No.2012/M(N)/951/24
New Delhi, dated 7-01-2019

Principal Chief Mechanical Engineers
All Indian Railways except CR

Sub: Innovations and system improvements in IR

CR through MCDO for the month of December, 2018 has informed about the following innovations/system improvements on the freight side:

- *Solar energy powered Rolling in examination hut-passenger station / BSL*

The same is enclosed for your kind information. Zonal Railways are requested to replicate the above mentioned innovation as per requirement.

DA: As above

(Vivek Mohan)
Dir. Mech. Engg (Frt.)
Railway Board

Copy to:
PCME/CR- for kind information
2.2 Solar energy powered Rolling in examination hut- Passenger station/BSL:
Recently, Bhusaval division has upgraded one existing Rolling in hut by providing Solar Energy Power at passenger station/BSL. It has been inaugurated on 28.12.2018. Facilities like cushioned seats, lights, fans, charging point etc. are provided in this hut for the examination staff as well as transparent glass for observing incoming trains during rolling in examination. This rolling in hut set up has sufficient illumination for under gear examination during rolling in of the train. 4 KWh/day is generated out of which 3 KWh/day shall be feed back into the power grid.

2.3 Inauguration of CTRB section in ROH Depot/BSL:
A Newly constructed CTRB section has been inaugurated on 28.12.2018 in ROH Depot/BSL. Earlier, the wheels were sent to workshops for mounting of overhauled bearing which required more time and transportation cost. This new room will facilitate dust free atmosphere for dismounting and mounting of CTRBs to avoid hot axle cases. Previously, fabricated (metal sheet) CTRB room was temporarily used. it was told that during the year total 3996 CTRB bearings (500/month) were mounted on axle from Apr’18 to Nov’18.

2.4 Solar energy powered submersible pump:
A huge tree plantation along the track was done between BSL-JL station. For regular watering, a solar energy powered submersible pump has been installed in existing borewell available near the area at Kms. 438 near Waghur Bridge.

2.5 In MTN Workshop, inside colour scheme has been changed from Red colour to pleasant Cream colour of ACCN Coach No. 01112 :