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RCUES, Mumbai
Enabling better cities...



Urban Environ Vision

An information bulletin



RCUES
Mumbai

Regional Centre for Urban & Environmental Studies
All India Institute of Local Self-Government, Mumbai

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Director, RCUES, AIILSG, &
Editor
Ms. Utkarsha Kavadi



Urban Environ Vision aims to take its readers through the journey of RCUES, Mumbai while providing encouragement and inspiration. It offers a platform to display the efforts undertaken by RCUES, Mumbai and showcases its achievements.

Regional Specialized Training Programme on 'Solid Waste Management with a focus on Segregation, Collection & Transportation'

25th & 26th September, 2018, Diu, U.T.

Key highlight of this training programme was the group work to find innovative solutions of solid waste management in segregation, collection and transportation to assess the understanding of the participants.

Background

An efficient and sustainable Solid Waste Management System (SWMS) is ideally an umbrella encompassing all the aspects of waste management like generating less amount of waste in principle, segregating waste at source before its collection, efficient primary and secondary waste collection and transportation, scope for maximum recycling and reuse of waste, diverting minimum amount of waste to landfill, and scientific final disposal of inert waste leftover. Our main focus is on streamlining collection and transportation of waste which in turn affects all the later stages of waste management. The disposal of waste without a proper collection system leads to health hazards, economic loss, and environmental sufferings. Likewise, an improper collection and transportation system also reflects negatively on the society resulting in the development of open spots, blocked drainage, and other nuances.

The first and foremost requirement is citizen participation in pre-collection interventions like segregation and the use of appropriate receptacles takes time. Without systematic routes and regular schedules for collecting, other resources like time and fuel are wasted. There is thus, a need to encourage further participation of citizens. There should be the extensive dissemination of information about the system before launching full implementation which provides citizens with information to appreciate their role in ensuring the implementation of the improved collection system. Also, a systematic routing scheme with consideration for safety and maximizing usage of operating resources

will lead to better efficiency in collection and transportation. A schedule needs to be devised that covers collection time and days for both regular and 'on request' areas. Location of transfer station needs to take into account the ideal location for dumping trucks, availability of adequate space, and proximity convenience to the market where recyclables can be sold off generating revenue.

Using Geo-Informatics, solid waste disposal management can be carried out efficiently. This technique saves approximately 50% expenditure to be incurred on SWM but requires skilled persons initially to perform this optimization task and assign the routes to the concerned vehicles. This technique can also be used as a decision support tool by municipal authorities for efficient management of daily operations for transporting solid wastes, load balancing within vehicles, managing fuel consumption and generating work schedules for the workers and vehicles for overall cost minimization. Slope also needs to be considered while assigning a path to the vehicles as it affects the speed of vehicles as well as their moving directions. All these aspects and techniques, if employed and monitored properly will surely lead to a better solid waste collection and transportation mechanism and ultimately an improved solid waste management system.

Against this background, Regional Centre for Urban & Environmental Studies (RCUES) of All India Institute of Local Self-Government (AIIILSG), Mumbai organized a

Regional Specialized Training Programme on ‘Solid Waste Management with a focus on Segregation, Collection & Transportation’ on 25th & 26th September, 2018 at Diu, U.T. The training programme was supported by Ministry of Housing and Urban Affairs (MoHUA), Government of India (GoI).

Key Objective

The key objective of the training programme was to discuss various methods and solutions to improve SWM at city level, with a focus on different parts of value chain and support ULBs in achieving their targets under Swachh Bharat Mission (SBM).

Participation

66 participants comprising of President, Chairman, Chief Officers, Chief Sanitary Inspectors and Sanitary Inspectors from urban local bodies of Goa and Gujarat attended this training programme.



Participants during the programme at Diu (U.T.).

Inauguration

This training programme commenced with an introduction by Amruta Paranjape, Research Associate, RCUES of AILSG, Mumbai. She welcomed participants and explained

the objective of the training programme to focus on SWM value chain at the city level and support ULBs in achieving mission objectives as SWM is one of the significant components of SBM. Ms. Babita Prabhudesai, Chairperson of Margaon Municipal Council inaugurated the training programme.



Ms. Babita Prabhudesai, Chairperson of Margaon Municipal Council inaugurating the programme.

Experts to Speak

Renowned subject experts were invited to address the participants on Solid Waste Management and its value chain.

The first session was addressed by Ms. Amruta Paranjape, Research Associate, RCUES of AILSG, Mumbai on ‘Overview of Solid Waste Management’. She elaborated upon the Indian scenario in SWM by sharing the status of waste generation and processing in different states in India. She further explained the objectives of Swachh Bharat Mission, focusing primarily on ‘Modern and Scientific Municipal Solid Waste Management’. She deliberated that, though urban waste is a complex process, it needs to be solved by understanding the solid waste management value chain for efficient planning, identifying the key issues specific to the city for prioritization, choosing appropriate technology, knowing the policy framework for proper implementation and learning from good practices.

Further, she elaborated on the value chain from segregation, collection to disposal of solid waste management by citing various examples. She concluded the session by sharing a policy framework in India by stating the rules and guidelines of SWM Rules - 2016.



Ms. Amruta Paranjape, Research Associate, RCUES of AIILSG, Mumbai addressing the participants.

The next session on ‘SWM treatment processes with the focus on composting’ was taken by Mr. Narendra Kumar Dhaveji, Chief Operations Officer (COO), Sampurna Earth Environment Solutions, Mumbai. He gave an overview of technologies available for wet as well as dry waste processing.



Mr. Narendra Kumar Dhaveji, COO, Sampurna Earth Environment Solutions, Mumbai addressing the participants.

Further, he explained several composting technologies in detail with the benefits. Through his experience of implementing wet waste processing technologies in Goa and Gujarat, he explained the working and revenue model of the projects. He concluded his session by interacting with participants about the type of processing technology implemented in their cities and by giving suggestions to cities which had not started with processing their wet waste.

Ms. Amruta Paranjape, Research Associate, RCUES of AIILSG, Mumbai, took the next session on ‘Swachh Survekshan 2019’. The session started with the overview of changes from Swachh Survekshan 2018 to 2019. She explained the marking system and indicators that would be used to assess the cities. She discussed with participants their strategies for Swachh Survekshan 2019 based on which she gave them priority action points to help their prepare better for the assessment. She concluded the session by explaining the participants the objective and importance of Survekshan and encouraged them to make the best use of the opportunity to improve the sanitation and solid waste scenario in their cities.

Mr. Hakimuddin Bharmal, Head of the Department, Planning, Harsukhbhai K. Dhruv Centre of Planning, Rajkot, took the session on ‘SWM Rules 2016 and its effective implementation’.



Mr. Hakimuddin Bharmal, Head of the Department, Planning, Harsukhbhai K. Dhruv Centre of Planning, Rajkot addressing the participants.

He started his session by giving a comparative overview of Solid Waste Management Rules 2000 and 2016 in terms of applicability, categories of waste segregation, responsibilities of waste generators, user fee and spot fine, rag pickers, land allocation for SWM facilities etc. He concluded by discussing the time frame for effective implementation of SWM Rules.

Mr. Mahesh Pandya, Director, Paryavaran Mitra, Ahmedabad, took the session on 'Effective implementation of Plastic Ban'. He discussed the types of plastic categories that were banned. He said that for its effective implementation, awareness generation is significant at community level, city level, etc. He portrayed the figures in percentages on plastic generated industries. He stressed that the municipal authorities should take strict measures on prohibition of plastic as it has hazardous impact on health and environment.



Mr. Mahesh Pandya, Director, Paryavaran Mitra, Ahmedabad addressing the participants.

He further emphasized on plastic recycling where plastic granules can be used for road construction. He further noted that recycling of plastic will help urban local bodies to generate revenue.

Lastly, he concluded by citing good practices in recycling technology.

Group Exercise

The group exercise was conducted to help the participants apply the knowledge disseminated during the technical sessions. The participants were divided into five groups and each group was asked to present smart solution on collection and transportation of solid waste. Participants discussed among the group and tried to formulate viable smart solutions for solid waste collection and transportation system. Each group presented the ideas applicable to their cities in SWM collection and transportation.

Later, Ms. Aditi Paranjape, Programme Officer, RCUES of AIILSG, Mumbai concluded the activity by declaring the group which gave the best solution.

Summing-up

At the end of the training programme, feedback was taken from the participants. The training programme was concluded by presenting a vote of thanks and issuance of certificates to the participants.

Feasibility Study for Cluster Level Dry Waste Management - A Case of Maharashtra

Background

Since the launch of Swachh Bharat Mission, Urban (SBM - Urban) cities in India are taking dedicated efforts for better management of Municipal Solid Waste (MSW) generated in cities. Under SBM and as per SWM rules 2016 it is mandated that all Urban Local Bodies (ULBs) in India should achieve 100% segregation of waste preliminary into wet waste and dry waste. As the cities are working towards achieving the goal of 100% waste segregation the second stage of waste management i.e. waste processing has to be focussed on to achieve the objective of better management of solid waste under SBM. With the partial segregation of waste achieved by cities do far methods for treating/processing of wet waste are well known to the ULBs and are practiced by them.

The dry waste which is being segregated further into various categories like paper, plastic, glass, metals etc., many a times does not find a proper destination. While every small ULB is making an effort to increase the percentage of segregation of waste, it is necessary that they are provided with expert guidance on how to manage the segregated waste.

Therefore, through the research study 'Feasibility Study for Cluster Level Dry Waste Management - A Case of Maharashtra', Regional Centre for Urban & Environmental Studies (RCUES) has attempted to address the issues and challenges faced by the ULBs in recycling their dry waste by identifying the potential markets for the segregated and recyclable dry waste and suggesting a sustainable revenue generating model for the ULBs. Since the geographical extent to which the study can be applied is vast, to ensure that appropriate scale is maintained, a sample study area has been narrowed down in Maharashtra state in which select cities have been identified to conduct research and analysis.

To understand the type of dry waste that the cities need to process/recycle, this study preliminarily tries to identify the type of dry waste that reaches dumping site and is segregated

by the ULBs. Furthermore, primary survey was conducted and MSW norms were referred to estimate the quantum of dry waste that is generated in the cities. Based on the type and quantum of dry waste that the ULB has to process this study has focussed on identifying dry waste recycling processes available and various types of recycling industries available.

To explore the existing market/network for recycling dry waste, case studies were undertaken through primary survey in cities where it is being implemented to understand the existing pattern of dry waste management. The case studies also captures the revenue and expenditure models of solid waste management department for 2017-18 financial year. Based on the analysis of the revenue and expenditure models and data collected through site visits, financial models were developed with suggestions of revenue generating models for the ULBs.

For instance, some of the case studies for plastic waste recycling include those of Warora and Ballarpur. These industries recycle plastic to manufacture garden benches, manhole covers, tree guards, fencing poles etc. The councils have encouraged innovative plastic recycling industries to set up their units in the council's dump yard by providing a shed for machinery. The recycling industry in turn uses all plastic waste that is being sorted from the segregated dry waste. Following pictures show some of the products obtained from recycled plastic sourced from the ULBs.



Garden benches and manhole covers made from recycled plastic.

Integrated Capacity Building Programme (ICBP)

All India Institute of Local Self-Government (AIILSG), Mumbai.

Background

Ministry of Housing and Urban Affairs (MoHUA), Government of India (GoI) is implementing several flagship urban missions / schemes for the overall development of the urban sector. They include- 1) the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) focusing on water supply and sewerage improvement, 2) Smart City Mission (SCM) aimed at developing smart solutions to improve selected urban areas, 3) Swachh Bharat Mission (SBM) focusing on Open Defecation Free (ODF), waste management and sanitation 4) Heritage City Development and Augmentation Yojana (HRIDAY) to address inclusive development of heritage cities 5) National Urban Livelihood Mission (NULM) to reduce poverty and ensure self-employment through skill development and 6) Pradhan Mantri Awas Yojana (PMAY) to provide permanent shelter to urban poor. Currently these schemes are operating in a standalone manner. There is a scope to develop an integrated approach towards the missions in order to increase the efficiency of implementation.

Recognizing a need for capacity building of technical functionaries and elected representatives involved in the implementation of these, the MoHUA has launched an Integrated Capacity Building Framework covering all the missions. It is our pleasure to state that All India Institute of Local Self-Government (AIILSG), Mumbai is empanelled to implement Capacity Building Programme under Integrated Capacity Building Programme (ICBP).

AIILSG, Mumbai organized three ICBP workshops at Mumbai and one ICBP workshop at Diu (Union Territory) along with the support from Government of Maharashtra and Diu Municipal Council respectively.

Key Objective

The key objective of the programmes was to sensitize the elected representatives against physical and economic outcomes targeted under AMRUT, Smart Cities Mission, HRIDAY, PMAY (U), NULM and SBM (U) by discussing their related service provisions and encouraging them to implement such missions with convergence.

Activities done under ICBP - Maharashtra

- ◎ Programme from 29th to 31st August 2018 at Mumbai.
- ◎ Programme from 5th to 7th September 2018 at Mumbai.
- ◎ Programme from 25th to 27th September 2018 at Mumbai.

Participation

85, 66 and 21 participants comprising of city missions managers (CMMs) of Maharashtra and assistant project officers (APOs) from NULM Mission and Engineers from PMAY, AMRUT & SBM Missions attended these programmes respectively.



Inauguration

The Orientation Capsule under ICBP commenced with the introduction by Mrs. Neha Hardikar, Sr. Research Officer, RCUES of AIILSG, Mumbai. She welcomed dignitaries on the dais and municipal functionaries from NULM sector. She explained the objective of the ICBP and the significance of convergence of existing standalone missions for effective implementation of projects.

The first batch of ICBP programmes of Maharashtra state was inaugurated by Dr. Jairaj Phatak, IAS (Retd.), former Municipal Commissioner of Municipal Corporation of Greater Mumbai (MCGM) & Visiting Professor, AIILSG, Mumbai. Mr. Satish Kulkarni, Dy. Director, Directorate of Municipal Administration (DMA), Government of Maharashtra (GoM), Mumbai addressed the municipal functionaries. He stated AIILSG has provided a good platform for all concerned officials working in the missions led by Government of India for effective cross learning. Ms. Utkarsha Kavadi, Director, RCUES, AIILSG, Mumbai in her special address, welcomed the guest on the dais and municipal functionaries. She explained the key highlights of this Orientation Capsule, under ICBP, where importance is been given on convergence of missions viz SBM, NULM, PMAY, AMRUT etc.

Experts to Speak

1. Urban Sector Overview

The session on 'Urban Sector Overview' was delivered by Dr. Jairaj Phatak, IAS (Retd.), former Municipal Commissioner of MCGM & Visiting Professor, AIILSG, Mumbai. He explained the growth and characteristics of urbanization in India. He further discussed the issues and challenges in governance, finance, provisions of infrastructure and service delivery. Later, he explained ongoing missions viz SBM, AMRUT, PMAY & NULM led by Government of India. He concluded by explaining the significance of convergence of these ongoing missions.



Dr. Jairaj Phatak, IAS (Retd.), former Municipal Commissioner of MCGM and Visiting Professor, AIILSG, Mumbai addressing the participants.

In the second programme, this session on 'Urban Sector Overview' was delivered by Mr. T. C. Benjamin, IAS (Retd.), Chairman, State Expert Appraisal Committee, Ministry of Environment & Forests (MoEF), GoI. He explained the issues and challenges in urban development, the importance of urban development and important acts viz Bombay Municipal Corporation (BMC) Act, 1888, Bombay Provincial Municipal Corporations (BPMC) Act, 1949 governing urban development. He further explained the role of various ongoing missions and the significance of preparation of service level implementation plan. He later emphasized on the need for convergence of various missions for its effective implementation.



Mr. T. C. Benjamin, IAS (Retd.), Chairman, State Expert Appraisal Committee, MoEF, GoI addressing the participants.

2. Reforms in Urban Development

The second session was delivered by Mr. P. C. Pisolkar, former Municipal Chief Auditor, MCGM & Sr. faculty, AIILSG, Mumbai. He spoke on urban reforms under AMRUT. He explained the challenges need to address in the implementation of components of AMRUT, preparation of Service Level Improvement Plans (SLIPs) at ULB level to access the gap in service delivery and effective solutions to overcome this city-wide gap. He later explained the financial outlay for achieving universal service delivery.



Mr. P. C. Pisolkar, former Municipal Chief Auditor, MCGM & Sr. faculty, AIILSG, Mumbai addressing the participants.

3. Affordable Urban Housing under Pradhan Mantri Awas Yojana – Urban (PMAY-U)

The third session was delivered by Ms. Vaijayanti Mahabale, Dy. General Manager, Housing and Urban Development Corporation (HUDCO), Mumbai. She explained the key challenges in affordable housing focusing on urban poor including the slum dwellers. She explained the 4 verticals of PMAY (U) - Affordable Housing in Partnership (AHP), Beneficiary Led Individual House Construction (BLC), Credit Linked Subsidy Scheme (CLSS) and In Situ Slum Redevelopment (ISSR). She discussed the urbanization and estimated shortage pertains to houses for several layers of people. She mentioned that, though Government of India (GoI) has given a boost to affordable housing for all, there are several issues in the development of affordable housing due to regulatory constraints, lack of clarity in building bylaws etc. Lastly, she explained the role of Urban Local Bodies (ULBs) in effective implementation of PMAY scheme at the city level.



Ms. Vaijayanti Mahabale, Dy. General Manager, HUDCO, Mumbai addressing the participants.

4. Improving Urban Services - Water Supply and Sanitation under Atal Mission for Rejuvenation and Transformation (AMRUT)

The fourth session was delivered by Dr. Ajit Salvi, Executive Engineer (Sewerage), MCGM, Mumbai. He spoke to the participants about AMRUT and its reforms, preparation of Service Level Improvement Plan (SLIP) and its parameters from infrastructure development to service delivery. He later explained Service Level Benchmarks (SLB) for accessing the existing service level gap. He concluded by citing national and international examples as a good practice in water supply and sanitation.



Dr. Ajit Salvi, Executive Engineer (Sewerage), MCGM, Mumbai addressing the participants.

5. Physical Improvement of Urban Areas under Swachh Bharat Mission (SBM)

The fifth session was delivered by Dr. Milind Kulkarni, Director, Prachi Services, Mumbai. He explained the significance of Solid Waste Management under Swachh Bharat Mission (SBM). He further discussed on SWM service chain and sustainable sanitation. Later he emphasized on wet waste composting at household level by depicting a demo. Lastly, he discussed innovations and best practices in waste management and ODF sustainability under SBM.



Dr. Milind Kulkarni, Director, Prachi Services, Mumbai addressing the participants.

6. Improving Livelihood Opportunities under National Urban Livelihoods Mission (NULM)

The sixth session was presented by Mr. Nitin Survase, State Mission Manager, NULM, DMA, GoM, Mumbai. He explained the 6 components of NULM which are - Social Mobilisation and Institution Development (SMID), Capacity Building and Training (CB&T), Employment through Skills and Training and Placement (EST&P), Self-Employment Programme (SEP), Support to Urban Street Vendor (SUSV) and Scheme for Shelter for Urban Homeless (SSUH). He tried to explain the concept of team building through games and interaction with participants.



Mr. Nitin Survase, State Mission Manager, NULM, DMA, GoM, Mumbai addressing the participants.

The same session was delivered by Mr. Bhagwat Pathare, City Mission Manager (CMM), Kalyan-Dombivali Municipal Corporation (KDMC) in the third training programme. He explained the pace of urbanization and the need for livelihood in an economically weaker section of the society. He explained the difference in SJSRY and NULM. He further explained strategies of livelihood. He cited several good practices in NULM.



Mr. Bhagwat Pathare, CMM, KDMC addressing the participants.

Site Visits

On the third day of the programme, the municipal functionaries were taken for the first site visit to the Jai Ambe

Community Area Level Federation (ALF) at Juhu tara Road, Santacruz (West), Mumbai. This Self Help Group (SHG) is formed under Area Level Federation, NULM. The group of women engaged in income generating activities at household level.

A second site visit was conducted to observe the Sewerage Treatment Plant (STP) at Bandra Reclamation, Bandra (West), Mumbai. This STP covers Bandra sewerage zone, having an approximate population of 35 lakhs and catchment area is around 77 sq. km. This zone covers Dharavi, Kurla, Bandra & some parts of Western Suburbs.

In this plant, sewer is collected and after preliminary treatment of fine screening and de-gritting, it is discharged into deep sea through marine outfall. Having 3.5 diameter

width & 3.7 km. length. For fine screening 20 mm screens are installed. For de – gritting, aerated grit chambers are provided. The installed capacity of the plant is 1910 MLD. There is effluent pumping station, which is operated at the time of high tides and for the cleansing operation of the outfall. This entire process is explained by MCGM Engineer to the participants to understand the treatment facility and can be replicated in their own cities.

Summing-up

These training programmes were concluded by Ms. Neha Hardikar, Sr. Research Officer, RCUES of AIILSG, Mumbai after taking the feedback from the participants and proposing a vote of thanks to them.

Glimpses of Site Visit at Jai Ambe Community ALF, Mumbai.



Glimpses of Site Visit at STP, Bandra, Mumbai

Activities done under ICBP - Diu, U. T.

© Programme from 26th to 28th September 2018 at Diu, U.T.

Programme from 26th to 28th September, 2018, at Diu, U. T.

Participation

15 participants comprising Dy. President, elected representatives and municipal engineers working for NULM, PMAY, Smart City and SBM Missions of Diu Municipal Council attended this programme.

Experts to Speak

This programme is specially designed for union territory DIU and includes 4 missions i.e. SBM, NULM, PMAY and SCM.



Mr. T. C. Benjamin, IAS (Retd.), Chairman of State Expert Appraisal Committee, MoEF, GoI addressing the participants.

The first session on 'Urban Sector Overview' was delivered by Mr. T. C. Benjamin, IAS (Retd.), Chairman of State Expert Appraisal Committee, MoEF, GoI. He explained characteristics of urbanization in India, the issues and challenges in urban development, the importance of urban development and important acts viz BMC Act, 1888, BMC Act, 1949 governing urban development. He further explained the role of various ongoing missions and the significance of preparation of service level implementation

plan. Based on his vast experience of serving in government administrative services he interacted with participants to address the issues they were facing during implementation of the missions. He concluded his session by emphasizing on the need for convergence of various missions for its effective implementation.



Ms. Amruta Paranjape, Research Associate, RCUES of AILSG, Mumbai addressing the participants.

The second session on 'Physical Improvement of Urban Areas under Swachh Bharat Mission (SBM)' was delivered by Ms. Amruta Paranjape, Research Associate, RCUES of AILSG, Mumbai. She started her session by giving an overview of SWM scenario in India and explained the significance of Solid Waste Management under SBM. She further discussed SWM value chain while focusing on infrastructure requirement for augmenting 100% segregation, collection, transportation, and processing of municipal solid waste. She emphasized on the factors that affect SWM value chain. She concluded her session by citing case studies of good practices of cities in Maharashtra.

The second day of the programme started a brief recap of sessions undertaken on first day of the programme by Ms. Aditi Paranjape, Programme Coordinator, AILSG, Mumbai.

The third session on 'Improving Livelihood Opportunities under National Urban Livelihoods Mission (NULM)' was presented by Ms. Trupti Chhatbar, ESTP Manager, NULM, Veraval Municipality, Gujarat. She explained the

6 components of NULM - Social Mobilisation and Institution Development (SMID), Capacity Building and Training (CB&T), Employment through Skills and Training and Placement (EST&P), Self-Employment Programme (SEP), Support to Urban Street Vendor (SUSV) and Scheme for Shelter for Urban Homeless (SUH).

She explained the vulnerability of the urban poor and necessity of gainful employment opportunities to improve and sustain their livelihood. She added, NULM mission would address livelihood concerns by facilitating access to sustainable employment opportunities. She also explained the progress and work undertaken by Veraval city in NULM.



Ms. Trupti Chhatbar, ESTP Manager, NULM, Veraval Municipality, Gujarat addressing the participants.

The fourth session on ‘Affordable Urban Housing under Pradhan Mantri Awas Yojana – Urban (PMAY-U)’ was delivered by Mr. Vimal Sharma, AGM Projects, HUDCO, Ahmedabad. He explained the key challenges in affordable housing focusing on urban poor including the slum dwellers. He explained the 4 verticals of PMAY (U) which are - Affordable Housing in Partnership (AHP), Beneficiary Led ‘Individual House’ Construction (BLC), Credit Linked Subsidy Scheme (CLSS) and In Situ Slum Redevelopment (ISSR). Lastly, he explained the role of Urban Local Bodies (ULBs) in effective implementation of PMAY scheme at the city level and also congratulated Diu Municipal Council for showing a bright pace in PMAY work undertaken at BLC level.



Mr. Vimal Sharma, AGM Projects, HUDCO, Ahmedabad addressing the participants.

The fifth session on ‘Improving Service Delivery Use of Smart Solutions with Good Practices’ was addressed by Mr. Jigar Pandya, Professor, Amiraj College of Engineering & Technology, Ahmedabad. He started with congratulating Diu city for being on rank 3 in the winning cities list of Smart City Mission 2018. He then stated various components of SCM to participants and interacted with them to know their understandings about SCM. He explained Smart City Mission objectives, policies and later briefed about an integrated approach that Diu, as a union territory should develop for their upcoming implementations.



Mr. Jigar Pandya, Professor, Amiraj College of Engineering & Technology, Ahmedabad addressing the participants.

Site Visit

On the third day of the programme, the municipal functionaries were taken on a site visit to BLC, PMAY housing site near Ghogla. The objective of this site visit was to exhibit successful rehabilitation under In – Situ development. The beneficiaries were rehabilitated to newly constructed houses under PMAY (U).

This entire scheme and procedure was explained by Mr Deepak Solanki, Municipal Engineer at Diu Municipal Council to the participants. He also conducted a tour through completed houses and ongoing sites to give a detailed understanding of the PMAY mission.

Summing-up

This training programme was concluded by Ms. Aditi Paranjape, Programme Coordinator, AIIILSG, Mumbai after taking the feedback from the participants and proposing a vote of thanks to them.

Glimpses of the Programme



Performance Assessment System (PAS) Data Verification

All India Institute of Local Self-Government (AIILSG), Mumbai.

Background

Performance Assessment System (PAS) project deals with Performance Assessment of urban local bodies. Performance assessment helps the ULBs to identify areas of well performing and poorly performing areas in the Water Supply, Sanitation and Solid Waste Management sectors.

PAS along with All India Institute of Local Self-Government (AIILSG), Mumbai supports Government of Maharashtra in three broad areas:

- ▲ Policy/Strategic Support - Support in developing policy/guidelines for implementation of Swachh Maharashtra Mission program like ODF Framework, ODF Handbook, Sustainability guidelines, Septage guidelines etc.
- ▲ Technical Support – Providing technical support in day-day operations of the mission like Presentations at workshops, monitoring of missions, Resource material compilation etc.
- ▲ Capacity Building Support – Providing capacity building support to ULBs for achieving ODF, ODF+ and ODF++ status like organizing workshops and developing tools like saniplan, sanitab and so on.

Data Verification

- The city officials enter the data from their offices referring the respective data records in their cities.
- As there is no on ground collection of data in the above stated process, it was important to validate this information with the on-ground realities.
- Hence, few ULBs were selected to verify that the information given by the ULBs are based on the which records or estimates.

Process

- **PAS SLB UWSS Data 2016-17** – Review the data submitted by ULB, its reliability and identify the gaps.
- **Visit to city** – Contact ULB officials about the visit and briefing them the aim of data verification and documentation of data record system.
- **Discussion with ULB officials** – Discussion with Chief Officer and ULB officials about data verification. Asking the officials to produce data records from which they have given the data.
- **Cross checking with Records** – Verifying the data given with respect to the records or the calculations on the basis of which data was estimated. Discuss about the variation in the data.
- **On ground site visits** – Site visits to Water source, treatment plant, ESRs, community toilets, Solid waste dumping site, etc.
- **Calculating the Variation in KPIs and Reliability** – Comparing the data given by ULB and data collected from site visit. Calculating the variation of revised data w.r.t. the data given by ULB and its reliability.
- **Conclusions and Report** – A report on the Data validation with recommendations and way forward.



Discussions with ULB officials - Kolhapur Municipal Corporation.

Testimonials



**Training Programme on ‘Solid Waste Management with a focus on Segregation, Collection & Transportation’
25th & 26th September, 2018, Diu, U.T.**

Ms. Babita Prabhudesai, Chairperson, Margaon Municipal Council, Goa.

“The capacity building programme was well organized and the content of the sessions were well designed. Swachh Survekshan 2019 was a very informative and helpful session. We would like to arrange these programmes in our city also in coordination with RCUES, Mumbai. ”

Mr. Kaushal Chauhan, Addl. Asst. Engineer, Jamnagar Municipal Corporation, Gujarat

“The technical sessions on Swachh Survekshan 2019 and SWM Rules - 2016 were very informative. We will try to implement the composting technique as suggested in the session in our city. RCUES team conducted the group activity effectively which helped us work together and find smart solutions in SWM collection and transportation process.”

Mr. Hareshbhai Vyas, Dy. Engineer, Bhavnagar Municipal Corporation, Gujarat.

“I feel this type of training is very useful for designing future services and also helps in updating technical know-how in our day to day work. The sessions were useful to us, especially on Swachh Survekshan. I will be looking forward to attending such training programmes in near future.”

RCUES Advisory Committee

Mrs. Manisha Mhaiskar, IAS

Ex-Officio Chairperson

Principal Secretary,
Urban Development Department,
Government of Maharashtra,
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Mr. Pawan Kumar Goyal, IAS

Member

Addl. Chief Secretary,
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