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 अनुसंधान अभिकल्प और मानक संगठन,
 लखनऊ- 226011
 Government of India-Ministry of Railways
 Research Designs & Standards Organization
 Lucknow-226011
 An ISO: 9001 Certified Organization

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CT/DG/DFC

Dated 5-10-2010

THE GENERAL MANAGER (ENGG.)

1. Central Railway, CST, Mumbai – 400 001.
2. Eastern Railway, Fairlie Place, Calcutta – 700 001.
3. East Central Railway, Hajipur – 844 101.
4. East Coast Railway, Chandrasekharpur. Bhubaneshwar – 751 016.
5. Northern Railway, Baroda House, New Delhi – 110 001.
6. North Central Railway, Allahabad - 211 001.
7. N.E.Railway, Gorakhpur - 273 001.
8. N.F.Railway, Maligaon, Guwahati – 781 011.
9. North Western Railway, Jaipur – 302 001.
10. Southern Railway, Park Town, Chennai – 600 003.
11. S.C.Railway, Rail Nilayam, Secunderabad – 500 371.
12. S.E.Railway, Garden Reach, Calcutta – 700 043.
13. South East Central Railway, Bilaspur 495 004
14. South Western Railway, Hubali– 580 023.
15. Western Railway, Churchgate, Mumbai – 400 020
16. West Central Railway, Jabalpur – 482 001
17. Managing Director/ DFCIL, 4th floor, Palika Bhawan, Sector 13, R.K.Puram, New Delhi
 Managing Director/RITES Limited, New Delhi House 27, Barakhamba Road, New Delhi-110001

Sub: MMD/Fixed structure gauge for Eastern Corridor of DFC

Ref: (i) Railway Board's letter no.2008/CE-II/TS/4 dt:13-9-2010.

(ii) Railway Board's letter no.2008/CE-II/TS/4 dt:16-9-2010.

1.0 Railway Board has approved MMD/Fixed structure gauge for Eastern Corridor of DFC vide letter referred above subject to the following:

(A) Following shall be added as Note-(iii) at the bottom of "FIXED STRUCTURE"
 "Necessary provision should be made in overhead structures and overhead equipment to permit possible raising of the track by 275mm in future to cater for increased height of track structure and other unforeseen factors such as re-grading etc."

(B) Item 2(ii)(a) of "Fixed Structure"- Minimum height above rail level for a distance of 1830mm on either side for light overhead structure such as foot over bridges- 6530mm

(C) Item 2(ii)(c) of "Fixed Structure"- Minimum height above rail level for a distance

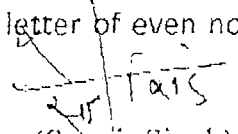
JDTP

of 1830mm on either side for Heavy overhead structure at turnout etc .

These are incorporated in the language form of the "FIXED STRUCTURE" which shall be ensured at the time of execution of ROB, FOB etc. Accordingly, a copy of approved MMD/Fixed structure gauge for Eastern Corridor of DFC both in pictorial and language format taking into account electrification requirement is enclosed herewith for information and further necessary action.

2.0 Further, MMD/Fixed structure gauge for Western Corridor of DFC both in pictorial and language format has already been circulated vide this office letter of even no. dated 21-11-2007.

DA: As above (4 pages)


(Sonvir Singh)
Executive Director/Track-1
For Director General/Track

Copy to: Copy to : Executive Director/Civil Engineering (Planning), Railway Board, Rail Bhawan, New Delhi-01 for information please.

MMD AND FIXED STRUCTURE FOR EASTERN CORRIDORFIXED STRUCTURE

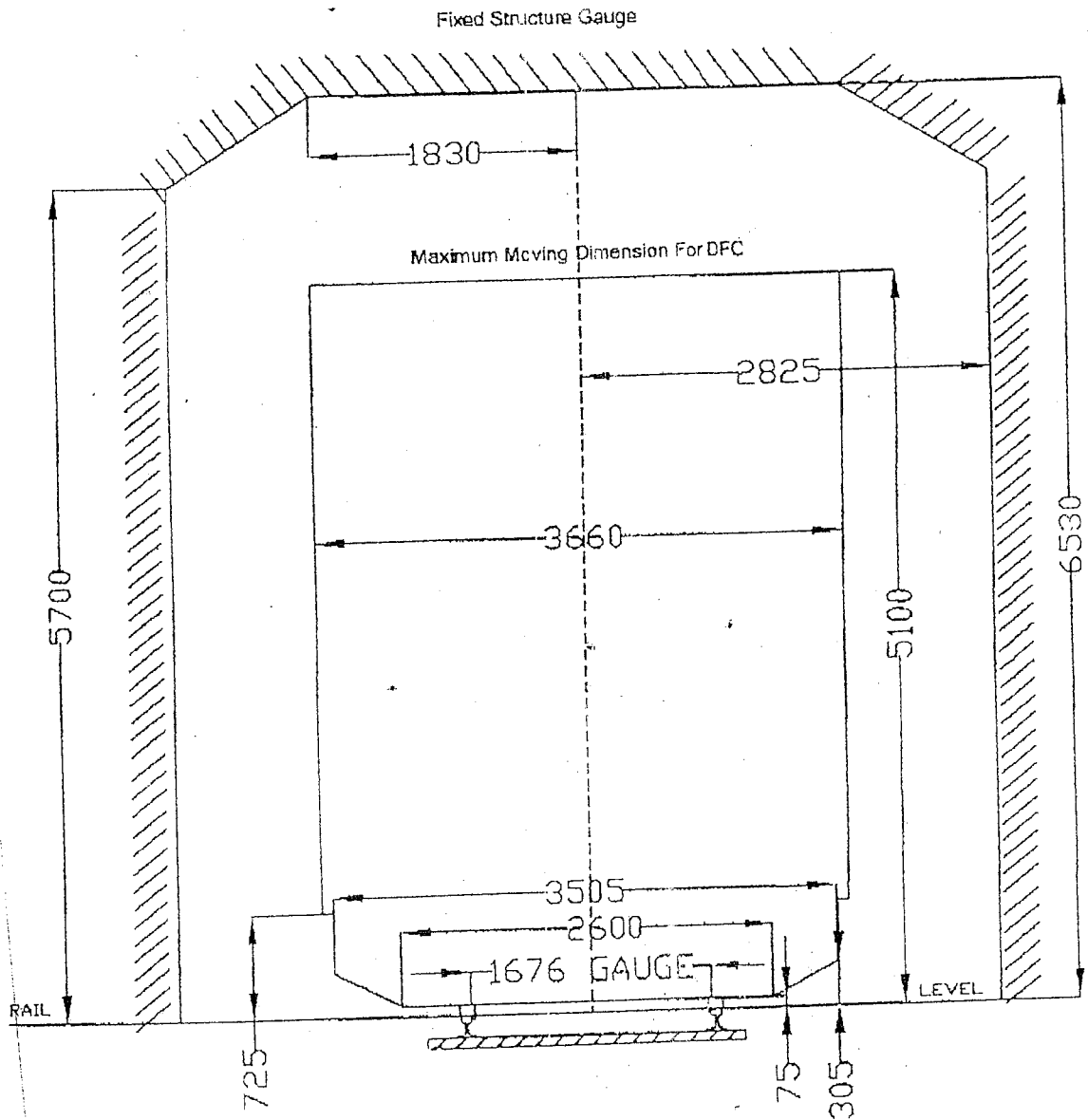
1	Minimum, horizontal distance from centre of track to any structure (other than Platform)	
(i)	From rail level to 725mm above rail level	2825mm
(ii)	From 725mm above rail level to 5700mm above rail level-	2825mm
(iii)	From 5700mm above rail level to 6430mm above rail level	2825mm decreasing to 1830 mm
2.(i)	Minimum height above rail level for a distance of 1830mm on either side of centre of track for overhead structures	5700mm
(ii)	Minimum height above rail level for a distance of 1830mm on either side	
(a)	Minimum height above rail level for a distance of 1830mm on either side for light overhead structure such as foot over bridges	6530mm
(b)	Heavy overhead structure such as road over or flyover bridges	6050mm
(c)	Minimum height above rail level for a distance of 1830mm on either side for Heavy overhead structure at turnout etc .	6530mm
Note: (i)	For curves, extra clearance is to be calculated and accounted for.	
(ii)	The height mentioned against item No. 2 (i) & (ii) above shall be measured from higher or super elevated rail.	
(iii)	Necessary provision should be made in overhead structures and overhead equipment to permit possible raising of the track by 275mm in future to cater for increased height of track structure and other unforeseen factors such as re-grading etc.	

ROLLING STOCK (WAGON)

Wheels & Axles		
1.	Wheel gauge, or distance apart, for all wheel flanges	Maximum 1602mm Minimum 1599mm
2.	(i) Maximum diameter on the tread of new wagon wheel, measured at 63.5 mm from wheel gauge face	1092mm
	(ii) Minimum diameter on the tread of new wagon wheel, measured at 63.5mm from wheel gauge face	840mm
Height of Floors		
3.	Maximum height above rail level for floor of any unloaded vehicle	1345 mm
Buffers & Couplings		
4.	Distance apart for centers of buffers	1956mm
5.	Maximum height above rail level for centres of buffers for unloaded vehicles	1105mm
Wheel Base & Length of Vehicles		
6.	Maximum length of body or roof for bogie vehicles	24000mm
Note (i)	A cornice may project beyond the maximum permissible length of the roof up to 51 mm, beyond each end of the vehicle.	
(ii)	Fittings on the end of a vehicle, such as step iron, vacuum brake piping, electrical connections, vestibule etc., need not be kept within the prescribed maximum permissible lengths for bodies of vehicles, but may project beyond the end of the body to a reasonable extent.	
7.	Maximum distance apart between any two adjacent axles	15000mm
Maximum Moving Dimensions (see diagram)		
1.	Maximum width over all projections at 75mm above rail level, when fully loaded	2600mm
2.	Maximum width over all projections from 75mm above rail level, to 305mm above rail level, when fully loaded	2600mm increasing to 3505mm

3.	Maximum width over all projections from 305mm above rail level, to 725mm above rail level, when fully loaded	3505mm
4.	Maximum width over all projection from 725mm above rail level, to 5100mm above rail level, when fully loaded	3660mm
5.	Maximum height above rail level for a width of 1830mm on either side of the center of unloaded vehicles	5100mm
8	Minimum height above rail level when fully loaded for a width of 1300mm on either side of centre of track with the exception of wheels and attachments there to (vide note below)	75mm
Note:	A tyre or an attachment of a wheel may project below the minimum height of 75mm from a distance of 51 mm inside to 216 mm outside of the gauge face of the wheel.	
9	Minimum height above rail level, when fully loaded at 1752.5 mm from centre of track	305mm

MMD AND FIXED STRUCTURE GAUGE FOR EASTERN DEDICATED FREIGHT CORRIDOR



NOTE:- ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT WHERE OTHERWISE SHOWN.