

GSTIN No.: 06AAVPW8746Q1Z6,
PAN No.: AAVPW8746Q
TIN No.: 06821328889,
TAN no.: RTKKO3359G
IEC: 0509006116

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to meet
OSHA'S Lockout Tagout Standard
29 CFR, 1910.147&1910.269

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KRM Safetech Private Limited
QUALITY MANAGEMENT SYSTEM ISO QMS 9001:2015

GSTIN No.: 06AAECK2831L1ZI
PAN No.: AAECK2831L
TIN No.: 06824000112
CIN No.: U31903HR2011PTC042508
IEC: AAECK2831L

Telefax: 00 91 129 4021 381, 413 1381 (D)

KRM LOTO guidelines for LOCKOUT TAGOUT System to meet OSHA LOCKOUT/TAGOUT STANDARD, 29CFR 1910.47 & 1910.269

Introduction:

Many Industrial accidents / injuries are caused by **unexpected energization** or Startup of machines or equipment, or by an uncontrolled release of energy, during Their maintenance or repairs These incidents can be prevented by implementing a Proper **"KRM LOTO - LOCKOUT TAGOUT procedure"**. **KRM LOTO LOCKOUT TAGOUT System** is used to ensure that the energized machines or equipment are Isolated from all potentially hazardous energy sources , and isolation point locked Out before carrying out any repairs or maintenance activities, thus preventing Injuries. Any person upon observing a machine or equipment which is isolated and locked out shall not attempt to start energize, or use it.

Section 24 of Factories act requires that, when any device which can be inadvertently Shifted **from OFF to ON position**, is provided within a factory to cut off power arrangements shall be provided for locking the device in a safe position to prevent accidental starting of the transmission machinery or other machine to which the device is fitted



LOCKOUT HASP

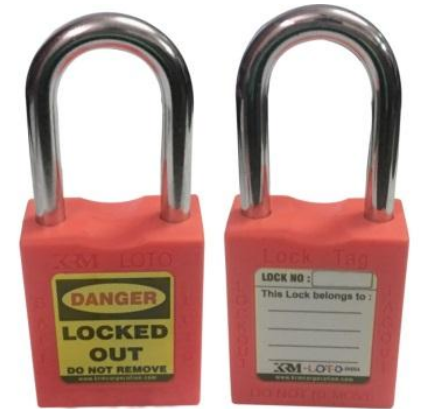


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Guidelines:

- a) All drives (Motor) shall be provided with separate local lockable isolators, to ensure safety of personnel required to work on these drives during preventive or breakdown maintenance.
- b) Lockout & Tag out procedure shall be established and implemented during inspection, cleaning, repair or maintenance of any plant, machinery or equipment, so that if inadvertently activated or energized will not cause any person
- c) Every person carrying out the work shall be fully instructed / trained on the lock out procedure applicable lock devices etc. before commencing the work.
- d) Unit shall identify all energy source & their isolation point and each point shall be fully given an identification number and a list of isolation point shall be maintained,

Typical Energy Sources Where isolation is required are;





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- i. Mechanical Energy Source: pumps, pulley, Gear & pinion, flywheel, prime movers, hoists, forklifts / stackers etc.
- ii. Electrical Energy Sources switchgears such as ACB, SFU's, MCB's, MCCB's etc., Motors, Generators, switch etc.
- iii. water: Gate Valves pumps etc.
- iv. Acid / ENA/ Blend lines: Control valves, Pumps etc.
- v. Compressed air: valves receiver tanks etc.
- vi. Steam : control / valves, isolation valves etc.
- vii. Gas : control / isolation valves etc.
- viii. Unit must ensure that all electrical isolators in the panel are provided with locking facilities .where the isolator does not have built-in locking facility, external locking facility should be provided.
- ix. The requirement of **KRM LOTO devices** (Type as shall no's) shall be assessed and adequate no's. of necessary devices shall be made available in the unit at all times. Refer section 4.0 for guidance on selection of **KRM LOTO devices**. All KRM LOTO devices shall be kept at easily accessible place & in custody of a responsible person.

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Procedure For KRM LOTO - LOCKOUT TAGOUT

- A. Manager responsible for the repair / maintenance shall ensure that only trained & authorized employee's carry out KRM LOTO
- B. Ensure a valid work permit is obtained prior to start of work (where applicable)
- C. Identify all energy isolation points such as power supply fuel, compressed air supply fuel supply gas supply etc. For that equipment / machine before locking out.
- D. Physically locate and turn the respective switches valves etc. to "OFF"/ Neutral" position and provide necessary KRM LOTO devices in such a way that they cannot be passed.
- E. Prior to starting work machines or equipment that have been locked after ensuring that no personnel are exposed, that the authorized person shall operated the push button or normal operating controls to verify that the appropriate equipment or machine has been de-energized & ,make certain it will not operate.
- F. If more than one person are required to work one the equipment under isolation each person shall put a separate lock on all isolating devices.
- G. A tag consisting of following information shall be fixed to each lock (please see sample tag)
 - a. Name & department of the person carrying out repair/ maintenance work.
 - b. Caution note written as "DANGER LOCKED OUT"
- H. After the serving and / or maintenance is completed authorized, person shall inspect the removed.
- I. Supervisor after ensuring that the work is complete, allows the authorized person to remove lockout devices & energizes the machine.



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KRM LOTO FOR LOCKING OF ISOLATORS



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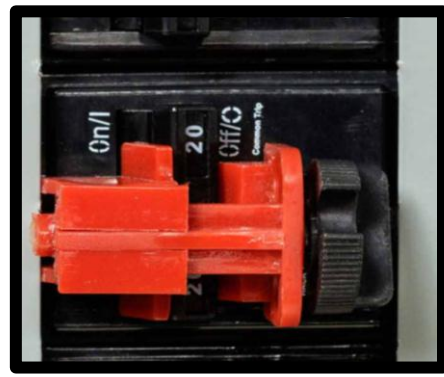
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KRM LOTO - CIRCUIT BREAKERS



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KRM LOTO - BREAKERS & FUSE LOCKOUT



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KRM LOTO - PUSH BUTTON LOCKOUT





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KRM LOTO - ELECTRICAL LOCKOUT



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KRM LOTO - MULTIPURPOSE INDUSTRIAL ELECTRICAL SAFETY LOCKOUT DEVICE

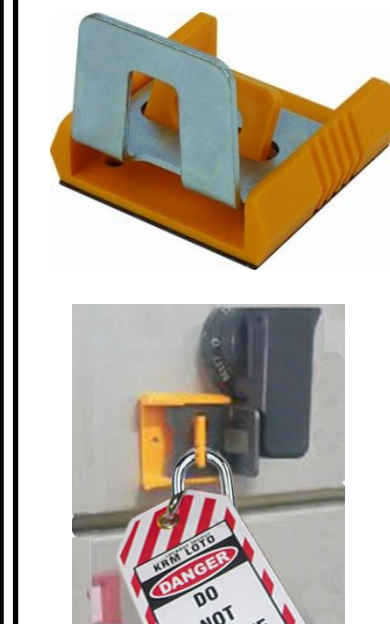
KRM-K-MIESLD-1



KRM-K-MIESLD-2



KRM-K-MIESLD-3



KRM-K-MIESLD-4



KRM-K-MIESLD-5





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KRM LOTO – AIR CIRCUIT BREAKER LOCKOUT

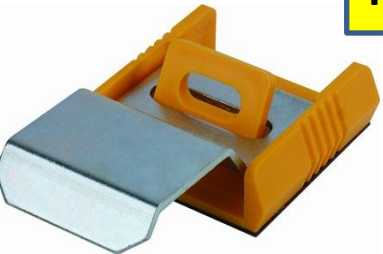


KRM-K-DEH-33

KRM-K-MIESLD-1

KRM-K-RSDEL

KRM-K-MIESLD-2



- ① DI-ELECTRIC HASP LOCKOUT SHACKLE THICKNESS 3 MM
- ② MULTIPURPOSE INDUSTRIAL ELECTRICAL PENAL LOCKOUT DEVICE (WITH BEND)
- ③ ROUND SHAPE DI-ELECTRIC LOCKOUT DEVICE
- ④ MULTIPURPOSE INDUSTRIAL ELECTRICAL PENAL LOCKOUT DEVICE (STATE)

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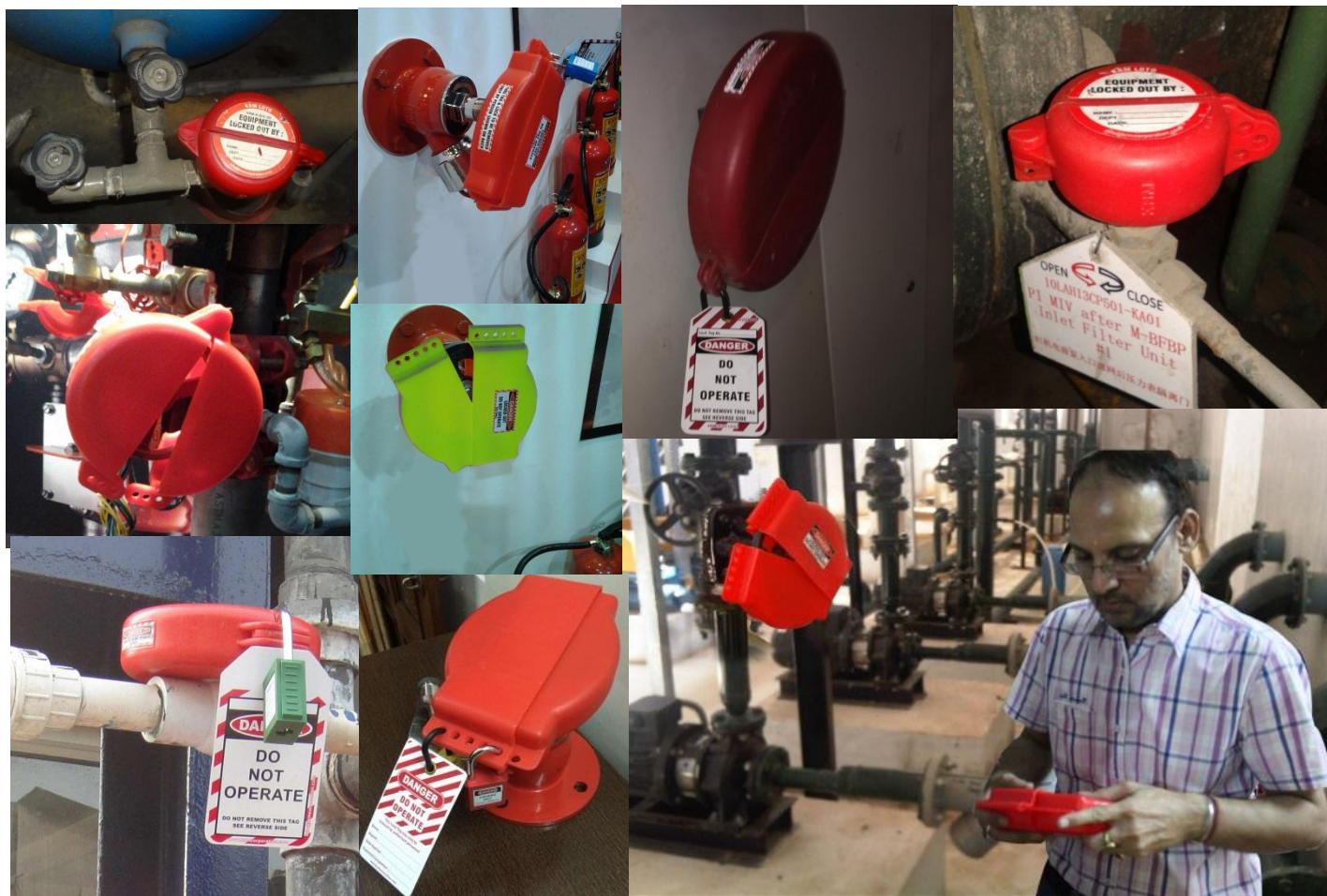
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KRM LOTO - GATE VALVE LOCKOUT



- KRM-K-GVL-02
- KRM-K-GVL-04
- KRM-K-GVL-06
- KRM-K-GVL-08
- KRM-K-GVL-10



KRM LOTO guidelines for LOCKOUT TAGOUT System to meet OSHA LOCKOUT/TAGOUT STANDARD, 29CFR 1910.47 & 1910.269

KRM LOTO - VALVE & BUTTERFLY LOCKOUT





KRM LOTO guidelines for LOCKOUT TAGOUT System to meet OSHA LOCKOUT/TAGOUT STANDARD, 29CFR 1910.47 & 1910.269

KRM LOTO - CABLE LOCKOUT



CABLE LOCKOUT

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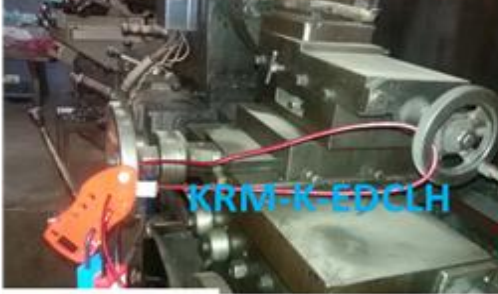
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