	<b>VEDANTA LIMITED – VALUE ADDED BUSINESS</b>	<b>Format No.:</b>	<b>VL/IMS/PP2/MECH/WI/7</b>
	<b>INTEGRATED MANAGEMENT SYSTEM</b>	<b>Revision Date:</b>	<b>05.04.2021</b>
	<b><u>Work instruction for Lubrication</u></b>	<b>Revision No.:</b>	<b>02</b>
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**Objective: -** Safe handling & Usage procedure for Lubrication  
**Scope :-** power plant Accessories.  
**Ref: -** Safety Data sheets of lubricating oil  
**Responsibility :-** Engineer In Charge & workmen at job  
**PPE –s to be used: -** Helmet, Safety shoes, Dust masks, Hand gloves and goggles.

**Work No 1** : Lubrication of gear box/ equipment  
**Work No 2** : Greasing of Equipment.  
**Work no 3** : Collection and disposal of waste oil

**Aspect:** Oil Spillage, Oil traced waste generation, Noise  
**Impact :** Land contamination, Resource Depletion, work environment

#### **Hazard Identified:**

**Mechanical Hazard-** Entanglement between moving parts due to improper guarding,  
 Removal of machine guard etc  
 Slip and Fall of person due to poor housekeeping and grease / oil  
**Human Behavior:-** No usage of PPE, Improper housekeeping, Alcoholism,  
 overconfidence, Negligence


#### **Safety precautions:**

- Avoid using mobile phone while working.
- Use appropriate tools required for the job.
- After job always do proper housekeeping.
- Always prevent body from line of action of force.
- Perform proper communication verbal and non-verbal as required.
- All barrels should have secondary Containment

#### **Work No 1 :- Lubrication of gear box/ equipment**

- Clean the gear box/equipment with the cotton rags/compressed air. Use goggles while cleaning compressed air for cleaning. Do not use compressed air for body cleaning.
- Check the oil level and quality by visual examination.
- Make up the oil level by pouring oil through the inspection door / vent in the gear box / pump
- Do not keep the gear box open for long time
- If the oil is contaminated by, replace the oil completely
- Fit back vent after filling oil.

<b>Prepared &amp; Reviewed:</b>	<b>Approved:</b>	<b>Issued:</b>
<b>HOD – Mech – PP</b>	<b>Head – Power</b>	<b>MR</b>
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- Use funnel for pouring the oil & keep a tray below the equipment to avoid spillage to ground
- Use hand pump and clean hose for filling up oil to hydraulic power pack.
- Inspect the equipment and fitting for leakage

**Work No 2 :- Greasing of Equipment.**

- Clean the portion of the equipment which is to be greased.
- Clean the grease nipple and operate grease gun for filling grease.
- Keeps a tray below the equipment to avoid spillage to ground.
- Collect the waste grease and return back to store

**Work No 3: Collection and disposal of waste and burnt oil**

- Waste oil removed from equipment shall be shifted to waste oil barrels
- Return the barrel to stores after it is filled
- Ensure no oil is kept open
- Keep the Oil/Grease traced material in separate bins and return to store as oil traced waste.
- Do not lubricate the equipment which is in operation without close supervision.

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