Job Description of Mechanical Engineer

**<Primary objective of position>**

* Maintain good conditions of mechanic critical equipment.
* Prepare and execute preventive and predictive mechanic maintenance plan.
* Conduct equipment failure analysis for Mechanic PM (Preventive Maintenance) plan.
* Review the specification and work scope of new equipment, and conduct QA (Quality Assurance) in case of new mechanical equipment purchasing.
* Review and implement facility upgrade or modification per MOC (Management Of Change) system.
* Prepare the list of the critical spare parts and make the plan of purchasing critical spare parts.

**<Key Responsibilities include>**

Core values

* + Maintain high standard core values (Kuraray Code of Conduct) in the organization.
  + Implement good safety, environmental and occupational health conditions based on site procedure and site program.
  + Maintain operation control per legal requirements.

Organization Enhancement

* + Maintain strong organization for high performance team and good team work at maintenance team.
  + Maintain good relationship with other functional team for strong organization team.
  + People development for skill and knowledge improvement.

Maintenance Reliability

* + Maintain good conditions of mechanic equipment through PM plan and execution.
  + Develop KPI target of UD (Unscheduled Downtime) loss and OEE (Operation Equipment Effectiveness) and make the plan of achievement of KPI target.
  + Conduct equipment failure analysis and develop the improvement plan.
  + Check and keep the history record of equipment maintenance works.
  + Review maintenance plan (weekly, monthly, annual plan) from work order, PM, production schedule.
  + Evaluate the critical spare parts and make the plan of purchasing.
  + Control the critical spare parts.

QA (Quality Assurance)

* + Define the design specification and work scope in case of purchasing new equipment.
  + Develop QA inspection report for purchasing new equipment.
  + Inspect and check the quality to confirm if new equipment meets the design specification before the acceptance of new equipment. Keep the documentation of inspection report for QA.
  + Develop the maintenance PM plan of new equipment based on the vendor’s recommendation.

Project

* + Participate in PHA (Process Hazard Analysis) review for the project.
  + Review and evaluate the project documentations (Equipment lay-out, foundation drawing, pipe ISO drawing, Pipe stress analysis, Equipment No, Equipment drawing, etc.)
  + Review and check the design specification and drawing of the equipment.
  + Review project schedule including (1) Defining the specification, (2) PO (Purchasing Order), (3) equipment delivery, (4) Drawing review & Inspection plan, (5) Installation plan, (6) Commissioning plan.
  + Conduct the PSSR (Pre-Safety Screen Review) before the start-up of new equipment.
  + Check the equipment performance based on commissioning plan.

Quality

* + Maintain high standard quality culture and performance.
  + Maintain work instruction for maintenance per IATF16949 requirements.
  + Keep the record of maintenance works.
  + Evaluate and implement environmental aspect, target, R&O at Maintenance group per ISO14001 requirements.
  + Participate in internal audit, management review for IATF16949, ISO14001.
  + Support the investigation of customer complaint and implement the improvement plan to prevent the complaint.
  + Develop and implement COTs (Critical Operation Task) and KPI (Key Performance Index) for maintenance group.

Asset management

* + Manage physical asset management at maintenance warehouse, die shop area (asset tag, annual cycle count per plan, write off process if disposal)
  + Make capital plan (including long term plan) of physical asset purchasing for maintenance.

**<Job Qualifications>**

* Bachelor degree in mechanical engineering or similar related degree.
* Minimum 5 years working experience as mechanical engineer.
* Good people relationship, good decision making, problem solving, strong analytical skills and self-directed.
* Computer skills – Microsoft office software and windows operating system.
* Verbal and written proficiency in English for global communications.

**<Preferred Qualifications>**

* + Preferred the experience in chemical process industries.
  + Demonstrated experience in ISO14001, IATF16949 system.
  + Capability of CAD drawing in computer
  + Participation of project as mechanical engineer or PM(project Manager)