

East Coast Railway

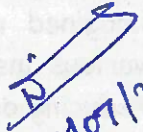
PCE Circular No.3/2020, Dated 22.07.2020

Sub: Provision of "Aerators" to water taps for saving water.

Availability of water is very important for survival of human being including other species. Sustainable development can also be not imagined without uninterrupted water supply. As per forecast by various institutions & environmentalists, the availability of water is reducing day by day. Therefore, wastage of water has to be minimized with all means.

1. In the wake of Covid-19, the usage of water for cleaning and maintaining hygiene has increased manifold. Washing hands frequently with soap and water for at least 20 seconds is an important preventive measure for Corona Virus, resulting into increased water demand. Keeping this aspect in view, a need of fixing an "Aerator" to wash basin taps has arisen. Aerator is a device that mixes air with water to give a soft and splash free flow that can reduce the water flow to a great extent, thereby saving of water i.e. around 40 - 95% and at the same time, though flow is reduced, there is no compromise on wash experience.
2. Flow rate of normal water tap (1.25 cm dia.) will normally be up to 15 liters per minute (LPM). When a tap is opened for hand wash, more than 95% of the water bounces off the user's hand and gets wasted. Aerators are designed at defined flow rate of 1.2 to 8 LPM, hence, water is saved when aerators are used.
3. Types of 'Aerator'
 - i) Based on threading pattern: Two types i.e. Male aerator and Female aerator.
 - ii) "Aerator" are available of different varieties based on -
 - Flow pattern
 - Flow rate
 - Type of Material
 - Size
4. The aerators can be retrofit on existing taps having threads; compatible with tap heads. In other case, need of changing taps shall be decided based on condition cum economical aspect prevailing at site for fixing aerators.

5. The life of an aerator is determined by the quality of water, how often the faucet is used and other situational factors. If an aerator is properly & periodically maintained well, its life shall be longer. However, it is advised to use suitable Aerator of approved quality as per requirement at site which shall last for at least five years.
6. The fixing of Aerators to the wash basin taps at Offices, Stations, Work Shops, Hospitals, Running Rooms etc. (common places) shall be done in first phase and at other places in second phase.
7. In all new works being executed by open line, construction organization & other PSU's in East Coast Railway, the taps of wash basins, sinks, faucets in washrooms, gardens etc. shall invariably be fixed with suitable Aerators only.


22/07/2020

(Narottam Singh Uikey)
Principal Chief Engineer

No: W4/374/CE/Circular/3528

Date:22.07.2020

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