Work instruction for maintenance of Air compressors

Objective Maintenance/Operation of compressors

Scope Plant and jetty

Responsibility Engineer in charge & workmen at job

PPEs to be used Helmet, Safety shoes, hand gloves, Ear plugs, Dust mask

Aspect-Impact

Oil spillage Land contamination, Resource Depletion

Used oil Land contamination, generation of hazardous waste

Used filter, hoses Resource depletion, generation of hazardous waste

Air Leakage  Air pollution

Noise Work environment

Hazards Identified

Mechanical Hazard Slip, fall and trap

Physical hazard Electric shock, Noise, Temperature

Chemical hazard Dust

Human behavior improper housekeeping, Non use of PPEs, Alcoholism

PRECHECKS

Take/ensure the work permit.

Take electrical shut down of the Air compressor.

Cooling water and air line isolation.

PROCEDURE

After getting clearance from operation department start removal of inter, after and oil cooler and also air filter.

All cooler fill with solution of water and sulphomic acid for two hours.

Flush the cooler and cooler line with fresh water.

After proper cleaning of cooler and flushing of line start the refitting of all cooler.

Remove the air filter, clean by air and install the same.

Check the oil level and oil contamination while draining of oil, if level found less top up the same.

Clean the entire equipment and remove all tool, waste from equipment surrounding areas.

Give the clearance for trail run.

During trail run top up oil level up to marked.

If trail run found satisfactorily then cancel the work permit by concerned engineer.

Note – New air compressor airline provision made to met an exigency for which training given to desk engineers.

Desk engineer has to ensure that MCD1 compressor remains in service and line charged from MCD air receiver to PP receiver. Only one isolation valve kept in closed condition near PP receiver and incase of any exigency operate this valve.