

Ministry of Railways

Water Vending Machine

As a recent initiative, to ensure availability of clean drinking water at low cost to the passengers, a policy on Water Vending Machines (WVMs) has been notified on 16/06/2015. These WVMs are to be set up by Indian Railway Catering and Tourism Corporation (IRCTC) at identified Railway stations.

Green Initiatives

- Railway has already provided Solar panel on roof top of coaches for train lighting system in 2 broad gauge coaches & 4 narrow gauge coaches plying on Pathankot-Joginder Nagar section in Kangra Valley and fourteen narrow gauge coaches plying on Kalka-Shimla section on trial basis.
- Setting up of Solar Plants : - Tender document & policy guidelines for 50 MW solar plants at rooftop of Railways buildings issued. 10 Railways have issued tenders accordingly.
- Setting up of wind plant : - Commissioned 25 MW wind mill power plant at Jaisalmer in October, 2015 which has already supplied 40 lakh units till now.
- 1000 MW solar power plants being set up over next 5 years; 10.5 MW already set up; in 2015-16, additional 6.5 MW will be set up ; PPP model finalized.
- Till Nov-2015, 7621 bio Toilets has been fitted in 2144 coaches. The cumulative fitment of Bio Toilets till date is 27800 Bio-Tanks in about 9200 coaches.
- An innovative Indian design of a Bio-Vac Toilets, a Hybrid of Vacuum Toilet and Bio-Toilet is working successfully in one coach of GHY Rajdhani train. It has opened a new possibility to control the problem of human waste falling from trains.
- Bio diesel: Use of bio diesel-B5 (i.e. 5% Bio-Diesel and 95% Diesel) was started on 5th June 2015 on World Environment Day. 11,000 KL of biodiesel has been ordered on 14 Zonal Railways.
- CNG DEMU: CNG DEMU power cars introduced on Northern Railway to make commuter trains environment and user friendly.
- Work of Water Recycling Plants (WRPs) at 10 coaching depots got sanctioned in Budget 2015-16. In addition, 32 stations have been identified for provision of WRP.
- To facilitate participation in Green India Mission (GIM), Railways has requested MoEFCC to issue guidelines to State Governments (beginning with Haryana & Punjab Govt.) for undertaking plantation on Railway land without affecting Railways' requirement of cutting/felling of trees for its operational requirement.

Cleanliness

- Criterion for qualification of OBHS trains has been revised to include all important mail & express trains (excluding purely overnight trains) under the scheme. With revised criterion more than 1000 trains can now be covered under the OBHS scheme. As against 34 last year, 74 trains has been covered in the current year for Onboard House-keeping.
- Advice sent to ZRs on 23.04.2015 for taking up Special Intensive Cleaning drive at stations and being monitored. 11 ZRs have so far taken action at 226 stations on this, covering important stations.
- 27 Charitable Institutions/Social Organizations were invited to take part in 'Swachh Rail, Swachh Bharat Abhiyan' through Shramdan campaign. 16 Organizations have already launched their action in this regard. One of the organizations viz. Sant Nirankari Charitable Foundation offered is undertaking this campaign at 45 major Stations of IR & KRCL.
- 2nd year of Swachh Rail Swachh Bharat Abhiyan was launched w.e.f. 25.09.15 by involving railways staff at all levels as well as Charitable Institutions / Social organisations. 16 such organisations participated with railways in these efforts. The first theme based drive viz. "Sardar Patel United Clean India drive" was observed w.e.f 11.10.15 to 31.10.15 with special focus on Cleanliness and Sanitation of Stations & Trains.
- As a part of 'SWACHCHH BHARAT ABHIYAAN', the cleanliness activities monitored through the CCTV cameras of 18 stations duly connecting them in a network and extending the video stream to Divisional and Zonal Headquarters in SC Rly.

MoU Signed for Railway Chair on Sustainable Mobility at TERI University

A Railway Chair on Sustainable Mobility is being set up at TERI University, New Delhi. An MOU in this regard was signed yesterday i.e. 23 November, 2015 in the presence of the Minister for Railways Shri Suresh Prabhakar Prabhu. The Chair would focus and promote research on issues of sustainable mobility, use of energy efficient technology and green energy initiatives by the Railways and would facilitate research into finding innovative solutions to these issues that are extremely important in today's environment. Signatories to the MoU are Shri Rajiv Seth, Vice Chancellor, TERI University, and Shri Manoj Pandey, ED, Training and Man Power, Planning, Ministry of Railways. Shri Pradeep Kumar, Member Staff, Railway Board was among those present on the occasion.

Save Energy in Indian Railways

Policy guidelines have already been issued on energy conservation measures on Indian Railways (IR) to save energy at various railway stations across the country. The initiatives taken by IR include use of LED light fittings, segregation of lighting circuits at

railway station platforms, provision of LED based station name boards, automation of pumps, use of 3 star labelled electrical products, replacement of High Pressure Mercury Vapour (HPMV) lamps with energy efficient lamps etc.

IR has installed about 1.5 Mega Watt Peak (MWp) solar based plants on railway stations across the country including 1 MWp at Katra Railway Station for meeting station power requirement including lighting. In addition, a Purchase Order for installing about 3 MWp solar power plants on roof top spaces of about 200 railway stations has been issued.

Presently at 523 Railway Stations rain water harvesting system has been installed. The State wise position is as under:

Name of States	No. of Stations Having Rain Water Harvesting System
Andhra Pradesh	43
Assam	4
Chhattisgarh	28
National Capital Territory of Delhi	9
Gujarat	1
Haryana	13
Himachal Pradesh	3
Jammu & Kashmir	3
Jharkhand	17
Karnataka	33
Madhya Pradesh	21
Maharashtra	43
Odisha	8
Punjab	42
Rajasthan	16

Tamil Nadu	66
Madhya Pradesh	21
Telangana	44
Uttar Pradesh	111
Uttarakhand	4
West Bengal	14
Total	523

This information was given by the Minister of State for Railways Shri Manoj Sinha in a written reply to a question in Lok Sabha today.

Intended Nationally Determined Contributions (INDCs)

Indian Railways have started their CoP-21 campaign regarding their role and initiatives for reducing carbon footprint by India. Being a big player in the transport industry and the most energy efficient form of mass transportation, Indian Railways will play an important role in fulfilling the country's commitment for reduction in emission of Green House Gases. Apart from increasing the share of rail mode in freight transport from 36% to 45% as committed in the Intended Nationally Determined Contributions (INDCs) submitted by India contributing to sizeable reduction in carbon footprint, Indian Railways are taking actions for improving energy efficiency, increasing share of renewables and more efficient Management of Water.

As a part of their campaign, Ministry of Railways conducted a seminar on 10th Nov. '15 wherein senior officials of Ministry of Railways and its PSUs participated. Apart from discussing the strategies for increasing the modal share of rail transport as envisaged in the INDCs, other 'Climate Change' topics like energy efficiency in industries, sustainable habitation including green buildings were also discussed in this seminar through the presentations made by experts in the field like Bureau of Energy Efficiency (BEE), Indian Green Building Congress (IGBC) of CII and TERI. During this meeting, salient feature of India's INDCs with specific reference to INDCs on rail transport were discussed. Many of these subjects can lead to new policy initiatives and actions in IR in the coming days.
