**Annexure: I**  
  
**Scope of work.**

**Annual service contract for Breakdown and Preventive (Electrical /Mechanical) maintenance of Aero Castors in New Transformer Block.**  
  
**There are 02 nos of 350 Ton and 02 nos of 50 Ton Aero Castors in NTB.**  
  
1. Periodic removal of air cushion element and inspecting them for damages.  
  
2. Cleaning of air cushion element. Washing first with warm soap water, then with cold water and drying with clean cloth.

3. Repair of air cushion element .When the cushion is damaged/ ruptured then it has to be repaired with vulcanizing and adhesive SC 4000 provided by BHEL. The repair shall be done at r rubber-rubber and rubber -steel interface.  
4. Regular cleaning of complete Aero castors with complete removal of dust, foreign particles etc through air and vacuum cleaner .Dismantling of pneumatic pipelines and ensuring complete removal of water.

5. Regular checking, cleaning and replacement of filter insert of exhaust filter, Micro filter and normal filter

6. Periodic servicing, upkeep and ensuring trouble-free operation of a pneumatic driving motor consisting of bellows, wheels, spring etc. Lubrication of motor.

7. Upkeep and repair of air bellows of driving unit and brake.

8. Repair of Air Supply points consisting of Hoses , Ball valves Quick Release coupling. Ensure no leakages and no pressure drop. Ensuring proper locking mechanism so that the hoses are not removed with pressure on.

9. Regular lubrication of Aero Castors .

10. Repair and maintenance of batteries and chargers

11. Repair and replacement faulty mechanical components such as valves,FRLs pneumatic pipe lines.

12. Checking of electrical wiring of loose connection and other fault.

13. Adjustments of height sensors so that lift of aero castor is uniform.

14. The contractor shall attend breakdown of electrical and mechanical nature whatsoever may be in between any two successive servicing schedule during operation of aero castors free of the charge and resolve them promptly and efficiently to keep downtime minimum

15. Welding in case of cracks and Fissures in body.

16. The contractor shall coordinate with production staff to ensure proper and trouble-free Movement of transporter particularly in /out of VPD and UHV/NTB interface.

17. Ensuring the Aero castors re always in ready to operation condition in 3 shift so there is no delay in shifting jobs .

18. **The above service/ PM has to be done 12 time in a year for 2 nos of 350 TON and 2 nos of 50 TON aero castors** .

19. All spares and consumables shall be provided by BHEL.

DY.MGR (FRX)