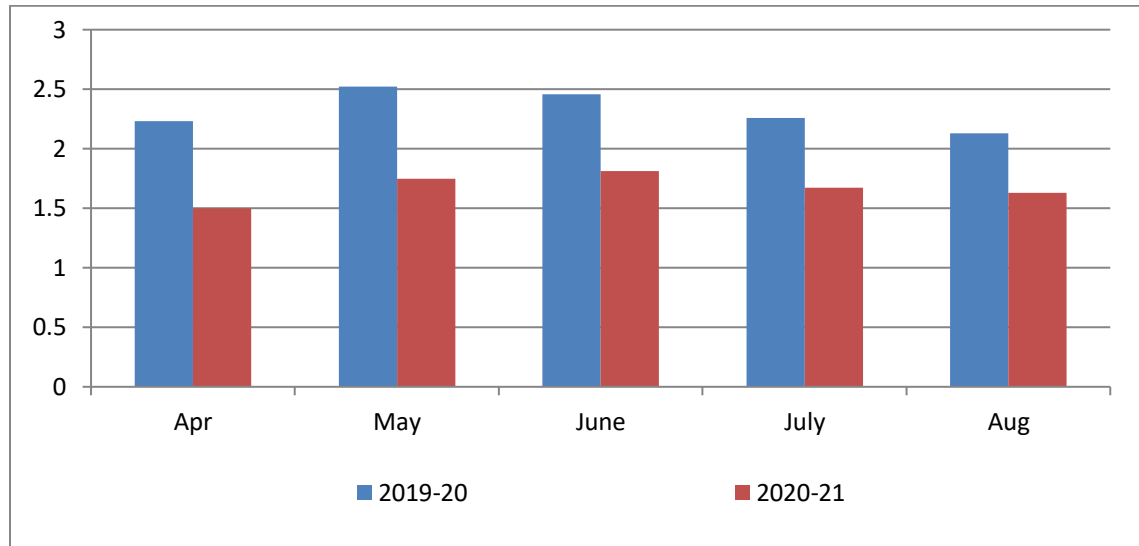


**Energy Consumption (Non-Traction) in M. Units 2020-21**  
**(Up to Aug)**

**i) 2019-20 Vs 2020-21 Consumption in Million Units :-**



<b>Actual Consumption 2019-20</b>	<b>Target for 2020-21</b>	<b>Actual Consumption 2020-21</b>
<b>11.59</b>	<b>11.01</b>	<b>6.74</b>

1. % Variation in 2020-21 Consumption (up to Aug) Vs 2019-20 : (-) 41.85 %
2. % Variation in 2020-21 Consumption (up to Aug) Vs Target : (-) 38.78 %
3. % Variation in 2020-21 Connected load (up to Aug) Vs 2019-20 : (+) 3.26 %

## Reliability/ System Improvement/Innovations

- ❖ **Improvement of Illumination levels at BPP Station:-** As per Railway Board guidelines, BPP station is brightly lit in line with airport standards by replacing the existing low wattage LED light fittings with high wattage light fittings. With this, division has improved illumination levels at 7 stations to airport standards.



Before



After

- ❖ **Commissioning of new HT sub-station:-** A new 11KV HT sub-station with 2Nos. of 500KVA Transformers constructed near IOH shed was commissioned on 05.08.2020 duly shifting the existing HT service from Old port station/COA under Category-IIIB with CMD-150KVA. The sub-station was constructed to cater the additional loads coming up for LHB rakes maintenance.



## Staff Amenities

- ❖ **Provision of AC units:-**

- As per DRM/BZA instructions, 01No. of 2.0 TR inverter split AC unit provided in faculty room at MDTC/KCC.
- As per Rly Board guidelines, 01No. of 1.0TR inverter split AC unit provided in new DEN/General chamber.

- ❖ **Provision of AC units:-** As per PCEE/SCR inspection notes, 14Nos. of 2.0TR and 2Nos. of 1.5TR inverter type split AC units provided in 12 class rooms in ETTC/BZA for the comfort of trainees sitting in the class rooms.



- ❖ **Provision of water cooler:-** 01No. of 40/80 Ltrs water cooler provided near diabetic OP at RH/BZA for supplying cool drinking water to patients.



- ❖ **Re-wiring of staff quarters:-** 22 units of staff quarters of different types with old Aluminium batten wiring replaced with copper wiring at BVRM, KVR & GDR for safe and reliable power supply.

## Use of Non-Conventional source of Energy

- ❖ **Provision of Solar plant:-** ON-Grid Solar plant of capacity 10KWp provided on roof-tops of new sub-station building at COA to cater the electrical loads of IOH shed, saving 13,500 units, i.e Rs.1.03 Lakhs per annum.



- ❖ **Provision of Solar pumps:-** To explore solar power, solar panels of capacity 3KWp with VVVF drive provided for existing 3HP pumps – 01 No. each at west colony/TEL and STPM/BZA. This will reduce consumption of 4,028 units per annum. With this, division has commissioned 25Nos. of Solar pumps.



## Energy Conservation measures:-

- ❖ **Replacement of overaged AC units:-** The existing 46Nos. 1.5TR overaged window/split and 07Nos. of 2.0TR split AC units replaced with 1.0TR-13Nos, 1.5TR-33Nos. & 2.0 TR-05Nos. inverter type at various locations over division saving 94,738 units i.e. Rs.8.29 Lakhs per annum in view of energy conservation.

## TL & AC:-

- ❖ **Conversion of Non AC coaches for Quarantine:-** 51 Nos of Non AC Coaches (BZA-18, COA-13, NS-10, MTM-10) were converted into Quarantine coaches (COVID-19) over BZA Division. All the electrical fittings were cleaned and kept in working duly carrying monthly schedules.



- ❖ **Maintenance of Shramik specials:-** 49Nos of Shramik special trains, each with 24 coaches maintained and run from the division to other states during lockdown for carrying migrant workers.

- ❖ **Safety chain for ZS Couplers:-** Safety Chains for ZS couplers of 750V supply feeder provided in TLD/BZA for coach No. 17672 to avoid hanging coupler and hitting of ballast on run which result in disruption of power supply or damage to feeder cable.

