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STATE POLLUTION CONTROL BOARD, ODISHA
(Department of Forest & Environment, Govt. of Odisha)

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No 1013 /

Ind-IV-SW-164

Dt 29.01.2020

Meeting Urgent
By Speed Post/ Email

To

The Additional Chief Secretary to Govt.,
Forest & Env. Department.
The Principal Secretary to Govt.,
H & UD Department.
The Principal Secretary to Govt.,
Panchayati Raj & Drinking Water Department.
The Principal Secretary to Govt.,
Health & Family Welfare Department.


Sub: Proceedings of the 10th Meeting held on 07.01.2020 as well as site visit report of the State Level Committee on Solid Waste Management in Odisha to Paradeep area.

Sir,

In inviting a reference to the above mentioned subject, please find enclosed herewith the proceedings of the 10th Meeting of the State Level Committee on Solid Waste Management in Odisha held on 07.01.2020 in the Circuit House, Paradeep as well as site visit report to Paradeep area under the Chairmanship of Hon'ble Justice P.K. Mohanty, Former Judge, High Court of Orissa for further action at your end.

Encl : As above

Yours faithfully,


 29/01/2020

**MEMBER SECRETARY/
MEMBER CONVENER**

Memo No. 1014 /Dt. 29.01.2020

Copy along with enclosure forwarded to the Director, Env-cum-Spl. Secy, F&E Department / Director, Drinking Water & Sanitation, PR&DW Department / Director, Municipal Administration, H&UD Department/ Director, Public Health, H&FW Department/ Chairman, Paradeep Port Trust, Paradeep/ Executive Officer, Paradeep Municipality for information & necessary action.

Encl: As above

 29/01/2020

**MEMBER SECRETARY/
MEMBER CONVENER**

Proceedings of the 10th Meeting of State Level Committee on Solid Waste Management held on 07.01.2020 at 10.30 AM in Circuit House, Paradeep

The 10th meeting of the State Level Committee on Solid Waste Management was held on 07.01.2020 at 10.30 AM under the Chairmanship of Hon'ble Justice P.K. Mohanty, Former Judge, High Court of Orissa, in Circuit House, Paradeep. The list of participants is at **Annexure-I.**

At the outset the Chairman welcomed the Members and other invitees to the meeting and requested the Member Secretary, State Pollution Control Board (SPCB) to proceed with the compliance made with respect to the decisions taken in the last meeting.

Member Secretary, SPCB then presented the action taken on the decisions of the last meeting which are as follows:

Sl. No.	Decision taken	Compliance
1.	It was decided that SPCB may request the DMET for reconciliation of non-govt. HCEs by 15 th of January, 2020. In case still non-compliance is observed, then the concerned HCEs may be show-caused. (Action- SPCB/DMET).	DMET has been requested vide SPCB letter No. 136 dt. 04.01.2020 for reconciliation of non-govt. HCEs.
2.	It was decided with regard to segregation of waste at source that complete segregation at all the wards of model towns and cities be completed by 31 st January, 2020. (Action: H & UD Dept.).	Action is being taken for compliance.
3.	It was decided that SPCB may conduct extensive survey through the field establishment for ensuring stoppage of manufacturing of prohibited plastic items in the state. (Action: SPCB).	All Regional Officers of SPCB have been requested vide letter No. 134 dt.03.01.2020 for conducting extensive survey for ensuring stoppage of manufacturing of prohibited plastic items in the state.
4.	It was decided that since not all Collectors are furnishing monthly reports to the Department or the Committee, H&UD Department may write to Collectors for holding meeting fortnightly and furnish the reports. (Action: H&UD Dept.).	Action is being taken.
5.	It was advised that H & UD Department may explore the possibility of registering the trade mark for "Mo Khata", the organic manure produced from the processing at pit composting and MCC. (Action: H&UD Dept.).	Action is being taken.

6. It was decided that the Executive Officers of all the ULBs (excepting the Corporations) shall be the Nodal Officers and their names and e-mail IDs may be uploaded in the website of the Committee for redressal of public grievances. **(Action: SPCB)** Name of Executive Officers (Nodal Officers) and e-mail IDs have been sought from all the ULBs (excepting the Corporations) vide SPCB letter No.14109 dt.30.12.2019.
7. It was decided that H&UD Department may take up a special drive for developing a protocol to ensure that the contractors engaged in construction work to lift the C&D waste & put it in earmarked areas. **(Action: H&UD Dept.).** Action is being taken.

Chairman then enquired about the progress made so far in ULBs and GPs in Solid Waste Management.

The Addl. Director, SUDA, H&UD Department apprised that the construction of 176 nos. of MCCs have been started, out of which 10 nos. have been completed. It was apprised that construction of all the MCCs will be completed by 31st March, 2020. Further it was stated that construction of 87 nos. of Material Recovery Facilities in 96 ULBs have been started, out of which work of 26 have been completed.

Chairman then enquired about progress made with regard to Solid Waste Management in Paradeep. It was stated that Paradeep Municipality has a total of 19 wards with about 68,585 populations and about 15 TPD of wet waste is generated. At present there is one Material Recovery Facility and two nos. of Micro Compost Centres. Multiple stake holders such as waste pickers, SHG members, and civil society have been involved in the waste management which includes collection and processing. There is 100% door to door collection of the segregated solid waste and is taken to Material Recovery Facility where sorting is done and the valuables are sold. The rejected or non-recyclable are stored for further use. The wet wastes collected from individual households and commercial areas are being taken for processing in Composting centres. The non-biodegradable / non-recyclable materials are being sent to cement factory. 17 nos. of tractors, 05 nos. of tippers, 40 nos. of tricycles and 100 nos. of push carts are being deployed for transportation of solid waste (garbage) from different wards of the Municipality. About 280 personnel have been deployed at work at different wards. 35 members of Swachha sathi and Swachha sathi supervisors have been engaged in MCCs and MRFs. The product from MCCs is packed as "Mo Khata" for subsequent use as manure by the citizens.

Plastic wastes from different wards are collected and shredded in MRF and there is a proposal for use of the same in construction of roads. It was advised that ADM, Paradeep may facilitate for use of the plastic waste in roads and also explore plastic recycling units which can be tied up with Paradeep Municipality for taking shredded plastic. It was also suggested by the Committee that Paradeep may consider showcasing its solid waste management practice.

On enquiry regarding present status of Bio-medical waste in health care facilities in Paradeep, Addl. Director (PH) submitted that shredders and autoclaves have been supplied to almost all the HCFs in the district and regular training programme is being conducted as per the training cycle. It was suggested that a third party evaluation of the training may be conducted in order to know the adequacy.

The Joint Secretary, PR Department furnished the action taken report regarding solid waste management in rural areas. He submitted that all GPs in the State have adopted the “Bye Law on Solid Waste Management in Gram Panchayats of Odisha 2019”, which also includes management of Plastic Waste. Odisha Rural Sanitation Policy with focus on areas like SWM and PWM has been drafted. The vision of the policy is to achieve a “Swachha Odisha Sustha Odisha”, thereby leading to improved health and general well-being. An advisory on taking up SWM interventions across the State, in convergence of various schemes has been issued. Model designs for SWM technologies for Bio-Degradable and Non-Bio-degradable waste, including plastics, has been prepared for implementation across the State. An action plan on PWM has been drafted.

A state-wide campaign (covering all Districts, Blocks and GPs) on Plastic Waste Management in lines with the Government of India’s Swachhata Hi Seva campaign was taken up during Sept 11, 2019 to Oct 27, 2019 period. The key activities such as awareness generation across towns and villages for collection, and disposal of plastic waste, Shramdaan for general swachhata were undertaken. 5,12,353 people participated in the Swacchata Hi Seva campaign across the State including in mass awareness campaigns on Waste Management, Shramdan activities, etc. during the period. During the campaign about 32,990 kgs of waste plastics were collected across the State.

It was informed that all GPs in the State have adopted the “Bye Law on Solid Waste Management in Gram Panchayats of Odisha 2019”, in accordance with the SWM Rules, 2016. The State Rural Sanitation policy with focus on areas like SWM has been drafted.

District Advisory Committee on Solid Waste Management has been formed in all the Districts. Block Advisory Committee on Solid Waste Management has been formed in 259 blocks (including all blocks with the focus 153 GPs). Gram Panchayat Committee on Solid Waste Management has been formed in 2,327 GPs, including in all the focus 153 GPs.

On the issue of Training and Capacity Building, it was submitted that training of 70 master trainers on taking up SWM initiatives in rural areas of Odisha has been completed. These master trainers are handholding districts on implementing SWM in rural Odisha.

Land has been identified for development of 3,859 community level compost pits in those 153 GPs. 63 Secondary storage facilities for recovery of recyclable waste have been developed in the GPs. Additionally, land has been identified for development of 240 Resource Recovery Centers (RRC) in the GPs. Material Recovery Facilities developed in the ULBs shall be used for disposal of waste collected in the villages. Currently 64 MRFs or RRCs in the ULBs have been tagged with the nearby GPs in the districts. It is proposed for transfer of the collected waste from GPs to nearby facilities of ULBs. 173 Community land fill sites have been developed in the GPs, for disposal of inert wastes. Additionally, land has been identified for development of 1,231 Community land fill sites in these GPs.

Then the Chairman of the Committee requested Chairman, Paradeep Port Trust to give a presentation on action taken by Paradeep Port. The Chairman, Paradeep Port Trust presented in brief regarding the development made so far from 3rd January, 1962 the date of foundation stone laid by Pandit Nehru to till date which has at present 16 berths, 1 RO-RO jetty, and 3 SPMs. It was informed that Paradeep is the 2nd Major Port in the country to handle about 109.27 million tons of cargo during 2018-19. Paradeep port is the largest port in the country in terms of rated capacity. It is also the largest dry bulk handling, coal handling, and coastal cargo handling port in the country. Kandla Port is handling marginally higher cargo. Then the progress made so far regarding construction of a clean cargo terminal was presented before the Committee. Further steps taken by Port authority regarding environment management such as construction of 10 MLD Desalination Plant for supply of clean drinking water, construction of STPs and recycling of the treated water for road sprinkling and gardening for zero discharge as well as use of treated water for dry fog dust suppression at iron ore handling was presented before the Committee. It was further submitted that for prevention of generation of dust for roads, all roads carrying cargo are being converted to concrete road. Use of special chemicals in road sprinklers to prevent the dust to be air borne are being tried in port area. Use of road sweepers as well as provision of truck wheel washing for removal of

dust from roads and vehicles have been implemented. Further for arresting wind borne cargo dust a net barrier of 5 km length have been constructed and further construction of net barrier of 2 kms have been planned.

After detail deliberation the following decisions were taken in the meeting.

1. ADM, Paradeep may facilitate use of shredded plastic waste in construction of roads and also facilitate to tie up with plastic recycling unit for recycling of collected plastic waste. **(Action- ADM, Paradeep).**
2. Paradeep may showcase its solid waste management practices. **(Action- H&UD Dept).**
3. A GP may be developed in similar lines as best model to showcase its dynamics in a sustainable manner in solid waste management. **(Action- PR & DW Dept).**
4. A third party evaluation may be conducted for evaluating the training on biomedical waste management imparted to the paramedics. **(Action- H&FW Dept).**
5. PR & DW Department to take up with Finance Department for making dedication budgetary provisions for Solid Waste Management. **(Action- PR & DW Dept).**

The meeting ended with vote of thanks to the Chair.

This is issued with the approval of Chairman.

REPORT OF STATE LEVEL COMMITTEE FOR SOLID WASTE MANAGEMENT
ON VISIT TO PARADEEP AREA ON 07.01.2020

The State Level Committee on Solid Waste Management headed by Hon'ble Justice P.K. Mohanty, Chairman along with Members of the Committee, Additional Chief Secretary to Govt., Forest & Environment Department, and Member Secretary/Member Convener, State Pollution Control Board made a site visit to Paradeep area on 07.01.2020 to review the Solid Waste Management in Paradeep Municipality as well as Biomedical Waste Management in Paradeep Port Hospital and CHC, Atharbanki i.e. Biju Memorial Hospital, Paradeep.

The following officers also accompanied the Committee.

1. Spl. Secretary, Health & Family Welfare Department.
2. Addl. Director, H&UD Department, SUDA.
3. Project Director, DRDA, Jagatsinghpur.
4. Chief Env. Scientist, State Pollution Control Board.
5. Joint Secretary, PR&DW Department.
6. Addl. District Magistrate, Paradeep.
7. Addl. Director, Public Health, H&FW Department.
8. Executive Officer, Paradeep Municipality.

Chairman and Vice-Chairman of Paradeep Municipality welcomed the Chairman and other Members of the Committee at Special Circuit House, Paradeep. A preliminary meeting was held in the Circuit House, Paradeep. The list of participants is enclosed as **Annexure-A**.

The matter of solid waste management in Paradeep Municipality area was discussed in the 10th meeting of the Committee held prior to the site visit. The issue of environment management in Paradeep Port area and action taken by Panchayat Raj Department for management of solid waste in rural areas were also discussed in detail in the meeting. The details of discussion have been recorded in the minutes of the 10th meeting.



The Committee then proceeded for the site visit at Paradeep.

The Committee reached the Centre for Management of Coastal Eco System (CMCE) building of State Pollution Control Board at Paradeep. The CMCE building of SPCB is the 1st Govt. building to receive Platinum rating LEED (Leadership in Energy and Environment Design) certificate from US Green Building Council. It is a state of art building and the green features are sustainable site, water efficiency, energy and atmosphere, material and resources and indoor environment quality. The green features are efficient site development, reduction of potable water consumption, substantially through efficient energy efficiency. Solar panel of 24 KW capacities has been installed with net metering facility. The construction has been made with insulated wall, high performance glazing roof with reflective paints. As a result of such efficient measures, it was apprised to the committee that 1.2 lakhs of units annual energy consumption has been saved (40% of energy saving). 18 lakhs gallons of water which is 40% of water used has been saved on annual basis and there is reduction of CO₂ emission of 1.4 lakh tons on annual basis.

Then the Committee visited the Modular Effluent Treatment Plant at Paradeep Port Hospital. The capacity of the plant is 10 KLD. The contaminated waste water of the hospital is treated in this effluent treatment plant (ETP) before discharge. Both Anaerobic and aerobic treatment method is adopted for treatment of the waste water. The treatment components comprises of bar screen chamber for separation of any solid in the waste water and then subjected to acid or alkali dosing as per requirement in the equalization tank. Then it is pumped to anaerobic digester and subsequently to aerobic tank through the degasser. After aeration the water then flows to tube settler from which the supernatant portion flows to clear water tank and the under flow from the tube settler goes to sludge drying bed. The Committee then visited the 2 MLD capacity of sewage treatment plant of Paradeep Port Trust. The principle of activated sludge process is followed for treatment of the sewage generated from the port township. It was apprised to the Committee that two such STPs have been commissioned and one more STP is in the pipeline which will be commissioned in near future. The treated water is being utilized for gardening purpose.

The Committee thereafter visited the decentralized solid waste management i.e. Micro composting centre and Material recovery facility developed by Paradeep Municipality. The Committee reached the Material recovery facility. It was apprised to the Committee that



segregated waste are collected in tricycle with separate compartment and transportation of those segregated waste is done to the processing centre.

The dry waste is being sorted by engaging 16 rag pickers of SHG at MRF centres and recyclable waste is sold. Till date Rs.55,700/- amount of revenue generated from such dry recyclables and the amount is being distributed to the waste pickers (Swachh sathi and Swachh sathi supervisors) in MRF. A shredder placed in the MRF to shred the plastic bottles was inaugurated by the Chairman of the Committee.



The Committee then went to Micro composting centres meant for processing of wet waste. The wet waste collected from household and market area is brought to this centre where it is cut into small pieces and put in the bins. Enzymes are then added in those pits for rapid decomposition in the organic material. The material is then intermixed thoroughly and allowed to remain there for a longer period. The treated material is then taken out after a month and sieved and finally packed in 5 kg bags. It is a good organic manure and sold at Rs.5/- per kg. It was told to the Committee that a total of Rs.4,200/- as revenue has been generated by selling the manure to public. Compost making is an efficient way of converting all kinds biomass into high value fertilizer.



The Committee appreciated the methods adopted by the Municipality for recovery of the recyclables in MRF as well as conversion of wet waste in to organic manure in MCC. Chairman and Members of the Committee opined that Paradeep Municipality has taken good efforts and may showcase its solid waste management practices.

The Committee then proceeded to CHC, Atharbanki named as Biju Memorial Hospital to witness the biomedical waste management followed in the hospital. The Committee then went round the dental OPD and OT, dressing room where different colour bins were found to be in place for collection of biomedical waste generated during treatment. Then the Committee also went round the dengue detection centre, ELISA, LED, and CBC Lab as well as ICTC and RNTCP Lab where it was observed that proper handling of biomedical waste is being done and is kept in the earmarked colour bins. It was informed to the Committee that the collected biomedical waste is being transported to Jagatsinghpur Headquarter hospital for treatment.

Then the Committee visited the AAHAR centre at Paradeep which is adjacent to the CHC. The Committee went through the dining room and expressed their satisfaction by seeing the cleanliness maintained at the dining room. It was apprised to the Committee that about 1250 meals (morning-1000, night-250) are served regularly through this Govt. initiatives Aahar.



In the afternoon the Committee proceeded to Hajipur Gram Panchayat of Biridi Block. The Project Director, DRDA, Jagatsinghpur, Joint Secretary, PR&DW Department, and Sarpanch of the Panchayat welcomed the Chairman and Members of the Committee. A meeting was organized in Hajipur village. Sarpanch, Hajipur Gram Panchayat gave detailed information regarding various actions taken by the villages under Hajipur Gram Panchayat for management of solid waste. It was informed that there are four villages viz. Hajipur, Chandpur, Kantapada and Kama Sasan under the Hajipur GP with a total of 1280 houses. Bye law for solid waste management has been framed by the GP and two training programmes have been conducted, in which 26 personnel involved in solid waste management activities have been trained. Further there were 07 nos. of IEC activities such as awareness meetings and campaigns conducted related to solid waste management activities in which orientation was given to 2700 villagers. The door to door collection of solid waste is being practised in all the villages of the GP. Source segregation of the waste is practised in all the villages by encouraging villagers through IEC activities and providing dustbins. A model comprising of different composting facilities (pits) meant for different levels were displayed

as demonstration model for better understanding of the villagers regarding different composting facilities. Depending on the quantum of waste generated the villagers are at liberty to adopt any of the method at household level for composting. The demonstration facility was inaugurated by the Chairman of the Committee. The compost pits displayed were over ground and underground compost pits, earthen pot composting facility and pipe composting facility, flower pot composting as well as composting through NADEP method. Chairman appreciated such efforts taken by the GP for translating the objectives of the solid waste management into practices at ground level. The Members went round the display areas as well as few places inside the villages and expressed satisfaction regarding cleanliness of the village.



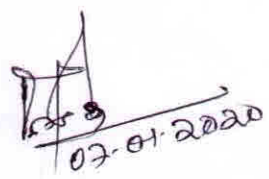

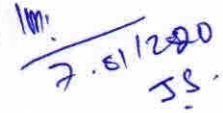

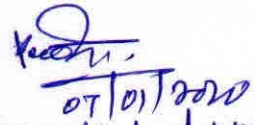




The Committee returned to Head Quarters.

This is issued with the approval of Competent Authority.

ATTENDANCE SHEET

**10TH MEETING OF STATE LEVEL COMMITTEE
FOR SOLID WASTE MANAGEMENT**




Date : 07.01.2020

<u>Sl. No.</u>	<u>Designation</u>	<u>Signature</u>
1.	Chairman, State Level Committee for Solid Waste Management	
2.	Addl. Chief Secretary to Govt., Forest & Env. Department	
3.	Principal Secretary to Govt., H & UD Department	
4.	Principal Secretary to Govt., PR & DWS Department	
5.	Principal ^{Special} Secretary to Govt., Health & Family Welfare Department	 07.01.2020
6.	Member Secretary/Member Convener, State Pollution Control Board.	
7.	Director, Drinking Water & Sanitation PR & DWS Dept.	- For.  7.01/2020 SS.
8.	Director, Env-cum-Spl. Secy, Forest & Env. Dept.	
9.	Director, Municipal Administration, H & UD Dept.	 D. P. Panda Addl. DIR H & UD SUSTA
10.	Director, Public Health, H&FW Dept.	 07/01/2020 Represented by Anil Das ADL(BMW)
11.	Chief Env. Scientist, State Pollution Control Board.	
12.	<i>Basanta Biswal</i> Chairman, Barabati Municipality	
13.	<i>Anurati Nayak</i> Vice Chairman Paradeep Municipality	
14.	<i>Dr. Basanta Kumar Behera</i> District Public Health Officer, Bhubaneswar	 07/01/2020
15.	<i>D. M. K. Mohanty</i> Ex. Paradeep Municipality	 07/01/2020

Sl No.

Name & Designation

Signature

- | | | | |
|----|---------------------|---|---|
| 16 | Saroj Kanta Mohanty | PD, DRDA |  |
| 17 | Saroj Kumar Nayak | JEPK
In-charge Survey
T&U, PR&DW&M | 7/1/2020
 |
| 18 | Devyodhan Patel | Municipal Engineer
Paradeep Municipality | 
7.1.20 |