



employment & labour

Department:
Employment and Labour
REPUBLIC OF SOUTH AFRICA

APPROVED INSPECTION AUTHORITY No: CI 0015 EIR



INSPECTION OF ELECTRICAL AND INSTRUMENTATION EQUIPMENT IN HAZARDOUS AREA



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What is a HAZARDOUS AREA

Hazardous areas, such as industrial environments where

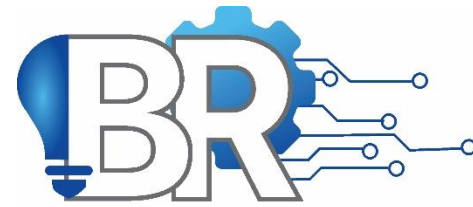
- flammable gases,
- vapors, or
- combustible dust are present,



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Metal Dust Explosion





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Pharmaceutical Factory in India



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Chemical Factory

Durban South Africa





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PURPOSE OF INSPECTION OF EQUIPMENT IN HAZARDOUS AREAS

- Protect human life,
- Maintain system integrity,
- Ensure compliance with regulations,
- Minimize the risk of accidents,
- Minimize downtime, and
- Minimize operational inefficiencies.



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Types of Inspection

- Initial Inspection
- Periodic Inspection
 - Visual Inspection
 - Close-up Inspection
 - Detail Inspection
- Sample Inspections



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ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

9. (1) Every employer or user shall **identify** all hazardous locations and **classify** them in accordance with the relevant health and safety standard incorporated into these Regulations under section 44 of the Act.

1. FOR ALL DECK MODULES T.O.S EL. 104-300 (4.3 METERS ABOVE CARGO DECK, AT CENTRELINE EL. +100,000).

2. THE HAZARDOUS AREA CLASSIFICATION HAS BEEN DEFINED IN ACCORDANCE WITH COMPANY GENERAL SPECIFICATION AREA CLASSIFICATION (DOC. NO. GS-EP-SAF-216), P CODE 15 DIRECTIVE, GENERAL PRINCIPLES FOR A F(P)SD DESIGN (DOC. NO. GS-EP-STR-651) AND IEC 60082-502.

3. HAZARDOUS RADI ARE DOCUMENTED IN HAZARDOUS AREA CLASSIFICATION SCHEDULE (DOC. NO. LUF 36013 / NO-045-FG-103-100012).

4. ALL EQUIPMENT SHALL BE APPROPRIATELY CERTIFIED FOR THE HAZARDOUS AREA ZONE IN WHICH IT IS LOCATED. ALL TOPSIDES ELECTRICAL EQUIPMENT LOCATED OUTDOORS SHALL BE CERTIFIED FOR ZONE 2, GAS GROUP IA, TEMPERATURE CLASS 3 AS A MINIMUM. MAXIMUM SURFACE TEMPERATURES SHALL NOT EXCEED 200°C. ALL EXTERNAL ELECTRICAL AND INSTRUMENTATION EQUIPMENT REQUIRED TO OPERATE UNDER EMERGENCY CONDITIONS SHALL BE CERTIFIED FOR ZONE 1 OPERATION.

5. ALL INSTRUMENTATION EQUIPMENT SHALL BE CERTIFIED FOR ZONE 1, GAS GROUP IA, AND TEMPERATURE CLASS T3.

6. ELECTRICAL EQUIPMENT IN THE BATTERY ROOM SHALL BE CLASSIFIED FOR USE IN THE PRESENCE OF HYDROGEN. THE BATTERY ROOM RATING IS ZONE 1 AND GAS GROUP IIC.

7. A 3M ZONE 2 HAZARDOUS AREA IS GENERATED BY ELECTROCHORINATION UNIT VENT.

8. ALL HAZARDOUS VENTS TO BE ROUTED AWAY FROM POSSIBLE SOURCES OF IGNITION AND AIR INTAKES TO BE LOCATED 3M (MIN) OUTSIDE HAZARDOUS AREA.

9. ~~DELETED~~

10. A 3M ZONE 2 HAZARDOUS AREA IS GENERATED AROUND FLANGE ON FUEL GAS SUPPLY LINE TO INERT GAS GENERATOR PACKAGE.

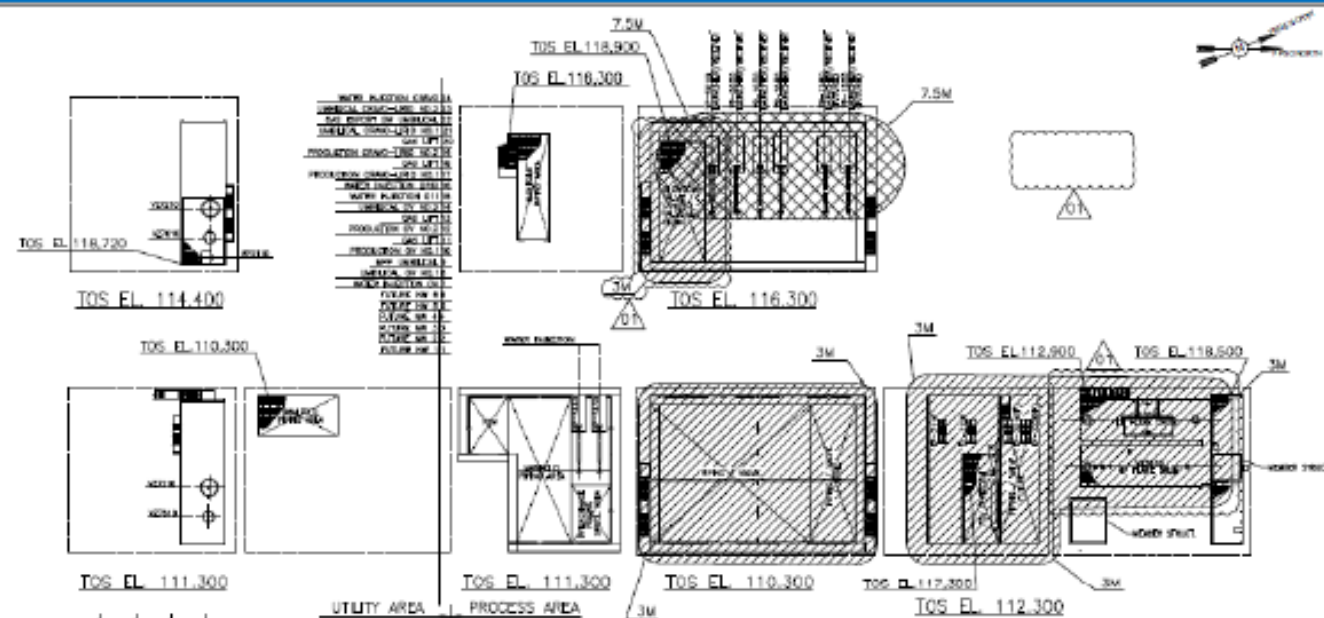
11. A 3M ZONE 2 HAZARDOUS AREA IS GENERATED AROUND VALVES/ FLANGES WITHIN HELIFUEL PACKAGE.

12. A 3M ZONE 2 HAZARDOUS AREA IS GENERATED AROUND VALVES/ FLANGES OF DIESEL FILTERS.

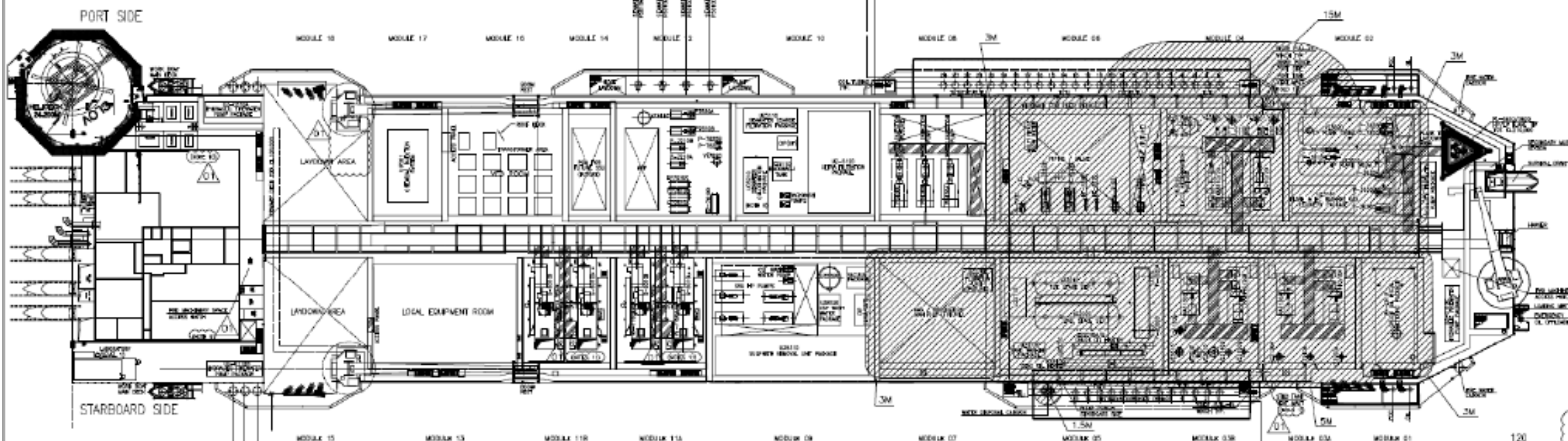
HOLDS

1. HAZARDOUS RADIUS FOR CARGO TANK VENTS TO BE DETERMINED DURING DETAILED ENGINEERING BASED ON GAS DISPERSION CALCULATIONS.

104



MOD. / SER. NO.
MODULE 1
MODULE 2
MODULE 3A
MODULE 3B
MODULE 4
MODULE 5
MODULE 6
MODULE 7
MODULE 8
MODULE 9
MODULE 10
MODULE 11A
MODULE 11B
MODULE 12
MODULE 13
MODULE 14
MODULE 15
MODULE 16
MODULE 17
MODULE 18
DECK LEVEL





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ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

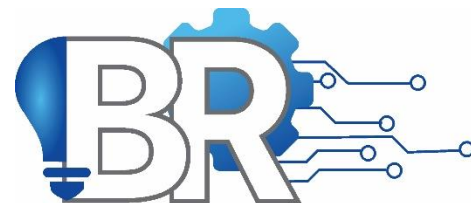
(2) No person may use **electrical machinery** in locations where there is **danger of fire or explosion** owing to the presence, occurrence or development of explosive or flammable articles, or where explosive articles are manufactured, handled or stored, unless such electrical machinery, with regard to its construction relating to the classification of the hazardous locations in which it is to be used, **meets the requirements of the safety standard** incorporated for this purpose in these Regulations under section 44 of the Act.



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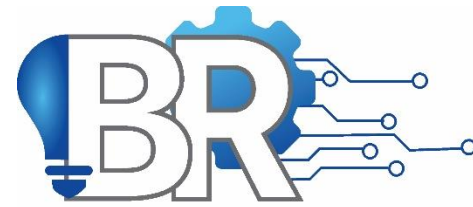




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ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

(3) Every employer or user referred to in sub regulation (1) shall be in possession of a **certificate in a form acceptable to the chief inspector**, which has been issued by an approved inspection authority and in which it is **certified** that the electrical - machinery referred to in sub-regulation (2) has been **manufactured and tested** for the groups of dangerous articles in accordance with the relevant health and safety standard incorporated into these Regulations under section 44 of the Act: Provided that in lieu of such certificate an inspector may approve permanent labelling on such machinery, which label shall contain all the relevant information.



Delba Electrical Co. 1980 (Pty) Ltd.

Registration Number 1980/001322/07
91 Butler Road, Nuffield Springs, Gauteng – South Africa
PO Box 901, Springs 1560 – South Africa
Tel: (011) 818 5955 Fax: (011) 363 1237
E-mail: info@delba.co.za

REPORT OF COMPLIANCE

Ex d Manufacture / Repair SANS 60079-0/1 Permit No: EXD-02MR	
--	--

DIP Convert SANS 61241-1-1 Permit No: DIP-01C	
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Ex n Convert SANS 60079-0/15 Permit No: EXN-01C	
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Date:	15 October 2013
Job No:	130875

DELBA ELECTRICAL Co. 1980 (Pty) Ltd. hereby confirms that the motor described hereunder was repaired / converted in accordance with the requirements of the pertinent SANS Specification in terms of our Ex permits as shown above.

INDEMNITY: DELBA ELECTRICAL Co. 1980 (Pty) Ltd. shall hereby be held harmless from any causes of action, arising directly or indirectly from the incorrect use, omissions or negligence of the Purchaser in connection with or arising out of the testing, application, operation, replacement, modification or further repair (other than further repairs carried out by DELBA ELECTRICAL Co. 1980 (Pty) Ltd.) of the motor described hereunder.

Ex Rating:	Ex t	Temp. Class:	T3	Group:	III	Zone:	22
Customer:	Outotec (RSA) (Pty) Ltd						
kW / HP:	3 kW SEW MOTOR						
Voltage:	400						
Amps:	6.3						
Speed (RPM):	1400						
Frame:	DV100L4 TEFC FLG						
Mounting:	FLANGE						
Serial number:	2301021096030001.11.31						
Customer number:							
I/A Number:	S-XPL/13.1177						

NOTE! The end user must fit external over-temperature protection to the motor!

Signature:
Flameproof Inspector

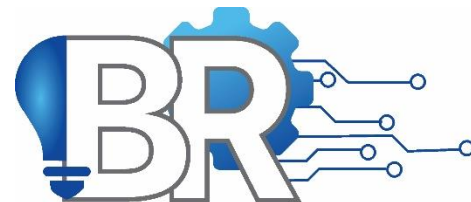
Print Name: T . ABEL
Flameproof Inspector



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ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

(4) When diverse items of electrical machinery such as **motors, cables and control apparatus** are used **together to form a system**, the employer or user shall ensure that the selection, arrangement, installation, protection, maintenance and working of the system results in **no less a degree of safety than when the individual items** of such machinery are used separately.



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ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

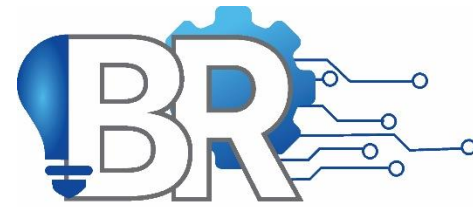
(5) The employer or **user shall** use electrical machinery to which this regulation applies **only under such conditions** and in such surroundings **as prescribed** in the health and safety standard referred to in sub-regulation (2).



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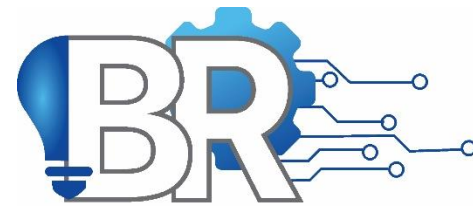




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ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

(6) No employer or user shall **effect repairs** or adjustments to **or otherwise work on** electrical machinery under conditions envisaged by sub regulation (2) **unless** such machinery has been **rendered dead and effective measures have been taken to ensure that such machinery remains dead.**



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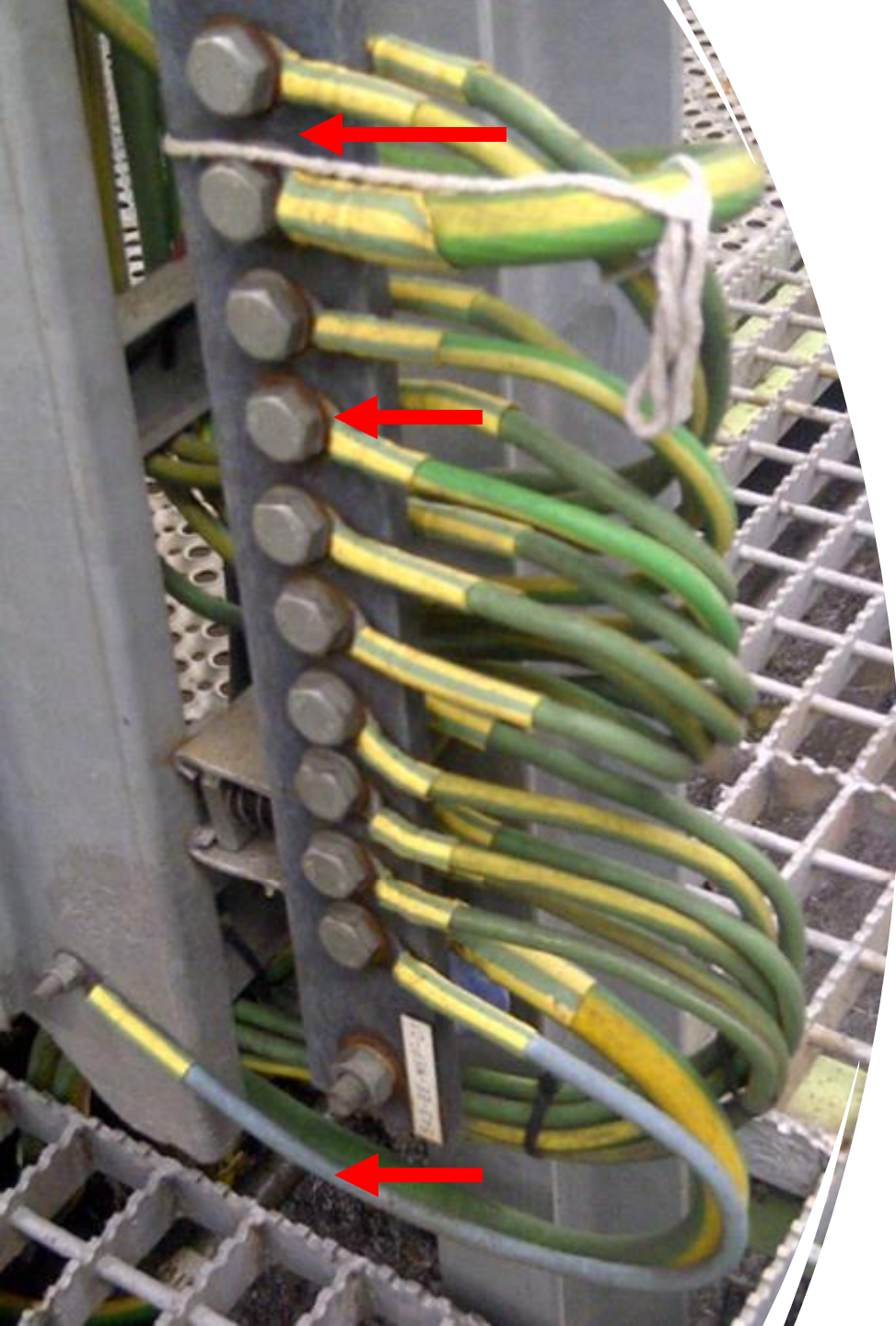


ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

(7) Wherever there is **a possibility of the formation of static electricity** under working conditions, the employer or user **shall earth** all metallic structures, machine parts, pneumatic conveyor ducts and pipelines conveying flammable articles and the like, or **take such other measures as may be necessary to prevent the formation of electric sparks.**

EARTHING AND BONDING



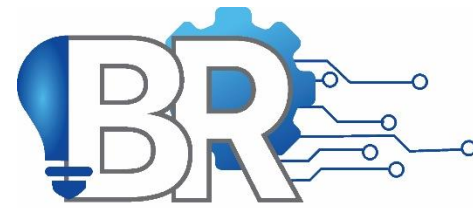
- Purpose of
 - Earthing – to take the fault / stray currents away to earth
 - Bonding – to get all metal parts on the same potential to prevent arcing and sparking between different parts
 - Earth bar oxidized
 - Corrosion due to incompatible metals
 - Earth conductor to be Green/yellow or bear copper



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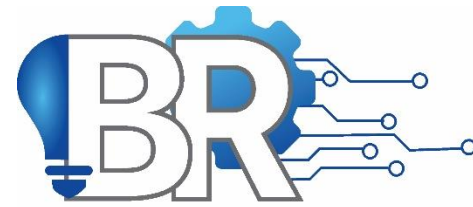




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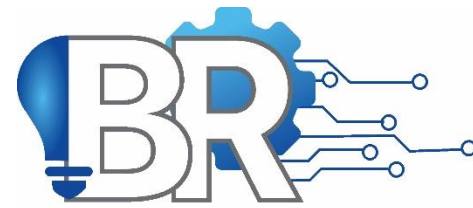




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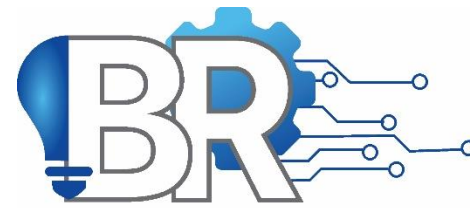
(8) The employer or user shall cause all electrical machinery in a hazardous location to be **visually inspected and tested at intervals not exceeding two years**, or any other interval approved by the chief inspector after a risk assessment has been conducted by a person who is competent to express an opinion on the safety thereof: Provided that installed intrinsically safe equipment may in lieu of a test be verified in terms of the approved design.



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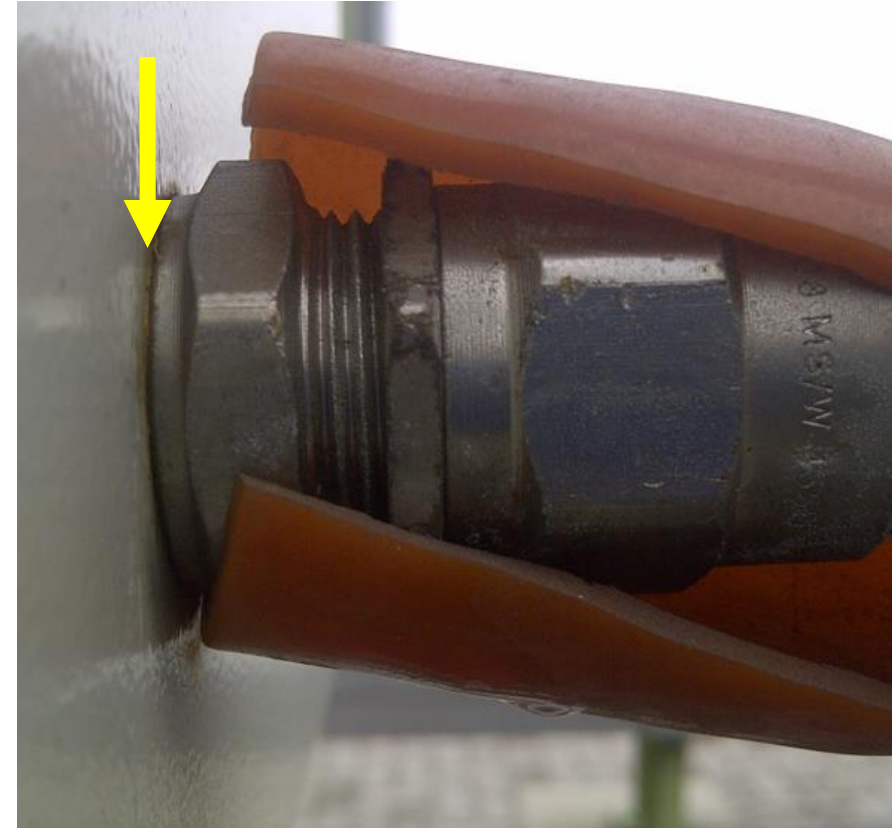
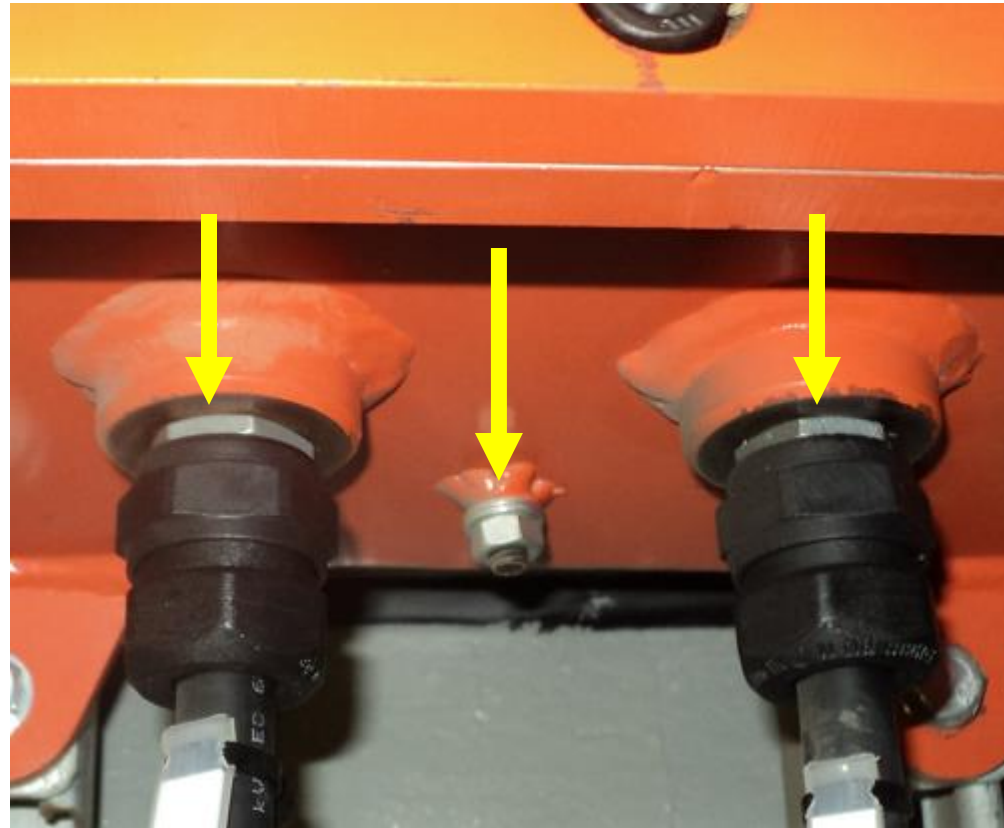
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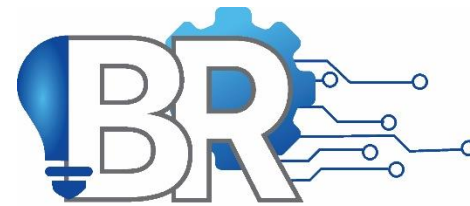




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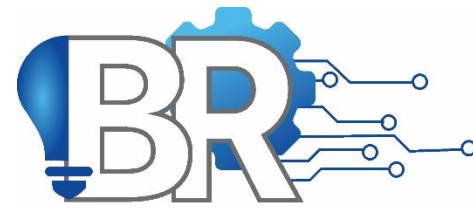




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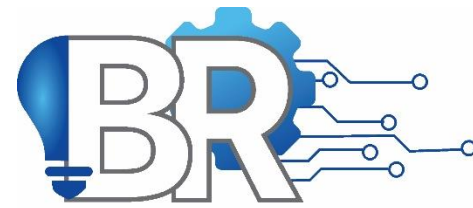




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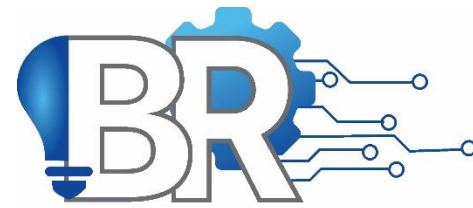




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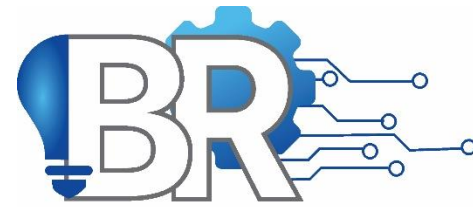




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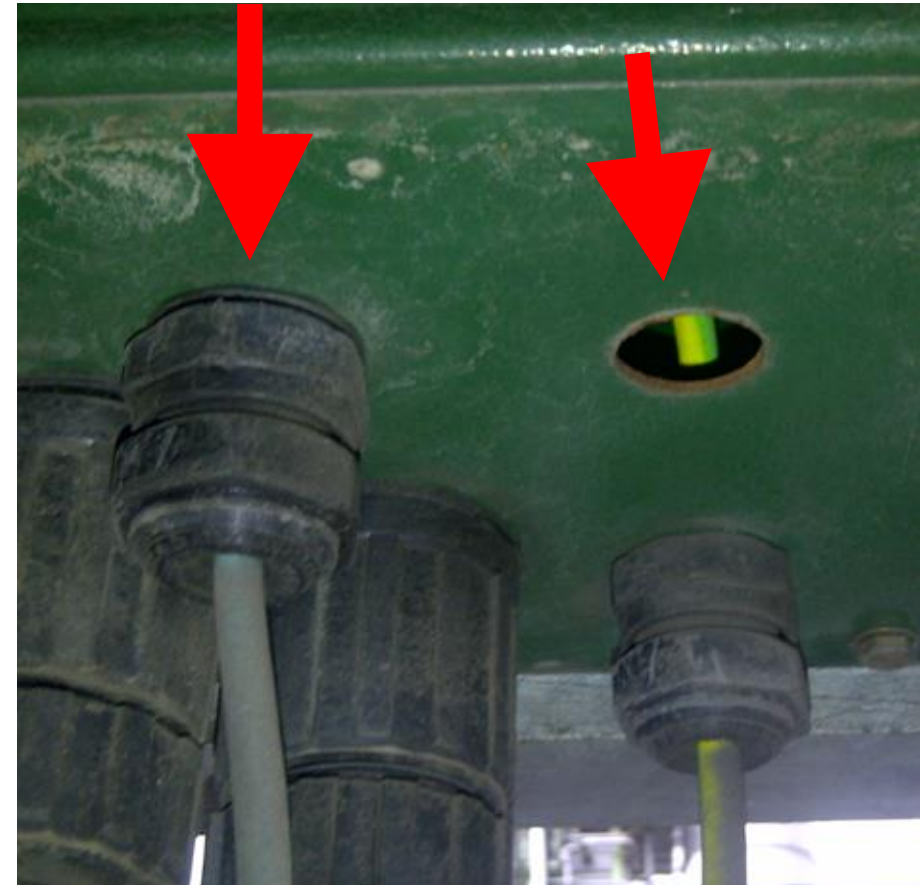
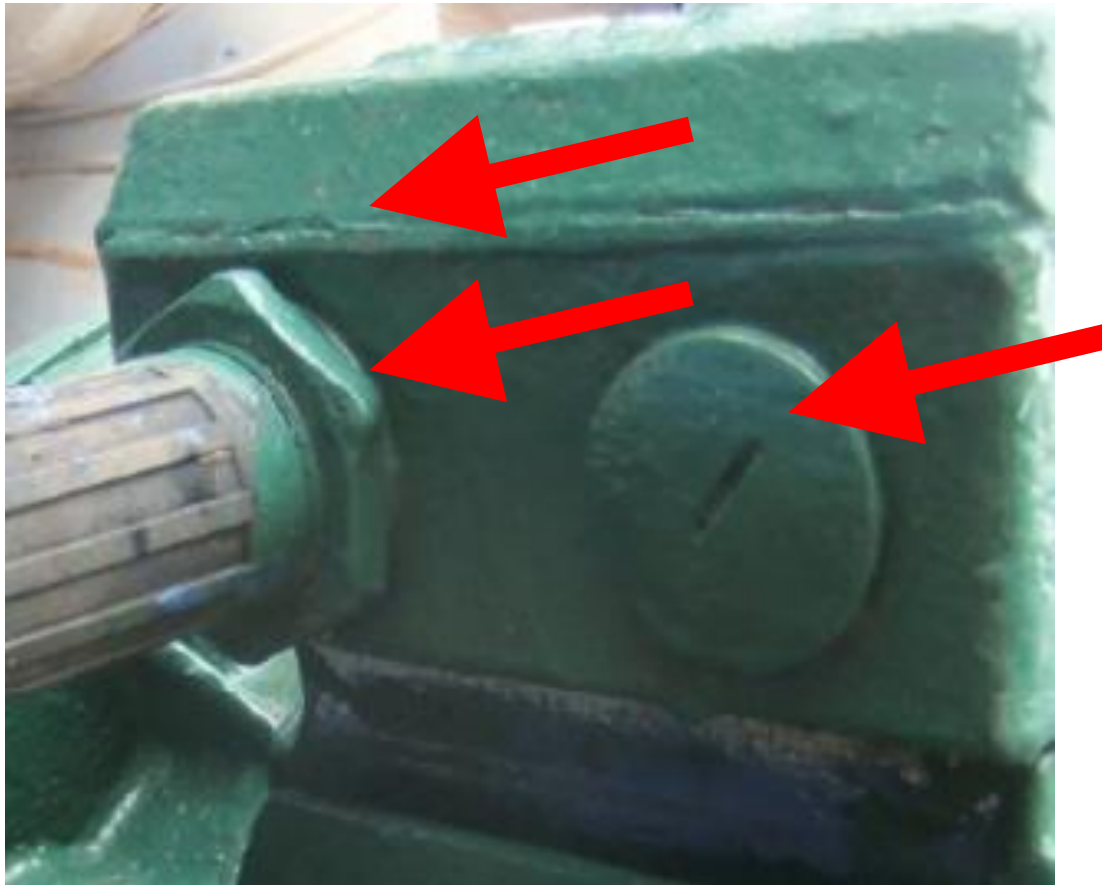
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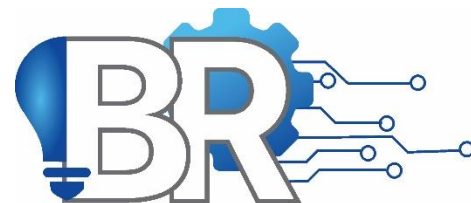




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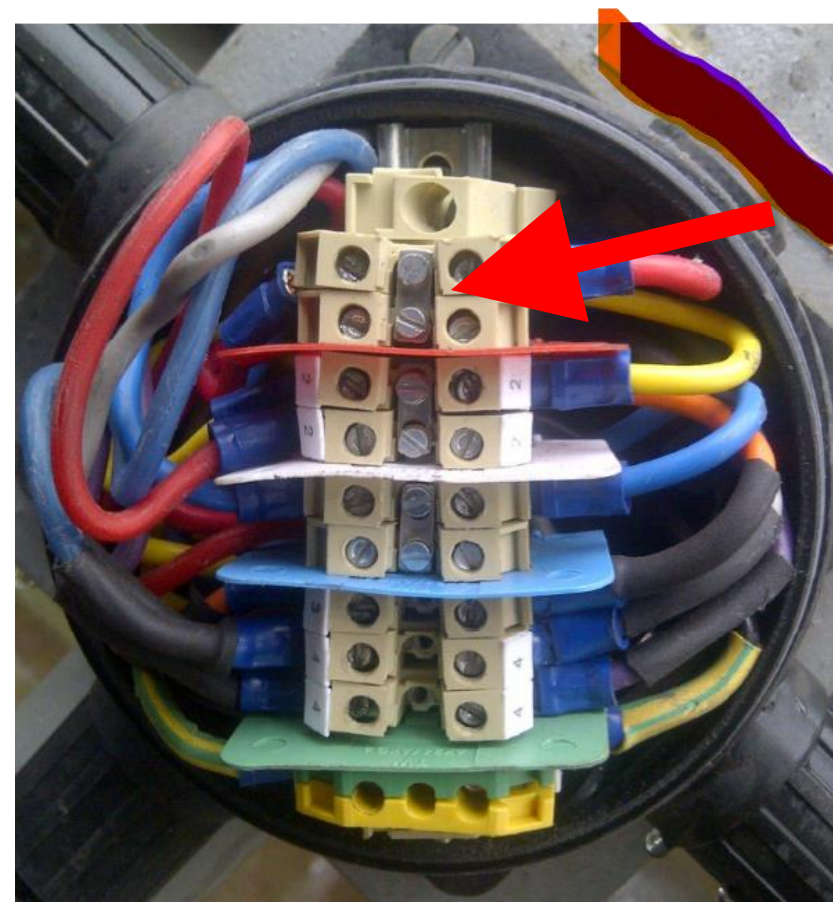
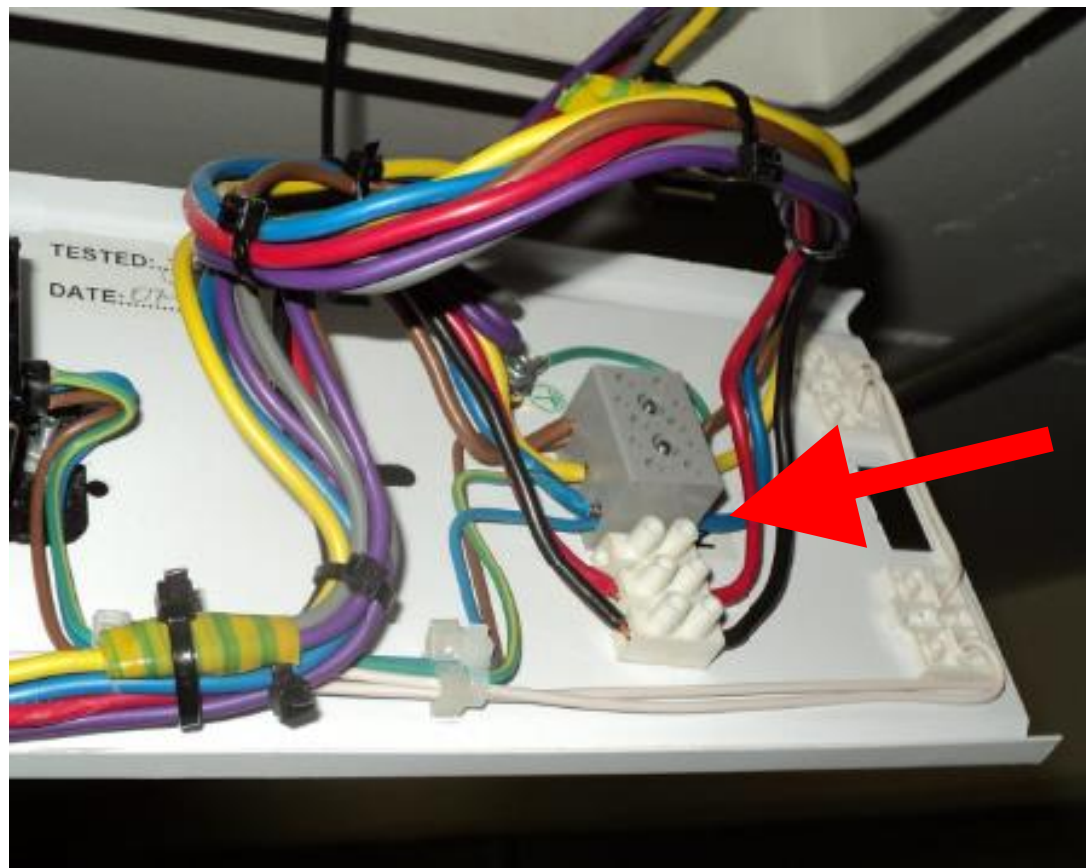
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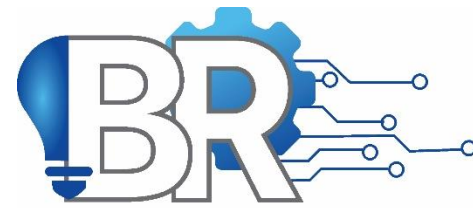




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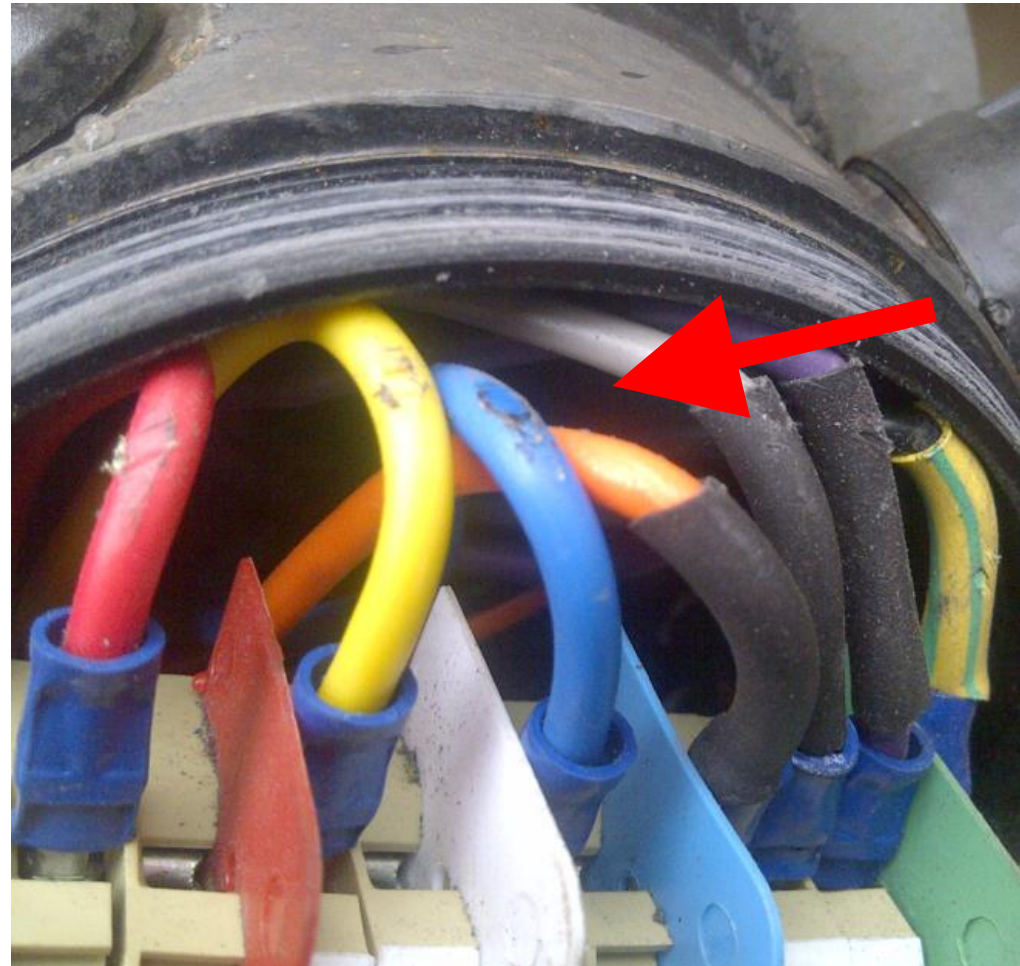
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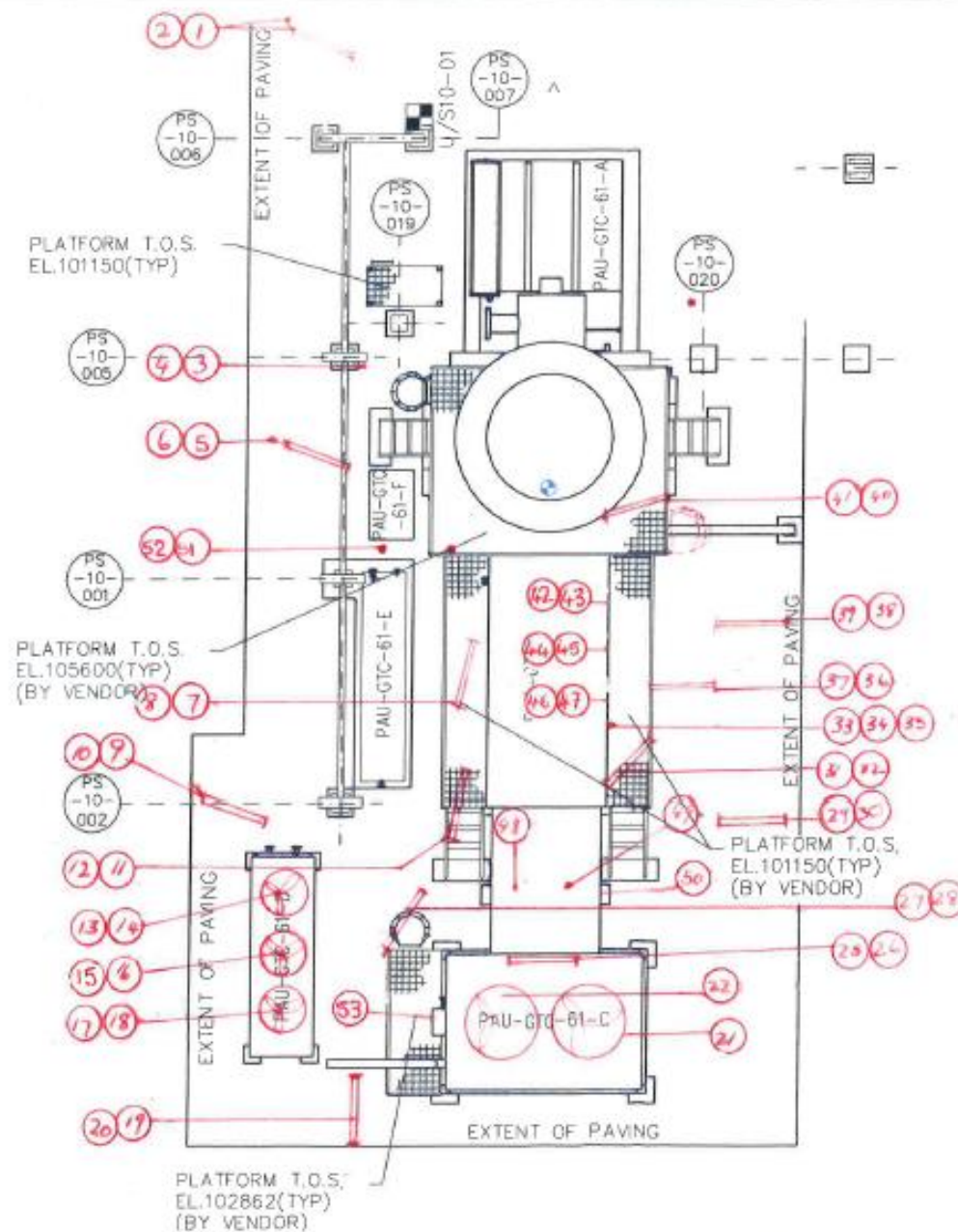
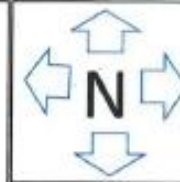
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ELECTRICAL MACHINERY REGULATIONS, 2011

Electrical machinery in hazardous locations

(9) The person carrying out the examination referred to in sub-regulation (8) **shall enter, sign and date** the results of each examination **in a record book** which shall be kept by the employer or user for this purpose.



Notes:

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- The information contained in this drawing is without consideration other than the agreement between SASOL and Bravo Scan and shall not be reproduced, copied, lent or disposed of directly or indirectly, nor used for any purpose other than that for which it is specifically furnished.



ASBUILT

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02

NAME:

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DATE:

15/03/2024



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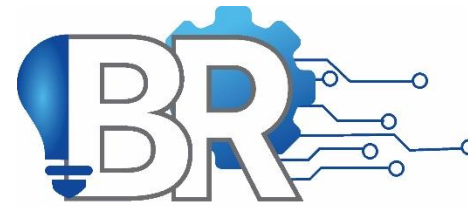
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BRZIMAX - T/A BRAYO SCAN
2811/180652/23
Lifealgie Crafter Est 22
Corner Jan Sluis and Mauer
Springs
082 582 4851
admin@brayoscan.co.za



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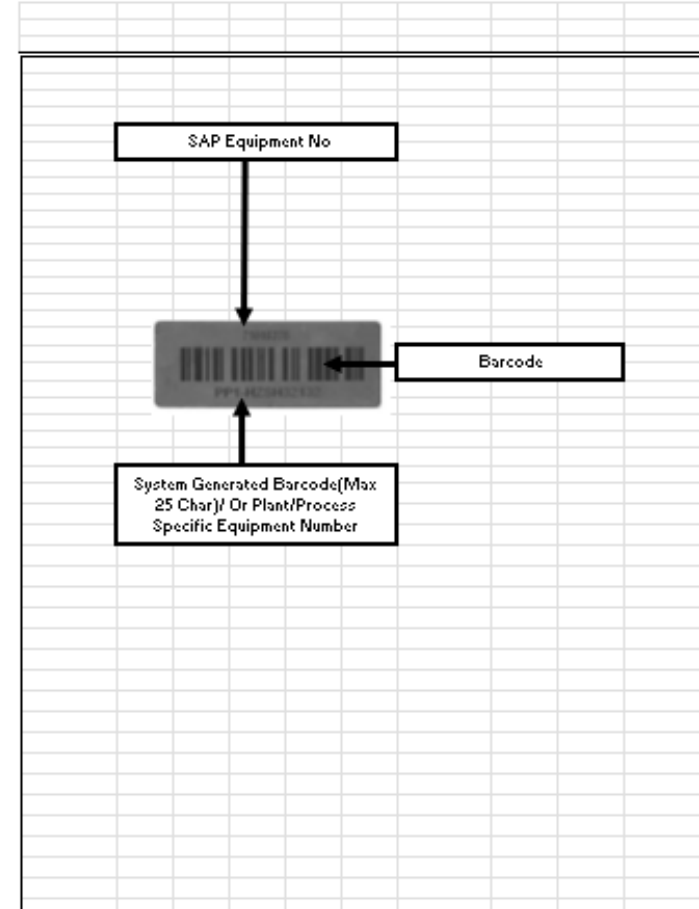
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CLIENT:	DIVISION:
PROJECT:	BUSINESS UNIT:
PROJECT #:	UNIT:

Barcode Naming Convention	
Intelligence built into the barcode	
Unit Number	The Plant or Physical location group number/Identifier as provided by the Client.
Discipline	Equipment Discipline or Monitoring.
Drawing No.	Drawing or sketch number.
Structure	This indicator is to indicate where or on what the equipment was installed/What type of i.e. Structure, Vessel, Drums, Tanks, Lifts etc.
Level	The geographic level of the equipment from grade level (Ground) e.g. Ground, Level B1 or Level B2.
Equipment No.	A sequential numeric number is allocated to each piece of equipment. This number corresponds with the sequential number allocated to the piece of equipment when the equipment was Mapped.



PROJECT:	Operations Data Integrity Assurance					
CLIENT:			DIVISION:			UNIT No: OPF
PROJECT No:			BUSINESS UNIT NAME:			DISCIPLINE: ELECTRICAL
CONTRACT No:			UNIT NAME:			DATE: 01/09/2023

CREATE - Bravoscan Barcode Label Report

BU SHE	SEQUENCE NUMBER	Bravoscan ABBI	ITEM DESCRIPTION	TECHNICAL ID (Arper Plant)	EQUIPMENT NO- Revised for Label Printing	TECHNICAL LENGTH	BARCODE	BARCODE LENGTH	Notes
041-01	001	CB	CONNECTION BOX	380-DB02-R45-JB17		0	041-EE-CB01-STGR-001	20	Create BBC
041-01	002	FL	FLUORESCENT LIGHT FITTING	380-DB02-R45-L17		0	041-EE-FL01-STGR-002	20	Create BBC
041-01	003	CB	CONNECTION BOX	380-DB02-R45-JB18		0	041-EE-CB01-STGR-003	20	Create BBC
041-01	004	FL	FLUORESCENT LIGHT FITTING	380-DB02-R45-L18		0	041-EE-FL01-STGR-004	20	Create BBC
041-01	005	CB	CONNECTION BOX	380-DB02-R45-JB16		0	041-EE-CB01-STGR-005	20	Create BBC
041-01	006	FL	FLUORESCENT LIGHT FITTING	380-DB02-R45-L16		0	041-EE-FL01-STGR-006	20	Create BBC
041-01	017	MO	MOTOR	KC-4101A		0	041-EE-M001-STGR-017	20	Create BBC
041-01	018	MO	MOTOR	KC-4101B		0	041-EE-M001-STGR-018	20	Create BBC
041-01	021	CS	CONTROL STATION	PR-4101		0	041-EE-CS01-STGR-021	20	Create BBC
041-01	023	CS	CONTROL STATION	PR-4102		0	041-EE-CS01-STGR-023	20	Create BBC
041-01	024	MO	MOTOR	PR-4102		0	041-EE-M001-STGR-024	20	Create BBC
041-01	029	MO	MOTOR	PR-4101A		0	041-EE-M001-STGR-029	20	Create BBC
041-01	030	CS	CONTROL STATION	PR-4191A		0	041-EE-CS01-STGR-030	20	Create BBC
041-01	031	MO	MOTOR	PR-4101B		0	041-EE-M001-STGR-031	20	Create BBC
041-01	032	CS	CONTROL STATION	PR-4101B		0	041-EE-CS01-STGR-032	20	Create BBC
042-01	001	FL	FLUORESCENT LIGHT FITTING	380-DB02-B44-L17		0	042-EE-FL01-STGR-001	20	Create BBC
042-01	002	CB	CONNECTION BOX	380-DB02-B44-JB17		0	042-EE-CB01-STGR-002	20	Create BBC
042-01	003	FL	FLUORESCENT LIGHT FITTING	380-DB02-B44-L18		0	042-EE-FL01-STGR-003	20	Create BBC
042-01	004	CB	CONNECTION BOX	380-DB02-B44-JB18		0	042-EE-CB01-STGR-004	20	Create BBC
042-01	005	FL	FLUORESCENT LIGHT FITTING	380-DB02-B44-L16		0	042-EE-FL01-STGR-005	20	Create BBC
042-01	006	CB	CONNECTION BOX	380-DB02-B44-JB16		0	042-EE-CB01-STGR-006	20	Create BBC
042-01	007	CB	CONNECTION BOX	380-DB02-B44-JB01		0	042-EE-CB01-STGR-007	20	Create BBC
042-01	017	MO	MOTOR	KC-4201A		0	042-EE-M001-STGR-017	20	Create BBC
042-01	018	MO	MOTOR	KC-4201B		0	042-EE-M001-STGR-018	20	Create BBC
042-01	021	CS	CONTROL STATION	PR-4204		0	042-EE-CS01-STGR-021	20	Create BBC
042-01	022	MO	MOTOR	PR-4204		0	042-EE-M001-STGR-022	20	Create BBC

Item Name	Barcode	Start Date	Question	Inspection Type	Status	Answer
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Equipment is appropriate to classification.	Visual (Classified)	Complete	Yes
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Enclosure glasses and glass-to-metal sealing gaskets or compounds (or both) are satisfactory?	Visual (Classified)	Complete	Yes
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Are there any visible unauthorized modifications?	Visual (Classified)	Complete	No
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Are all cover bolts present and tight?	Visual (Classified)	Complete	Yes
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Are all cable, glands, blanking elements secure and of the correct type?	Visual (Classified)	Complete	Yes
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Is enclosure and cover in good condition?	Visual (Classified)	Complete	Yes
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Is there any obvious damage to the cables?	Visual (Classified)	Complete	No
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Is the Sealing of trunking, ducts, pipes and/or conduits of satisfactory condition ?	Visual (Classified)	Complete	Yes
CONNECTION BOX-U024-SH18-ST-01	024-EE-CB18-ST01-044	2025/02/17 07:00	Earthing connections, including any supplementary earthing bonding, are of sufficient cross-section?	Visual (Classified)	Complete	Yes



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PURPOSE OF INSPECTION OF EQUIPMENT IN HAZARDOUS AREAS

- Protect human life,
- Maintain system integrity,
- Ensure compliance with regulations,
- Minimize the risk of accidents,
- Minimize downtime, and
- Minimize operational inefficiencies.



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No. 85 of 1993: Occupational Health and Safety Act

8. General duties of employers to their employees

- (1) Every employer **shall provide** and maintain, as far as is reasonably practicable, a **working environment that is safe and without risk** to the health of his employees.
- (2) Without derogating from the generality of an employer's duties under subsection (1), the matters to which those duties refer include in particular-
 - (a) the provision and **maintenance of systems** of **work, plant and machinery** that, as far as is reasonably practicable, are **safe and without risks** to health;
 - (b) taking such **steps** as may be reasonably practicable to **eliminate or mitigate** any hazard or potential hazard to the safety



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9. General duties of employers and self-employed persons to persons other than their employees

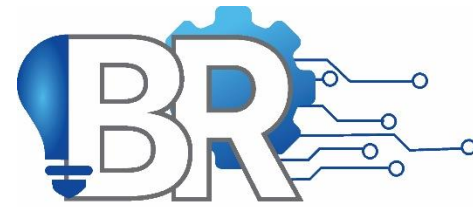
- (1) Every employer **shall conduct his undertaking** in such a manner as to ensure, as far as is reasonably practicable, that **persons other than those in his employment** who may be directly affected by his activities **are not** thereby **exposed to hazards** to their health or safety.
- (2) Every self-employed person **shall conduct his undertaking** in such a manner as to ensure, as far as is reasonably practicable, that **he and other persons** who may be directly affected by his activities **are not** thereby **exposed to hazards** to their health or safety.



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Metal Dust Explosion





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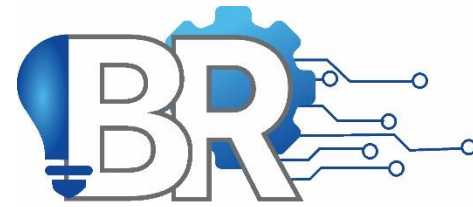
Pharmaceutical Factory in India



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Chemical Factory

Durban South Africa





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- **Approved Inspection Authority for Electrical Installations (AIA)**

Technical - Koos Coetzee

(+27) 82 884 6695

(Also available on WhatsApp)

koos@bravoscan.co.za

Legal Ruan Coetzee

(+27) 74 800 4278

(Also available on WhatsApp)

ruan@bravoscan.co.za

Office

(+27) 60 543 1972

(+27) 82 902 4851

admin@bravoscan.co.za