

## Minutes of the Meeting

The 3<sup>rd</sup> meeting of the Project Steering Committee (PSC) meeting for the Project on Facility for Low Carbon Technology Deployment (FLCTD) was held at the Bureau of Energy Efficiency, 4<sup>th</sup> Floor, Sewa Bhawan on 11<sup>th</sup> July 2018, under the Chairmanship of Director General, Bureau of Energy Efficiency. The meeting was attended by the following officials:

	<b>Name</b>	<b>Designation and Organization</b>
1.	Mr. Abhay Bakre	Director General, Bureau of Energy Efficiency
2.	Mr. Milind Deore	Director, Bureau of Energy Efficiency
3.	Mr. Bibek Ranjan Patnaik	Project Engineer, Bureau of Energy Efficiency
4.	Mr. Vineet Saini	Scientist - 'E', Technology Mission Cell Water & Solar Energy, Department of Science and Technology (DST)
5.	Mr. Manoj Kumar Rai	Under Secretary, Ministry of Environment, Forest and Climate Change (MoEFCC)
6.	Mr. Sanjay Shrestha	Project Manager, UNIDO HQ
7.	Mr. Sandeep Tandon	National Project Manager, FLCTD, UNIDO
8.	Ms. Reshmi Vasudevan	Programme Expert, FLCTD
9.	Mr. Rishabh Goel	Project Associate, FLCTD

Following was discussed during the meeting:

1. The DG, BEE welcomed the members of the Steering Committee and invited UNIDO to present the status and developments of the project
2. As per the meeting agenda, the National Project Manager (NPM), gave a presentation and provided an update of the project since the last PSC meeting which was held in early November 2017.
  - a. The presentation covered the actions taken by the Project Management Unit (PMU) of FLCTD project on points/areas identified in the 2<sup>nd</sup> PSC. The presentation also provided update on overall progress made by the project till date. The presentation highlighted the progress made in the innovation challenge in Waste Heat Recovery technology vertical in which 44 applications were received and after screening and shortlisting 5 innovations were selected for final selection round for providing financial support of up to US\$ 50,000 for demonstration of winning innovations under the project. The process of selection of innovations for financing was developed through a consultative process. These guidelines will be used for all the three technology areas however it will require minor modification to suit the demonstration requirements innovation under each technology vertical. The presentation included indicative activities and timelines in 2019.
  - b. The NPM also apprised the committee of the new innovation challenges launched in the other verticals such as Space Conditioning and Pumps & Pumping systems,

on 1<sup>st</sup> July 2018. The challenge will be closed on 15<sup>th</sup> September 2018 and for that period the PMU, with the support of CII-GBC, has planned roadshows in 10 cities across India for effective outreach to bring wider participation in the innovation challenges. The PMU aims to complete the shortlisting and identifying the finalist innovators and offering them financial support by 15<sup>th</sup> November 2018.

- c. In response to the discussion on developing guidelines for funding innovations under FLCTD, in similar to those followed by DST, Mr Vineet Saini, Scientist, DST, mentioned that the DST guidelines tend to be restrictive when offered to private parties/independent innovators, as the guidelines were developed with the view of supporting publicly funded institutions and DSIR approved R&D centres and may not be applicable to the FLCTD programme. Mr. Saini, suggested there needs to be great balance in the paperwork for the fund disbursement to ensure that it does not discourage these innovators. Often technical innovators are challenged by the information demands of such paperwork. NPM, FLCTD, informed that financing guidelines for FLCTD have been developed and will be shared with BEE along with other relevant documents of Waste Heat Recovery innovation challenge.
3. In response to the presentation, Director, BEE, suggested that there needs to be increased efforts in bringing more participation to the FLCTD challenges. Given the economy's size unless more technologies are brought into the competition the impacts shall be poor. Hence it is necessary to understand what efforts are necessary to bring wider participation in the innovation challenge.
4. The DG advised that there should be clear distinction of 'allowable' and 'not-allowable' costs, that should be approved by BEE. Acknowledging this, the NPM added that DST does not offer working capital which will be followed by FLCTD also. The NPM shared that the PMU will be conducting field-visits to understand the grounds for financial support requested by the finalists. The DG, BEE, also suggested to finalize the timeframe for disbursing funds of the WHR winning applications.
5. The DG, BEE, reminded that the FLCTD project requires to demonstrate 120 innovations, hence the project needs to accelerate its activities. Mr. Sanjaya Shrestha, Project Manager, UNIDO, proposed that it might be necessary for exploring other areas for diversifying the technology areas under FLCTD innovation challenges. DG-BEE pointed out that the project needs clear roadmap with annual targets to achieve leading to project target to achieve 120 innovative technology demonstrations by the end of the 5-year project. He shared that annually, the PMU should identify demonstration targets and such a roadmap should help us understand if we are achieving the targeted numbers from the current verticals, and if not, the strategies should be evaluated and consider diversifying the verticals.
6. DG, BEE, advised that for identifying newer areas for FLCTD, the PMU should explore various technology areas pursued under various incubation programmes under NSTEDB, DST, MSME and others. This will help FLCTD understand the technology demand. Mr Saini added that there is more interest in bringing innovations to the Transport sector and as well as in Storage technologies. Mr. Shrestha reaffirmed that Storage technologies are bound to play key roles in the cleantech transitions and he felt that Thermal Storage technologies are more amiable in comparison to Electrical Storages.
7. Director, BEE stressed on the need for increasing the response to the innovation challenges by increased participation and suggested PMU to increase its outreach efforts.

Mr Saini, DST, shared that the PMU should reach out to various industry associations like the PHD Chambers of Commerce, FICCI and others, also reach out to the Ministry of MSME. He gave the example of CII's GITA platform that helped bring better collaboration between Energy and Water innovators with the industry entities. The NPM apprised the committee members that UNIDO and CII are actively promoting the innovation challenge on project website and social media. Additionally, to increase the reach, the PMU is seeking collaboration with Tata Trust which run innovation programme through 'Social Alpha' based in Bangalore, Sangam Ventures a seed and early stage fund and investor ISHRAE is keen to collaborate with UNIDO on this innovation programme. UNIDO is exploring possibility of associating with similar initiatives being implemented by other Indian government departments and agencies to create awareness and reach of FLCTD.

8. The PSC also discussed the extension of project end-date due to delayed start of the project. Mr. Shrestha apprised the DG, BEE that the assessment of project completion dates has been triggered by of the recent decision taken during the replenishment of Global Environment Facility (GEF) to introduce 30% capping to all the GEF implementing agencies. This means that the agencies should not have, at any given time, more than 30% of GEF active grants in their overall active portfolio. The purpose of this policy would be to ensure a level playing field for all the GEF Agencies and to increase their operational efficiency by encouraging the financial closure of operationally closed project. Responding to discussion of revised completion date due to delay in the starting of project activities, DG-BEE suggested that the project completion may be revised to 31st December 2021 and additional six months be devoted to completion of contractual and financial obligations to close the project by 30<sup>th</sup> June 2022.
9. Director, BEE mentioned that with the increase in project activities especially with the launch of innovation challenge in two other technical verticals, is expected to result in increased work. He requested UNIDO for additional manpower support an engineer to be posted in BEE to assist with the FLCTD project related approvals. In response to query from UNIDO, it was clarified that BEE is in the process of taking space which will be sufficient to accommodate additional manpower. UNIDO agreed to address the manpower requirement.
10. The meeting concluded with closing remarks from BEE with the below mentioned follow up actions by the Project Management Unit:
  - a) To share the template for appraisal of shortlisted of 5 innovation challenge with the members of expert panel for WHR.
  - b) To finalize the timeframe for disbursing funds of the WHR winning applications.
  - c) To prepare the distinction of 'allowable' and 'not-allowable' costs to provide financial support based on which BEE will provide its endorsement to UNIDO.
  - d) To identify the newer areas for FLCTD, the PMU should explore various technology areas pursued under various incubation programmes under NSTEDB, DST, MSME and others.
  - e) To increased participation, PMU should reach out to various industry associations like the PHD Chambers of Commerce, FICCI and others also reach out to the Ministry of MSME.
  - f) PMU will prepare the template for timeline of activities to cover 120 innovation challenges.
11. The meeting was adjourned with the vote of thanks to the Chair.