



ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION
Mechanical Engineering Department, Office of the VC & MD,
Bus Bhavan, Mushirabad, Hyderabad - 500 624

No.PRD1/641(01)/2014-15-MED.

Circular No. 12/2014 -MED. Dated 05-09-2014

Sub: **FLOATS - Provision of Float Aggregates to Depots & Workshops - Revised Instructions communicated - Reg.**

- Ref: 1) Circular No.16/1988-MED, dt.09.07.1988.
2) Circular No.22/1998-MED, dt.01.09.1998.
3) Circular No.09/2000-MED, dt.30.12.2000.
4) Circular No.24/2011-MED, dt.10.06.2011.

The float aggregates are provided to depots to facilitate timely replacement of defective Units/Sub-assemblies during the course of Maintenance so as to avoid vehicle downtime and ensure maximum Fleet utilization. The list of items to be supplied was last communicated vide **Circular No.24/2011-MED** duly classifying them as **Major Assembly Units, Sub Assembly Units and Major spares**.

The basic idea behind classification of certain Major Assemblies, Sub-assemblies & Major Spares as 'Float items' is to extract maximum life out of each repairable component of the vehicle. As it is difficult to judge the serviceability of these items at depot level, the items are sent to Workshops where critical inspection is carried out whether to take up for overhaul or to scrap a particular item.

But on reviewing the present trend in Overhauling practices of Major Assemblies and Sub-assemblies at Workshops, it is observed that some of Units sent by Depots are seldom undergoing overhaul as the reparability of these items is very less and most of the items are being declared as unserviceable. As such, it is felt necessary to re-categorize some of the **Sub Assemblies/ Major Spares as Stock Items at Workshop and Depot** which can be supplied **against DS8** to have immediate support to the Depots/Workshops for smooth and effective functioning.

The following are the comprehensive guidelines issued in this regard.

1) **MAJOR ASSEMBLY UNITS:**

The following **8 items** are categorized as **Major Assembly Units** with the norms in terms of quantity to be provided based on scheduled Kms against each for individual depots.

In view of the induction of New Model Engines, Front Axle, Rear Axle & Gear Box by Ashok Leyland and Tata, certain items like 'I' Beam & High Pressure Pump (CRDI) is included in Major Assemblies.

S.No	Description	Qty	Norm (Schedule Kms per Day)
1	Engine	1	20000
2	Gearbox	1	15000
3	Front Axle	1	30000
4	Rear Axle	1	30000
5	FIP	1	6000
6	Steering Box/Power Steering Box	1	40000
7	'I' Beam	1	15000
8	High Pressure Pump (CRDI)	1	15000

For procuring the above Major Assembly Units as Float, the administrative sanction of the Executive Director (E&IT) with the concurrence of CAO has to be obtained.

2) SUB ASSEMBLIES:

The following **29 items** are categorized as **Minor Units** with the specified norm against each for provision as Float to Depots.

S.No	Description	Qty	Norm (Schedule Kms per Day)
1	<i>Air Compressor</i>	1	6000
2	<i>Air Compressor Head</i>	1	6000
3	<i>Cylinder Head</i>	1	15000
4	<i>Turbo Charger</i>	1	10000
5	<i>Water Pump</i>	1	10000
6	<i>Injector Set (6No's)</i>	1	3000
7	<i>High Pressure Regulator for CNG</i>	1	15000
8	<i>Pressure Reducer</i>	1	10000
9	<i>Front Hub</i>	1	15000
10	<i>Stub Axle</i>	1	15000
11	<i>Rear Hub</i>	1	15000
12	<i>Drive Head</i>	1	15000
13	<i>PP Shaft Set (F,M,R)</i>	1	10000
14	<i>Electro Magnetic Retarder</i>	1	25000
15	<i>Hydraulic Retarder</i>	1	30000
16	<i>Vane Pump</i>	1	20000
17	<i>Dosing Pump</i>	1	20000
18	<i>Self Starter</i>	1	8000
19	<i>Alternator</i>	1	10000
20	<i>DDU</i>	1	9000

S.No	Description	Qty	Norm (Schedule Kms per Day)
21	<i>Air Dryer</i>	1	9000
22	<i>DB/E2 Valve</i>	1	6000
23	<i>Hand Brake Valve</i>	1	6000
24	<i>SP Valve</i>	1	6000
25	<i>Unloader Valve</i>	1	6000
26	<i>AC Air Compressor</i>	1	6000
27	<i>Wiper Machine</i>	1	6000
28	<i>Relay Valve</i>	1	6000
29	<i>Quick Release Valve</i>	1	6000

In view of induction of AC,CNG & High speed Vehicles, certain Sub-assemblies like **Electro Magnetic Retarder, Hydraulic Retarder, High Pressure Regulator for CNG Pressure Reducer, Dosing Pump, Stub Axle and AC Air Compressor** are included in Sub-assemblies.

For procuring the above Sub-assemblies, the administrative sanction of the **Executive Director (Zone)** with the concurrence of **Dy.CAO (Zone)** has to be obtained.

While procuring the above items, the excess Floats available at other Zones shall be taken into consideration.

3 Major Spares as Stock items supplied through Workshops:

The following **26 items (Including 8 New Items listed at Sl.No 19 to 26)** which were proposed earlier as **Float** in terms of **Circular No.24/2011-MED** are now proposed to be treated as “**Major Spares as Stock items**” to be supplied to **Depots through Workshops as against DS8**.

The **Major Spares of Zonal Workshops Stock items** shall be provided to the Depots based on the norms in terms of quantity to be provided based on Scheduled Kms and to be supplied through **Zonal Workshop against DS8**.

These items shall be declared unserviceable only when the component is beyond repairable. The items so declared as unserviceable shall be sent to **Zonal Stores against DS 8** duly certified by the **Works Manager**.

The Stocking of these items shall be done as per LPM (Limit per Month) which will be decided through LFC Meetings and these items shall be drawn by the Zonal Workshops against DS 8. The following items are listed under **Major Spares as Zonal Workshops Stock items**.

The Reconciliation of the Major Spares of Zonal Workshops Stock items shall be done along with the Float Items twice in a Year as mentioned vide Circular 24/2011 to streamline the Stock position at Depots/Workshops and for any Additional requirements, the sanction of Executive Director (Zone) with a the concurrence of Dy.CAO shall be obtained while procuring the items.

S.No	Description	Qty	Norm (Schedule Kms per Day)
1	Batteries	1	10%of Batteries Held
2	Feed Pump	1	15000
3	Oil Separator	1	10000
4	Radiator	1	8000
5	Cooler Plate	1	10000
6	Clutch Housing(Engine)	1	15000
7	Clutch Booster	1	10000
8	Clutch Springer/Pressure Plate	1	6000
9	Clutch Disc	1	5000
10	Fly Wheel	1	15000
11	Tie Rod Assembly	1	15000
12	Pull & Push Rod (Drag link)	1	15000
13	Set of Front Brake Drums	1	5000
14	Set of Rear Brake Drums	1	5000
15	Set of Front Brake Chambers	1	6000
16	Set of Spring Brake Actuators (Rear Brake Chambers)	1	6000
17	Set of Slack Adjusters(4No's)	1	6000
18	Half Axle Shaft Set	1	5000
19	Belt Tensioners	1	6000
20	Gear Box Linkages	1	6000
21	Gear Box Mini Top	1	6000
22	Crank Shaft *		
23	Engine Block*		
24	Leveling Valve	1	10000
25	Front 'S' Cam Set	1	10000
26	Rear 'S' Cam Set	1	10000

Note*: The Item No 22 & 23 shall be procured with the prior approval of Executive Director (Zone) as and when required.

4 Major Spares as Depot Stock Items:

The following *21 items (Including 4 New Items listed at Sl.No 18 to 21)* which were proposed earlier as Float in terms of Circular No.24/2011-MED are now proposed to be treated as “Major Spares as Depot Stock Items”.

The **Major Spares of Depot Stock Items** shall be provided to the Depots based on the norms in terms of quantity to be provided as per scheduled Kms and to be supplied through Stores against DS8, instead of supplying through Workshops.

S.No	Description	Qty	Norm (Schedule Kms per Day)
1	Twin Filter	1	10000
2	Viscous Fan	1	20000
3	Inter Cooler	1	8000
4	Air Cleaner	1	6000
5	Clutch Slave Cylinder	1	10000
6	Clutch Master Cylinder	1	10000
7	Fly Wheel Ring	1	10000
8	Front Hub Inner Bearings	1	10000
9	Front Hub Outer Bearings	1	5000
10	Rear Hub Inner Bearing	1	10000
11	Rear Hub Outer Bearing	1	5000
12	HSD Tank	1	10000
13	Air Tank	1	10000
14	Set of Front Shock Absorbers	1	5000
15	Set of Rear Shock Absorbers	1	5000
16	Steering Wheel	1	15000
17	Hydraulic Jack/Mechanical Jack	1	2000
18	<i>Compound Link Assembly</i>	1	10000
19	<i>Parallel Link Assembly</i>	1	10000
20	<i>Anti Roll Bar Assembly</i>	1	10000
21	<i>Panhard Rod Assembly</i>	1	10000

Conditions for Procurement & Supply of Major Spares as Depot Stock Items:

Since all the above items are high cost items, it is decided to impose certain conditions for procurement of these items so that a strict control can be exercised on consumption at depots.

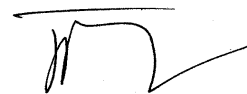
- i) The Zonal Stores shall take action for procurement and supply of these items to depots for regular consumption against DS8. The Stocking of these items shall be as per LPM (Limit per Month) which shall be decided during the LFC (Limit Fixation Committee) Meeting.
- ii) The above items shall be provided as **Major Spares to the Depots** based on the Norm. The Dy.CME of the Region shall work out the depot-wise requirement of each item as per the Norm and arrange to stock them at Depots to maintain Healthy Fleet.

- iii) The availability and requirement of these items shall be verified by **Dy. Chief Mechanical Engineers** once in **Six Months** and necessary action has to be taken either to transfer the excess items to the needy depots or to provide additional quantity based on the volume with addition of vehicles.
- iv) For procuring the additional quantity of the **Major Spares of Depots**, the sanctions of **Executive Director (Zone)** with the concurrence of **Dy.CAO** shall be obtained.
- v) The items shall be inspected thoroughly by the **Mechanical Supervisor** whenever the component is removed from the vehicle and carry out minor repair/ overhaul at depot level either by replacing the kits or by carrying out minor repairs/retrieval activity through local workshops.
- vi) The item shall be declared **unserviceable** only when the component is beyond any further use. The items so declared as unserviceable shall be sent to **Zonal Stores against DS 8** duly certified by **Dy.CMEs**.
- vii) *Other than the above listed Major Assemblies/Sub-assemblies/Major Spares, all other items shall be made stock item as per the LFC recommendations or can be procured on LPR as per the requisition of Works Managers/ Dy. Chief Mechanical Engineers.*
- viii) All other **Guidelines** communicated through **Circular No.24/2011-MED**, dated 10.06.2014 stands good.

All the Dy.CMEs & WMs are hereby advised to reconcile the Depot-wise floats position based on the revised guidelines and take necessary action to surrender the excess floats or to procure additional floats as deemed fit.

With regard to the '**Major Spares of the Depots**, the Dy.CMEs and DMs shall take utmost care while declaring the items as unserviceable and ensure that the consumption is always maintained well within the limits.

The above instructions will come into force with immediate effect.



VICE CHAIRMAN & MANAGING DIRECTOR

Copy to: DIR (V&S) for information.

Copy to: All Executive Directors/FA & CAO for information and necessary action.

Copy to: CME (O)/CME (C&B)/CCOS & CE (IT) for information and necessary action.

Copy to: All Regional Managers for information and necessary action.

Copy to: All Dy.CMEs, COSs & Works Managers for information and necessary action.

Copy to: Depot Managers for information and necessary action.

Copy to: All Garage in-charges for information and necessary action.