

No. PL-4(11)/68

Dated the 25th August, 1972

To

All State Governments and Administration of Union Territories Departments dealing with Roads**Sub : Traffic Census on National Highways**

Kindly refer to this Ministry's letter No. PL-4(11)/68, dated the 10th June, 1968, with which a note indicating the broad points to be kept in view and the standard proformae approved by the I.R.C. for carrying out the traffic census on National Highways were forwarded to the States. Since then, certain States have brought to the notice of this Ministry the difficulties experienced by their survey staff while conducting the traffic surveys. These difficulties were placed before the Standards and Specifications Committee of the I.R.C. who after prolonged deliberations have approved the revised proformae for conducting the traffic surveys.

A set of the revised proformae along with a brief note indicating the points to be kept in view is sent herewith, so that the traffic census on National Highways may be carried out as per the revised proformae. The task of conducting these traffic surveys has assumed added importance particularly in view of the advance action pertaining to the 5th Five Year Plan. This will enable us to determine the priorities of the various proposals for development of National Highways like strengthening and widening of the roads, replacing dips by bridges/ culverts, constructing bye-passes, over-bridges etc.

It is requested that the census stations should be fixed with great care after dividing the road into convenient sections each carrying approximately uniform traffic between points of substantial traffic change. In doing so, the Regional Offices of this Ministry should be consulted where necessary. In order to secure effective results, the State Governments will doubtless ensure that these surveys are supervised by qualified and responsible officers. The matter may please be treated as *most immediate*.

The revised standard entitled "Traffic Census on Non-urban Roads" is under print, and if required can be obtained direct from the Secretary, Indian Roads Congress, Jamnagar House, New Delhi-11.

NOTE: ENUMERATING THE POINTS TO BE KEPT IN VIEW WHEN CARRYING OUT TRAFFIC CENSUS

1. Traffic census should be done twice in a year. Once during the peak season of harvesting and marketing and again during the off

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season. Each time, the counts should be made for seven consecutive days.

2. Copies of the Proforma to be adopted are enclosed. Form I may be used for recording traffic data in the field and Forms II and III for summarising the same in the office.

3. Traffic census should not generally encompass abnormal conditions of traffic like a fair or exhibition. In such cases the count in the area should be postponed by a few days till normalcy returns.

4. A road should be divided into convenient sections, each carrying approximately similar traffic between points of substantial traffic change. Count stations should be set up for each such section. The limits of the sections could generally be the important towns along the road or major roads intersecting or taking off from the highway in question.

5. For trunk routes serving inter-city traffic the census sites should be fixed well away from all urbanised developments and villages. In particular, sites within zone of influence of towns where there may be regular flow of commuter traffic must be avoided. If need be, additional stations could be fixed for these zones.

6. Every subsequent census should be taken at the same locations. New stations could, of course, be added as and when needed.

7. For the purpose of traffic counts a day may be divided into 3 shifts of 8 hours each and separate enumerators with a supervisor assigned for each shift.

8. Recording should be done for each direction of travel separately. For this the staff should be divided in two parties for every shift.

9. In each hourly column the traffic should be recorded by making tally marks in five dash system (vertical strokes for the first four vehicles, followed by an oblique stroke for the fifth vehicle so as to depict a total of five). Hourly totals should be made at the end of the shift.

10. An index map indicating the location of the census site should be attached to the traffic summary sheets.

11. If considered necessary, the volume of pneumatic tyred and iron tyred vehicles may be recorded in separate columns.

12. The highest peak hour traffic in a day for fast as well as slow vehicles may be highlighted in summary sheets (Plate II) by drawing a firm line in red around the figures in appropriate column.

TRAFFIC CENSUS FIELD DATA SHEET

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DATE & DAY OF WEEK _____
DIRECTION OF TRAFFIC ^{UP} FROM _____ TO _____
_{DOWN}

ROAD CLASSIFICATION _____
KILOMETRAGE/MILEAGE _____
ROUTE NO. (IF ANY) _____
DISTRICT _____ STATE _____

TYPE OF HOUR VEHICLES OF COUNT	CARS, JEEPS, VANS, THREE WHEELERS ETC.	BUSES	TRUCKS	MOTOR CYCLES AND SCOOTERS	ANIMAL DRAWN VEHICLES	CYCLES	OTHERS (HANSIS)	REMARKS, INCLUDING WEATHER CONDITION
1	2	3	4	5	6	7	8	9
FROM HRS								
TO HRS								
HOURLY TOTAL								
FROM HRS								
TO HRS								
HOURLY TOTAL								
FROM HRS								
TO HRS								
HOURLY TOTAL								
FROM HRS								
TO HRS								
HOURLY TOTAL								

NOTES:-

1. RECORD TRAFFIC VOLUME IN COLUMNS 2 TO 8 BY MAKING TALLIES IN THE FORM OF VERTICAL STROKES FOR FIRST FOUR VEHICLES AND DRAWING AN OBLIQUE STROKE FOR EVERY 5th AS SHOWN WITH BRACKETS (|||||).
2. SOME ROADS CARRY APPRECIABLE VOLUME OF OTHER TRAFFIC LIKE CYCLE RICKSHAWMS. RECORD THE VOLUME OF SUCH VEHICLES IN COLUMN 8 AFTER SPECIFYING THE VEHICLE TYPE.
3. THE HOUR OF COUNT SHOULD BE ENTERED BEFORE THE START OF ENUMERATION. PM HOURS SHOULD BE RECORDED AFTER ADDING 12 TO THE ACTUAL HOUR, FOR EXAMPLE 2 PM SHOULD BE RECORDED AS 14.00 HRS.
4. IF FELT NECESSARY BY HIGHWAY AUTHORITY, THIS COLUMN COULD BE SUB-DIVIDED INTO TWO FOR RECORDING THE VOLUME OF "PNEUMATIC-TYRED" AND "IRON-TYRED" VEHICLES SEPARATELY.

NAME AND SIGNATURE OF ENUMERATOR WITH DATE _____
NAME AND SIGNATURE OF SUPERVISOR WITH DATE _____

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TRAFFIC CENSUS
DAILY TRAFFIC SUMMARY

601. 2 PLATE II

FROM _____ HRS ON _____ TO _____ HRS ON _____
DIRECTION OF TRAFFIC FROM _____ TO _____ (UP)
FROM _____ TO _____ (DOWN)

ROAD CLASSIFICATION _____
 MILEAGE / MILEAGE _____
 ROUTE NO. 117 ANY 1 _____
 DISTRICT _____ STATE _____

[illegible]

* 1977-1978 AND 1979-1980

PRICE AND AVAILABILITY OF EXPERIMENTAL TEST CASES

TRAFFIC CENSUS
WEEKLY TRAFFIC SUMMARY

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PLATE-II

FROM _____ TO _____
(DATE) (DATE)
DETAILS OF CENSUS POINT: _____

ROAD CLASSIFICATION: _____
KILOMETRAGE/MILEAGE: _____
ROUTE NO. (IF ANY): _____
DISTRICT _____ STATE _____

PERIOD				FAST VEHICLES						SLOW VEHICLES				REMARKS
FROM		TO		CARS, JEEPS, VANS, THREE WHEELERS	BUSES	TRUCKS	MOTOR CYCLES & SCOOTERS	TOTAL (COL. 5 TO 8)	ANIMAL DRAWN VEHICLES	CYCLES	OTHERS (SPECIFY)	TOTAL (COL. 10 TO 12)		
DATE	HOUR	DATE	HOUR											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
TOTAL FOR THE WEEK														
AVERAGE DAILY TRAFFIC FOR THE WEEK														

NAME AND SIGNATURE OF
SUPERVISOR WITH DATE _____