



Headquarters Office Central Organisation for Railway Electrification
Prayagraj-211001

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A PERFECT GIFT ON ENGINEER'S DAY

What a better gift it could have been than smashing own record of highest ever creation of infrastructure by your own organization. Central Organisation for Railway Electrification, headquartered at Prayagraj has created all India record of highest ever electrification wiring done in a single day on 14.09.2020.

First step in Railway Electrification involves erection of mast along with support attachments inside foundations cast on both side of tracks. Subsequently, wiring trains are deployed for laying of contact and catenary wires. Out of two wires hanging above the track, one above the other, the bottom conductor is called contact wire, obviously because it remains in contact with locomotive for feeding current. The top conductor is called catenary wire and it provides support to the bottom conductor, avoids sag and maintains profile of the latter as straight line. Both the wire are un-rolled from gigantic spools installed on the wiring train. Unbundling both the wires simultaneously and fixing on the support attachments of mast from a slow moving wiring train is a cumbersome task. On an average, only 30 shots per day are normally laid, collectively by nine project units under Central Organisation for Railway Electrification.

On 14.09.2020, first time in the history of railway electrification of India, total 138 shots of catenary/contact wires equivalent to 90 track kilometer were laid collectively by nine project units. Maximum contribution came from Lucknow project unit ie. 107 shots (70 TKM). Remaining 07 projects contributed 31 shots 20 TKM. In the section Unnao-Balamau, 74 shots equivalent to 50 TKM wiring was done.

Previous Indian record of maximum wiring was achieved on 22.02.2020 by CORE itself with 68 shots (88 RKM).

To achieve this marvelous feat, meticulous planning for round the clock working was done under the leadership of GM/CORE/PRYJ Shri Yeshpal Singh. High capacity generators were installed on the wiring trains itself to facilitate adequate illumination on the run during the night time. Tools and plants were inspected and repaired beforehand to avoid any failure in between the task. 07 no. of self propelled tower cars along with 07 wiring trains were put on the job and mobilization of necessary man power to continue in different shifts round the clock was done from the nearby base depots.

Arranging adequate traffic blocks was utmost important to provide team work at site for movement and working of wiring trains. This could be achieved with the active participation of Northern Railway team. Execution was achieved under the leadership of Shri Arun Kumar, Chief Administrative Officer, CORE/Prayagraj and Shri Sudhanshu Krishna Dubey, Chief Project Director, Lucknow.

This stupendous effort has given a fillip to the statistics of Railway Electrification projects which has so far been average due to impact of COVID-19. It is pertinent to note that not much progress in Railway Electrification could be achieved in the first quarter of current financial year due to lockdown and resulting disruption of supply chain in the economy. Complete electrification of Indian Railway's network is slated to be achieved by the year 2023.

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