



ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION

OP3/462(DEF)/2022-MED

Office of the VC & MD,
RTC House, VJA,
Date: 22.08.2022.

To

All Executive Directors (Zones),
A.P.S.R.T.C.

Sub: SCR system on BS-VI Buses:- Usage of DEF in BS-VI buses provided with SCR system for Emission Controls - Guidelines communicated for supply of DEF to Hire buses inducted through MSTC-VI tenders onwards -Reg.

To meet the emission norms of BS VI Standards, all OEMs have introduced After Treatment System which includes SCR system i.e., Selective Catalytic Reduction system which requires Diesel Exhaust Fluid (DEF). Vide clause no. g(ii) of 14.b of MSTC-VI tender notification, it is agreed to supply **DEF @ 5% of the Diesel topped up** to the hire buses at our Depots. The maximum quantity of DEF to be supplied shall be limited to 5% of the HSD oil consumption arrived as per the Kmpl specified for that particular product in the tender notification. Cost of DEF over and above 5% of permitted HSD oil consumption shall be recovered in the monthly claim.

In this connection, this is to inform that DEF is being stocked at the Depots where BS-IV model AC buses having SCR system are under operation. Now, all the BS-VI buses inducted through hire tenders require DEF.

At present we are using DEF under specification AS:543:87:OCT:2021 supplied through Zonal Stores and the same is suitable for all BS-VI buses also. Hence, it is requested to advise the concerned Depot Managers to obtain sufficient stocks of DEF as per the requirement for the hire buses introduced through MSTC-VI tenders and plan to stock not more than 3 months requirement since the shelf life of the DEF is hardly 6 months when stored under temperatures below 35°C and requires proper storage in covered area.

Further, this is to inform that the main components viz., Dosing Unit and Injector in SCR system are high cost items. Using DEF in these buses without observing its quality/condition is likely to damage the Dosing pump and Injector, which may result in huge expenditure.

In this context, the precautions to be taken before restoring the operation of the buses with SCR system as recommended by OEMs and also while stocking the DEF are furnished below:

- a) DEF to be stored away from sunlight.
- b) DEF to be stored to the extent possible in the manufacturer's original container and kept in a cool, covered area with good ventilation and out of direct sunlight preferably indoors. This will prevent water loss due to evaporation and ensure a long life.
- c) The shelf life of DEF is approximately 6 months when stored at a temperature of $\leq 35^{\circ}\text{C}$.
- d) Protect DEF from contamination with fuel, oil, water, dust/dirt and metals etc.,
- e) Separate plastic cans and gear pumps shall be used to dispense the DEF from barrels and top-up into the DEF tanks mounted on the buses.
- f) DEF is non-flammable, but it should be moved to a safe location if there is fire, as intense heat may cause the sealed storage container to pressure and possibly rupture.

Hence, it is requested to advise the concerned to follow the above instructions regarding storage and arrange to supply to all hire buses inducted through MSTC -VI tenders and maintain record of the same.


22/8/22
Executive Director (E)

Copy to: ED(A), ED(O) and FA&CAO for information.

Copy to: CCOS for information and ensure sufficient stock of DEF available at Zonal Stores.

Copy to: DPTOs for information & n/a.

Copy to: Dy.CMEs/COSs for information & n/a.

Copy to: OSD to MD for information.