

No. NH-26011/1/99-PL

Dated, the 31st December, 1999

To

The Chief Secretaries/Secretaries (PWD/Roads) of all State Governments/Union Territories; Chief Engineers of States/Union Territories (dealing with National Highways and other Centrally Sponsored Schemes); Director General Border Roads; Chairman, National Highways Authority of India

Subject: Traffic Census Data on National Highways

Periodic traffic census is a valuable source of basic data for planning for the development of highways. The Ministry has computerised the handling of data from around 1100 count stations all over the country. The data is being received in the format given in Ministry's Circular No. RW/33023/2/88 DOII dated 16.11.1988.

2. It has been seen that data is not received from many states in time. Some states like Bihar have not sent data since 1986, whereas Delhi has not sent data since 1981. This defeats the very purpose of collection of traffic census data and National Highways in defaulting states do not get proper development and maintenance funds, as warranted by the requirements of actual traffic. Also, without updated traffic census data, it becomes difficult to privatise the development and maintenance of National Highways.

3. In the meantime, the length of National Highways has increased but count stations have not been fixed for many of the newly declared National Highways. The concerned organisations were requested vide this Ministry's letter of even number dated 22.02.1999 to fix the count stations on newly declared National Highways and send the traffic census data regularly. However, very few organisations have responded.

4. Keeping in view the changes in traffic pattern and requirement of additional data, it has been decided to change the format for sending traffic census data (Proforma T-3, along with instructions for filling the proforma enclosed). Therefore, data from traffic census conducted after 31.03.2000 may be sent in the new format (Proforma T-3 mentioned above). It may be ensured that the format is strictly followed in order to avoid problem in feeding the data to the computer.

5. To update the data base of count stations, it is requested that the following information may also be sent for all National Highways (including new National Highways) under your organisation by 31.01.2000 as per the enclosed format (*Annexure-I*):

- (i) Kilometerage of National Highways at State/Union Territory boundaries. (In this connection Ministry's circular letter no. NH/14012/2/97-PL (Pt. I)-Vol II dated 14.12.1999 may also be referred to).
- (ii) Kilometerage of National Highways at intersection of Municipal Limits of towns having a Municipality, Municipal Corporation or the like (National Highway-wise).
- (iii) Starting and terminating points of each National Highway if falling within a State/Union Territory (indicating location of starting point or terminating point)
- (iv) Details of Count Stations, National Highway-wise, like name of location, PIN-CODE of the place where count Station is located, location of kilometerage 0.00, name of the nearest town and distance along the National Highway from the count station and the terrain where the count station is falling.

An index map showing the above details may also be attached. In future if new National Highways are declared or transferred to your organisation, this information may be sent to the Ministry.

6. For fixing of traffic count stations on newly declared National Highways, guidelines in IRC:9-1972 "Traffic Census on Non-Urban Roads" may be followed. Briefly, census points should be fixed well away from all urbanized developments, and in particular, sites within the zone and influence of towns where there may be a regular flow of commuter traffic, must be avoided. Plates I, II and III of IRC:9-1972 have been modified for collecting traffic data in the field and for preparing daily and weekly traffic summaries (*Modified Plates I to III* enclosed). As such, in future these modified plates may be used instead of plates given in IRC:9-1972.

7. To prevent delays, it may be ensured that the traffic census data in the enclosed format is sent by the reporting officer in the field formation, like Executive Engineer, directly to the Ministry, with intimation to the head office of the concerned organisation and the concerned Regional Officer of the Ministry.

**Format for sending information about Count Stations**

1. Name of State:
2. Kilometrage of National Highway (NH) at State Boundaries (also refer to letter No. NH/14012/2/97-PL (Pt. I) Vol. II dated 14.12.1999)

Sl. No.	NH No.	Starting Point on State Boundary*		Ending Point on State Boundary*	
		Kilometrage	Name of point	Kilometrage	Name of point

\*Not applicable if starting point or ending point of the NH is within the state.

3. Kilometrage of NHs at intersection of Municipal Limits of towns having a Municipality, Municipal Corporation or the like (NH - wise)

Sl. No.	NH No.	Name of town	Kilometrage of starting point of intersection with town	Kilometrage of ending point of intersection with town

4. Starting and terminating points of each NH if falling within a State/Union Territory (If no NH starts or terminates in a state this may be indicated)

## (a) Starting points

Sl. No.	NH No.	Name of place of starting of NH

## (b) Terminating points

Sl. No.	NH No.	Name of place of termination of NH

5. Details of Count Stations (CS), NH-wise, like name of location, PIN-CODE of the place where count station is located, location of kilometrage, 0.00, name of the nearest town and distance along the NH from the count station and the terrain where the count station is falling.

(For each NH, this may be repeated)

NH No. :

Name of place of kilometrage 0.00 of NH :

Name of State where kilometrage 0.00 of NH is located :

Sl. No.	Name of place of CS	PIN-CODE of CS*	Kilometrage of CS	Name of Nearest Town	Distance of Nearest Town from CS (km)	Terrain** (plain/rolling/mountainous/steep)

\* Check carefully with postal authorities

\*\* If cross slope of country around CS is up to 10 per cent, write plain terrain, if cross - slope is more than 10 per cent and up to 25 per cent write rolling terrain, if cross-slope is more than 25 per cent and up to 60 per cent write mountainous terrain, if cross - slope greater than 60 per cent, write steep terrain.

Ministry of Surface Transport, Department of Road Transport and Highways, Government of India  
 Traffic and Transportation Zone  
 Proforma T-3, Traffic Census Data

Proforma T-3  
 Traffic Census Data

- (1) Name of State:
- (2) National Highway No.
- (3) Count Station Particulars (C.S.)
- (a) Name of Count Station
- (b) PINCODE of count Station
- (c) Kilometrage of C.S.
- (d) Kilometrage 0.00 at place
- (e) State where kilometrage 0.00 is situated
- (f) Name of nearest town
- (g) Distance of nearest town from C.S.
- (h) Nature of area (Please ☒ one in each row)
- (i) ☐ Services (e.g. Office Areas) ☐ Industrial ☐ Agricultural
- (ii) ☐ Urban ☐ Semi-urban ☐ Rural
- (i) Terrain (Please ☒) (Depends on cross-slope S of the country around C.S.)
- ☐ Plain ( $0\% \leq S \leq 10\%$ ) ☐ Rolling ( $10\% < S \leq 25\%$ )
- ☐ Mountainous ( $25\% < S \leq 60\%$ ) ☐ Steep ( $S > 60\%$ )
- (4) Time of Census Month  Year
- (5) Duration of Census  Days
- (6) Average daily Traffic (in number of vehicles)
- A. Fast/Power Driven vehicles :**
- (a) Car/Jeep/Taxies/Van/Three Wheeler (Auto Rickshaws)
- (b) Two Wheeler (Motor cycle/scooter)
- (c) LCV (Light commercial vehicles e.g. mini trucks)
- (d) Bus
- (e) Two Axle Truck/Tanker
- (f) Multi Axle Truck/Truck Trailer/Tanker
- (g) Agricultural tractor/with Trailer
- B. Slow Vehicles :**
- (a) Cycle/Cycle Rickshaw Other Human Powered Vehicles
- (b) Bullock cart/Horse driven cart/Other Animal Drawn Vehicles
- C. Other Vehicles (if any)**
- (Please Specify \_\_\_\_\_)

(7) **Highest Peak hour traffic for the week in (in number of vehicles)**A. **Highest Peak Hour**     **HRS to**     **HRS**B. **Fast/Power Driven vehicles :**

Day of Highest Peak Hours

(a) Car/Jeep/Taxies/Van/Three Wheeler (Auto Rickshaws)

(b) Two Wheeler (Motor Cycle/Scooter)

(c) LCV (Light commercial vehicles e.g. mini trucks)

(d) Bus

(e) Two Axle Truck/Tanker

(f) Multi Axle Truck/Truck Trailer/Tanker

(g) Agricultural tractor/with Trailer

C. **Slow Vehicles :**

(a) Cycle/Cycle Rickshaw/Other Human Powered Vehicles

(b) Bullock cart/Horse driven cart/Other Animal Drawn Vehicles

D. **Other Vehicles (if any)**

(Please Specify \_\_\_\_\_)

## (8) (a) Any factor which may have cause sudden change in traffic from last count (Please ✓ one or more as applicable)

☐ Construction of alternate road☐ Closure of alternate road☐ New railway/inland waterway/coastal waterway being operational☐ Construction of new facility on road☐ Deterioration of level of service on road☐ Any other (please specify)

(b) Date (data last reported)

Month

 

Year

   

## (9) (a) Reporting Organisation

     

(b) Reporting Officer's designation

(c) Reporting Officer's Address

District \_\_\_\_\_ Pin Code \_\_\_\_\_

Phone No. (with STD code) ( \_\_\_\_\_ ) \_\_\_\_\_

Fax No. (If any) ( \_\_\_\_\_ ) \_\_\_\_\_

Email (If any) \_\_\_\_\_

(d) Signature of Reporting Officer

### Traffic and Transportation Zone

#### Instructions of filling up Proforma T-3, Traffic Census Data

The proforma is designed to be used friendly and self-explanatory. The instructions are printed in italics.

1. **Name of State :** Fill in the name of the state. If necessary, abbreviate to fit into the boxes: Leave one box blank between different words, eg. Jammu and Kashmir is

J	A	M	M	U		A	N	D		K	A	S	H	M	I	R		
---	---	---	---	---	--	---	---	---	--	---	---	---	---	---	---	---	--	--

2. **National Highway No. :** Write the National Highway Number on which the count station is situated e.g. NH-1A is. 

0	0	1	A
---	---	---	---

3. **Count Station Particulars (CS)**

- (a) **Name of Count Station :** Write name of the place of the Count Station, e.g., if the count station is situated in village Subhash Nagar it is to be entered as

S	U	B	H	A	S	H		N	A	G	A	R			
---	---	---	---	---	---	---	--	---	---	---	---	---	--	--	--

Leave one box blank between different words. Abbreviate if necessary.

- (b) **PINCODE of Count Station :** Write the Postal Pin-Code of the place where the Count Station is situated, one

number in a box, e.g. 781012 is 

7	8	1	0	1	2
---	---	---	---	---	---

. In case of any doubt, please verify it from the Post Office, under which the Count Station is situated. Ensure that this does not vary from previously reported data. If any variation is there, indicate it in a covering letter accompanying the traffic census.

- (c) **Kilometerage of CS :** Write the kilometerage of the place where Count Station is situated e.g. km 100.15 is written as 

0	1	0	0		1	5	0
---	---	---	---	--	---	---	---

- (d) **Kilometerage 0.00 at place :** Write the name of the place, where km 0.000 is located, i.e., the place where the kilometerage is reckoned/measured from. This should be consistent with all the records of the reporting organisation. Use instructions in 3(a) for filling blank spaces.

- (e) **State where kilometerage 0.00 is situated :** Write the name of the state where kilometerage 0.00 of the NH lies. This is linked to 3 (d) and instructions for filling item 1 should be used.

- (f) **Name of nearest town :** Write the name of the town on the Highway, nearest to the point of the Count Station. A town is one having a Municipality, Municipal Corporation or the like. Use instructions in 3 (a) for filling blank spaces.

- (g) **Distance of nearest town from CS (in km) :** Write the distance of the town given in 3(f) from the count station point as measured along the highway e.g. distance of 31.25 km is written as

0	3	1	2	5	0
---	---	---	---	---	---

- (h) **Nature of area :** (i) Tick the nature of the area at which the count station is situated. In the first row, if there are bank offices, shops, etc. in the locality of the count station, tick the box for services. Similarly for industrial area or farm land, tick the appropriate box.

(ii) In the second row, tick whether the locality is Urban, Semi-urban or Rural

- (i) **Terrain:** Tick the appropriate terrain of the country-side in which the count station is situated. If cross slope of country around C.S. is up to 10 per cent, tick plain terrain, if cross-slope is more than 10 per cent and up to 25 per cent then tick rolling terrain, if cross-slope is more than 25 per cent and up to 60 per cent tick mountainous terrain, if cross-slope is greater than 60 per cent, tick steep terrain.

- (4) **Time of Census:** Enter the Month and Year of Census. If the traffic Census is held on days falling over two months and/or years, enter the later month and/or year, e.g. if census is held from 29th December, 2000 to 4th January, 2001, it is to be entered as Month 

0	1
---	---

 Year 

2	0	0	1
---	---	---	---

- (5) **Duration of census:** Write the duration of census. Usually, the census is held over 7 days for which enter 

0	7
---	---

 Days

- (6) **Average daily traffic in number of vehicles:** Enter the average number of vehicles of the appropriate category, per day. Do not leave a box blank, e.g. for 235 buses write 

0	0	0	2	3	5
---	---	---	---	---	---

For vehicles in other category, write the name of vehicles along with the average number of vehicles per day.

- (7) **Highest peak hour traffic for week (in number of vehicles):** **Highest Peak Hour** is the Hour in which the total number of vehicles was highest over the census period. P.M. hours should be recorded after adding 12 to the actual P.M. Enter the peak hour in A, e.g., if it is 5:00 P.M. to 6:00 P.M. enter.

A. **Highest Peak Hour**

1	7	0	0
---	---	---	---

 HRS to 

1	8	0	0
---	---	---	---

 HRS

Enter the day when the above Highest Peak Hour was recorded.

For the rest follow instructions in 7.

- (8) (a) **Any factor which may have caused sudden change in traffic from last count:** Tick the factor(s) which may have caused sudden change in the traffic, i.e., change other than normal growth. For this check the past records of the organisation.

- (b) **Data (data last reported):** Enter the month and year when data was last reported. Use instruction in 5 for filling up spaces.

- (9) (a) **Reporting Organisation:** Enter name of Reporting Organisation e.g. PWD as 

P	W	D			
---	---	---	--	--	--

,  
NHAI as 

N	H	A	I		
---	---	---	---	--	--

, BRO as 

B	R	O			
---	---	---	--	--	--

- (b) to (d) Enter addresses etc. of the reporting officer. The Reporting Officer is the officer of the organisation (e.g. Executive Engineer in state PWDs), who is responsible for the stretch of Highway in which the Count Station lies.

**TRAFFIC CENSUS FIELD  
DATA SHEETS**

**PLATE 1**

GOVT. OF INDIA  
DEPTT. OF ROAD TRANSPORT & HIGHWAYS  
TRAFFIC AND TRANSPORTATION ZONE

NATIONAL HIGHWAY NO.: .....  
KILOMETERAGE OF COUNT STATION: .....  
PLACE OF COUNT STATION: .....  
DATE: ...../...../..... STATE: .....  
DISTRICT: .....

DIRECTION OF TRAFFIC UP/DOWN

FROM (Place): ..... To (Place): .....

PIN-CODE OF COUNT STATION: .....

HOUR OF COUNT	FAST / POWER DRIVEN VEHICLES								SLOW VEHICLES			OTHERS (Specify)	Remarks (Including weather conditions e.g. sunny/rainy/cloudy)
	CARS/ JEeps/ TAXIES/VAN/ THREE WHEELERS (auto rickshaw)	TWO WHEELER (motorcycle/ scooters etc.)	LCV (Light Commercial Vehicles e.g. Mini Truck)	BUS	TWO AXLE TRUCK/TANKER	MULTI AXLE TRUCK/ TRUCK TRAILER/TANKER	AGRICULTURAL TRACTOR/WITH TRAILER	CYCLE/CYCLE RICKSHAW/OTHER	BULLOCK CART/HORSE CART/OTHER ANIMAL DRAWN				
FROM													
HRS													
TO													
HRS													
TOTAL													
FROM													
HRM													
TO													
HRS													
TOTAL													
<p><i>Note 1. Record Number of Vehicles in the Appropriate column by making tallies in the form of vertical strokes for the first four vehicles and drawing an oblique stroke for every fifth vehicle e.g. <math>\text{    }</math></i></p> <p><i>Note 2. The hour of count should be entered in 24 hour system e.g. 9 A.M. should be entered as 0900 hrs and 3 P.M. should be entered as 1500 HRS i.e., P.M. hours should be recorded After adding 12 to the Actual P.M. Hour.</i></p> <p><i>Note 3. use More Rows for one hour count if required, but it should be recorded</i></p>													
NAME AND SIGNATURE OF ENUMERATOR WITH DATE												NAME AND SIGNATURE OF SUPERVISOR WITH DATE	

GOVT. OF INDIA  
DEPTT. OF ROAD TRANSPORT & HIGHWAYS  
TRAFFIC AND TRANSPORTATION ZONE

TRAFFIC CENSUS  
DAILY TRAFFIC SUMMARY

MODIFIED PLATE II OF IRC:9-1972

DATE: ..... DAY: ..... NATIONAL HIGHWAY NO.: .....  
DIRECTION OF TRAFFIC ..... KILOMETERAGE OF COUNT STATION .....  
UP From (Place): ..... To (Place): ..... PLACE OF COUNT STATION: .....  
DOWN From (Place): ..... To (Place): ..... DISTRICT: ..... STATE: .....  
COUNT HOURS: FROM ..... HRS TO ..... HRS

COUNT HOUR	FAST / POWER DRIVEN VEHICLES										SLOW VEHICLES				OTHERS (Specify)	Total for all vehicles for Hour (See Note 2)	Remarks				
	THREE WHEELERS (auto rickshaw)		TWO WHEELER (motorcycle/ scooters etc.)		LCV (Light Commercial Vehicles e.g. Mini Truck)		BUS		TWO AXLE TRUCK/TANKER		MULTI AXLE TRUCK/TRUCK TRAILER/TANKER		AGRICULTURAL TRACTOR/WITH TRAILER					CYCLE/CYCLE RICKSHA/W/OTHER		BULLOCK CART/OTHER ANIMAL POWERED	
	U	D	U	D	U	D	U	D	U	D	U	D	U	D				U	D	U	D
0000-0100																					
0100-0200																					
0200-0300																					
0300-0400																					
0400-0500																					
0500-0600																					
0600-0700																					
0700-0800																					
0800-0900																					
0900-1000																					
1000-1100																					
1100-1200																					
1200-1300																					
1300-1400																					
1400-1500																					
1500-1600																					
1600-1700																					
1700-1800																					
1800-1900																					
1900-2000																					
2000-2100																					
2100-2200																					
2200-2300																					
2300-2400																					
TOTAL FOR																					

Note : U : Up Traffic, D : Down Traffic



## TRAFFIC CENSUS WEEKLY TRAFFIC SUMMARY

GOVT. OF INDIA  
DEPTT. OF ROAD TRANSPORT & HIGHWAYS  
TRAFFIC AND TRANSPORTATION ZONE

DELIVERY OF ROAD TRANSPORT & HIGHWAYS  
TRAFFIC AND TRANSPORTATION ZONE

Date : From ..... / ..... / ..... to : ..... / ..... / .....

PINCODE of Count Station : .....

National Highway No. ....

Kilometrage of Count Station .....

Place of count station: .....

District: ..... State: .....

[illegible]