

NORTH WESTERN RAILWAY

Justification for Locating the Project in Forest Area

The work of Gauge Conversion from Meter Gauge to Broad Gauge of Udaipur – Ahmedabad Railway line (299.20km) is sanctioned by Ministry of Railways. The sectional speed of existing Meter Gauge line is 45 kmph and ruling gradient is 1 in 60, whereas in the Broad Gauge the proposed speed is 100 kmph and ruling gradient is 1 in 100. The permissible degree of curvature for 100 kmph speed is 2.74° (639 m radius).

Between Umra and Zawar stations the existing Meter Gauge line is having steep gradient (up to 1 in 60) and sharp curves up to 12° (145m radius). The existing Meter Gauge alignment is having steep gradient and sharp curves in continuous stretch. Such sharp curves and steep gradient are not permitted in Broad Gauge line. Therefore, these sharp curves and steep gradients are required to be eased out in Gauge conversion work. For easing out of these curves and grades, the proposed Broad Gauge alignment is to be diverted away from existing Meter Gauge alignment.

As explained above, the diversion proposed for Broad Gauge Railway alignment away from the existing Metre Gauge Railway alignment between Umra and Zawar stations is unavoidable. The proposed diverted alignment is passing through the forest area. The route of proposed Railway alignment has been finalized with due consideration to the aspect that the alignment should involve minimum forest land.

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