

## **Good work done in the year 2023-24**

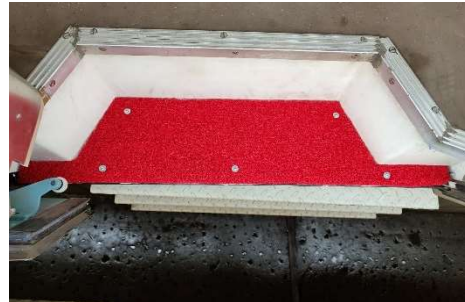
### **1. Provision of Durosoft on footsteps of coaches of Vande Bharat Express:**

Foot step provided at plug door of coaches of Vande Bharat trains no. 22223-24, 22225-26 and 22229-30. These footsteps were getting dirty on uses and impressions of passenger's foot falls were seen due to its white colour. OBHS staff even after continuous working were not able to maintain desired cleaning standard of these foot boards.

In order to improve the aesthetics, duro soft mat has been fitted on footsteps. Dirt get settle at bottom of these duro turf mat and can be cleaned easily.



**Before**



**After**

### **2. Development of Centralized data acquisition and control Centre for LTT coaching depot:**

For controlling database management of LHB coach maintenance as well as Passenger complaint analysis and redressal under one roof, a dedicated control centre has been set up at LTT coaching depot. Charts of watering station has also been displayed for better monitoring and quicker redressal of enroute watering complaints.

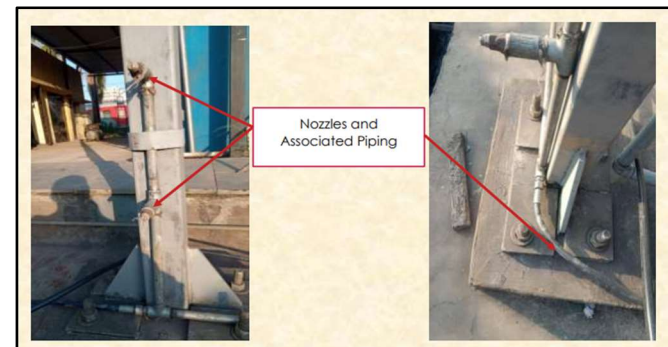


### 3. In-house developed LHB Bogie Washing Integrated with Automatic Coach Washing Plant (ACWP):

A system for automated bogie washing integrated with the coach washing plant has been developed at LTT Coaching Depot. With the modified bogie washing system, the manpower deployed for the purpose is saved, also the quality of cleaning is improved.

**Feature** – The system is Consist of 1. Fresh Water Storage Tank, 2. High Pressure Pump (For One System) - Pressure of 300-350 Bar, 3. High Pressure V Shape Nozzles (2 on each side of Coach), 4. Pipeline connecting pump and Nozzles. With Operation of switch, high pressure pump draws water from Storage water tank and supply pressurized *water* to the nozzles fitted at bogie height both side of the track. Bogies are washed once in a month while the rake is back to maintenance siding for trip maintenance.

The innovation also helped in saving of water by 50 % to 60% of water being integrated with ACWP in which 60% of water is recycled.



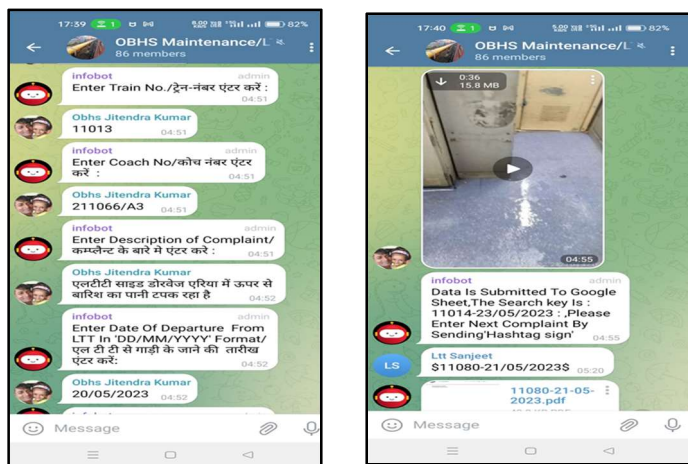
#### 4. In- house developed Telegram Bot for Entry of Enroute Complaint:

A telegram bot has been created for Onboard housekeeping staff for entry of en route maintenance complaints and watering complaints to easy maintenance of data and attention of them on arrival at LTT during maintenance.

**Features:** OBHS staff can post detail related to Complaints in the telegram group based on the Query Like train no, departure date, complaint detail, photos and video related to the complaint, etc. which is asked by the bot. The bot can store these query data in a Google sheet.

**Use of the Bot:** Ready-made data available with the maintenance engineer, if any issues are noticed enroute regarding maintenance of train. Whenever these data are required by an engineer during maintenance, the bot can generate a pdf that includes all the information which was posted by OBHS Staff.

**Advantage:** This bot's Queries are available in both Hindi and English language. As this process is handled by a telegram bot automatically, no extra railway staff is required to be deployed for data entry. Preventive maintenance against to be likely Rail Madad complaints Aspect.



Chat bot										
File Edit View Insert Format Data Tools Extensions Help										
K1249 Train No: 11013										
	A	B	C	D	E	F	G	H	I	J
1246	10:01:39 GMT+5	11056	212096/M1	Panda nahi hai 39 140 7900 side seat per	15/05/2023	18/05/2023	PHOOL CHAND	6393248638		
1247										
1248	06:29:10 GMT+5	11082	196108/S4	बॉलिंग नंबर 2 का कमीड टूट गया है	17/05/2023	20/05/2023	Jitendra Kumar	8840145530	11082-20/05/2023	https://api.telegram.org/bot5704965191:AAgI-Pb-aaZfUasVw_CrO6epf
1249	19:02:53 GMT+5	11082	15313/S2	टॉलेट नंबर 2 का कमीड टूट गया है	17/05/2023	20/05/2023	Jitendra Kumar	8840145530		
1250	10:41:11 GMT+5	11013	211066/A3	एलटीटी साइड डोरवेज एरिया में ऊपर से बारिश का पानी टपक रहा है	20/05/2023	23/05/2023	Jitendra Kumar	8840145530	11014-23/05/2023	https://api.telegram.org/bot5704965191:AAgI-Pb-aaZfUasVw_CrO6epf
1251	09:14:46 GMT+5	11014	222199/B5	ब्लू बोथ के बाहर टॉलेट में बार बार पानी बग रग में बिजली खरब से पानी खुली आ रहा है ब्लूथ कारने के बाद थोड़ी देर तक पानी आता है उसके बाद फिर पानी आता है	20/05/2023	24/05/2023	Jitendra Kumar	8840145530		
				Toilet number 3 ke flash mein						

## **5. Development of gadget for training of adjustment of slack in brake cylinder of LHB coaches:**

Basic training center Wadibunder has developed one gadget for training of adjustment of slack in brake cylinder of LHB coaches. The gadget is helpful to enhance skill of the trainees as they can do the practical on it.



## **6. Successful commissioning and ownership maintenance of newly introduced 3<sup>rd</sup> & 4<sup>th</sup> Vande Bharat Express in Mumbai Division:**

3<sup>rd</sup> & 4<sup>th</sup> Vande Bharat Express (With Primary maintenance – Mumbai Division), Train no. 22229 / 22230 Mumbai CSMT - Madgaon Jn. - Mumbai CSMT Vande Bharat Express and Train no. 20705/20706 Jalna - Mumbai CSMT Vande Bharat Express were flagged off by the Hon'ble Prime Minister Shri Narendra Modi Ji on 26/07/2023 and 30.12.2023 respectively. Mumbai Division has successfully commissioned the new rolling stock in service and took over primary maintenance of the train at NCC Wadibunder Coaching depot. Now Mumbai Division has four (4) Vande Bharat Express in Mumbai Division ownership.





## **7. Provision of Automatic Seat Cover on Western style lavatory seat in all LHB coaches and Vande Bharat coaches:**

Western style Commode Seats are provided in the lavatory of the coach, in most of the cases on board passenger do not lift up the seat cover before urinating, which makes it unhygienic for other people to use it.

In order to improve hygiene in coaches, all LHB coaches & Vande Bharat Coaches in Mumbai division have been provided with automatic seat cover. In automatic seat cover, a spring keeps the Seat Cover always in its 'Lift Up Position'. When a passenger wants to use the toilet, he can easily push down when it has to be used for the toilet purpose only. It will remain in the down position, as long as a person is using it, otherwise it will lift up automatically to its upward and normal position back.



## 8. Provision of Odour Sensors in lavatories of Vande Bharat Express Coaches:



In order to improve the passenger satisfaction and comfort in Vande Bharat coaches, odour sensor has been provided in Lavatory of Executive class coaches of Vande Bharat Express on trial basis. The sensor analyzes the odour in lavatory and sends a message to housekeeper for cleaning attention whenever the odour intensity increases.

## 9. Upgradation of Model room for training of C&W staff :

Training is one of the most effective ways to equip employees with the knowledge they need to be successful in quality maintenance of Rolling stock. Indian Railway has introduced state of the art Vande Bharat rolling stock and LHB stock which can run up to a maximum speed of 160 kmph . These rolling stock aims to provide a totally new travel experience to passengers. Speed, Safety and Service are the hallmarks of this train.

In view of the accelerated induction of these stocks, a need was felt for well-equipped model room displaying various types of important systems in coaches. To meet this need, a model room has been developed at BTC Wadibunder and the same has been inaugurated by PCME/CR on 29/02/2024.

In this model room, various components and its cut model are made available to the trainees. From this trainees are able to understand various subassemblies and its function.

