

 Eskom	Instruction	Hendrina Power Station
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Title: **Supply and Deliver Signs, As and When Required Scope of Work**

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1. Introduction

The Occupational Health and Safety Act, Act 85 of 1993 and its regulations require the employer to ensure that safety symbolic signs are provided and maintained in situations where there is a significant risk to health and safety that has not been removed or controlled by any other methods. It is thus of paramount importance that Hendrina Power Station, Generation Division (Gx), meets this legal requirement by placing a contract for the provision of safety symbolic signs and accessories.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

The purpose of this document is to provide clear requirements for the provision of safety symbolic safety signs at Hendrina Power Station, Gx. Safety signage's in the Power Station Environment are used to alert workers to potential hazards, such as chemicals, machinery, or high-voltage areas, helping to prevent accidents and injuries. They can also assist in the communication of important instructions, reinforce safety messages, and provide instructions for emergency situations. They can also promote safety culture and promote vigilance among employees.

2.1.2 Applicability

This document applies to all Eskom Hendrina Power Station, Generation Division departments as well as all the employees.

2.1.3 Effective date

The document is effective from date it is authorised.

2.1.4 Normative References

[1] SANS 1186-1

2.1.5 Informative Reference

[1] Occupational Health and Safety Act, Act 85 of 1993 and Its Regulations.

[2] Generation Safety Measures against the Thermal Hazard of an Electrical Arc for Metal enclosed Switchgear (up to 15KV) Standard. Doc No: 240-56179027.

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[3] Hendrina Power Station Arc Flash Procedure: 240-143167682

2.2 Definitions

Not applicable

2.3 Abbreviations

Abbreviation	Explanation
AFP	Arc flash Protection
Cal/cm ²	Calorific per centimetre squared.
Gx	Generation Division
OHS Act	Occupational Health and Safety Act
SANS	South African National Standard

2.4 Roles and Responsibilities

2.4.1 Contracts Manager

- The contract's manager shall ensure that the Technical Evaluation score sheet is supplied to the tender evaluation committee.
- The contract's manager shall verify that the service provider/partner executes this scope of work accordingly.

2.4.2 Supplier

- Will be given and order of specific signs that is needed at Hendrina PowerStation.
- Signs will be according to Sabs standard.
- Specific signs will also be made on the Clients request.

2.4.3 Hendrina Health and Safety Departments including the Fire Department

- Identify all signs that is needed.
- Create a task order for the supplier to supply them.
- Check Signs against order and verify if signs is done accordingly
- Once the signs are received on site – an assessment must be conducted.
- A service entry must be created for the supplier to be paid on the last day of that month.

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2.5 Process for Monitoring

- The service provider will do the supply and delivery on safety signs in accordance with section 3; and submit and service report to the contract's manager.
- The contract's manager will conduct a monthly assessment to monitor work progress.

2.6 Related/Supporting Documents

Not Applicable.

3. SCOPE OF WORK

3.1 Supply of Fire Fighting signs with night reflection fixture (hard background plastic material). x 100 for each type, except for the last one (Diesel filling point).

- Dimension: 290 X 290MM **Fire Alarm**
- Dimension: 290 X 290MM **Fire Blanket**
- Dimension: 290 X 290MM **Fire Equipment Location**
- Dimension: 290x 290MM **Fire Extinguishers**
- Dimension: 290 X 290MM **Fire Hazards**
- Dimension: 290 X 290MM **Fire Hose**
- Dimension: 290 X 290MM **Fire Pump Connection**
- Dimension: 290 X 290MM **Fire System Chain**
- Dimension: 290 X 290MM **Fire Extinguisher Red Arrow Down**
- Dimension 290 X 290MM **Sprinkler System Stop Valve**
- Dimension: 400 X 300MM **Emergency Vehicle**
- Dimension: 450 X 600MM **Fire Station Area**
- Diesel filling point: NO Cell phones, NO smoking, NO open fires, Switch engine off, NO unauthorised entry x **10** [CSY Diesel tank]

3.2 Supply of General Information signs with night reflection fixture (hard background plastic material)

- Dimension: 190 X 190MM **Eye Wash x50**
- Dimension: 190 X190MM **Green Arrowx50**
- Dimension: 190 X 190MM **Running Left Sign x50**
- Dimension: 190 X 190MM) **Running Right x50**
- Dimension: 190 X 190MM **Safety Shower x 50**

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- Dimension: 200 X 300MM **Emergency Breathing apparatus x 100**
- Dimension: 200 X 300MM **First Aid Equipment x300**
- Dimension: 290 X 290MM **Ablution Facility for Males x50**
- Dimension: 290 X 290MM **Ablution Facility for Females x 50**
- Dimension: 290 X 290MM **Designated Smoking Area x50**
- Dimension: 290 X 290MM **Emergency Telephone x50**
- Dimension: 290 X 290MM **Disabled (Wheelchair) x70**
- Dimension: 290 X 290MM **Keep the Area Clean x 70**
- Dimension: 450 X 600MM **Assembly Point x 50**
- Dimension: 300 X 200MM **Evacuation Chair x50**
- WARNING You are entering a high traffic Zone: Headlights ON, Emergency indicators ON, Buggy whip, Strobe lights ON, Speed limit 20Km/h [CSY Entry] x 50.
- CAUTION, Pedestrians, Spotters, Heavy duty vehicles, Light duty vehicles. [CSY Entry] x 50.
- Eskom Rotek Industries welcomes you, we are working Safe, please join us [CSY Main offices] x30
- CAUTION SLIPPERRY WEIGBRIDGE-PROCEED SLOWLY [weighbridge] x 20.
- WARNING- ENSURE BUCKETS ARE LOWERED BEFORE ENTERING THE WEIGH BRIDGE [weighbridge] x 20.
- PPE Required: Gloves, Goggles, Overalls, Reflective wear, Safety boots, Dust mask [CSY Diesel tank] x 20.
- No Parking x 50
- WARNING, Beyond this point: Dust mask, Reflective wear, Goggles, Safety boots, Overalls x50.
- Reverse park Only x50.
- Waste bins point x 50.
- Wear correct PPE, Boots, Hard hat, Reflective wear, Dust mask, Overalls, Goggles x50.
- Warning; you are entering a high Noise area, please wear proper hearing protection x 50.
- Designated smoking areas x 50
- Smoking area x50
- Caution Smoking Tobacco products is harmful to your health, the health of children, pregnant women, and non-smokers x 50.
- For help on quitting Tel: 011 720 3145 x 50.
- Please put cigarette butts in the designated sand containers x 50.

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3.3 Supply of Safety Mandatory signs with night reflection fixture (hard background plastic material) x50 each type.

- Dimension: 190 X 190MM **Dust Mask**
- Dimension: 190 X190MM **Hearing Protection**
- Dimension: 190 X 190MM **Hair Net**
- Dimension: 290 X 290MM **Apron**
- Dimension: 290 X 290MM **Eye Protection**
- Dimension: 290 290MM **Hand Protection**
- Dimension: 290 X 290MM **Hard Hat**
- Dimension: 290 X 290MM **Gum Boots**
- Dimension: 290 X 290MM **Respiratory protection**
- Dimension: 290 X 290MM **Safety Harness**
- Dimension: 290 X 290MM **Safety Shoes**
- PPE Required: Gloves, Goggles, Overalls, Reflective wear, Safety boots, Dust mask

3.4 Supply Following Prohibitory signs with night reflection fixture (hard background plastic material x100 for each type.

- Dimension: 190 X190MM **No Cell Phone**
- Dimension: 190 X 190MM **No Entry**
- Dimension: 190 X190MM **No Naked/Open Flames**
- Dimension: 190 X 190MM **Smoking Prohibited**
- Dimension: 290 X 290MM **Ash Dam No Entry**
- Dimension: 290 X 290MM **No Entry Compressed Air**
- Dimension: 290 X 290MM **No Entry Restricted Area**
- Dimension: 290 X 290MM **No Entry Prohibited Area**

3.5 Supply of Warning signs with night reflection fixture (hard background plastic material)

- Dimension: 190 X 190MM **Asbestos (As per Annexure 1 of the Asbestos Abatement Regulations, 2020) x200**
- Dimension: 190 X 190MM **Danger Life Electricity x100**
- Dimension: 290 X 290MM **Chlorine Gas x20**
- Dimension: 290 X 290MM **High Voltage Warning x100**
- Dimension: 290 X 290MM **Keep the Cylinder Chained x100**

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- Dimension: 290 X 290MM **Hot Work in Progress** x100
- Dimension: 290 X 290MM **Confined Space** (Chroma deck) x 200

3.6 Supply of Road Traffic signs with night reflection fixture (hard background plastic material) x50 for each type.

- Dimension: 600MM **30km p/h Road Speed**
- Dimension: 600MM **40km p/h Road Speed**
- Dimension: 600MM **60km p/h Road Speed**
- Dimension: 600MM **Curve Ahead**
- Dimension: 600MM **Max Height**
- Dimension: 600MM **No Parking**
- Dimension: 600MM **No Stopping**
- Dimension: 600MM **Parking Area**
- Dimension: 600MM **Pedestrian crossing**
- Dimension: 600MM **Prohibition Sign**
- Dimension: 600MM **Speed Limit**
- Dimension: 600MM **Stop signs**
- Dimension: 600X600MM **Yield Signs**
- Dimension: 820 X 410MM **Chevron Fire back Plate**
- Dimension: 600 X 150MM **Danger Plate sign to the Left**
- Dimension: 600 X 150MM **Danger Plate Sign to the Right**
- Dimension: 400 X 2400MM **Yellow Chevron**
- Dimension: 440 X 440MM **Sharp Curve Chevron sign**
- Dimension: 440 X 440MM **Disable Parking**
- Dimension: 200 X 600MM **Reverse Parking Only**

3.7 Supply of Cylinders signs with night reflection fixture (hard background plastic material) x50 for each type.

- Dimension: 290 X 290MM **High CO2 Level**
- Dimension: 290 X 290MM **Danger confined Space, Entry By Permit only**
- Dimension: 290 x290MM **Danger Rotating Machine Warning**
- Dimension: 290 X 290MM **Argon Full**
- Dimension: 290 X 290MM **Argon Empty**
- Dimension: 290 X 290MM **Nitrogen Full**

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- Dimension: 290 X 290MM **Nitrogen Empty**
- Dimension: 290 X 290MM **Oxygen Full**
- Dimension: 290 X 290MM **Oxygen Empty**
- Dimension: 290 X 290MM **Acetylene Full**
- Dimension: 290 X 290MM **Acetylene Empty**
- Dimension: 290 X 290MM **CO2 Full**
- Dimension: 290 X 290MM **CO2 Empty**
- Dimension: 290 X 290MM **Propane Gas Full**
- Dimension: 290 X 290MM **Propane Gas Empty**
- Dimension: 290 X 290MM **Hydrogen Full**
- Dimension: 290 X 290MM **Hydrogen Empty**
- Dimension: 290 X 290MM **Hazardous Waste**
- Dimension: 600X300MM **Ionizing Radiation Notification**

3.8 Supply of Arc Flash Hazards warning Stickers Designs with night reflection fixture (hard background plastic material)

- Dimension: 20.5cm x 14.6cm -x 200 Stickers

3.9 Eleven (11) point Plan Sticker with night reflection fixture (hard background plastic material)

- Dimension: 20.5cm x 25.5cm –x200 Stickers

4.0 Electrical Arc Flash Protection poster Category 2 - 40 Cal/cm² with night reflection fixture (hard background plastic material)

- Dimension: 29.5cm x 42cm - 100 Stickers: **Category 4- 55 Cal/cm²**

4.1 Eleven (11) Point Plan – All in one poster with night reflection fixture (hard background plastic material)

- Dimension: 82cm x 110cm –x 100 Stickers

4.2 Unauthorised Entrance Prohibited warning signs.

- 100.6cm x 50.3cm – Chromadek Material- x 150

4.3 Incomer supply stickers (Red background with white capital letters)

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- 25cm x 25cm – Chromadek Material- x 100

4.4 Arc Flash Protection Labels, Chromadek material with night reflection fixture.

- 9cm x 15cm – Chromadek Material- x 300

Detailed technical information will be provided separately.

5. Plant areas to be executed in the Scope.

- a) All the Signs installed at Hendrina, unit 1 to 8 and Offices and on the outside plants.
- b) EMD will install all the Electrical Eleven (11)-point plan related stickers and posters at Hendrina Power Station.

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