



Andhra Pradesh State Road Transport Corporation

MECHANICAL ENGINEERING DEPARTMENT
Office of the VC & MD, RTC House, VIJAYAWADA

No. OP3/697(01)/2021 -MED

CIRCULAR No. 09/2021-MED, DT. 01.09.2021.

SUB :— ROUTE LENGTHS - Survey of Routes to arrive at correct Route lengths-
Guidelines issued for conducting re-survey of routes- Reg

REF:— 1. Lr. No. P9/359(20)/2021-OPD(P) Dt. 19.8.2021
2. Circular No. 05/2001-MED, Dt. 05.03.2001.
3. Circular No. 07/2001-OPD-T, Dt. 29.01.2001.

Instructions are issued by OPD, vide reference 1st cited, to all RMs and EDs to send the data of routes operated by Hire buses and route lengths adopted for RTC and Hire buses operated on the same routes.

Earlier guidelines were issued vide Circular ref. 3rd cited, on the re-survey of Routes to arrive at correct Route lengths. The Executive Directors(Zone), Regional Managers and Depot Managers were directed to adopt correct route lengths and avoid complaints from the commuters and public representatives.

Vide Circular ref 2nd cited, detailed instructions were communicated regarding the methodology to be followed for conducting the route survey and the precautions to be taken in respect of vehicle identification, type of tyres to be fitted and correction factor to be calculated in order to arrive at correct route lengths.

In view of the instructions issued vide reference 1st cited, the following guidelines are once again reiterated so as to arrive at correct route lengths in case the routes are to be re-surveyed:

1. The speedometers vary from vehicle make to make and model to model in respect of "gear ratio". Hence, the gauges shall not be interchanged from one type of Vehicle to another.
2. New Vehicles received in the recent past shall only be utilized for conducting route survey.

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3. There is a possibility of variation in perimeter of Tyres of different makes and sizes within the same make. Further the perimeter of Tyres changes as per the extent of wear on the tyre. Therefore, there may be a difference in the distance travelled as per speedometer when compared to the actual distance covered as per mile stones.
4. Hence, New Tyres, preferably of the same make and size, shall be fitted on all wheels of Vehicle.
5. The Tyres shall be inflated to the specified pressures before commencing route survey.
6. The Vehicle shall be driven for 100 KMs on a well known route where the milestones are fixed properly at inter-mediate points.
7. Survey shall be commenced immediately after getting change of meter reading. If the reading is at decimal points, the Vehicle shall be so driven in Depot / any open area till change of reading takes place (To obtain Zero in decimal place).
8. After traveling for 100 KMs route length as per the mile stones, the difference in the meter reading shall be noted. If the difference between final and initial readings of Odometer is varying from the actual distance covered as per milestones, CORRECTION FACTOR shall be calculated.

For example, if the distance covered as per Odometer reading is 102 KMs as against the actual distance coverage of 100 KMs (as per milestones), the correction factor shall be $100/102$. If the distance covered as per Odometer reading is 97 KMs, against actual distance coverage of 100 KMs (as per mile stones), the correction factor shall be $100/97$.

9. The correction factor thus arrived at, as explained above shall be multiplied with the route lengths obtained as per survey to arrive at the actual route lengths. For example, if the KMs of the route as per survey is 45 with the correction factor of $100/102$, the actual route length is $45 \times 100/102 = 44.12$ KMs. Similarly, if the KMs of the route as per survey is 45 with the correction factor of $100/97$, the actual route length is $45 \times 100/97 = 46.39$ KMs.

Dy. Chief Mechanical Engineers shall ensure to provide suitable Vehicle for conducting survey by inspecting personally. He shall assist for the effective conducting of re-survey of route lengths by solving technical problems, if any.

Please acknowledge the receipt of the Circular.


Executive Director (E)

- Copy to:
1. ED(O), ED(A), All EDs(Zone) and FA&CAO for Information.
 2. All RMs for information and necessary action.
 3. All DyCMEs and DVMS for necessary action.
 4. All DMs and Garage In-charges for necessary action.
 5. OSD to VC&MD for information.