



लोहिया स्वच्छ बिहार अभियान

(स्वच्छ भारत मिशन (ग्रामीण) एवं लोहिया स्वच्छता योजना)

बिहार ग्रामीण जीविकोपार्जन प्रोत्साहन समिति, ग्रामीण विकास विभाग



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Ref No: BRLPS-LSBA/Proj/30/17/ 221

Date: 10.08.2017

From,

Balamurugan D., IAS,
Chief Executive Officer-Cum-Mission Director.

To,

All District Magistrate-cum-Chairman
District Water and Sanitation Committee.

Sub: **SWACHH-A-THON 1.0 to crowd source solutions on issues faced in implementation of SBM-G/LSY (under LSBA).**

Ref: D.O. No. S-13015/45/2017-SBM dated 4th August, 2017.

Sir/Madam,

With reference to the Letter D.O No. S-13015/45/2017-SBM dated 4th August, 2017 from the Ministry of Drinking Water and Sanitation (MoDWS), Lohiya Swachh Bihar Abhiyan is looking for participants with solutions for better implementation of SBM-G around the country.

The Swachh-a-thon 1.0 will be held in 3 rounds and the participants will be required to make online entries on MyGov portal (innovate.mygov.in) The 2nd stage will be requiring the participants to give a live demonstration and final stage would be 8th September, 2017 where the participants selected would be given cash prizes under each category.

The problem statements on which the Swachh-a-thon 1.0 is seeking solutions are:

- Innovative, sustainable, environment-friendly and affordable toilet technology for hilly, dry, flood-prone and remote areas
- Technological solutions to monitor usage of toilets
- Technological solutions for bringing behavioural change for toilet usage and hygiene
- Innovative models and methods to improve the operation and maintenance of school toilet
- Innovative solutions for Menstrual Health Management
- Innovative solutions for early decomposition of faecal matter

It is requested to spread the message of Swachh-a-thon 1.0 to the local development partners, NGOs, civil society organisations, Universities, local colleges and institutions and also through print media to the masses so as to ascertain maximum participation in the event.

The Lohiya Swachh Bihar Abhiyan will also be organising a Curtain Raiser-cum- State Level Consultative Workshop on Swachh-A-thon 1.0 on the **17th August, 2017 at Hotel Patliputra Ashoka, Patna** to official launch the event and further seek solutions from the masses for implementing LSBA/SBM-G.

It is hoped that the district administrations would collaborate in this event by spreading the message to crowd source solutions. This event is to seek solution for better implementation of SBM-G at state and national levels.

Yours faithfully,

(Balamurugan D.)

Copy to: All Deputy Development Commissioner cum Vice Chairman, District Water and Sanitation Committee, for information and necessary action.
Copy to: Secretary, Rural Development Department, Government of Bihar, Patna for information.
Copy to: Development Commissioner, Government of Bihar, Patna for information.

वी. राधा आई.ए.एस.
संयुक्त सचिव
V. Radha, I.A.S.
Joint Secretary



भारत सरकार
पेयजल एवं स्वच्छता मंत्रालय
बी-1 विंग, चौथी मंजिल, पं दीनदयाल अंत्योदया भवन
सी.जी.ओ. कॉम्प्लेक्स, लोधी रोड,
नई दिल्ली-110003

Government of India

Ministry of Drinking Water and Sanitation

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CGO Complex, Lodhi Road, New Delhi - 110003
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E-mail : radhav@ias.nic.in Website : www.mdws.gov.in

D.O No. S-13015/45/2017-SBM

August 4, 2017

Dear Sir,

Ministry of Drinking Water and Sanitation (MDWS) is organizing SWACCHATHON 1.0- a Swachh Bharat Hackathon to crowd source solutions to some of the pressing issues faced during the implementation of Swachh Bharat Mission. MDWS looks forward to innovative solutions from the participants focusing on the target group of students, professionals and organizations including start ups. Ministry is looking forward to solutions which are affordable, easy to maintain, scalable, environment friendly and user-friendly.

The event is held in three rounds. In round 1 participants will be required to make online entries on the MyGov portal (innovate.mygov.in). Subsequently, the selected participants will be required to present a live demonstration of their solution in Round 2. The finals are to be held on 8th of September, 2017 where the winners will be announced after submission of presentations by the participants. Attractive cash prizes will be given to the winners in each category. Further details regarding the event can be accessed on <https://innovate.mygov.in/swachhathon-1-0/> website.

Problems, against which we are calling for solutions are –

- Innovative, sustainable, environment-friendly and affordable toilet technology for hilly, dry, flood-prone and remote areas.
- Technological solutions to monitor usage of toilets
- Technological solutions for bringing behavioural change for toilet usage and hygiene
- Innovative models and methods to improve the operation and maintenance of school toilet
- Innovative solutions for Menstrual Health Management
- Innovative solutions for early decomposition of faecal matter

I request you to spread the news regarding the event to the potential participants at State level. Many organizations/individuals might be involved in implementing innovative solutions to the problems being faced in sanitation sector. Therefore, you are requested to reach out to students, professionals \NGOs, Start-ups etc. working in sanitation sector and facilitate wider participation in the event. A curtain raiser- event could be organized at the state level to facilitate participation

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in the Swachhathon 1.0. Moreover, you are requested to share with us the details of professors/experts innovators who could be possibly apply as participants in this Hackathon. I close this letter hoping for active collaboration from your end in the conduct of the event.

The problem statements of the event are annexed to this letter.

with warm regards,

Yours sincerely,



(V.Radha)

Shri Arvind Kumar Chaudhary
Secretary
Government of Bihar
Vishweshwaraiya Bhawan,
Campus, Delhi Road, Patna-800015
BIHAR

Copy to :

1. Mission Director, Swachh Bharat Mission (G), BIHAR
2. State Coordinator, SBM(G), BIHAR

Problem Statement: Motivating individuals to use the toilets built under Swachh Bharat

Behaviour change is fundamental to the Swachh Bharat Mission. Several inter-personal techniques through community approaches to sanitation are being used across the country to trigger behaviour change. But old habits die hard and behaviour change takes time. Some people continue to defecate in the open even after having a household toilet.

The Swachh Bharat Mission invites innovative solutions to trigger and motivate people to stop open defecation and use toilets, at scale.

The solutions should be:

- Scalable
- Non coercive
- Socially acceptable
- Yield instant or immediate shift in behaviours

The solution could be in form of a technology, demonstration, technique, pictures, combination of things and others.

Problem Statement: Technological solutions for safe disposal of menstrual waste

With increase in education and awareness levels around Menstrual Health and Hygiene, more and more women and adolescent girls in the country are switching to safe sanitary options to manage their menstrual cycles. However, there is still no formal waste management system of sanitary waste. Often these are disposed off in fields, water bodies, flushed in toilets or dumped along with the regular solid waste.

MDWS is looking for technological solutions to manage and to dispose off sanitary waste. The solution should be:

- Safe for the environment, and not cause any air, water or soil pollution
- Cost-effective
- Scalable across villages and institutions such as schools, colleges, etc.

Problem statement: How can the technology help in early decomposition of faecal matter?

In large parts of rural India, on-site drainage is preferable over networked drainage owing to the ease of implementation and cost-effectiveness. Any solution which helps decompose faecal matter quickly will enable easy and safe emptying of the toilet pit/septic tank. This will reduce the turn-around time for re-use of the pit/septic tank and will lead to sustained use of the toilets.

The Swachh Bharat Mission invites solutions to expedite the process of decomposition of faecal material.

It is expected that the technology decomposes the faecal material in the shortest possible time, is cost-effective, scalable, easy to implement, weather proof and environmental-friendly.

Problem Statement: Affordable toilet technology for remote difficult terrains, flood prone areas and areas with hard rock surfaces

The Swachh Bharat Mission wants to promote affordable, sustainable and environmentally friendly toilet technologies across the nation. However, in certain parts of the country, these available technologies have not been successful in being robust and cost-effective. This is especially true for areas which are flood-prone, areas which have a hard rock surface, and areas which are remote and poorly connected with transportation infrastructure.

For example, in the hill states of Arunachal Pradesh and Meghalaya, it is very expensive to transport bricks and cement from the mainland, in parts of Gujarat the surface is rocky, making it difficult and expensive to dig holes in the ground for construction, and in parts of the Ganga belt which are prone to floods, it is difficult to build toilets which are robust and environmentally friendly owing to the high water-table in monsoons.

The Swachh Bharat Mission Gramin invites solutions for innovative toilet technologies from the participants for the following areas:

- a) Remote and poorly connected areas
or/and
- b) Hard rock areas
or/and
- c) Flood Prone areas

Any solutions for the Upgradation of the current technology that is being adopted by the ministry that is, the twin pit system are also welcome.

It is expected that the technology is cost-effective, sustainable, reliable and durable, user-friendly, weather proof, environmental-friendly, and preferably uses locally available material (locally implies the area to which the technology is built for).

Problem Statement: Ensuring maintenance of school toilets in rural India

All government schools in India have been provided with toilets under the Swachh Vidyalaya initiative. However, due to the lack of human and monetary resources across many schools, continuous maintenance of these toilets is challenging. There are also other problems in certain areas like lack of adequate water.

The Swachh Bharat Mission Gramin invites solutions to:

- Ensure effective maintenance of school toilets
- Reduce the time needed/spent on maintenance of toilets
- Reduce the cost of maintenance of school toilets

The solutions should:

- Affordable by schools in rural India (which have very slim budgets)
- Scalable
- Be socially acceptable
- Not coercive and equitable
- Adaptable to varying sizes of school toilets