

<p>कार्यालय प्रमुख मुख्य इंजीनियर पूर्वोत्तर रेलवे गोरखपुर दू 273012</p>		<p>Office of the Principal Chief Engineer North Eastern Railway Gorakhpur – 273012</p>
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No. W/29/0/Bridge Policy/5

Dated: 29.10.2021

**Divisional Railway Manager(S),
Varanasi, Lucknow & Izzatnagar,
NE Railway.**

Sub: Pipe line crossings/Irrigation drains – Classification, maintenance & their extension.

Ref: This office letter of even No. dated: 07.10.2020

Instructions were issued on methodology of extension of existing minor bridges of small diameter pipes during doubling work vide above reference. Number of difficulties are encountered during extension of existing pipes under doubling/multi tracking due to situation of different waterways for different track at the same location. This will also invariably create problem of inspection and maintenance of waterway. Pipe line crossings are dealt under Way leave facilities/Easement rights and as per RDSO report No. BS-105 of 2009. Hence, there is need to reclassify pipe line crossings.

The matter has been reviewed in detail and the pipe line crossings/Irrigation drains will henceforth be dealt in the following way:

1.0 Irrigation Drains of pipe diameter up to 305mm:

- 1.1** These shall be treated as **Track crossings**. Separate list shall be maintained and annual inspection on pattern of minor bridges shall be done and recorded.
- 1.2** At time of doubling/multi tracking works, intensive inspection shall be done jointly by Executing agency & Divisional officer and GAD shall be prepared.
 - I.** In case there is any chance that such opening is working/likely to work as balancing culvert, the size of existing pipe as well as extended portion shall be decided to be increased as per requirement. Such track crossing shall be included in Minor Bridge and dealt accordingly.
 - II.** In case, there is no likelihood-of opening acting as balancing culvert, the extension shall be done with same size of pipe as of existing opening.
 - A.** If on inspection it is noted that existing pipe is also damaged and require replacement, the GAD shall include this also along with extension work to be done by executing agency.
 - B.** In case, the existing pipe is sound and does not warrant an replacement, the extension shall be done with same size of pipe as of existing opening and GAD shall include the same.
- 1.3** In case, the existing pipe is closed due to silting etc, the opening shall be structurally closed and extension shall not be undertaken.
- 1.4** In no case any work shall be permitted without approved GAD from CBE.

2.0 Irrigation Drains of pipe diameter more than 305mm:

2.1 These shall be treated as **Minor Bridges** and shall be dealt accordingly.

2.2 At time of doubling/ multi tracking works, intensive inspection shall be done jointly by executing agency & Divisional officer. It shall be specifically assessed if the existing opening is adequate or requires increase in size. The details shall be included in the GAD prepared, which should be examined by CBE and approved.

2.3 For pipe of size more than 305 mm and up to 610 mm:

If no increase in size of opening is considered necessary, the extension shall be done with same size of pipe as of existing opening.

- (i) If on inspection it is noted that existing pipe is also damaged and require replacement, the GAD shall include this also along with extension work to be done by executing agency.
- (ii) In case, the existing pipe is sound and does not warrant any replacement, the extension shall be done with same size of pipe as of existing opening and GAD shall include the same.
- (iii) Once approved by CBE after considering the details of Joint inspection, further separate approval shall not be required for reduction in Head room and opening as required in IRBM

2.4 For pipe of size more than 610 mm:

- (i) Normally the extension shall be done adhering to the stipulations of IRBM regarding clear span & headroom (As per A & C No.25 of 17.12.2012). In case adequate cushion is available, extension shall be done with NP4 RCC pipe as per RDSO specification otherwise with RCC BOX. Normally existing and extended bridge shall be of uniform structure. This may require rebuilding of existing bridge also.
- (ii) At time of doubling/multi tracking works, intensive inspection shall be done jointly by Executing agency & Divisional officer. It shall also be specifically assessed if the existing opening is adequate or requires increase in size. The details shall be included in the GAD prepared which should be examined and approved by CBE.
- (iii) In case of any deviation from the stipulations of IRBM, the case after decision by CBE shall be put up to PCE for information & review if required.

2.5 In no case, any working shall be permitted without Competent sanction (CRS Sanction etc).

- This will supersede the letter under reference.
- This is issued with the approval of PCE.


Gupta 29/10/2021
(P.K.Gupta)

Chief Project Director/Bridge Works

Copy to: PCE & CAO/Con, NE Railway for kind information.

- : CBE, CTE, CE/P&D & CGE, NE Railway for information & necessary action.
- : SrDEN/Coordination, BSB, LJN & IZN, NE Railway for necessary action.
- : CPM/1, 2 & 3/RVNL, Varanasi for necessary action.
- : CPM/RVNL, Lucknow for necessary action.