

By Speed Post



GOVERNMENT OF INDIA (भारत सरकार)
MINISTRY OF RAILWAYS (रेल मंत्रालय)
RAILWAY BOARD (रेलवे बोर्ड)



No. 2017/7/CE-IV/88

New Delhi, dated 19.03.2024

Principal Chief Engineer
Central Railway.

Sub: Construction of Road under Bridge (RUB)/Limited Height Subway (LHS) by sliding method.

On 13.03.2024, a presentation on "Box pushing by innovative technology" was made by Central Railway. As per presentation made, Box pushing was done under the service girder by using traverse jack for sliding of box over traversing/re-railing beams. After insertion of service girder, earth under the track was excavated and slab was casted with reinforcement required under the jacking points. Thereafter, pre-cast RCC boxes were pushed on the traversing/re-railing beams by using traverse jacks. In this method, there is no requirement of thrust bed which is a definite advantage.

2.0 This method involves multiple shorter duration blocks(2 on Single line & 4 on Double lines) for placing and removing of service girder(s) and speed restriction of 30 KMPH for a period of about 10 days. This method seems to have established as a safe and reliable method for construction of Subway on central Railway.

3.0 Railway may do further trials for the construction of one RUB/LHS by "Direct cut and air pushing with sliding method without use of service girder", in a single traffic block on any single line section. While selecting the site, soil investigations may be conducted to avoid any encounter of rocky strata during the block. Pre-cast slabs and thick MS plate, as required, may be planned for placing under the traversing/re-railing beams during the block. Any other innovation may also be thought and incorporated for efficient and safe execution at site.

This trial may be completed in next three months. Detailed report shall be submitted with suggestions for improvement, if any.

This issue with the approval of PED/Bridge.

19/3/24

(Anupum Singh)

Exe. Director/B&S-II
Railway Board

Copy to: i) PED/Infra-II, RDSO for information
ii) DG/IRICEN for kind information.

21/03/24

