

ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION

Office of the VC & MD,
Musheerabad ,Hyderabad-20,
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Sub: Hi-tech buses – **Water leakage** complaints on Hi-tech buses – Prevention of leakages – Certain guidelines issued –Reg.

Ref: This Office lr.no.even dt. 21-08-2004.

Vide the reference cited above, instructions were issued to stock certain spares pertaining to Hi-tech bus bodies for maintaining the upkeep of the buses. In Hi-tech buses, the top fixed glasses are fixed to the structural members directly with CTRV sealant, which bonds the glass to the structural members. The window frame is fastened to the Pillars and structural members at top and sides with M6x25 mm screws. The overlapping joint of window frame and top fixed glass bottom is being sealed with CTRV sealant in order to arrest any seepage of water in to the saloon. The sealant thus provided would have a performance life ranging from six months to one year.

But, of late many complaints are being received at this office mainly on water leakages from window glasses and improper maintenance of windows/glasses. On inspection of some of the buses, it is observed that the water leakages are prominently from the bottom of the window top fixed glasses and from the window frames.

In view of the above, the following instructions are issued for implementation by the Depot Managers.

- 1 The CTRV sealant applied to the top fixed glasses and frames **shall be checked for any cracks or gaps every fortnight or whenever there is a complaint of water leakage**. If found damaged the sealant shall be removed and replaced with fresh sealant without leaving any gap. The method of application of CTRV silicon sealant is explained at Annexure `A`.
- 2 Whenever a top fixed glass is broken, it shall be replaced with correct suitable size glass duly pasting with CTRV sealant.
- 3 Whenever window frames are removed from the vehicle for replacing the glasses, it shall be ensured that fixing screws are properly fastened, sealant is applied on top and sides of the window frame while refitment.
- 4 The sliding glass locks shall be replaced as and when broken or missing.
- 5 The flock channel if damaged shall be replaced duly pasting with good quality adhesives like Dunlop adhesive, Fevicol SR-998. It shall be ensured that silicon sealant is not used in place of adhesive since it will have adverse effect resulting damage of flock channel leading to water leakages.
- 6 Whenever a sliding glass breaks, provision of straight Laminated glass in place of curved toughened sliding glass will not only damage the flock channel but also results in the window frame not seating properly giving scope for leakage of water. This shall be avoided.
- 7 In certain cases it is observed that the glasses are breaking frequently because of blind rivets and screws provided in the window frames at the depot level hitting against the glass while moving it to and fro resulting in glass breakage. Corrective action shall be taken to prevent such hitting of glass and prevent breakage by properly providing screws only.
- 8 The top marker lamps provided on the four corners of the roof shall be replaced whenever they are broken duly sealing the base with CTRV sealant. Otherwise the water enters the saloon through the screw fixing holes
- 9 It shall be ensured to provide Sweep rubbers to all sliding glasses, whenever found damaged or missing.
- 10 Condition of silicon sealant around the luggage carrier base plate edges and around the base plate fixing bolts heads should be inspected periodically for cracks and if necessary the sealant should be replaced.

All the Depot Managers / Maintenance incharges are advised to note the above instructions and implement the same strictly to avoid complaints from the esteemed passengers.

All the Controllers of Stores are advised to stock the necessary sealants, glasses required for maintenance of the hi-tech buses.

All the Dy.CMEs /RMs are advised to ensure the implementation of the above instructions during the inspection of the Depots.

Encl: Annexure `A` and `B`

Sd/-
VICE CHAIRMAN & MANAGING DIRECTOR

ANNEXURE`A`

Procedure for application of CTRV silicon sealant:

Silicon Sealant is used for sealing, building joints and glazing systems.

This component is UV and weather resistant and on application cures with atmospheric moisture to form a durable rubber seal. This sealant is available in 275 to 330 ml plastic cartridges and 600 ml foil packs.

For application of this sealant the surface must be clean, dry and free from dirt, dust and oil.

For window glass fixing, cut the nozzle of cartridge to the required size and apply the sealant with gun to form a bead size of 8x6 mm along the line of contact surface.

Clean the glass, locate the glass in position and apply little pressure against the glass.

Fix clamps or brackets to hold the glass till the sealant gets cured i.e., for about 3 hrs. Apply sealant to fill the gaps along the edges of glass and finish the sealant with fingers soaked in mild detergent water (to avoid adhesion to the hand /fingers). Remove the excess sealant; remove the clamps after ensuring that the sealant is surface dried.

For fixing windscreen glasses apply sealant with a bead size of 16x10 mm along the contact surface with out any gap or break in the line of sealant. Repeat the procedure detailed above. Allow it to cure for about 6 hrs before driving away.