

PARYAAVARAN TIMES



March 2022

Paryaavaran Times is a monthly newsletter edited by **Paryaavarneer Engineers & Consultants Pvt Ltd.**

The newsletter aims at providing the updates in the field of environment in the previous month including environmental legal updates, guidelines, standards and other updates.

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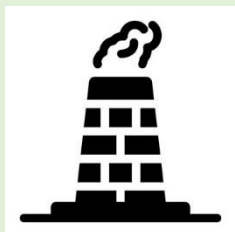


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Emission Standards for Brick Kilns

Applicability:

Applicable for existing and new brick kilns



[Link to notification](#)

Intent / Background

Brick kilns have been identified as a major source of pollution in many non-attainment cities and existing standards do not fulfill MoEF&CC's stipulated air quality requirements. In order to lower air pollution MoEF&CC came up with stringent standards for brick kilns.

Summary:

- Particulate matter in stack emission should be $\leq 250\text{mg}/\text{Nm}^3$ across the country irrespective of industrial scale.
- **Minimum stack height** for a vertical shaft brick kilns of capacity 30,000 bricks /day is 14 m (at least 7.5m from loading platform) and 16 m (at least 8.5m from loading platform) if the capacity exceeds.
- For Brick Kilns other than Vertical Shaft, the **minimum stack height** is 24m and 27m for brick kilns of capacity 30,000bricks/day and >30,000bricks/day respectively.
- All the brick kilns should follow either **zig-zag technology or vertical shaft or use of PNG as fuel in brick making.**
- All brick kilns shall use approved fuel such as **PNG, coal, fire wood and / or agricultural residues.** Use of pet coke, tyres, plastic, hazardous waste shall not be allowed in brick kilns.
- Brick kilns shall construct permanent facility for port hole and platform according to the norms laid down by the Central Pollution Control Board (CPCB).
- **Particulate Matter (PM) results shall be normalized** at 4% CO₂
- Brick kilns should be established at a **minimum distance of one km** from an existing brick kiln to avoid clustering of kilns in an area and at a minimum distance of 0.8 km from habitation and fruit orchards
- The brick kiln owners shall ensure that the roads utilized for transporting raw material or bricks are paved.

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Applicability:

Producer, Importer, Brand Owner, Plastic Waste Processors

Plastic Waste Management (Amendment) Rules 2022



[Link to notification](#)

Intent / Background

MoEF&CC has issued a gazette notification dated 16-02-2022 on "Plastic Waste Management (Amendment) Rules 2022 in order to strengthen the collection, reuse and recycling of plastic waste, for the effective implementation of EPR and to clearly define the roles and responsibilities of Producer,

Action needed:

- After these guidelines have come into effect, with respect to, entities starting their business in a particular year and placing their products in market in that year, they shall have Extended Producer Responsibility target obligations from the next year.
- Classification of Plastics done based on its physical properties.
- The formula has drafted category wise in order to calculate the eligible quantity of waste in MT, to be considered under EPR.
- Target set out to carryout minimum level of recycling of plastic packaging waste and Mandatory use of recycled plastic in plastic packaging from the financial year 2024-25 and 2025-26 respectively.
- The Producers, Importers & Brand-Owners who fails to fulfil its obligation of use of recycled content (in quantitative terms) can consider/achieve it through purchase of certificate of equivalent quantity from such Producers, Importers & Brand Owners who have used recycled content in excess of their obligation.
- Environmental Compensation shall be levied based upon polluter pays principle, with respect to non fulfilment of EPR targets by Producers, Importers & Brand Owners.
- Producers, Importers & Brand-Owners shall provide Action Plan containing information on the EPR Target, category-wise, where applicable, through the online centralized portal developed by CPCB along with application for registration or renewal of registration under Plastic Waste Management Rules, 2016.

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New emission standards for DG sets

Applicability:

All new engines for power generation application and products manufactured, assembled or, imported to India, operating at constant or variable speed



[Link to notification](#)

Intent / Background

Currently there are three emission standards for the generator sets based on different fuel viz. i) Gasoline, ii) Diesel; iii) Dedicated CNG, Dedicated LPG, dual fuels & Bi-fuels. Considering the availability of clean fuel(BS-VI) and engine technologies, as part of its efforts to combat air pollution the MoEF&CC established single standard covering all fuels and upcoming fuels viz producer gas, hydrogen gas etc.

Action needed:

- The rule shall come into force from 01.07.2023 in the Official Gazette. Under a draft notification issued, emission standards for all generator set engines up to 800 kW, regardless of fuel type, would be covered by one regulation.

Emission limits for Genset engines up to 800 kW Gross Mechanical Powered by 1) All CI engines and 2) PI engines > 800 cc engine displacement.

Power Category, kW	NOx	HC*	NOx +HC*	CO	PM		Smoke (light absorption coefficient)	
	CI/PI	CI/PI	CI/PI	CI/PI	CI	PI	CI	PI
	g/kWh						m ⁻¹	
P ≤ 8	-	-	7.5	3.5	0.30	-	0.7	-
8 < P ≤ 19	-	-	4.7	3.5	0.30	-	0.7	-
19 < P ≤ 56	-	-	4.7	3.5	0.03	-	0.7	-
56 < P ≤ 560	0.40	0.19	-	3.5	0.02	-	0.7	-
560 < P ≤ 800	0.67	0.19	-	3.5	0.03	-	0.7	-

Emission limits for portable Genset up to 19 kW powered by PI engines (up to 800 cc engine displacement)

Category	CO	NOx +HC **
Engine Displacement (cc)	g/kWh	
Up to 99	< 250	< 10
> 99 and up to 225	< 250	< 08
> 225 and upto 800	< 250	< 06



Applicability:

Projects involving construction/Expansion/renovation/repair of buildings having built up area ≥ 5000 sq.mts.

Building Construction Environment Management Regulations, 2022.



[Link to notification](#)

Intent / Background

For the purposes of effective environment protection and management, MoEF&CC drafted Standardized, Outcome based & quantifiable environmental regulations which bring in transparency in approach & encourage ease of doing business.

Action needed:

- The stated regulations set orders to follow on handling waste water, monitoring of STP, Solid waste management and Management of Dust/Air and Noise Pollution during Construction phase. It further specifies environmental beneficiary activities to be taken up such as adoption of Water Conservation methods by employing Rain Water Harvesting/Ground Water Recharge, Topography & Natural Drainage, and a minimum green Cover to be followed.
- The rule says atleast one tree for every 80sq mtr of land needs to be planted within construction site for both residential and commercial buildings, ensuring 10% of green cover for every plot.
- For the projects with build up area above 20,000sq.mts, Environment Management Cell with defined functions and responsibility shall be put in place by the project authority.
- A 'Self declaration' undertaking to comply with the environmental regulations' conditions along with the project details, in prescribed format and the Environment Management Plan shall be submitted online by the project proponent on the designated website of the Central Government (www.parivesh.nic.in). Thereafter, an acknowledgement shall be issued to the project proponent confirming receipt of the declaration made.
- The project proponent shall submit Performance Data and Certificate of Compliance of the project for the environmental regulations and the parameters applicable, every year during the period of construction and every two years during operational phase (5 years in case the building has been certified as Green building in terms of GRIHA guidelines of MNRE) to the Government.

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Prohibition of production, stocking, Distribution, sale and use of single used plastics

Applicability:

Producers, Stockists, Retailers, Shopkeepers, e-commerce companies, street vendors, Commercial establishments and general public



[Link to notification](#)

Intent / Background

As per Rule4(2) of PWM rules, 2016," The manufacture, import, stocking, distribution, sale and use of identified single use plastic(SUP) items, including Polystyrene and expanded polystyrene, commodities shall be prohibited with effect from the 1st July 2022

Action needed:

- Under the Notification issued by MOEF&CC dated 12th August 2021 on phasing out of single use plastic, CPCB issued notice to inform all applicable group to cease out the manufacture, import, stocking, distribution, sale and use of below identified single use plastic(SUP) items.
- a) Ear buds with plastic sticks, plastic sticks for balloons, plastic flags, candy sticks, ice cream sticks, polystyrene for decoration.
- b) Plates, cups, glasses, cutlery such as forks, spoons, knives, straw, trays, wrapping or packing films around sweet boxes, invitation cards and cigarette packets, plastic or PVC banners less than 100 micron, stirrers;

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Applicability:

All industrialist seeking NOC for ground water extraction

SOP for Impact assessment report and comprehensive hydrogeological report



Link to notification

Intent / Background

Earlier the outline of hydro-geological Report for obtaining NOC for industries has been stated in guidelines to regulate and control ground water extraction in India. Now CGWA published SOP for impact assessment report and comprehensive hydrogeological report.

Action needed:

Despite the clear instructions mentioned in the guidelines as well as suggestions offered during the meetings of Expert Appraisal Committee, the quality of the hydrological reports is not up to the acceptable standards. To tackle this problem, CGWA published SOP stating the list of aspects to be covered in the report. It says the IAR must be prepared by an Accredited Consultant/Institution (AC) only. should include the following,

- Changes in water table elevation (including seasonal fluctuations)
- Changes in groundwater flow direction
- Reduction to infiltration/recharge/discharge rates and volumes on varying time scales (i.e., daily to annual depending upon proximal environmental features)
- Change in baseflow (quantity and quality)
- Impact on water quality
- Impact on nearby surface water bodies (wetlands, water courses or other significant features)

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Applicability:

Producers of hydrogen with the renewable energy sources

Release of new “Green hydrogen Policy”



[Link to notification](#)

Intent / Background

In line with India’s commitment through the Intended Nationally Determined Contributions (INDCs), India is aiming to transit from the fossil fuel based hydrogen generation to the hydrogen produced through renewable energy.

Action needed:

- Green Hydrogen or green ammonia is the one which is produced through the renewable energy sources instead of conventional fossil fuel based energies.
- Waiver of inter-state transmission charges shall be granted for a period of 25 years for the green hydrogen manufacturers for the projects commissioned before 25th June 2025
- Green Hydrogen and ammonia plants will be given open access sourcing for sourcing renewable energy within 15 days from the application
- Banking shall be permitted for a period of 30 days for renewable energy used for making Green Hydrogen
- Land in renewable energy parks can be allotted for the manufacture of Green Hydrogen/ Green Ammonia
- The Government of India proposes to set up bunkers near ports for storage
- Renewable energy consumed for the production of Green Hydrogen/ Green Ammonia shall count towards RPO compliance of the consuming entity.
- Ministry of New and Renewable energy (MNRE) will establish a single portal for all statutory clearances and permissions
- In order to achieve competitive prices, MNRE may aggregate demand from different sectors and have a consolidated bids conducted for procurement.

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