August 2024 and commissioning and operationalization of plant is expected to be completed by December 2024. <p>iii. <i>Bt based bio-pesticide:</i></p> <ul style="list-style-type: none"> a. Technology transferred by VCRC to HIL in June 2022 b. CIB&RC application submitted in Feb 2023. Revised application submitted in Oct 2023. c. Application for CTE submitted in July 2023. Site inspection completed. d. Factories and Boilers Consent by April 2024. e. Work has been awarded to M/s Kamtech for DPR preparation in September 2023. f. Project execution tender is to be floated by January 2024. g. Site preparation by March 2024. h. Installation of equipment is expected to be completed by October 2024 and commissioning of plant by December 2024. |
| iii | Component 3: Promotion of five new dwarf cultivars of Neem with early maturity and higher limonoids yield for large scale cultivation | <ul style="list-style-type: none"> i. Multi-location trials (MLT) have been undertaken for evaluation of growth, yield and quality of four neem cultivars at five different agro climatic zones, at North-East (NEHU) Shillong; North Central (CSIR-NBRI Lucknow), North CSIR-CSIO Chandigarh; South CSIR CIMAP Centre |

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| | | <p>Bangalore and East (CSIR – IIMT Bhubaneshwar).</p> <p>ii. 4 varieties of neem dwarf cultivars have been identified, out of which 1 has been identified as the most potent, and will be propagated in large scale in different parts of the country using tissue culture technique and clonal propagation.</p> |
| iv | Component 4: Development and Promotion of Integrated Vector Pest Management (IVPM) | <p>iii. Modules on Integrated Vector Pest Management (IVPM) drafted.</p> <p>iv. IVPM modules to be reviewed by Sub-committee / TWG.</p> |
| v | Component 5: Monitoring and Evaluation of the project | Midterm evaluation of UNIDO and UNEP components completed. |

8. During the meeting, **the following discussions** were held:

- i. **Representative from MoEF&CC** highlighted that two sub-committees were formed during the last TWG meeting held on 06.07.2022 for examination of the legal documents and IVPM modules.

It was stated that most of the regulatory gaps as presented in the gap analysis report prepared by the UNEP Law Division do not exist and most of the protocols are already in place for the alternatives in the existing acts, rules and notifications.

It was emphasized that gap analysis report should have been prepared in consultation with CIB&RC. It was suggested that CIB&RC's comments may be incorporated in the gap analysis report.

It was highlighted that any future work within Component 4 may be taken forward only after discussion and review of the sub-committee.

It was emphasized that any information already provided/ prepared by the Government of India (Ministry of Health and Family Welfare and its organisations) may not be duplicated in the IVPM modules.

- ii. **Representative from UNEP** highlighted that the revised work plan submitted by UNEP has to be approved by the Project Steering Committee.

UNEP further informed that the project implementation deadline for UNEP components of the project (components 1 and 4) is December 2023, operation completion deadline is January 2024 and financial closure is June 2024.

The total sanctioned funds, utilized funds and the balance funds for the UNEP components have been given below:

| Sanctioned Funds | Expenditure | Balance funds |
|--|-----------------------|-----------------------|
| (To UNEP Law Division) USD 762,575 (sanctioned) | USD 476,005.15 | USD 286,569.85 |
| (To CPCB/CSIR-NEERI) USD 912,425 (sanctioned) | USD 376,856 | USD 535,569 |
| Total sanctioned funds: USD 1,675,000 | USD 852,861.15 | USD 822,138.85 |

The following options were discussed for utilization of the remaining funds for the UNEP components:

- Remaining funds from the UNEP components may be transferred to the other components of the project, if the PSC is empowered to do so.
- The extension of UNEP components of the project may be aligned with the UNIDO components i.e. till 31 December 2024 for utilization of the balance funds.

- iii. **Representative from NEERI** stated that a survey among the training participants may be conducted to obtain their feedback on the IVPM modules.

NEERI further informed that there are two pending tasks under Component 4: development of website (inputs are needed from UNIDO) and translation of the training modules. Additional six months (till June 2024) are required for completion of these tasks.

- iv. **Representative from NBRI** informed that four Neem cultivators have been developed and after the multi-location trials and evaluation of growth, yield and quality, one cultivator will be identified as the best and will be used as the raw material for the neem based alternative of DDT.

NBRI reported that the training programs for beneficiary farmers at five different locations are to be carried out.

NBRI further informed that data from different multi-location trials needs to be collected and compiled.

9. After deliberations, the **following decisions** are made:

- (i) The project (including all the Components) has been extended till 31 December 2024. UNEP to align the extension of their Components till 31 December 2024. Revised work plan submitted by UNEP is recommended to PSC.

(Action: UNEP and MoEF&CC)

- (ii) MoEF&CC to forward the IVPM modules to MoH&FW for obtaining their inputs.

(Action: MoEF&CC)

- (iii) All concerned stakeholders to prepare and present to the Project Steering Committee the list of residual activities of the project with tentative timelines for completion, completed activities and plan for utilisation of the remaining funds.

(Action: HIL, NBRI, NEERI, CPCB, UNEP, UNIDO, Enviro Legal Defence Team and Toxics Link)

- (iv) All concerned stakeholders to present the physical and financial progress of the project from January 2022 to November 2023 to the Project Steering Committee.

(Action: HIL, NBRI, NEERI, CPCB, UNEP, UNIDO, Enviro Legal Defence Team and Toxics Link)

- (v) MoEF&CC to share the guidance documents prepared by Toxics Link with DPIIT, DCPC, HIL and other concerned stakeholders for their inputs/comments.

(Action: MoEF&CC)

- (vi) UNEP to present the detailed work plan to the Project Steering Committee, if there are any activities remaining.

(Action: UNEP)

- (vii) Meetings of the sub-committees to be convened for examination of the documents prepared by UNEP under Components 1 and 4 of the project.

(Action: MoEF&CC)

- (viii) NEERI to organize trainings for aspiring entrepreneurs seeking to establish facilities for manufacturing alternatives to DDT. These modules would provide insights into the prospects and requirements for establishing such facilities.

(Action: NEERI)

10. The meeting ended with a vote of thanks to the participants.

Updated workplan/timelines - Development and promotion of non-POPs alternatives to DDT

Component 1

| Component 1: Legislation, policy framework and institutional capacity (UNEP) | | | | |
|--|---|-----------------------------|---|---|
| Outcome 1: Efficient system for fulfilling legal requirements at the various stages of the lifecycle of alternatives to DDT | | | | |
| Output 1.1: Regulatory mechanisms throughout the lifecycle of alternatives to DDT in place | Expected Output | Execution Partner(s) | Period for execution | Remarks/Further Action Plans |
| Activity 1.1.1: Establish an inter-ministerial working group to follow and guide the implementation of the activities. | Working group established to review and provide the recommendation on the work undertaken under the project to PSC and endorse the regulatory mechanism prepared under the project. | UNEP | October-December 2018 | <ul style="list-style-type: none"> Technical Working Group (TWG) constituted in July 2018. 1st TWG meeting held on 06.07.2022. TWG/sub-committee meeting for Component 1 held on 28.12.2023 to review the report (UNEP Law Division and Enviro Legal Defence). |
| Activity 1.1.2: Identify the legal requirements at each stage of the lifecycle for the alternatives to DDT. | Report outlining current regulatory framework for DDT and alternatives in India is to be prepared. | UNEP Law Division | June 2019 – September 2024 (input due by February/March 2024) | <ul style="list-style-type: none"> Gap analysis report and action plan prepared through consultant (ELDF). Based on the last TWG meeting, no regulatory gaps were found in regard to CIB&RC registration for the three alternatives to DDT (LLIN, Bt- based Bio-pesticide and Neem based pesticide) |
| Activity 1.1.3 Identify gaps in the legal framework throughout the lifecycle for the alternatives to DDT | Gap analysis outlining the relevant statutes is to be prepared. | UNEP Law Division | June 2019 – September 2024 (input due by February/March 2024) | |

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| Activity 1.1.4: Identify the potential for strengthening and streamlining the legal requirements at each of the stages of the lifecycle | Preparation of a draft regulatory proposal (new or amendment to the existing statutes) for gaps identified for alternatives. | UNEP Law Division | January 2020 – September 2024 (input due by February/March 2024) | <ul style="list-style-type: none"> Provisional CIB&RC registration received for LLINs by HIL (India) Limited. Application for CIB&RC registration submitted for Bt-based bio-pesticide by HIL (India) Limited and is under consideration. Application for CIB&RC registration for neem based pesticide will be submitted by HIL (India) Limited. The modalities for the work regarding this component will be decided by consultation between UNEP and MoEF&CC. Funding utilized for this additional output were taken from Component 5, Activity 5.1.2 (<i>Establish project management information system for dissemination of relevant data / information</i>). A dedicated website regarding the project shall be developed and all approved reports / documents and communication materials/ media content to be uploaded on the said website. The website created is to be linked to MoEF&CC website. |
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| Outcome 1: Efficient system for fulfilling legal requirements at the various stages of the lifecycle of alternatives to DDT | | | | |
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| Output 1.2: Guidance documents for producers, registration holders and users on the legal requirements for alternatives to DDT | Expected Output | Execution Partner(s) | Period for execution | Remarks/Further Action Plans |
| Activity 1.2.1: Develop guidance documents for producers, registration holders and users on the legal requirements for alternatives to DDT | Three (3) draft guidance documents for: 7. neem-based products (1); 8. BT-based products (1); and 9. LLINs (1) | UNEP Law Division | October 2020 – February 2022 | <ul style="list-style-type: none"> • Guidance document(s) were prepared by Toxics Link. • The modalities for the work regarding this component will be decided by consultation between UNEP and MoEF&CC. • Guidance documents to be shared with the concerned Ministries/ Departments for their inputs/comments. |
| Activity 1.2.2: Testing by potential user of the guidance. | Consultations (3) with potential users | UNEP Law Division | April 2021 – August 2022 | |
| Activity 1.2.3: Finalize the guidance documents for alternatives to DDT | Efficient and fast fulfilment of the legal requirements for alternatives to DDT | UNEP Law Division | April 2021 – October 2023 | |

| Component 4: Development and Promotion of Integrated Vector Pest Management (IVPM) | | | | |
|--|---|--|--|--|
| Outcome 4: Central and State Governments endorse implementation of Integrated Vector Pest Management (IVPM) | | | | |
| Output 4.1: IVPM developed, promoted and pilot tested in selected sites | Expected Output | Execution Partner(s) | Period for execution | Remarks/Further Action Plans |
| Activity 4.1.1: Prepare specific training modules for promoting IVPM at local level | Four (4) training modules developed Translation of training modules into four Indian languages | CPCB internal execution through CSIR-NEERI ^[1] for the part of CPCB | June 2019 – December 2020 January – June 2024 | Any further work will be decided by consultation between UNEP and MoEF&CC. |
| Activity 4.1.2: Develop practical training courses for promoting IVPM in a train the trainers course | Four (4) training materials prepared and a pool of trainers trained | CSIR-NEERI through CPCB for the part of CPCB | October 2022– December 2023 | |
| Activity 4.1.3: Carry out pilot training (test the training materials and adapt where necessary) | At least ten (10) pilot tests undertaken | CPCB internal execution through CSIR-NEERI for the part on TWG for the part of CPCB For training and associated reporting, CSIR-NEERI through CPCB for the part of CPCB | June 2021 – July 2022 | |

| Component 5: Monitoring and evaluation of results (UNIDO / UNEP) | | | | |
|---|---|--|--|--|
| Outcome 5: Monitoring of project interventions and evaluation of results | | | | |
| Output 5.1: Technical reporting prepared and made available at each stage of the project | Expected Output | Execution Partner(s) | Period for execution | Remarks/Further Action Plans |
| Activity 5.1.1: Carry out annual project financial audits, prepare annual project progress reports and Project Implementation Reports | Project Implementation monitored and results assessed against the set of indicators | CPCB internal execution through CSIR-NEERI for the part of CPCB UNEP will carry out its parts of the component through its budget | Project Implementation Review (PIR) report by 30 June each year, a half-yearly progress report for the period July-December by 31 January of the following year, quarterly expenditure reports by 30 April, 31 July, 31 October and 31 January each year | Details to be shared bi-monthly till the closure of the project. |
| Activity 5.1.2: Establish project management information system for dissemination of relevant data / information | | CPCB internal execution through CSIR-NEERI | By February/March 2024 | UNEP to write to UNIDO seeking specific information under the intimation to NPCU at MoEF&CC. |
| Activity 5.1.3: Prepare and Complete Terminal Report | Technical reporting and submission of terminal report | CPCB internal execution through CSIR-NEERI | By December 2024 | Reports as per MoEF&CC letter dated 30.12.2022 to be shared periodically. |

| Output 5.2: Project implementation management and M& E mechanism in place | Expected Output | Execution Partner(s) | Period for execution | Remarks/Further Action Plans |
|--|--|---|--|--|
| Activity 5.2.1: Organize and hold inception workshop | Inception workshop held | CPCB internal execution through CSIR-NEERI | Within first three months of project start up | - |
| Activity 5.2.2: Augment National Steering Committee (NSC), establish Project Steering Committee (PSC), National Project Coordination Unit (NPCU), recruit National Project Coordinator and other project staff | <ul style="list-style-type: none"> • PSC augmented • NPCU established and staffed • Detailed workplan prepared • Financial audit completed | <p>CPCB internal execution through CSIR-NEERI for the part of CPCB</p> <p>UNEP Law Division will carry out its parts of the component through sub-contracting as required</p> | June 2019-December 2023 | <ul style="list-style-type: none"> • Engagement of project staff at NPCU-MoEFCC for providing assistance for NPCU and TWG for effective implementation of Components 1 & 4. • Financial audit report to be shared with MoEF&CC. |
| Activity 5.2.3: Hold annual tripartite review / Project Steering Committee meetings | <ul style="list-style-type: none"> • Annual TPR meetings held • Bi-annual NSC meeting held | CPCB internal execution through CSIR-NEERI | Last Quarter every year or at convenience of stakeholders | Project Review meetings are held by PSC/ TWG and NPCU-MoEF&CC. |
| Activity 5.2.4: Hold national technical working groups meetings | National technical working groups meeting held | CPCB internal execution through CSIR-NEERI | Last Quarter year, Last Quarter every year or at convenience of stakeholders | <ul style="list-style-type: none"> • TWG meetings are convened to review the project. • 1st TWG meeting convened on 06.07.2022. • 2nd TWG/ sub-committee meeting held on 28.12.2023 for Component 1 and 09.01.2024 for Component 4. |

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|--|----------------------------|--|-----------------------------|-------------------------------------|
| Activity 5.2.5: Carry out awareness raising and final stakeholder workshop for dissemination of lessons learnt | Final workshop to be held | CPCB internal execution through CSIR-NEERI | Q3/Q4 2024 | - |
| Output 5.3: Project evaluation | Expected Output | Execution Partner(s) | Period for execution | Remarks/Further Action Plans |
| Activity 5.3.1. Carry out independent Mid-term review | Report of mid-term review | UNEP | March - April 2022 | - |
| Activity 5.3.2. Carry out final evaluation | Report of final evaluation | CSIR-NEERI through CPCB for the part of CPCB UNEP | 2025 | - |

^[1]CSIR-National Environmental Engineering Research Institute, Nagpur (<http://www.neeri.res.in/scrc/>), which is the Stockholm Convention Regional Centre on POPs for Asia Region, has been identified by CPCB as partner in executing project activities.

²CSIR-NEERI and CPCB to follow up with NVBDCP and relevant stakeholders for their comments and approval.