

No. PL-30 (128)/69

Dated the 9th April, 1970

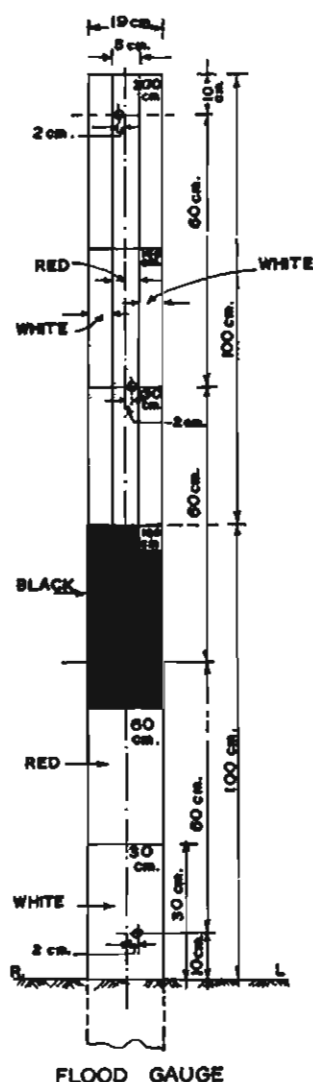
To

The Chief Engineers of the States (Deptts. dealing with Roads) Engineer-in-Chief CPWD., D.G.B.R.,  
Principal Engineer, Manipur

Sub: Safety measures to be taken at submersible bridges/causeway on National Highways

The question of providing suitable warning signs near and on causeways and submersible bridges on National Highways with a view to caution approaching traffic for avoiding risk of accidents has been under consideration of this Ministry as some accidents on submersible bridges have come to notice. Such accidents can be minimised if suitable signs and aids are provided to warn and inform the road traffic of the approaching submersible bridge or causeway and the depth of water as well as the limits of the carriageway of the submers-

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## NOTE:-

THE GAUGES SHOULD BE PLACED ON THE UPSTREAM SIDE OF IRISH BRIDGES OR CAUSEWAYS. THEY SHOULD CONSIST OF ENAMELLED IRON PLATES BOLTED TO A 8cm.x8cm.x8cm. T IRON. THEY SHOULD BE 200cm. IN HEIGHT FROM THE DEEPEST PART OF THE GAP; THE BOTTOM 30cm. — SHOULD BE WHITE, THE SECOND 30cm. RED, THE THIRD BLACK & FROM THE TOP OF THE BLACK, i.e. FROM 100cm. ABOVE ZERO TO THE TOP, THE GAUGE SHOULD BE WHITE & HAVE A RED LINE 5cm. WIDE RUNNING UP THE CENTRE.

THE "FLOOD GAUGE" SHOULD BE PLACED ON THE UPSTREAM EDGE OF IRISH BRIDGES OR CAUSEWAYS AT THE LOWEST POINT & AT SUITABLE DISTANCES MAX. 50 M. ALL ALONG THE IRISH BRIDGE OR CAUSEWAY, KEEPING IN VIEW THE LONGITUDINAL SECTION AFFECTED BY FLOOD WATER ON EITHER SIDE OF THE LOWEST POINT. THE MARKING ON ALL THE FLOOD GAUGES ON A CAUSEWAY SHOULD INDICATE THE DEPTH OF FLOW AT THE LOWEST POINT ON THE CAUSEWAY.

R.L. — ROAD LEVEL AT LOWEST POINT OF IRISH BRIDGE OR CAUSEWAYS ETC.

FLOOD GAUGE

SOURCE	FILE No.	MINISTRY OF SHIPPING & TRANSPORT (ROADS WING) GOVT. OF INDIA.
M.V.A. 1939 IX SCHEDULE (PART 'C') & I.S.D. DRG. No. 7309/1 DATED 16.6.39.	DATED INITIAL	FLOOD GAUGE
I.R.C. PUBLICATION TRAFFIC SIGNS PARA 3.4	DRN.	(INFORMATORY TRAFFIC SIGN.)
	TRD.	
	CHD.	
		DRG. NO. 315 / MARCH, 1952

ible structure. It is, therefore, desired that following measures may be taken on all submersible bridges and causeways on National Highways :—

- (i) Provision and subsequent maintenance of either collapsible or removable railings on submersible bridges as laid down in clause 116.2 of the I.R.C. Standards Specifications and Code of Practice for Road Bridges-Section I;
- (ii) Provision and subsequent maintenance of 800 mm high guide posts at intervals of 4.5 metres along the deck edge of causeways on both sides (the posts may be 200 mm x 200 mm of stone or R.C.C.).
- (iii) Provision and subsequent maintenance of flood gauges to the design, specifications, location etc. as laid down in the I.R.C's reproduction of the 'Traffic Signs' from the 9th Schedule of the Indian Motor Vehicles Act, 1939; and
- (iv) Fixing and subsequent maintenance of advance sign boards (with words or symbol in luminous paint if possible) on approaches to the submersible bridges and causeways, giving information as to the nearness of the submersible structure. These should be fixed at about 300 m from the submersible bridge/causeway and repeated at about 120 m.