



EXTRAORDINARY

प्राधिकार से प्रकाशित

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अण्डमान तथा निकोबार प्रशासन

**ANDAMAN AND NICOBAR ADMINISTRATION**

प्रदूषण नियंत्रण समिति

**POLLUTION CONTROL COMMITTEE**

**DEPARTMENT OF SCIENCE AND TECHNOLOGY**

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### **NOTIFICATION**

Port Blair, dated the 22<sup>nd</sup> September, 2017.

No. 226/2017/F. No 6-3/PCC/Executive Meeting/2014.— In exercise of the powers conferred under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986), read with Notification No.S.O.667(E) dated 10<sup>th</sup> September, 1992, the Lt. Governor, A & N Islands is pleased to lay down the following Guidelines to regulate the sewage and effluents discharged by industries and comply with the effluent standards provided under Environment (Protection) Rules, 1986 made under Act aforesaid by putting in place an appropriate effluent treatment system by various categories of industries in Andaman and Nicobar Islands as per the Revised Classification of Industrial Sector under Red, Orange, Green and White, adopted in 22<sup>nd</sup> meeting of ANPCC held on 18.04.2017, as under :

**A. GUIDELINES FOR TREATMENT OF EFFLUENT AND SEWAGE**

- (i) HOTELS/RESORTS/LODGES AND RESTAURANTS'
- (ii) AUTOMOBILE SERVICE CENTRE

**B. GUIDELINES FOR SOLID WASTE MANAGEMENT AND GOOD ENVIRONMENT MANAGEMENT PRACTICES**

- (i) HOTELS/RESORTS/LODGES AND RESTAURANTS
- (ii) AUTOMOBILE SERVICE CENTRE

(A) (i) All the hotels/resorts and restaurants are required to install effluent treatment systems as per the following categorization and comply with the Effluent standards as prescribed under EPA, 1986 and its subsequent amendments:

SI. No.	Type of Hotel/Resort/ Lodge/Restaurant	Category	Effluent Treatment System
1	Having overall waste water generation @100KLD and more	Red	<p>They are required to install Sewage Treatment Plant (STP) including proper Oil and Grease Trap for the effluents arising from kitchen and shall comply with the following standards:</p> <p>(i) pH -- 6.5 - 9.0, (ii) BOD- 10mg/l, (iii) COD 50mg/l, (iv)TSS- 10 mg/l, (v) NH<sub>4</sub>-N-5mg/l, (vi) N-Total- 10mg/l, (vii) Fecal Coliform &lt;230 MPN/100ml, (viii)-PO<sub>4</sub>-P-2mg/l</p>

			<p style="text-align: center;"><b>AND</b></p> <p>The units with laundry facility are required to install Effluent Treatment Plant (ETP) to meet the standards laid down at Serial No. 55 of Schedule 1 of the Environment (Protection) Rules, 1986 made under the Environment (Protection) Act, 1986.</p> <p>They shall -</p> <ul style="list-style-type: none"> <li>(i) Install Effluent Treatment Plant / Sewage Treatment Plant to treat the entire waste water generated.</li> <li>(ii) Treat the waste water upto tertiary level for reuse of the treated effluent at least for Cooling Tower/ AC Plant and in Horticulture and in flushing of Toilets wherever possible/ applicable as prescribed in the Environmental Clearance/ Consent Conditions. The treated effluent shall be reused upto the maximum extent possible to achieve the objective of zero discharge. They shall submit water mass balance chart regarding consumption of water, waste water generation and use of treated effluent (in the given format annexed).</li> <li>(iii) Provide Rain Water Harvesting System.</li> <li>(iv) Install Solar Water Heating System.</li> <li>(v) Provide Organic Waste Convertor for composting of organic waste or waste to Bio – fuel Plant.</li> <li>(vi) Convert/Switch Over from Oil Fired Boiler to Natural Gas Based Boiler wherever Gas Supply is available.</li> <li>(vii) Develop Green Belt to create Buffer Zone from main roads.</li> </ul> <p>They are also required to take appropriate environment friendly measures, waste reduction measures, water conservation measures, energy conservation measures. The hotels/resorts which have been given Environmental Clearance shall have to comply with the conditions of Environmental Clearance.</p> <p>They shall also submit Quarterly Report for the Effluent Treatment Plant and Sewage Treatment Plant from any of the Empanelled Consultants of MoEF&amp;CC/NABL Accredited Laboratories.</p>
2	Having more than 20 rooms and waste water generation less than 100KLD and having a coal/oil fired boiler	Orange	<p>They are required to install Sewage Treatment Plant (STP) including proper Oil and Grease Trap for the effluent arising from kitchen for atleast 4 hours duration and shall comply with the following standards:</p> <ul style="list-style-type: none"> <li>(i) pH -- 6.5 - 9.0, (ii) BOD- 10mg/l, (iii) COD 50mg/l, (iv)TSS- 10 mg/l, (v) NH<sub>4</sub>-N-5mg/l, (vi) N-Total- 10mg/l, (vii) Fecal Coliform &lt;230 MPN/100ml, (viii)-PO<sub>4</sub>-P-2mg/l</li> </ul> <p>They shall –</p> <ul style="list-style-type: none"> <li>(i) Install Sewage Treatment Plant to treat the entire waste water generated from the hotel.</li> </ul>

3	Hotel(< 3 star) or hotels having >20 rooms and less than 100 rooms, with or without coal/oil fired boiler		<p>(ii) Treat the waste water upto tertiary level for reuse of the treated effluent atleast for Cooling Tower/ AC Plant and in Horticulture and in flushing of Toilets wherever possible / applicable as prescribed in the Environmental Clearance / Consent Conditions . The treated effluent shall be reused upto the maximum extent possible to achieve the objective of zero discharge. The hotels/resorts shall submit water mass balance chart regarding consumption of water, waste water generation and use of treated effluent.</p> <p>(iii) Provide Rain Water Harvesting System.</p> <p>(iv) Install Solar Water Heating System.</p> <p>(v) Provide Organic Waste Convertor for composting of organic waste or waste to Bio-Fuel Plant.</p> <p>(vi) Convert/switch over from Oil Fired Boiler to Natural Gas Based Boiler wherever Gas supply is available.</p> <p>(vii) Develop Green Belt to create Buffer Zone from main roads.</p> <p>They are required to take appropriate environment friendly measures, waste reduction measures, water conservation measures, energy conservation measures. The hotels/resorts which have been given Environmental Clearance shall also comply with the conditions of Environmental Clearance.</p> <p>They shall also submit Quarterly Report for the Effluent Treatment Plant and Sewage Treatment Plant from any of the Empanelled Consultants of MoEF&amp;CC/NABL accredited Laboratories.</p>
4	The units having more than 20 rooms and waste water generation less than 10 KLD and having no boiler & no hazardous waste generation	Green	<p>Exempted from installation of STP and however, they are required to have septic tank with soak-pit for sewage treatment and shall provide proper oil and grease trap-cum-settling tank for holding the effluent arising from the kitchen and shall comply with standards laid down at Serial No. 39 of Schedule 1 to the Environment (Protection) Rules, 1986 made under the Environment (Protection) Act, 1986.</p>
5	The units having upto 20 rooms and without boilers	-	
6	Restaurants / Eating Houses / Dhabas and other such establishments (Having Seating Capacity less than 36)/Sweet Shops/ Halwais and Other such Establishments (with Annual Average Production of less than One Tonne/Day)/ Banquet Halls/ Party Lawns (with Floor Area less than 100 m <sup>2</sup> )	-	<p>Proper Oil and Grease Trap-cum-Settling Tank for holding the effluent arising from kitchen and washing activities for atleast 4 hours duration.</p>

7	Restaurants / Eating Houses / Dhabas and other such establishments (with minimum Seating Capacity of 36) / Sweet Shops/ Halwais and Other such Establishments (with Annual Average Production of One Tonne/ Day or more)/ Banquet Halls/ Marriage Hall/Party Lawns (with minimum Floor Area of 100 m <sup>2</sup> )		<p>They are required to install Sewage Treatment Plant (STP) including proper Oil and Grease Trap for the effluent arising from kitchen for atleast 4 hours duration and shall comply with the following standards as prescribed under Serial No. 39 of Schedule 1 to the Environment (Protection) Rules, 1986 made under the Environment (Protection) Act, 1986 :</p> <p>(i) pH -- 6.5 - 9.0, (ii) BOD- 10mg/l, (iii) COD 50mg/l, (iv)TSS- 10 mg/l, (v) NH<sub>4</sub>-N-5mg/l, (vi) N-Total-10mg/l, (vii) Fecal Coliform &lt;230 MPN/100ml, (viii)-PO<sub>4</sub>-P-2mg/l</p> <p>They shall submit Quarterly Report for the Effluent Treatment Plant and Sewage Treatment Plant from any of the Empanelled Consultants of MoEF&amp;CC/NABL accredited Laboratories.</p>
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(A) (ii) All the Automobile Service Stations are required to install effluent treatment systems as per the following categorization and comply with the Effluent standards as prescribed under Environment (Protection) Act, 1986 and its subsequent amendments:

Sl. No.	Type of Servicing Station	Category	Effluent Treatment System
1	Automobile servicing, repairing and painting (excluding only fuel dispensing) with waste water generation is more than 100 KLD	Red	The unit is required to install Effluent Treatment Plant (ETP) and meet the standards laid down at Serial No. 105 of Schedule 1 to the Environment (Protection) Rules, 1986 made under the Environment (Protection) Act, 1986.
2	Authorized service centers having discharge more than 100 KLD		They are required to submit Quarterly Report for the Effluent Treatment Plant assessed by any of the Empanelled Consultants of MoEF & CC / NABL accredited Laboratories.
3	Automobile servicing, repairing and painting (excluding only fuel dispensing) with waste water generation is less than 100 KLD	Orange	
4	Authorized service centers having discharge less than 100 KLD		
5	2 wheelers and 3 wheelers automobile service station excluding authorized service centers of manufacture and servicing upto 5 vehicles per day	-	Shall be exempted from installation of ETP but is required to install Oil and Grease Trap-cum-Settling Tank for holding the effluent for atleast 4 hours duration and shall comply with the standards laid down at Serial No. 105 (i) of Schedule 1 to the Environment (Protection) Rules, 1986 made under the Environment (Protection) Act, 1986.

(B) (i) The Guidelines for Solid Waste Management and Good Environment Management practice in the Hotels/ Resorts/ Restaurants/ Eating Houses / Dhabas / Sweet Shops / Halwais / Banquet Halls / Marriage Hall/ Party Lawns.

All Hotels/ Resorts/ Restaurants/ Eating Houses / Dhabas / Sweet Shops/ Halwais / Banquet Halls/ Marriage Halls/ Party Lawns shall make necessary arrangement for segregation of waste at source as prescribed under Solid Waste Management Rules, 2016 and related rules notified by the local bodies.

1. Facilitate collection of segregated waste in separate bins, handover recyclable material to either the authorised waste pickers or the authorised recyclers of Port Blair Municipal Council or by the Local Body.
2. The bio-degradable waste should be processed, treated and disposed of through composting or bio-methanation within the premises as far as possible.
3. The residual waste shall be given to the waste collectors or agency as per the rules notified by the local body.
4. All the plastic waste should be disposed as per the Plastic Waste Management Rules, 2016 and the rules made and notified by the Local Body.
5. The hazardous waste generated, if any, should be disposed of as per the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.
6. As and when renovation of work are undertaken, the construction and demolition waste should be disposed of as per the provision of Construction and Demolition Waste Management Rules, 2016.

## II. WATER CONSERVATION

1. Entire waste water generated from the kitchen, laundry and domestic sewage should be treated in a STP/ETP and shall be reused.
2. Utilization of treated water can reduce substantial load of supply of water requirement on the water supply system and ground water as well as waste water load on nearby coastal area and any other water source.
3. Installation of rain water harvesting for roof top and the reuse of the same.
4. Conventional water heating systems be replaced in a phase manner and solar water heating system be installed.
5. Water saving devices and mechanism are to be installed and adopted to reduce water consumption.

## III. ENERGY CONSERVATION MEASURES

1. Energy saving and energy efficient appliances/devices should be installed e.g. occupancy and daylight sensors, in-room card-slots for turning on electricity etc.
2. Use weather stripping to close air gaps around doors and windows.
3. Installation of solar water heating/ parabolic concentrator for cooking / solar lighting/ solar AC.
4. Preference of use of inverters instead of Diesel Generation Sets.

## IV. GOOD ENVIRONMENT MANAGEMENT PRACTICE

1. The units shall adopt Good House Keeping practices, shall properly channelize the fugitive emissions including emissions from cooking & kitchen operations by providing proper ducting / hood arrangement and proper exhaust system and emissions shall be discharged atleast 2 meter above the roof of the building.
2. Development of green belt to create buffer zone from main roads.
3. Preference of gas based boiler over oil fired/coal fired boiler.
4. Purchase refillable soap, hair rinse and hand lotion dispensers for guest rooms.
5. Purchase towels and sheets made from 100% natural cotton, containing no chemical, dyes or bleaches.
6. Purchase recycling bins for guest rooms or floors.
7. Wait to replace half filled toilet paper, rolls and tissue boxes until they are almost completely used.
8. Provide guest rooms with unwrapped, reusable drinking glasses and coffee cups.

9. Replace single-use items with reusable items such as napkins, tablecloths and hand towels.
10. Fill smaller reusable containers with cleaning products from larger containers.
11. Buy supplies from vendors who accept returned containers used for shipping products.
12. To reduce food waste, offer guests the option of ordering half portions.

(B) (ii) Guidelines For Solid Waste Management and Good Environment Management Practice in the Automobile Servicing Centres.

### I. SOLID WASTE MANAGEMENT

1. Oil filters made up of metals, should be stored in a separate place and sold to recycler.
2. All the discarded/unserviceable parts should be sent for recycling or hand over to scrap dealer.
3. Waste tyres and tubes may either be given for re-treading or for recycling.
4. Plastic pouches, synthetic covers, plastic containers etc. should be handover to scrap dealers.
5. Waste oil and grease including sludge from the paint shop should be kept separately and disposed of as per the provisions of the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.

### II. WATER CONSERVATION

1. Entire waste water generated should be treated in a ETP and shall be reused.
2. Utilization of treated water can reduce substantial load of supply of water requirement on the water supply system and ground water as well as waste water load on nearby coastal area and any other water source.
3. Installation of rain water harvesting for roof top and the reuse of the same.

### III. ENERGY CONSERVATION MEASURES

1. Turn off all unnecessary lighting, the service centre should provide provisions for natural light in the work place.
2. Switch to LED lights in place of bulbs.
3. Preference of use of inverters instead of Diesel Generation Sets.

### IV. GOOD ENVIRONMENT MANAGEMENT PRACTICE

1. The units shall adopt Good House Keeping practices for management of all types of waste generated in the service station.
2. Development of green belt to create Buffer Zone from main roads.
3. Use separate bins for keeping hazardous and non-hazardous waste.
4. Fugitive emission from paint shops shall be channelized through a duct connecting to a stack having height of 12 metres or 2 metres above roof top of shed/building which is more.
5. Paint booth water trap will always have water level to ensure absorption of aerosols.
6. Storm water shall not be allowed to mix with effluent scrubber water and /or floor washings.

It will be the obligatory on the part of all Industrial Units to comply with the provisions made under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986 and Rules made thereunder from time to time for prevention and control of pollution in these islands.

These Guidelines shall come into effect from the date of its publication in the Andaman and Nicobar Gazette.

By order and in the name of the Lieutenant Governor,  
Andaman and Nicobar Islands.

Sd./-  
(D.M. Shukla)  
Secretary (Science & Technology)