

**CERTIFICATE OF ELECTRICAL INSPECTION AND TESTING AT FLAMMABLE LIQUIDS & FUEL STORES FOR
EXISTING INSTALLATIONS IN AND ASSOCIATED WITH POTENTIALLY EXPLOSIVE ATMOSPHERES IN
ACCORDANCE WITH I.S EN 60079**

*Certificate only to be completed by persons that can demonstrate core competence in electrical works in hazardous areas as per
qualifications attached to this document*

CHECKLIST FOR INSPECTION OF AN ELECTRICAL INSTALLATION

| | |
|---|--|
| All emergency stop switches are correctly labelled and have red operators on yellow background | |
| An emergency stop switch is provided at every operating position | |
| An emergency stop switch is provided at each exit of the Autogas compound | |
| The autogas emergency stop switch(es) functions correctly | |
| Driver Controlled Delivery emergency stop switch functions correctly | |
| Firefighter's switch is at the correct height and functions correctly | |
| The public address (PA) system is operating correctly and is not disabled by the pump emergency stop system | |
| The tanker stand lighting is functioning correctly | |
| Fill points bonded to earth | |
| Vent pipes bonded to earth | |
| Earth electrode present | |
| Mains water bonded to earth | |
| Mains gas bonded to earth | |
| Doms switched through emergency stop system | |
| Ducts sealed correctly with correct sealant | |
| The emergency switch circuit cannot be re-energized other than by an authorized person | |
| No loose electrical connections, including those for earthing, bonding etc | |
| No loose fixings, glands, conduit, stoppers etc. | |
| No corrosion of enclosures, fixings, cable entries etc. | |
| No undue accumulation of dust, dirt or rubbish (leaves, paper etc.) | |
| No indication of fuel, oil or compound leakage | |
| explosion protection suitable for zone of installation | |
| correct circuit identification | |
| RCD protection has been provided for dispensers | |
| No overhead lines (e.g. HV and LV power and telephone lines) over or encroaching on hazardous areas | |
| No building opening extends into the hazardous area (including the zone around vent pipes) | |
| The zone around the vent pipes is free from electrical equipment including cables | |
| No part of the hazardous area extends beyond the forecourt perimeter (including the zone around vent pipes) | |
| Presence of test earth fault loop impedance socket-outlet adjacent to supply intake (non-hazardous area) | |
| Presence of lightning protection | |
| Labelling of circuits, protective devices, switches and terminals | |
| Main switchboard and distribution boards - circuit identification | |
| Evidence of general electrical periodic inspection report (non-hazardous areas) | |
| Evidence of emergency lighting reports | |
| Interceptor Alarm present and functioning correctly | |

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Date:

Contractor Name & Address

Occupant Name/Trading as:

Address:

Reg No.

Installation Approx. Age:

Reason For Inspection:

If Other please specify:

Extent of installation covered by this report:

N.B *Cables concealed within the fabric of the building, conduits and trunking or underground have not been inspected unless otherwise stated*

If Partial please state what part this report refers to:

Type of Earthing:

No. of Phases:

Frequency:

Voltages:

If earthing is TNC-S then please refer to 9.3.5, APEA/EI DESIGN, CONSTRUCTION, MODIFICATION, MAINTENANCE AND DECOMMISSIONING OF PETROL FILLING STATIONS 4th edition April 2018

L1

L1-L2

Prospective Short Circuit Current:

A

L2

L2-L3

Prospective Fault Current:

A

L3

L3-L1

External Earth Fault Loop Impedance Zs:

Ohms

Max. Earth Fault Loop Impedance Ze:

Ohms

Primary supply Overcurrent protective device:

TYPE:

RELEVANT EN STANDARD:

NOMINAL CURRENT RATING:

A

SHORT CIRCUIT CAPACITY:

kA

Main Switch or Circuit Breaker:

VOLTAGE RATING:

V

CURRENT RATING:

A

RCD RATED OPERATING CURRENT:

mA

OPERATING TIME:

ms

Test Instrument Serial Numbers

Site Documentation to be attached

Continuity Tester:

Hazardous area classification I.S EN 60079-10-1/2

Insulation Resistance Tester:

Equipment group, category and temperature class

Loop Impedance Tester:

Sufficient records to enable the explosion protected equipment to be maintained in accordance with it's type of protection

Installation drawings as required by IS 10101

Combination Tester:

Inventory of explosion protected equipment

Descriptive system document for intrinsically safe circuits (if applicable)

Any other documentation required by statute

HAZARDOUS AREA CIRCUITS TESTED

Circuit Description: Labelled correctly:

No. of Phases: Wiring Type: Conductors CSA: Multi-pole Isolation:

OVERCURRENT PROTECTIVE DEVICE:

EN Standard: Type: Rating: A Short Circuit Capacity: kA

Maximum permissible earth fault loop impedance Z_L : Ω Circuit Impedance (R1+R2) : Ω

INSULATION RESISTANCE:

Phase-Phase $M\Omega$ Phase-Neutral $M\Omega$ Phase-Earth $M\Omega$ Neutral-Earth $M\Omega$

Polarity: Maximum measured earth fault loop impedance: Ω

Functionally checked as per IS 10101

Phase sequence and motor rotation check as per IS 10101

Circuit Description: Labelled correctly:

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OVERCURRENT PROTECTIVE DEVICE:

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Labelled correctly:

No. of Phases:

Wiring Type:

Conductors CSA:

Multi-pole Isolation:

OVERCURRENT PROTECTIVE DEVICE:

EN Standard:

Type:

Rating:

A

Short Circuit Capacity:

kA

Maximum permissible earth fault loop impedance Z_L :

Ω

Circuit Impedance (R1 + R2) :

Ω

INSULATION RESISTANCE:

Phase-Phase

M Ω

Phase-Neutral

M Ω

Phase-Earth

M Ω

Neutral-Earth

M Ω

Polarity:

Maximum measured earth fault loop impedance:

Ω

per IS 10101

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Labelled correctly:

No. of Phases:

Wiring Type:

Conductors CSA:

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OVERCURRENT PROTECTIVE DEVICE:

EN Standard:

Type:

Rating:

A

Short Circuit Capacity:

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Maximum permissible earth fault loop impedance Z_L :

Ω

Circuit Impedance (R1 + R2) :

Ω

INSULATION RESISTANCE:

Phase-Phase

M Ω

Phase-Neutral

M Ω

Phase-Earth

M Ω

Neutral-Earth

M Ω

Polarity:

Maximum measured earth fault loop impedance:

Ω

per IS 10101

| Observations and recommendations including timeframe for completion of remedial action: | Recommendation as detailed below |
|---|----------------------------------|
| No remedial works required | |
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One of the following numbers, as appropriate is allocated to each of the observations made above to indicate to the person(s) responsible for the installation the action recommended.

- (1) REQUIRES URGENT ATTENTION (2) REQUIRES IMPROVEMENTS (3) REQUIRES SOME ATTENTION**
- (4) DOES NOT COMPLY WITH CURRENT NATIONAL RULES FOR ELECTRICAL INSTALLATIONS IN POTENTIALLY EXPLOSIVE ATMOSPHERSES***

**This does not necessarily imply that the electrical installation inspected is unsafe*

OVERALL ASSESSMENT:

Name of Tester:

Qualifications:

Date of Inspection:

Report Date:

Recommended date for next inspection:

Signature of Inspector:

Certification of Qualifications

***Proof of core competence for working in hazardous
areas e.g. Compex 07/08***

please attach documentation here