	Business Management System Scope of Work	Document Identifier	240-00000000	Rev	1
		Date	28/11/2017		
		Page	1 of 4		

Contents


1	Overview and purpose of the <i>goods</i> and <i>services</i>	2
2	Specification and description of the <i>goods</i>	2
2.1	Procedure for submission and acceptance of <i>Supplier's</i> design	2
2.2	Other requirements of the <i>Supplier's</i> design	3
2.3	Use of <i>Supplier's</i> design	3
2.4	Manufacture & fabrication	3
2.5	Factory acceptance testing (FAT)	3
2.6	Other tests and inspections and commissioning in place of use	3
2.7	Operating manuals and maintenance schedules	3
3	Supply Requirements	3
4	Specification of the <i>services</i> to be provided	3

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	Business Management System Scope of Work	Document Identifier	240-00000000	Rev	1
		Date	28/11/2017		
		Page	2 of 4		

1 Overview and purpose of the *goods* and *services*

The purpose of Gas Insulated plug termination is to safely terminate and connect medium voltage and high voltage cables. GIS termination provides a safe connection between the switchgear and the cable point.

Logistics and Delivery to Site

Pre inspections will conduct during factory acceptance test. These inspections will be conducted by ERI quality officer as well as Eskom Engineers. All the test certificates and other supporting documents related to the cable specifications must be made available. Eskom quality management QM58 must be adhered to

2 Specification and description of the *goods*

Product Conformance
EN 50181 standard.
IEC 60502.4
CENELEC HD 629.1 for Tutuka Power Station
CENELEC EN 50180 and 50181 for Tutuka Power Station
Product description:
11kV Inner connex PFISTERER for Duvha Power Station
Piggyback Connector 804PB Coupling connector & Type C bushing Front connector 484 TB Separable Connector EUROMOLD for Tutuka Power Station
Materials and construction
The cable termination mainly consists of plug-in contactor, stress cone and tail pipe <ul style="list-style-type: none"> • Plug-in contactor <ul style="list-style-type: none"> – Spring contact connection which is safe and reliable – Inclined bolt for easier installation, rigid fixation and no special tools required
The cores of three-core cables shall be individually screened
-The cores of three-core cables shall be individually screened
A catalogue that gives information shall be provided for the full range of GIS manufactured in accordance with applicable standard.

2.1 Procedure for submission and acceptance of *Supplier's* design


The supplier to provide the designs of the GIS indoor plug termination. The GIS plugs termination are usually internationally manufactured, in case of the absence of the designs the supplier must submit at least the installation instruction of the GIS plug termination to Engineer and or Project Manager for acceptance.

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	Business Management System Scope of Work	Document Identifier	240-00000000	Rev	1
		Date	28/11/2017		
		Page	3 of 4		

2.2 Other requirements of the *Supplier's* design

In case of any GIS plug termination special requirement that must be taken into consideration, the requirements must be discussed with the Engineer/Project Manager.

2.3 Use of *Supplier's* design

The supplier to submit pre-approved designs, as per the clients drawings and specifications.

2.4 Manufacture & fabrication

The GIS indoor plug termination must be manufactured according to the applicable laws, standards and voltage specifications.

2.5 Factory acceptance testing (FAT)

If available all factory acceptance test certificates must be provided to the Engineer/Project Manager. In case of locally manufactured GIS Indoor Plug Terminations, the Engineer/ Project Manager must be invited during Factory Acceptance Testing. The calibration of all testing equipment must be available and provided to the Engineer/Project Manager during FAT.

On award of the Contract, the supplier shall prepare Quality Control Plan identifying the various stages of manufacture, quality checks performed at each stage and the Customer hold points. The document shall also furnish details of method of checking, inspection and acceptance standards/values and get the approval of the client or his representative before proceeding with manufacturing. The Client or his representative shall have the right to review the inspection reports, quality checks and results of suppliers 's in-house inspection department which are not Customer hold points and the supplier shall comply with the remarks made by the client or his representative on such reviews with regard to further testing, rectification or rejection etc

2.6 Other tests and inspections and commissioning in place of use

The supplier to provide check sheets and user manuals

2.7 Operating manuals and maintenance schedules

Operating manuals, and or installations guides of the GIS indoor plug terminations must be included in the plug termination kits. In case of new GIS plug termination that have never been used before in any project, the supplier must provide an awareness of the product.

3 Supply Requirements

To provide training


4 Specification of the services to be provided

- Supply and delivery of GIS PLUGS must be on time of required order
- Transported by road on supplier's costs and transport

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	Business Management System Scope of Work	Document Identifier	240-00000000	Rev	1
		Date	28/11/2017		
		Page	4 of 4		

- End user to be informed when delivery will be done at least 3 days upfront
- No deliveries to be done on Weekend or public holiday (Unless otherwise agreed upon)

Approved by:

Ostler Mkhonto
Senior Quality Officer

Signature: *OAMkhonto*

Date: 25/07/2022

Joseph Ledwaba
Construction Site Manager

Signature: _____

Date: _____

Ezile Mnukwa
Engineer Electrical

Signature: *Emnukwa*

Date: 25/07/2022

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