

**Rail Wheel Factory  
Yelahanka, Bengaluru 560 064**

**I. Important developments in last four years (2014 – 2018)**

**1. Productivity Improvement:**

New latest technology machines worth Rs. 20Crores have replaced the old and less productive machines in both Wheel and Axle shop.



**Newly replaced Drag Conveyor**



**CNC End Milling & Cup Turning Machine**

**2. Improvement in working condition:**

Working Atmosphere Improvement System worth Re. 1Crore has been introduced for better working condition. This will enable the flow of fresh air from the atmosphere to the.



**Cold fresh air ventilation system**

**3. Quality Improvement:**

Equipments with State- of- the-art technology have been installed for improved quality assurance of raw materials and final products.



**XRF Spectrometer**



**Hydrogen determinator**

## II Development of new products

As a contribution to 'Make In India' campaign, the following new products for use on Indian Railways have been developed by RWF:

1. EMU wheels
2. LHB cast wheels
3. Cast wheel for Milk Tank Wagon , with 1090mm dia which is the largest wheel ever produced at RWF in the year 2017
4. BVZC & DBKM Wheels
5. Axle for dual mode loco.
6. Cast wheel for Meter Gauge Diesel Multiple Unit
7. Wheel set for 25T Axle Load
8. Wheel set for Kolkata Metro(both Motor and Trailer coaches)
9. Approval for chemistry is awaited for LHB Wheels (110 kmph) and LHB wheels (130kmph)



**Newly developed wheel for Milk Tank Wagon**



**Newly developed Wheel set for Kolkata Metro**

## III Fulfilling Social Obligations - Staff Welfare Measures

1. For convenience of Staff & General Public, a Kalyana Mantap (Marriage Hall) was constructed at a cost of Rs. 2.8Crores. 8 additional rooms for Kalyana Mantap was also constructed.
2. For safety & convenience of RWF employees, an underpass was constructed at a cost of Rs. 4.67Crores.
3. 32 Nos. Type I quarters were converted to Type II and 38 Nos. were converted from
4. Cardiac Defibrillator Monitor and anaesthesia station were procured during the year 2018 for Railway Hospital on OOT basis.
5. Open gym has been provided in West Colony for use of employees and their family members.
6. 2 additional class rooms were constructed at KV/RWF



**Utsava: The Kalyana Mantap**



**Newly constructed underpass**

#### **IV. Improvement in environment and Green Initiatives**

1. To further improve the emission levels, the factory has installed Secondary Fume Extraction system at a cost of Rs.19 Crores (in addition to Primary Fume Extraction System) which has improved the emission levels drastically.



2. All the heat treatment furnaces in Wheel and Axle Shop have been converted from high speed diesel to CNG with one time expenditure of Rs. 8Crores. This has resulted in a monthly savings of Rs.1.86Crores and also improved the emission levels. CNG is also being tried for scrap cutting which has resulted in savings in fuel.

3. 2MWp capacity roof top solar system has been commissioned on 31/10/2018. This is facilitating a generation of 26lakh units per year resulting in effective savings of Rs.24lakhs. per annum.



4. All conventional electrical bulbs and tubes, in workshops, service buildings and colonies have been replaced with LED fittings. This has resulted in savings of about Rs.70 lakhs per year in energy bill.
5. 1KW Hybrid Type Off-grid System (Solar + Wind Stream) at Administrative Building on prototype model is commissioned.



6. Rain water Harvesting (RWH) and conservation of Water

- i) Rain water from plant roof is directly recharge the utility system.



- ii) Storage and utilisation the rain water for daily requirements of technical training centre. The system is fully automated without requiring any manual intervention.



- iii) By reviving the wells and harnessing the Underground water in RWF eco-zone, RWF has become self-sufficient in non-potable water. The annual water consumption has been reduced by 20% resulting in annual savings of Rs.40 lakhs.



**A revived well at Eco Zone.**

## V. Skill Development Activity

Under the commitment to "Skill India", RWF is inducting trade apprentices every year. The details of induction from the year 2014 is detailed below:

<b>Year</b>	<b>No. Of Apprentice trained</b>
2014	37
2015	71
2016	136
2017	54
2018	22