

## FUNCTIONAL REQUIREMENTS



1. The Portable Gauge Face Lubricator may be moved manually by one person and dispensing system of lubricant is similar to grease gun in which the plunger sits on the inside of the grease cylinder and pushes the grease out by up and down movement of plunger during the movement of lubricator.
2. The Portable Gauge Face Lubricator should be a mechanically pumping system for delivering an adjustable quantity of lubricating material along the gauge face of rails. The Portable Gauge Face Lubricator will be capable of greasing the gauge face of one rail of track in single run. The output of the lubricator will be 3-3.5 km per hour.
3. The Portable Gauge Face Lubricator will function in all climatic conditions. The lubricator consists of grease container fitted with plunger and a distribution system of hose attached with a brush which is in contact with the gauge face of the rail. The Portable Gauge Face Lubricator may be moved manually by one person and dispensing system of lubricant is similar to grease gun in which the plunger sits on the inside of the grease cylinder and pushes the grease out by up and down movement of plunger which is connected by a gear arrangement

during the movement of lubricator. The lubricator will deliver controlled amounts of grease onto the gauge face of a rail which will be controlled by an orifice provided at the outlet. The grease will be distributed on the gauge face with the help of brush attached at the outlet end of the hose.

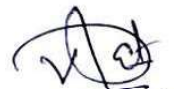
4. Brush is used to apply the grease on the gauge face of rail followed by distributor wheel which uniformly spreads the grease over gauge face.
5. Sprocket and chain arrangement is to be provided for operation of lever of grease gun.

#### TECHNICAL SPECIFICATIONS

1. Running Wheels over rail should be made of Solid Teflon material **polytetrafluoroethylene (PTFE)** for high resistivity to heat , electricity and water. It should be able to work in a track circuited area.
2. Lubricator should be able to move over 52 kg rail track as well as 60 kg rail track.
3. Chain (0.5 inch pitch) should be of industrial standard made of high-grade alloy steel. It should be BIS and ISI certified.
4. Grease pump in lubricator should have variable handle setting and capacity should not be below 6Kg. It should be of industrial standard of make GROZ or equivalent.
5. The total weight of the lubricator with grease should not exceed 25 kg.
6. The gauge face lubricator should be spray painted with a good quality paint.
7. Gauge face lubricator should be able to move over rail as well as on road with separate wheels for movement over rail and on road. Movement of all the wheels to be provided over bearing arrangement.
8. Teflon wheels should be attached to the body with bearing for smooth movement. No movement over bush arrangement to be provided.

9. A side stand arrangement should be attached to the body whenever is needed to standby the lubricator over track.
10. Rotations of Sprockets should be over bearing for smooth movement.
11. Handles of the lubricator should be provided with rubber grip for easy handling.
12. All the bolts used in the machine should be of make: - Unbrako, TVS, LPS. All the nuts should be of type: nyloc nuts (Nylon insert lock nuts).
13. Five (5) nos (Quantity) of brushes/sponges used for grease application, should be supplied as spares along with the lubricator. Additionally, two numbers of Running Wheels over rail (One number with Sprocket-chain connection and one number without Sprocket-chain connection) to be supplied as spares.
14. Accessories Spares/tools/chain lubrication oil with a tool box should be supplied for easy assembling of machine.
15. Manufacturers should provide a warranty of 12 months for any manufacturing defects.

  
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