CLIENT
BASELINE RISK ASSESSMENT FOR THE SUPPLY, DELIVER AND INSTALLATION OF DISCONNECTORS (ISOLATORS) AND EARTH SWITCHES

30 August 2023

DOCUMENT CONTROL SHEET

PROJECT NAME : Supply, deliver and installation of disconnector (Isolators) and Earth Switches

DOCUMENT TITLE : Client Baseline Risk Assessment for the supply, deliver and installation of disconnector (Isolators) and Earth Switches

DOCUMENT NUMBER : XAKS-BRA-WC-G-030

SIGNING OF THE ORIGINAL DOCUMENT

We, the undersigned, accept this document as a stable work product to be placed under formal change control as described our internal Procedure for Controlled Documents.

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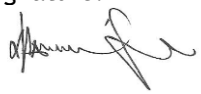
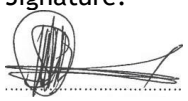
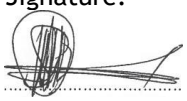
	Signature: 	Signature: 	Signature: 

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CLIENT: GEORGE MUNICIPALITY

DOCUMENT NAME: CLIENT BASELINE RISK ASSESSMENT

PROJECT NAME: CLIENT BASELINE RISK ASSESSMENT FOR THE SUPPLY, DELIVER AND INSTALLATION OF DISCONNECTORS (ISOLATORS) AND EARTH SWITCHES

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Content:

CLIENT BASELINE RISK ASSESSMENT

1. Introduction:

This project entails the supply, deliver and installation of 66Kv disconnector and earth switches for the George Municipality as per the project specifications.

The risk profile and the baseline risk assessment relate to the client's duties, informing the contractors of the potential hazards and risks to encounter during the construction. The principal contractor and all other contractors appointed on this project will be required to develop a detail works baseline risk assessment on the risk exposures experienced on site, tasks and equipment used in relation to the project scope of works.

2. Risk Profile

The risk profile is identifying the key areas of risk exposure that the client is highlighting to be considered by the respective contractors as part of the project:

a) Working at operational substation
b) Unsafe and illegal electrical connections
c) Lack of trained persons performing the works
d) Lack or incorrect use of safety equipment whilst performing the tasks
e) Electric shocks and electrocution
f) Exposure to known and unknown services
g) Lack of lockout tag out
h) Unsafe electrical works and associated risks
i) Working on existing electrical lines and in close proximity to electrical overhead lines
j) Safe Clearance Distances for electrical lines
k) Transport of electrical equipment from one sub-station to another
l) Inclement weather conditions
m) Noise, vibration exposure
n) Manual handling & related ergonomic stressors
o) Lifting and lowering operations
p) Heat
q) Sparks & Fire

r) Unsafe hand tool
s) Stacking and racking exposure
t) Waste exposure and handling
u) Mobile plant operations

3. Baseline Risk Assessment:

No	Processes	Potential Hazards	Risk
1.	Known/unknown electrical services	Electricity	Shock, burns, death,
2.	Unsafe Electrical work	Unsafe electrical exposure	Electrocution, Fatality, damage to property due to fire
3.	Failure to use isolation and Lockout tag out processes	Live energy works	Electrical shocks and electrocution
4.	Unsafe working in existing operational substation	Electricity	Electrocution, Fatality, damage to property due to fire
5.	Safe Clearances Distances of electrical overhead lines	Unsafe practice	Electrocutions
6.	Working in close proximity of live electrical equipment and overhead cables	Live energy	Severe injuries, electrocution
7.	Access and transport on and to works areas	Unsafe Transportation, lack of adequate traffic control and road worthiness of vehicles.	Motor vehicle accident and fatalities. Personal injuries of non-construction workers due easy unauthorized access.
8.	Stacking & Storage	Moving storage or stacks (pipes, bricks)- picking off stacks	Falling objects or machinery- crush injuries
9.	Noise exposure	Construction activities generating noise	Noise induce hearing loss

No	Processes	Potential Hazards	Risk
10.	Whole Body and hand vibration	Mobile plant operations, using vibrating electrical or mechanical equipment	Whole body Vibration back and muscular strain
11.	Exposure to elements and environment	Sun, wind, temperature, emissions	Skin cancer, heat exhaustion, lung cancer
12.	Removal of wires/cables	Ergonomic hazards Wind risk during erection affecting the material handling & temporary work structures Fall risks, drop risks	Strains Serious injuries- multiple persons- death
13.	Mobile plant operations	Mobile plant and truck movement	Accidents
14.	Handling of heavy objects	Unsafe lifting articles and placement of equipment	Serious injuries and amputations
15.	Handling of heavy mechanical and electrical equipment	Unsafe lifting articles And placement of equipment	Serious injuries and amputations
16.	Working on slippery structures/surface	Slipping and falling	Serious injuries, deaths
17.	Lifting and lowering operations	Manual rigging and crane operations- rigging- movement of equipment	Falling and moving objects or machinery
18.	General construction work	Hand tools- small portable electrical tools- manual handling- sharp articles –electricity	Hand-, eye injuries, crush injuries, noise exposure, dust exposure –ergonomic strain –electrical shock -fire
19.	Working at heights	Falling from heights, no safety harness Lack of fall arrest equipment on poles	Serious injuries- multiple persons- fatality
20.	Dangerous Overhead Line Electrical Installation work	Unsafe access to high points Work with and amongst unskilled workers Unsafe working at heights	Lacerations, fractures falls, death

No	Processes	Potential Hazards	Risk
21.	Lack of communication	Working with live electrical works Working at heights Working inside a sub-station	Serious injuries
22.	Use of unsafe ladder	Collapsing –fall -drop	Severe injury- fatality
23.	Incorrect safety equipment used on site	Electricity	Electrocution, Fatality, damage to property due to fire
24.	Use of chemical substances	Cement-dust, diesel, Paint	HCS-specific illness
25.	Waste management	Waste accumulation	Construction rubble polluting, illegal dumping, stealing, crime

4. Annexure of Acknowledgement

Acknowledgement:

I,_____representing

_____ Principal Contractor have satisfied myself with the content of the Baseline Risk Assessment (BRA) and shall ensure that the personnel and other people visiting site comply with all relevant obligations in respect thereof.

_____ _____

Signature of Principal Contractor Date

_____ _____

Signature of Agent Date