

Minutes of Meeting

SEG expert meeting on approval of proposals under UBA SEG: Sanitation and Solid Waste Management

Sponsored by

Ministry of Education, Government of India

Organized by

SEG: Sanitation and Solid Waste Management September 30, 2023

Mode: Virtual on Google Meet

The Subject Expert Group (SEG) for Sanitation and Solid Waste Management under the Unnat Bharat Abhiyan (UBA) organized an Expert Committee meeting on 30th September 2023, from 9:00 AM to 12:00 PM, using the Google Meet. The primary objective of this virtual meeting was to deliberate and evaluate project proposals falling within the domain of Sanitation and Solid Waste Management under the Unnat Bharat Abhiyan for further consideration and approval by the National Coordinating Institution (NCI).

In the lead-up to this meeting, our SEG meticulously reviewed a total of 221 project proposals. Subsequently, we communicated with each proposer through the online portal, conveying our observations and suggestions for refining their proposals. We identified certain aspects that demanded a more in-depth discussion during this process. It became evident that the responses on the portal did not consistently meet our standards in terms of comprehensiveness and detail.

Hence, the virtual meeting was convened to provide a platform for these detailed discussions. We extended invitations to the Principal Investigators (PIs) of 15 specific proposals to participate in an online interaction session. The primary objectives of this session were to address our specific remarks and, most importantly, to assess the potential shortlisting of proposals to be forwarded to NCI-IIT Delhi for further, more advanced scrutiny.

In our deliberations, we adopted well-defined criteria to guide the shortlisting process. These criteria included the PI's demonstrated on-ground research experience, the extent of knowledge contributed by the PI to the proposals, the feasibility of implementing the projects within the stipulated time frame while considering their potential impact on the population, and the sustainability of the projects beyond the designated project period.

After careful evaluation, the committee approved nine out of the 15 proposals. Seven are geared towards technology development, while the remaining two focus on technology customization. These selected proposals and the list of committee members who

participated in the meeting are detailed in the attached Table 2 and Table 1, respectively. This decision represents a significant milestone in our mission to advance Sanitation and Solid Waste Management under the Unnat Bharat Abhiyan.

Table 1 Experts and UBA staff present in the meeting

S. No.	Name	Role		
1	Prof. Indumathi M. Nambi	Coordinator		
		SEG - Sanitation and Solid Waste Management		
		Unnat Bharat Abhiyan		
2	Prof. B.S Murthy	RCI Coordinator		
		IIT Madras		
		Unnat Bharat Abhiyan		
3	Prof. Ligy Philip	Professor, IIT Madras		
		Expert committee member		
		SEG - Sanitation and Solid waste management		
		Unnat Bharat Abhiyan		
3	Dr. Mohana Krishnan Logan	Assistant Professor, IIT Madras		
		Expert committee member		
		SEG - Sanitation and Solid waste management		
		Unnat Bharat Abhiyan		
4	Ms. Hima Bindu Valleru	Project Officer		
		SEG - Sanitation and Solid Waste Management		
		Unnat Bharat Abhiyan		
5	Ms. Sudha	Project Officer		
		RCI, IIT Madras		
		Unnat Bharat Abhiyan		

Table 2 List of selected proposals by SEG – Sanitation and Solid waste management and recommendations/ comments

Proposal Title	Proposal Id	Institute Name	Project Categories	Fund Requested (INR)
Long-lasting Dhoop battis/ Insects repellent from Organic Solid Waste for Sustainable Income Generation	C-41614/MH/PUN/SSWM/50K/1	Jaywant Shikshan Prasarak Mandal`S Rajshree Shahu College of Engineering, S.No.80, Pune Bombay Bypass Highway, Thathwade, Pune 411 033(AISHE Code:-C-41614)	Technology Customization	50000
		ome trail mixtures. Testing their products		· · · · · · · · · · · · · · · · · · ·
forward is recommended. They ha	_	_	rs are interested i	n taking it up as an
Pipe Composting	C-41177/TN/KNY/SSWM/50K/1	Holy Cross College, Nagercoil-629 004. (AISHE Code:-C-41177)	Technology Customization	50000
		-	•	al villages. We also
	sted collaborating with a recycling ven		CS.	
Internet of Things Based solid waste management	U-0474/TN/KCP/SSWM/1LAKH/4	Sathyabama Institute of Science and Technology, Chennai (AISHE Code:-U-0474)	Technology Development	100000
			n the village is arou	und 50-60 kg. They
repellent fragrance incense sticks from floral solid waste to health and wealth Eco-friendly product to development of Industrialization and Entrepreneurship	C-35810/TN/TRC/SSWM/1LAKH/1	Srimad andavan Arts and Science College, Thiruvanaikoil, Tiruchirappalli- 620 005. (AISHE Code:-C-35810)	Technology Development	100000
monts / Suggestions: DI has prope	sed to mitigate floral waste from Srirar	ngam temple in their adopted village, one	of the prominent t	emples from TN -
	=			•
entation of this project can have a	a significant impact. Have identified an uest for SHG to help them earn an extr	nd performed trials on extracting oil from has income during winters when they canno a provisional patent, too.		epellent properties
S I Pe f I N I N I I I I I I I I I I I I I I I	Solid Waste for Sustainable Income Generation Ints/ Suggestions: PI has visited the forward is recommended. They have the propose of the suggestions: It was propose of the suggestions: It was propose of the suggestions of	C-41614/MH/PUN/SSWM/50K/1 Income Generation C-41614/MH/PUN/SSWM/50K/1 Internet of Things Based solid waste management U-0474/TN/KCP/SSWM/1LAKH/4 Internet of Suggestions: They wanted to put up composting pits with turners sted that the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter part can be ignored as SBM aims at door-to-door composter in the latter	Solid Waste for Sustainable Income Generation C-41614/MH/PUN/SSWM/50K/1 S.No.80, Pune Bombay Bypass Highway, Thathwade, Pune 411 033(AISHE Code:-C-41614) Ints/ Suggestions: PI has visited the village, collected samples, and did some trail mixtures. Testing their products forward is recommended. They have identified some regional herbs for the admixtures and mentioned that village enterprise. Pipe Composting C-41177/TN/KNY/SSWM/50K/1 Holy Cross College, Nagercoil-629 004. (AISHE Code:-C-41177) Intents/ Suggestions: It was proposed to put up pipe composters in the households of SHG women to start with, in the suggested collaborating with a recycling vendor to the panchayat to manage the plastic Sathyabama Institute of Science and Technology, Chennai(AISHE Code:-U-0474) Intents/ Suggestions: They wanted to put up composting pits with turners to automate composting and put sensors sted that the latter part can be ignored as SBM aims at door-to-door collection. The household waste generated in mentioned that they would be able to fetch more funds from college. Production of mosquito repellent fragrance incense sticks from floral solid waste to health and wealth Eco-friendly product to development of C-35810/TN/TRC/SSWM/1LAKH/1 Srimad andavan Arts and Science	Solid Waste for Sustainable Income Generation C-41614/MH/PUN/SSWM/50K/1 S.No.80, Pune Bombay Bypass Highway, Thathwade, Pune 411 033(AISHE Code:-C-41614) Ints/ Suggestions: PI has visited the village, collected samples, and did some trail mixtures. Testing their products and getting their convard is recommended. They have identified some regional herbs for the admixtures and mentioned that villagers are interested in enterprise. Pipe Composting C-41177/TN/KNY/SSWM/50K/1 Internet Suggestions: It was proposed to put up pipe composters in the households of SHG women to start with, in the adopted coast suggested collaborating with a recycling vendor to the panchayat to manage the plastics. Internet of Things Based solid waste management U-0474/TN/KCP/SSWM/1LAKH/4 Internet Suggestions: They wanted to put up composting pits with turners to automate composting and put sensors in dustbins to not sted that the latter part can be ignored as SBM aims at door-to-door collection. The household waste generated in the village is around mentioned that they would be able to fetch more funds from college. Production of mosquito repellent fragrance incense sticks from floral solid waste to health and wealth Eco-friendly product to development of Srimad andavan Arts and Science

take	n up mushroom cultivation but can		oached the college in the UBA interaction around the year.	program to help t	hem with an extra	
6	Plastic Waste Management and Recycling	C-36929/TN/CMT/SSWM/1LAKH/1	Dr N.G.P.Institute of Technology(AISHE Code:-C-36929)	Technology Development	100000	
			details and collection timings. It is the nee tate. Existing infrastructure and companies		•	
		ssfully implemented, an entire database	se of a state can be created, and policies c			
7	Smart Plastic Waste Recycler	C-56586/MH/NGP/SSWM/1LAKH/1	Government College of Engineering(AISHE Code:-C-56586)	Technology Development	100000	
Comments/ Suggestions: It is proposed to implement a centralized 10 kg plastic pyrolysis plant for three adopted villages. They have an emission control unit designed for the unit. Have suggested having enough safety measures to check on high pressure and temperature systems. They are yet to figure out a use case for pyrolysis oil. Have indicated that it can be used for collection vehicles only after appropriate testing.						
8	Development of low-cost organic manure from food waste for the welfare of the farmers through effective natural process	U-0458/TN/VIR/SSWM/1LAKH/1	Kalasalingam Academy of Research and Education(AISHE Code:-U-0458)	Technology Development	99000	
	churning with loaded waste is near	to impossible, given the load. To check	enhance and ease composting. Suggested at the feasibility of a hand churner, they are a department is suggested to help and enh	putting up a lab	_	
9	Fabrication of bio-digester for rural villages to convert organic and food waste into energy	U-0473/TN/KCP/SSWM/1LAKH/2	S.R.M.Institute of Science and Technology, Chennai(AISHE Code:-U- 0473)	Technology Development	100000	
			s functioning and proposed to put up a sm to some additional funds from the college.	•	t can cater to the	
fotal F	und (INR)				7,99,000/-	

Prof. Indumathi M. Nambi

Coordinator Sanitation and solid waste management UBA – IIT Madras Prof. Vivek Kumar National SEG Coordinator Member Secretary, NSEAC UBA – IIT Delhi