



ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION

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Office of the VC&MD,
Mushirabad, HYD-624,

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SUB : - **Plant & Machinery** – Air compressors – Need for calibration of Air Compressors gauges - Air compressors maintenance -- Reg.

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The recent introduction of ATIs has revealed the **lacunae in Air compressor maintenance at the Depots**. In the recent past trainings were organised TRS wise on working & maintenance aspects of ATIs along with demonstration. During this activity certain complaints were received from some of the Depots stating that the ATI machines are not working according to their cut in & cut out compressor pressure specifications and are showing error even though the working pressure of air compressor is set as prescribed by the firm.

Accordingly to ascertain the working of ATIs, the ATIs installed at HYD-1 and PKT depots are inspected along with the representative of the firm to find the root cause.

It is observed that the **air compressors are not showing the correct air pressures and the indicators need calibration** immediately. It is also felt **necessary to have an exclusive air compressor for inflation in the garage duly giving parallel connection to the other compressor by fitting hand control valve between them**. So that whenever a compressor goes repair, we can carryout the regular activities of Inflating tyres and greasing activities to the vehicles without interruption. The **air lines are also needed attention for arresting leakages**.

It is also observed that the Air compressors are not properly maintained. They are with oil leakages and not building up rated pressures. **Immediate attention** is needed to attend air compressor **for arresting oil leakages/ Top overhauls** and **if necessary the replacement** of Air compressors basing on the repair cost as against the new cost.

All the **Dy.CMEs** are advised to go through the above points and **take immediate steps for the calibration of dial gauges on Air compressors in the garage immediately. They are also advised to get them calibrated every six months as done in case of earlier analogue gauges**.

Further for the benefit of Depot Managers and Maintenance Incharges, the general maintenance on air compressors at Depots is reiterated hereunder for immediate review and implementation.

- 1) Any pneumatically operated machine like High pressure grease gun, Automatic tyre inflator etc **shall be provided with Air filter in inlet line**. Draining of water from the filter bowl is to be ensured on day to day Basis.

- 2) If the air lines are longer, **water drain cock** is to be provided at suitable place for removing of water traces from air lines and is to be drained daily.
- 3) The following **maintenance schedules** are prescribed for the effective functioning of air compressors.
 - 3.1 **DAILY:**
 - a) Accumulated water in the storage tank shall be drained.
 - b) Ensure that there are no leakages of lubricating oil.
 - c) Clean the air fins to be free from dust and oil.
 - d) Check and rectify leakages of air either through wheel valves or through pipe lines.
 - 3.2. **WEEKLY:**
 - a) Check up the lubricating oil level and refill upto the mark.
 - b) Inspect the tension of belts and adjust, if necessary.
 - c) Clean the contact point of the switch as well as starter thoroughly for ensuring proper contact.
 - d) Clean the filters and refit properly.
 - 3.3. **MONTHLY:**
 - a) Drain the used lubricating oil and refill upto the indicator level.
 - b) Rubber washer of non-return valve shall be checked and replaced, if necessary.
 - c) Check up the condition of the fan.
 - d) Check up the foundation and cylinder head bolts for their proper tightening.

The **Depot Managers** are advised to ensure proper maintenance of air compressors as stated above for the effective and economical use of Air compressors installed in the Depot garages.

The **Deputy Chief Mechanical Engineers** are requested to make it a point to inspect the T&P for their proper maintenance and effective working during their inspections to the Depots.

Regional Managers are requested for effective implementation of above guidelines.

Executive Director (E&IT)

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