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**1100.17.**

No. NHIII/Misc./137/78

Dated the 12th November, 1980

To

- (1) ADG (B)  
(2) All Chief Engineers/Superintending Engineers/Executive Engineers/Asstt. Executive Engineers and Assistant Engineers in the Bridge Directorate.

Subject : Norms for working out the requirements of Materials in respect of Bridge works

Enclosed herewith the copy of norms for steel and cement on the above subject. All CEs/SEs/EEs/AEEs and the AEs in the Bridge Directorate are requested to see for information and necessary action.

Enclosure to circular No. NHIII/Misc./137/78

Date the 12.11.80

**NORMS FOR WORKING OUT THE REQUIREMENTS OF MATERIALS IN RESPECT OF BRIDGE WORK**

<b>1. MILD STEEL REINFORCMENT</b>	<b>QUANTITY/RFT. OF BRIDGE IN TONNES</b>
(i) For Major Bridges more than 500 ft. in length (Superstructure in PSC)	0.15
(ii) For Major Bridges less than 500 ft. in length	0.30
(iii) For Minor bridges and culverts	0.25
<b>2. M.S. DEFORMED BARS</b>	
(i) For Major Bridges more than 500 ft. in length (Superstructure in P.S.C.)	0.05
(ii) For Major Bridges less than 500 ft. in length	0.10
(iii) For Minor Bridges and culverts	Nil
<b>3. H.T. STEEL</b>	
(i) For Major Bridges more than 500 ft. in length	0.08
(ii) For Major Bridges less than 500 ft. in length	Nil
(iii) For Minor bridges and culverts	Nil
<b>4. STRUCTURAL STEEL</b>	
(i) For Major Bridges more than 500 ft. in length	0.05
(ii) For Major Bridges less than 500 ft. in length	0.05
(iii) For Minor Bridges	0.02
(iv) Culverts.	Nil
<b>5. G.I. SHEETS</b>	
(i) For Major Bridges more than 500 ft. in length.	0.06
(ii) For Major Bridges less than 500 ft. in length.	0.04
(iii) For Minor bridges.	0.03

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**6. CEMENT**

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| (i) For Major bridges                                  | 2.00 |
| (ii) For Minor bridges                                 | 2.00 |
| (iii) For culverts (Average length of culvert : 5 ft.) | 2.50 |

**7. COARSE AGGREGATE**

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|---|---------|
| (i) For major bridges more than 500 ft. in length.  | 150 cft |
| (ii) For major bridges less than 500 ft. in length. | 175 "   |
| (iii) For minor bridges.                            | 150 "   |
| (iv) For culverts.                                  | 500 "   |