

ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION

No. TRI/216(I)/2002-MED

Office of the VC & MD
Mushirabad, Hyderabad-20.
Date : 13-02-2002

CIRCULAR No. 02/2002-MED

SUB. :- RADIAL TYRES - Extensive study on improvement of HSD KMPL after fitment of Radial Tyres – Guide Lines issued - Reg.

1.0 The VC & MD desired to conduct a study to examine the claim of M/s. JK-Vikrant about the improvement of HSD KMPL with the fitment of Radial Tyres on EXP/LUX/Hi-TECH buses. Accordingly, a study was conducted from Sep. to Dec. 2001 at PKT Depot, Six vehicles operated on Hyd-Bangalore were fitted with Radial Tyres and Bias ply tyres alternatively at fortnight intervals. After the study, and increase of 4.59% in HSD KMPL was achieved with Radial tyres fitment.

1.1 The drivers regularly going on HYD-BANGALORE route were made to drive the vehicle.

1.2 Each Vehicle has covered around 15,000 Kms. with Radials and another 15,000 Kms. with Bias ply tyres. All the Vehicles put together have covered 99,800 Kms. with Bias Ply tyres and 85,700 Kms. with Radial Tyres.

**1.3 Monitory gain in terms of CPK for the improvement of HSD KMPL by 4.59% is 15 paise.
The savings on a vehicle covering, 1.00 lakh Kms. per annum would be around Rs. 15,000/-**

2.0 These details were discussed in the meeting of all WMs, Dy. CMEs and AMEs(T) held at Corporate office on 21-12-2001. Based on the proposals of Dy. CMEs it has been decided to conduct "extensive study" at the following depots duly radialising all Express, Inter City, Luxury and Hi-Tech buses to examine the improvement in HSD KMPL on a large sample of vehicles taken throughout the state.

SI. No.	Zone	Depot	Total
1)	VJA	VJA, GNT-II, ELR, MTM	4
2)	VZM	VZM, SLR, PPM, SKLM-I, VSP, KKD	6
3)	KRMR	GDK, KRMR-I. WL-I, NZB, ADB	5
4)	CDP	CDP, KRNL-II, ATP	3
5)	NLR	NLR-I, NLR-II	2
6)	HYD	MBNR	1

TOTAL No. OF DEPOTS

21

2.1 Further, Dy. CMEs, WMs & AMEs(T) informed in the meeting that JETWAY-JUH brand tyres procured earlier on trial basis have given better new tyre life compared to VK-VR 18 tyres. The uneven wear symptoms due to front axle defects were also stated to be loss prevalent on JK-JETWAY JUH Tyres. They quosted to extend the trial of JETWAY-JUH* radial tyres in view of the better performance.

2.2 Therefore, out of the 2000 radial tyres required for extensive study at 21 depots over the entire state. It is proposed to procure 1000 Nos., of JK JETWAY-JUH 14 PR brand and 1000 Nos., of VK-VR18 brand tyres. This will facilitate to evaluate the performance of JETWAY-JUH tyres vis-à-vis that of VR-18 radial tyres during the extensive study with regard to improvement in HSD KMPL.

3.0 In this connection the following instructions/guide lines are issued on the method of conducting the study at selected depots.

- 1) All Express/Inter City/Luxury & Hi-tech buses of the above depots shall be fitted with Radial tyres (in all positions) within a month.
- 2) Tyre Shops shall gather Radial RC tyres of from all Depots of the Zone and supply to the above depots for fitment on Rear Axles in order to reduce drawal of new radial tyres.
- 3) The Service Engineers of M/s. JK-Vikrant shall visit each depot ATLEAST ONCE IN A MONTH and guide the depots for smooth implementation of radialisation.
- 4) Radialisation of Vehicles shall be done in phased manner i.e., one after another by providing 7 Radial tyres at a time on each vehicle including spare.
- 5) AMEs(T) shall co-ordinate with the 'J' ward and M/s JK-Vikrant and ensure that Radialisation of all Special type of Vehicles is completed within a month.
- 6) Circular instructions and guidelines issued about radial tyres i.e., on selection, fitment practices, rotation, matching etc., shall be implemented in-toto at depots to contain avoidable tyre failures.
- 7) Front wheels of Radial tyres shall be provided with an inflation pressure of 100 PSI and 90 PSI on Rear wheels.
- 8) The Service Engineer shall inform any deviations observed at the depots which are detrimental to performance of radial tyres, to the DMs and if need be to CME(O)/ Dy. CME(P) of Corporate Office to take timely corrective action.
- 9) Improvement in HSD KMPL of each Vehicle after radialisation shall be reviewed by Depot Managers* DVMs & Dy. CMEs. Details of HSD KMPL of the Vehicles prior to and after Radialisation shall be furnished to CME(O) every month in the proforma given below.

KMPL OF TOTAL RADIALSATION VEHICLES

Depot	Vehicle No.	KMPL with Bias Ply tyres			KMPL after Radialisation		
		<u>Nov. 01</u>	<u>Dec. 01</u>	<u>Jan. 02</u>	<u>Feb. 02</u>	<u>Mar. 02</u>	<u>Apr. 02</u>

- 10) M/s. JK-Vikrant shall educate the depot garage staff & drivers and clarify the doubts related to uneven wear if any, on Front wheels.
- 11) KMPL of all the Vehicles for Dec. 01 & Jan.. Feb., & March 2002 shall be reviewed in first week of April 2002 at corporate office to take further action/decision in the matter.
- 12) WMs, COSs, AMEs(T) shall review the progress of Radialisation on weekly basis. Dy. CMEs and DVMs shall review improvement in HSD KMPL of each vehicle and ensure to conduct the study meaning fully.
- 13) If any problem is encountered during the conduct of study such details shall be informed to CME(O) immediately by the Managers concerned.

- 14) Dy. CMEs, DVMs and DMs shall take personal interest to educate the staff for smooth conducting of study, attend day to day problems reported by garage staff and drivers and ensure timely rectification of Vehicle defects.**

**Sd/-
(M. V. NAGAVENDER RAO)
Executive Director (E)**