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Gujarat Regulations for the Reuse of Water, 2012

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Regulations for the reuse of water

1. Definitions

- 1.1. 'authorized officer' means any person appointed by the competent authority for the purpose of these regulations.
- 1.2. 'discharge' or "discharge of wastes' means the removal of wastes from premises into the grey water system or by means of the system;
- 1.3. 'domestic waste water' means either waste water that is typically discharged from premises that are used solely for residential activities or waste water of the same character discharged from other premises.
- 1.4. 'grey water' means involving non-potable water from sinks, tubs, showers and washing.
- 1.5. 'laboratory' means the agency permitted to test the samples of industrial wastes or waste.
- 1.6. 'occupier' for the purpose of these regulations means either as an owner, on rent or on lease in any other way;
- 1.7. 'Person' includes a corporation sole and a also a body of persons whether corporate or incorporate or partnership firm;
- 1.8. 'pre-treatment' means any processing of industrial waste or waste designed to reduce any characteristic in waste, before discharge to the waste water system.
- 1.9. 'premises' means either
- A property which is held under a separate card of title or for which a separate title card may be issued and in respect to which a building plans have been or may be issued, or
 - a building which is in possession as an individual unit by a cross-lease, unit title or company lease and for which a certificate of title is available. Or
 - Land held in public ownership, for a particular purpose, or
 - Separately assessed to local authority taxes, individual unit within building.
- 1.10. 'Non-potable water means the use of water for non domestic consumption like ca washing, toilet flushing, gardening, construction purposes, landscaping, irrigation uses is for bidden by virtue of powers vested with government.
- 1.11. 'prohibited industrial waste' means a industrial waste having physical and chemical characteristics in excess as decided by GPCB.
- 1.12. 'sewerage system' means all types of sewer, appurtenances, pumping stations, storage tanks, waste water treatment facility plants, marine outfalls and other related structures owned by the urban local body and used for the reception, treatment and disposal of waste water and also termed as "waste water system"
- 1.13. 'waste' means any water with matter in solution or suspension, domestic wastewater, or liquid waste and includes sewage for the purpose of these regulations.
- 1.14. Local authority means the municipal corporation/ nagarpalika/ nagarpanchayat/ grampanchayat or the urban/area development authority as the case may be.

2. Applicability of the regulations:

- 2.1. Any builder /developer/ individual applying for approval for construction of a new set of buildings of category mentioned hereunder shall make provision for reuse of recycled water.
- Hospitals and Nursing homes
 - Hotels, Lodges and guest houses
 - Hostels of schools, Colleges, Training centres
 - Barracks of armed forces, paramilitary forces and police
 - Individual residential buildings having more than 150 sq meters plinth area

- f. Functional buildings of Railway stations and Airports like waiting rooms, retiring rooms, rest rooms, inspection bungalows and catering units
 - g. Community centres, Banquet halls, Barat Ghars, Kalyan Mandaps and buildings of similar use
 - h. Commercial establishments having totalled built up area of 2000 sq meters or more.
 - i. All hazardous / water polluting / Chemical industries
- 2.2. In case of buildings not falling into above categories, this treated grey water may be used for ground water recharge.
- 2.3. Exemptions could be accorded under following circumstances, as decided by the authority;
- a. In case the existing premises cannot permit the provision of additional overhead tank for the purpose of the use of treated water.
 - b. If, in the existing structure, there is no space for installation of treatment facility and collection chamber.
 - a. In exceptional cases due to dearth of land or water logged areas exempt (with the approval from competent authority) from providing facility for recycling the grey water.
3. **Recycle System may be adopted as per the following provisions:**
- The developer/ owner/ applicant shall along with his application submit the designs, plans, calculations and the references used for the calculations etc to provide the system to recycle the grey water. Such system shall include the provisions to facilitate the following:
- 3.1. Treated grey water is pumped to a separate tank on the roof from where grey water will be supplied to toilets, garden taps, car washing taps etc.
 - 3.2. Only water from toilets should be let in to sewerage system.
 - 3.3. Where ever arrangements from reuse of recycled water is provided additional arrangements for carrying the excess grey water to the sewerage system may also be provided.
 - 3.4. In a nature or manner or in a way that shall not constitute a nuisance of foul gases or cause a public hazard or otherwise in compliance of these regulations.
 - 3.5. The recycled water shall be used for non potable, no contact purposes within premises and shall not be connected to sewage/waste water system of local authority. However the waste generated by the recycle plant can be connected to local authority sewer network if it of the accepted quality.
 - 3.6. **Separation of grey water:**
 - 3.6.1. The wastes from toilets in the premises will be separated from grey water that is of bath room and kitchen wastes by means of separate down take discharge system.
 - 3.6.2. The grey water shall be recycled by providing recycling plant and shall be reused for non-potable purposes after storing the same in distinctly separate tank by means of purple colored down take pipes.
 - 3.6.3. The water quality shall conform to standards of non potable water. The recycled water shall be tested once in six months and results shall be made available to competent authority whenever demanded.
 - 3.6.4. The make-up connection to the system will be done at the collection tank of the treated water, through a free fall if from Municipal water connection, but preferable from a local source like bore well.
 - 3.7. **Separate plumbing for grey water:**
 - 3.7.1. Every developer/builder shall provide the newly constructed building with the provision of down take plumbing for grey water, recycling water plant, storage and reuse fitting before selling the building.
 - 3.7.2. Every existing building/residential structure shall provide with the provision of recycled water plant and relevant adequate separate plumbing for grey water and reuse fitting.
 - 3.8. Reuse of water strictly for not potable non-contact use.

- 3.8.1. The reuse of water will be strictly for not potable use by means of providing a distinctly separate reuse system coloured in purple. The non-contact uses shall be restricted to toilet flushing, drip irrigation of trees/shrubs, sub surface irrigation of lawns and recharge of ground water.
- 3.8.2. There shall not be cross-connection of fitting of the potable and not potable water at any point. The recycled water system shall be maintained at a lower operating pressure than that of the potable water system. Precautions should be taken at the make-up connection to prevent cross contamination.

4. Quality of water and treatment

- 4.1. The water generated after treatment should be safe for its use for flushing toilets, car washing, gardening etc.
- 4.2. The company or the agency engaged for installation of system for recycling of waste water shall preferably confirm ISO:14000.
- 4.3. Provision may be made for checking the quality of recycled water with Water testing laboratory with Municipal Corporation or Water Supply and sewerage Board.
- 4.4. The testing of wastes and the submission of the results shall be done in a manner in accordance with the terms and conditions prescribed by the Municipal Commissioner or the Gujarat pollution control board / the competent authority

5. Enforcement of Regulations:

- 5.1. In case of existing properties, the competent authority or his authorized officer will issue a notice to the occupier for making arrangements of Reuse of Grey Water within specified time.
- 5.2. In case of proposed/intending /under redevelopment properties, the occupier/ developer/ builder will submit an application to the competent authority with details of proposed 'grey water reuse system ' along with the application for demand of water permission to connect the Grey Water/sewage to municipal sewage system.
- 5.3. Conditional Waste Discharge Permission waste discharges of the conditional type plant will be allowed on the issue of a conditional permission provided the conditional type plant has recycling and reuse of water facility and not exceeding limits given in as per GPCB norms.
6. General provisions:
 - 6.1. Mandatory disclosure: regarding changes: An occupier of premises shall inform the competent authority of any change in the quality, nature or quality of the wastes discharged from his plant or premises the manner of their discharge of water immediately if the change is likely to cause discharge of water in variation or violation of license under these regulations.
 - 6.2. Corrective action. In the event it is found any person violating the provisions of these regulations, the competent authority or Gujarat Pollution Control Board shall issue notice and after inquiry and personal hearing take necessary corrective action.
 - 6.3. Rebate: The competent authority may satisfy itself on the performance of recycling of the water and thereafter can give rebate on the taxes / fees leviable for the development. The competent authority may give such rebate on the capital or recurring recoveries which the developer is liable to pay.
 - 6.4. Dispute Resolution All the disputes arising in the enforcement of this by these rules shall be referred to Municipal Commissioner who in turn will resolve the disputes in advise with his authorized technical officer or any experts and intimate to the occupier / builder / developer. The decision of the Municipal Commissioner will be final and binding on the occupier.
 - 6.5. List of Authorized Laboratories shall be as authorised by Gujarat State Pollution Control board or the Municipal corporation
 - 6.6. Characteristics of effluent water quality from the Grey Water Recycling plants shall be as approved by the Gujarat pollution control board.