



DOCUMENT NAME:	Supply, Delivery, Installation and Commissioning of 10 x 20M Solar High Mast Lights		
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SCOPE OF WORK

Tender No.: FOSPHB-RFP-50-24/25

Description: Supply, Delivery, Installation and commissioning of 10 x 20M Solar High Mast Lights

1 PRE-QUALIFICATION

1.1 TECHNICAL PRE-QUALIFICATION

CIDB requirement is a 5EP grading or higher

Bidder must be registered as Electrical Contractor with Department of Labour.

Compulsory site briefing

2 INVITATION TO TENDER

Appointment of an Electrical Contractor to Supply, Deliver, Install and commissioning of 10x 20M Solar High Mast Lights

3 DEFINITIONS AND ABBREVIATIONS

BOQ	– Bill of Quantities	OHSA	– Occupational Health and Safety Act
BRA	– Baseline Risk Assessment	NDT	– Non-destructive Test
COC	– Certificate of Compliance	OH&S	– Occupational Health and Safety
COP	– Code of Practice	OHC	– Over-Head Crane
CTD	– Critical task Descriptions	PEE	– Portable Electrical Equipment
DAP	– Diammonium Phosphate	PPE	– Personal Protective Equipment
DB	– Distribution Boards	QA	– Quality Assurance
DWA	– Department of water affairs	QC	– Quality Control
DWG	– Drawing	QCP	– Quality control Plan
ECO	– Engineering Change Order	QMS	– Quality Management System
HDG	– Hot-Dip galvanizing	RFI	– Request for Inspection
HIRA	– Hazard Identification and Risk Assessment	ROPS	– Rollover Protection System
IFC	– Issued for Construction	SANS	– South African National Standards
ISO	– International Organization of Standardization	SHE	– Safety, Health, Environment
LDV	– Light Delivery Vehicle	SHERQ	– Safety Health Environment Risk & Quality
MAP	– Monoammonium phosphate	TMMS	– Trackless Mobile Machines
MCOP	– Mandator Code of Practice	WBS	– Work-breakdown structure

4 SCOPE BACKGROUND

This specification provides for the supply of 10 x 20M Solar high masts lights within the jurisdiction of Ba-Phalaborwa local municipality, delivery, transportation to site, off-loading, installation, assembling, positioning, connecting, testing including any commissioning, and handing over to the Employer in a satisfactory operating condition.

5 COMPANY BACKGROUND

Foskor is one of the world's largest producers of phosphate rock (concentrate) and phosphoric acid. It is one of the world's few vertically integrated producers of phosphoric acid and is the second-largest supplier to India, the world's largest consumer of phosphoric acid.

The Company owns and mines phosphate resources and beneficiates the mined material to produce a phosphate concentrate at Phalaborwa, in the Limpopo Province of South Africa. The phosphate concentrate is sold locally and also transported to the Richards Bay plant on the coast of Kwa-Zulu Natal to produce phosphoric acid, sulphuric acid and granular fertilisers MAP and DAP from phosphoric acid and is the leading supplier of fertilisers to South Africa. In all about 95% of the phosphoric acid is exported and the granular sales are divided between exports and local markets. Since 1951 Foskor has supplied more than 95% of South Africa's fertiliser requirements.

6 SCOPE OF WORK

6.1 BACKGROUND DOCUMENTATION

Not Applicable

6.2 SCOPE - EXTENT OF WORK OR SERVICE REQUIRED

6.2.1 General Scope Considerations:

Please allow for a competent Quality Control Officer to compile and manage the contractor's quality management. In the event of quality system failures, Foskor will request the Quality Official's experience and qualifications and if this is not acceptable, it will be expected that the contractor obtains this service at its own cost.

Please allow for a competent person to compile the method statement and the subsequent Microsoft Project plan. This person will manage and update this plan weekly and present it to the Foskor Project Engineer. It is expected that this planning and management is executed by the contractor. This service will be provided at the contractor's cost. If the contractor cannot execute this planning and report to management, it will be expected that the contractor obtains this service at his/her cost.

6.2.2 Project cost and expenses:

The contractor shall supply all engineering services, materials, labour, transport, supervision, and consumable materials, equipment, tools and every item of expense for the scope of work to be completed successfully unless otherwise stated taking the following into consideration.

6.2.3 Disposal of refuse

The Contractor shall be responsible for disposal of refuse and waste generated by his staff daily. The site is to be kept clean, neat, and tidy, by complying with Foskor Waste Management COP.

6.2.4 General requirements for commissioning

Commissioning or handover will be executed as per Foskor Procedures or as directed by the Engineer. Normally the Foskor Punch list and Hand over certificate will be used.

6.2.5 The successful or appointed service provider shall comply with the latest revisions of the following Foskor CTD's (Critical task Descriptions) (CTD's are available on request):

- i. Not applicable

6.2.6 Sub-Contracting and joint ventures

The primary aspect of the works may not be subcontracted. For subcontracting the relevant companies supporting documentation needs to support the bidder's tender.

Joint Ventures must be declared in the bidder's tender with all relevant supporting documentation.

6.3 SCOPE

6.3.1 Basic Requirement

The work of this project covers the supply, manufacture, transport to Ba-Phalaborwa Municipality jurisdiction, installation, testing, and commissioning of the complete electrical requirements as indicated below. The Contractor will also supply the COC as well as the certificates for the installation.

6.3.2 Construction

The mast shaft shall be multi sectional. Each section is constructed from steel plate, which is cut to size, bent into a 6 sided "half shell" and welded together. **Rolled sections will not be accepted.**

Two "half shell" sections are then welded together by means of continuous long seam weld, to form this section of the mast shaft.

All welds are to be carried out by coded welders, using both the CO2 and submerged arc welding processes, depending on plate thickness and weld positions.

Sample testing, using the DPI weld test procedure, shall be carried out as when required.

A minimum thickness of 5mm, regardless of material used is to be maintained in any part of the mast shaft construction.

The mast manufacturer must be an ISO 9001:2015 certified mast supplier.

All masts are to be designed to **SANS 10225** code of practice.

Terrain Category	:2
Design wind speed	:144 km/h
Altitude	:1m

6.3.3 **Material**

The material used in the fabrication of the mast shaft will be, unless otherwise stated, **SANS 50025** Graded S355JR.

The mast shaft and all ancillary steelwork of hot dipped galvanized to ISO 1461.

- Fittings – 6 x 120W LED Lights
- Battery LIFEPO4 (12.8V 72AH)
- Maximum Luminance 25200Lm
- Solar Panel Max Power: 18V 140W
- 6x Solar Panel 1750x1002x30
- Lumen: 210LM/W

6.3.4 **Luminaire Ring**

The floodlight luminaire ring shall be manufactured in two half-sections, which are bolted together on site. The ring will be of a welded steel construction and hot dipped galvanised for corrosion protection.

The luminaire ring shall be manufactured from 76x38 rolled channel section and shall be fitted with 20mm diameter steel bumper ring below the rolled channel. The luminaire ring shall dock into three guided fixed to the top pulley assembly.

6.3.5 **Top pulley Assembly**

The assembly should consist of a fabricated steel housing, containing the 2 x 280mm diameter, LM6 cast aluminium pulleys, over which the steel wire rope pass. Separators one between the pulleys and one on the outside of each pulley, to be provided to separate the wire ropes and trailing cables and to prevent wrapping together, should the ring be lowered in windy conditions. Each external separator must have two close fitted guides on the outside, to prevent the wires ropes and cables from climbing off the pulleys. Additional deep groove pulleys to be fitted for any other cabling that may be necessary.

All pulleys shall run-on stainless-steel shafts. The entire assembly must be protected against the ingress of water, with a moulded fibreglass canopy, which will be bolted to the assembly, with a bolt which incorporates a lightening spike.

6.3.6 Raising and Lowering Device

Each mast shall be equipped with a two steel wire ropes- for the purpose of lowering the luminaire ring.

Three wire – Rope systems shall not be considered.

The steel wire ropes must be supplied with both the mast and the portable winch, of 7/19 construction grade 316 stainless steel. The ropes shall be 8mm diameter of 6x19 construction. All rope connections to be of copper “TALURIT” ferrules and crimped with hydraulics crimping tool. The portable winch, for raising and lowering of the luminaire ring, will be a double drum type.

6.3.7 Power Storage Device

Lithium iron phosphate technology should be offered. In addition, all LiFe-PO battery packs must have an integrated Battery Management System (BMS) which monitors the health, charging and discharging of the battery pack. This safeguards the cells so that they are not over charged or discharged, maximizing their lifetime. Battery pack operating temperature: -20 degrees Celsius to + 60 degrees Celsius. The power storage enclosure should be manufactured from an IP66 NON- CORROSIVE material. The non- corrosive enclosure should be accessible only with vandal proof key mechanism for increasing security.

6.3.8 Hydraulic Power Tool

A Hydraulic power tool is required to drive the winch must a single phase. Single phase electric motor, fitted with a reduction gear box. Three metre cable and remote forward/reverse control switch, for safe operation. The power tool must be fitted with a torque limiting device, which is set to slip before any damage can be done on the wire ropes, in the event of over winding.

6.3.9 Charge controller

The charge controller must regulate the flow of current from the solar panel to the battery during daytime and from the battery to the luminaire at nighttime. The charge controller should be of the MPPT type as PWM controllers would not be permitted. The charge controller should prevent the power storage device from overcharging and deep discharging thus increasing system efficiency and expected lifespan. The charge controller should act as a daylight switch by monitoring the voltage produced by the PV panel. When the voltage dips below a predetermined level it assumes that the sun has set and switches the luminaire on. When the voltage climbs above this threshold again, the charge controller assumes that the sun has risen and switches the luminaire off again.

Even at low sun radiation periods due to inclement weather, the charge controller should be of the anti-blackout type controller will access energy stored and regulate the output in a way that would avoid total darkness from occurring.

The following features are mandatory: voltage and current regulation, programmable charging technology, current compensated load disconnection, automatic load reconnection, temperature compensation integrated self-test, monthly maintenance charge electronic protection functions, overcharge protection, deep discharge protection, reverse polarity protection of load, module and battery, automatic electronic fuse, short circuit protection without battery, reverse current

protection, battery overvoltage shutdown and Bluetooth monitoring from ground level.

6.3.10 Corrosion Protection

All parts of the mast and raising and lowering device, not specified as manufactured from stainless steel, shall be hot dip galvanised in compliance with the requirements of SANS 121 (ISO 1461) 2000-1 and test certificates shall be provided if required.

No welding, drilling, punching, bending or removal of burrs shall be carried out after galvanising.

6.3.11 Photovoltaic Panels

The photovoltaic panels must be Tier 1 Photovoltaic modules which ensures optimum performance and reliability.

The panel type should be Monocrystalline Half-Cell to ensure maximum harvesting of the available energy, even in low light conditions.

Tier 1 manufacturers offer a 25-year linear performance warranty for a minimum of 81% of the nominal power output of the module over the 25-year life cycle as well as a 10-year product warranty.

The PV panels must comply to the stringent TUV Rhineland Power controlled inspection mark.

Further the panels have a global quality standards certification in accordance with IEC-standards 61215 and IEC 61730 and this assures compliance to international quality control standards.

6.3.12 Foundations

Each mast shall be supplied with foundation bolts and templates. The bolts shall be hot dip galvanized over their entire length in compliance with SANS 121 (ISO 1461) 2000-1. Two galvanized nuts, two washers and one spring washer shall be supplied for each bolt. The number of foundation bolts shall be determined according to the design.

Calculations shall be submitted upon request.

A foundation plan, adequately designed for the conditions based on a soil bearing capacity **minimum** of 150kPa, giving details of the reinforcing required shall be submitted. Soil pressure and overturning safety factors shall be stated.

All reinforcing and foundation bolts shall have a minimum of 100mm concrete cover. The 28-day cube strength of the concrete shall be **minimum** of 25 MPa.

All foundations shall have a circular flat base from which a square plinth shall rise to above the surrounding ground level.

One or two PVC, Class B cable sleeves shall be provided from the center of the top of the foundation plinth, through the concrete to a point below ground level on the side of the plinth.

After casting the foundation, the slab shall be covered by earth, properly compacted. The area around the plinth shall be brought to the original level and shall be left neat and tidy.

Designs for the foundations are to be signed off by a registered Engineer before construction.

6.3.13 Earthing of mast

standard system consisting of 2 x 1.2m earth spikes, installed under foundation and connected to foundation bolts via 70mm² cable anti-theft conductors with clamps.

6.3.14 Luminaires

The luminaire should offer efficient thermal management of the LED's.

The luminaire housing must be manufactured of marine grade high -pressure die cast aluminium (EN 1706 AC-44300) to withstand the most corrosive environments.

6.3.15 Proposed villages

1. Bobby Ground
2. Tipeng next to Mamasiye
3. Mokoena to R71
4. Namakgale D section
5. Refentse Primary School
6. Maune Mapikiri
7. Makgareng Mabilusong
8. Kurhula A
9. Bus Stop Next to Police Station
10. Priska

7 DELIVERY OF MATERIALS AND EQUIPMENT

It is the responsibility of the Contractor to take delivery, off-load, store, and move into their permanent position all equipment and materials covered under this Scope. The Contractor shall, at his own expense, be responsible for the delivery to the Site of imported plant and equipment, materials and Contractor's plant and equipment in connection with the execution of the works, including but not limited to securing of permits and customs clearances, and payment of handling costs, storage costs, releasing costs, transportation costs, and duties, taxes, imposts, excise and charges of any kind that may be imposed by the South African Government, or any of its agencies and political subdivisions relating to the supply and delivery to the site of the imported plant and equipment, materials and Contractor's plant and equipment.

TAKE NOTE - Foskor pays for material delivered to Foskor site only!

NB: The contractor/ consultant must clearly state in his tender submission if there is an exclusion on the Foskor scope (As per the site meeting procurement scope and site meeting minutes) Failure to state the exclusion will mean that the full Foskor scope is still applicable.

Lay down areas are as indicated on the drawings

8 BATTERY LIMITS – INCLUSIONS AND EXCLUSIONS

Not Applicable. Additional BOUNDARIES

Contractor to take note of allowable working times and plan accordingly. The normal work hours are from 7 am to 4 pm, the contractor may work to 6 pm upon application and granting of permission but at no point exceed gazetted allowable working hours, nor work at night

9 AS BUILT DRAWINGS

As built drawing requirement is defined below:

- As built drawings are to be compiled after completion.

Note! – All drawings to be delivered in AutoCAD electronic format. All drawing to be detail engineering drawings

10 QUALITY

- The service provider must provide the necessary quality management systems and plans to ensure that the quality of his work complies with the requirements of this scope of work
- The service provider shall during all phases of construction comply with the Foskor approved Quality Assurance Plan
- The service provider shall be responsible for all the resources required for executing the Quality Management System including but not limited to, developing the Quality Assurance Plan & performing the Quality Control measures to ensure that the deliverables comply with the specifications & standards mentioned in the scope of work
- Any change requests / additional work resulting due to inadequate quality management system will be to the account of the service provider
- Foskor might appoint a third party for Quality Control Inspections
- The Service provider will have to provide an approved quality system for all work executed.
- This will include the following but is not limited to:
 - Quality plan
 - Quality compliance – Performance and reports
 - Quantity surveying
 - Quality Assurance
 - Quality Authorization matrix – part of the Quality plan
 - Quality control
 - Quality administration. – All documents, checks, measurements, reports, variances, analysis, Corrective actions, etc. needs to be properly filed and available on request at any time. The file will require an index

- h. Includes all test work, laboratories, Filing, etc.
 - i. Survey and survey verifications
 - j. Construction versus design - Any Deviations from the approved "Construction Drawings"
 - k. Quality communication – What needs to be reported to whom and at what frequency
- viii. FOSKOR envisage a complete quality System driven by the Service provider and this system/plan will be approved by FOSKOR and the appointed designer (if applicable) before construction/fabrication will be started.
- ix. Compliance to this plan will be measured and failure to adhere to the quality plan will result in the stopping of construction activities until concerns have been addressed. The cost for this delay will be for the service provider's account.
- x. FOSKOR may appoint a third party to measure and control FOSKOR's interest in the terms of quality in this contract and the service provider is expected to work in conjunction with this company
- xi. Hold points will be discussed and finalized with the successful service provider based on the approved Quality plan

The Quality plan will only be compiled and signed off after the Method Statement and WBS* have been compiled.

Quality on Shutdown type tasks will be included in the Scope of Works, but the service provider will have to submit proof of an experienced quality assurer or relevant qualifications. IF the service provider does not have this it will be required that this service be hired in by the service provider at his cost.

- i. State any specific hold points that are not negotiable here
- ii. State any other applicable quality that is not in the "Parameters" section

Method statement – the service provider must list all steps and actions required to complete the work as per the scope of work – typically includes the items listed below:

- i. Key step and stages of the work required
- ii. Tools, Equipment, TMMS, etc
- iii. Labour requirements, etc
- iv. Spares, resources,
- v. Safety requirements

***WBS** is a hierarchical and incremental decomposition of the project into phases, deliverables and work packages. It is a tree structure, which shows a subdivision of effort required to achieve an objective, for example, a program, project, and contract.

This includes arrangements, tools, equipment labour, Tasks, Purchase, Quality, Communication, etc

10.1 QUALITY FILE INDEX

The quality file index listed below will be the minimum requirement.

This file must be kept up to date for the duration of the project and will be handed to the FOSKOR project Engineer on completion of the project.

10.1.1 QUALITY FILE INDEX

	QUALITY FILE INDEX FOSKOR: TSS - PROJECTS	Doc. No.: Rev. No.: Date:	FSK-P-GEN-IX-001 00 12 - July - 2019
<u>Contents</u> Issued for Construction (IFC) drawings – Approved..... 1 Quality Control Plan (QCP) Approved..... 2 Competency of People – Welder Qualifications, Trade, Authorization, Certifications, etc 3 Designer/Engineers Instructions, Specifications, Approvals, Concessions applied for & approved. Site instructions, Variations and ECO's 4 Method Statement of contractor– Approved 5 Material orders & Delivery notes..... 6 Certificates – Material, Data Sheets, Compliance, Certification, etc 7 Test Results – Each Discipline – Test cubes, NDT, etc..... 8 Request for inspection (RFI)..... 9 As Built Drawings 10 Reports - Survey, etc..... 11 Punchlist/Snag list 12 Handover/ Occupations/ Taking over Certificates/Commissioning..... 13			
			

10.2 ADDITIONAL QUALITY REQUIREMENTS

Not Applicable.

11 PROJECT DELIVERABLES

11.1 THE DELIVERABLES FOR THIS PROJECT INCLUDE:

As stipulated in the scope of work

11.2 DATA BOOKS

NB! ALL CERTIFICATES AND DOCUMENTS MUST BE CROSS-REFERENCED

11.3 MANUALS AND DOCUMENTATION

The following must be supplied:

- i. Three "safety manuals" containing detailed and step-by-step task descriptions for general maintenance, major component replacements and abnormal operating conditions. Task descriptions to show identified hazards and what corrective actions must be taken. (Risk assessment and safety precautions)
- ii. Three "Workshop maintenance manuals" to be supplied. The maintenance manuals must at least contain:
- iii. Three "Workshop Electrical maintenance manuals" to be supplied.
- iv. Three "Spare parts manuals" to be supplied.

11.4 FORMAT OF DOCUMENTS AND MANUALS

Note! - All Manuals must be in English

11.5 TRANSMITTAL OF DOCUMENTS AND MANUALS

Documents and Manuals to be submitted in the flowing formats:

Type of Document	Hard Copy	Electronic Format
Manuals	X	X
Drawings	X	X
Reports	X	X
Data Books	X	X

Hard Copy: Book or binding arch file format and must be durable and of high quality.

Soft Copy: Manuals, Reports and Data Books – Word, Excel, PDF, etc.

Storage – Compact Disk or Data traveller

Language: English

11.6 PROJECT COMPLETION

On project completion, the contractor will issue Foskor with a Handover certificate

The handover certificate will be accompanied by the following document

- Quality file
- Safety File
- Manuals
- Single line drawings and
- Test certificates

12 ON-SITE SUPERVISION REQUIREMENT

- A Foskop work permit before commencement of site work.
- A full-time appointed supervisor will be on this site for the entire duration of site work
- An appointed site manager for overall site management
- Appointed SHE Rep for the entire duration of site work

12.1 ADDITIONAL REQUIREMENTS

None

13 TENDER DELIVERABLES

The deliverables will include: -

- Complete Foskop pricing schedule (BOQ)
- Preliminary Project Schedule
- Preliminary method statement to execute the site work
- Company training Matrix indicated minimum training requirement compliance, or the tenderer should provide an undertaking to comply with Foskop Safety requirements during the tendering stage and fulfil the requirements if awarded the work. Any deviation may lead to the cancellation of the order/contract. Timeframes need to be attached
- Tax Clearance
- Letter of Good standing (Workman compensation)
- BEE Certificate
- Commercial documents requested by Procurement
- Not submitting the required documentation or not completing the documentation (Pricing Schedule) correctly will lead to a disregard of the tender.
- Take note of the tender evaluation documents that need to be submitted

Note. Not submitting the required documentation or not completing the documentation (Pricing Schedule) correctly will lead to a disregard of the tender.

14 SAFETY

Service provider to refer to the full and updated Foskop COP's available:

- i. The service provider and sub-service providers need to always comply with the Occupational Health and Safety act. All Foskop COP's Policies and procedures need to be adhered to.

- ii. A service provider site supervisor to be permanently on-site.
- iii. Medical, Induction, Foskor ID Card, etc. is approximately R800 per person. Exit medicals need to be done at the termination of the contract.
- iv. The Successful tenderer will be required to compile a Foskor Work permit and at least 2 weeks should be allocated for this. The service provider must provide the following appointed persons in terms of the OHS Act 85 of 1993: Site Manager; Site Supervisor and – SHE REP for the duration of the contract
- v. All vehicles and cranes and other TMM's to be inspected before going to site.
- vi. All person competencies to be verified before being allowed to work on Foskor premises for a specific task.
- vii. The service provider must compile a Safety File as per Foskor standard for all service providers and sub-service providers
- viii. Site access will need to be controlled, and all persons must receive site-specific induction before entering the site.
- ix. Conduct inspections as per Foskor Safety System. Analyse data and trends and recommend preventative measures where required
- x. Ensure all authorizations are in place as per the Foskor Safety System. Arrangement with Foskor training to be done by the service provider to ensure that authorization and training are conducted. Arrange timeously.
- xi. Ensure all workers competencies are available and have been validated.
- xii. Ensure proper security, signboards, fencing, and barricading is in place on-site where applicable
- xiii. The service provider shall in general comply with the FOSKOR General Engineering Specifications, COP's, latest revisions, and all relevant regulations
- xiv. The service provider must complete a Baseline Risk Assessment (COP 01) before a work permit can be issued for the installation.
- xv. All service providers not in possession of a valid Foskor ID card have to complete the Foskor induction course and have to undergo a medical examination at the Foskor clinic for the service provider's account
- xvi. The service provider shall be responsible for coordinating and integrating his schedule and responsibilities with other FOSKOR appointed contract manager on-site for this Scope of Work.
- xvii. All personnel operating mobile equipment including LDV's must have a driver's permit.
- xviii. An open Pit Licence is required for driving in the mining area's
- xix. All the required PPE and Safety Equipment are for the service provider's account.
- xx. All service providers must ensure that:
 - a. His workers are issued with the correct personal protective equipment free of charge.

- b. That the workers wear the PPE per the project area's requirements or as given by the service provider Supervisor.
 - c. Training is provided in the correct use of PPE to workers.
 - d. Daily inspections are done on PPE.
 - e. The registers will be complete at least monthly on findings on PPE. (All PPE must be kept in good condition)
- xxi. All providers of services need to be informed of the following minimum training applies to all service providers (irrespective of the tasks or scope of work) that will enter the Foskor Phalaborwa site with effect from 1 April 2014. This training is not presented by the Foskor Training section and service providers must ensure that the training is sourced through accredited external training companies:
 - a. Basic health and safety principles
 - b. HIRA
 - c. First Aid Training
- xxii. All other training requirements must be aligned with the baseline risk assessment. Risks identified in the baseline risk assessment will guide the requirements for training. A summary of the training must be completed as well as status on required authorization as per Foskor COP's.
- xxiii. Training certificates will be accepted if complying with the following:
 - a. Unit Standard Title
 - b. Learner Full name
 - c. Learner ID number
 - d. Competency achieved
 - e. Date of Assessment
 - f. Assessor's signature
 - g. Training provider logo
 - h. Training provider registration number and accreditation number.
 - i. Seta logo

15 **ENVIROMENTAL**

The successful or appointed service provider shall comply with the following Environmental Specifications, Policies and Procedures:

- a) COP 41 Housekeeping and workplace organisation
- b) COP 49 Waste Management
- c) COP 51 Resource conservation, energy, and materials
- d) COP 70 Storage of petroleum products and other hazardous material

- e) National Environmental Management Act 107 of 1998 (NEMA)
- f) National Environmental Management Waste Act 59 of 2008 (NEMWA) as amended
- g) The successful service provider shall include in his/her SAFETY FILE, and comply with, the following documents:
 - i. Environmental Aspect and Impact Register (To be submitted by the successful applicant in line with this contract).
 - ii. Environmental Objectives and Targets (To be submitted by the successful applicant in line with this contract).
 - iii. Waste Management Plan (To be submitted by the successful applicant in line with this contract).
 - iv. FOSKOR Atmospheric Emissions License (Copy available to the successful applicant upon request)
 - v. FOSKOR Waste Management Licence (Copy available to the successful applicant upon request)
 - vi. FOSKOR Water Use Licence (Copy available to the successful applicant upon request)

16 LEGISLATIVE REQUIREMENTS – SUMMARY

16.1 MINIMUM LEGISLATIVE REQUIREMENTS:

The successful or appointed service provider shall comply with:

- i. The OHS Act 85 of 1993 Regulations (Latest revision)
- ii. The National Road Traffic Act with Regulations (Latest revision)
- iii. All applicable national and international legislative requirements and regulations.
- iv. Foskor (Pty) Ltd. COP (Code of Practise) No. 25 for Service Provider Control (Available on request)
- v. Foskor (Pty) Ltd. COP (Code of Practise) No. 59 for Trackless Mobile Machinery (Available on request)
- vi. All Foskor (Pty) Ltd. safety, health, quality, and environmental procedures applicable to the successful application of the contract. (Available on request)
- vii. All Foskor procedures and policies apply to the successful application of the contract. (Available on request)

16.2 SUMMARISED REQUIREMENTS/EXTRACTS FROM FOSKOR COP'S

16.2.1 Before e working on site the appointed service provider shall ensure that his workmen are:

- i. Briefed on the required task and have been informed of any abnormal conditions/situations.
- ii. Physically, emotionally, and mentally fit to perform their duty.

- iii. Issued with the necessary PPE (Personal Protective Equipment) to safely operate his service vehicles and perform the duty of maintaining, servicing, inspecting, and testing earthmoving- and mobile equipment.
- iv. Before commencement of work:
 - a. All tools and equipment shall have been inspected and tested to be in good and safe working order.
 - b. All workmen have participated in the completion of a standard site risk assessment (Commonly known as a HIRA or Hazard Identification and Risk Assessment) and taken appropriate actions to mitigate any identified hazards.

16.2.2 Before working on site, the appointed service provider shall:

- i. Ensure that his portable electrical equipment has been tested and declared safe to use.

17 PERMIT TO WORK

Before any on-site work under this contract may commence, the appointed or successful service provider shall obtain from Foskor a PERMIT TO WORK. The following guidelines are provided to assist the appointed service provider in obtaining a PERMIT TO WORK. (See FOSKOR COP 28 Permit to work and COP 25 Control of Externally Provided Processes, Products and Services (Service provider Control) for details):

- i. The PERMIT TO WORK can be obtained from- and on completion returned to the Legal Administrator, FOSKOR Safety department.
- ii. Obtain a contract number from the FOSKOR procurement or projects department.
- iii. Appoint a subordinate manager and an on-site supervisor of the OHS Act.

The appointed subordinate manager and -supervisor shall be required to write and pass the FOSKOR 2.6.1 and 2.9.2 legal examinations within 30 days after being awarded this contract.

Attend an hour-long legal exam briefing any Thursday between 08:00 and 09:00 at the Security training hall.

Write legal examination any Friday between 07:30 and 10:30 at the Security training hall. (Please book)

- iv. Appoint an on-site SHE-Rep of the OHS Act to assist project manager and site supervisor in the daily on-site management of health, safety, and environmental issues.

The designated SHE Rep must have the ability to read, write and express him/herself.

The appointed SHE-Rep shall be required to attend a five-day SHE-Rep training course within 30 days after being awarded this contract (Training free of charge). Make booking on 015 789 2531

A pre-requisite for attending the SHE-Rep training course is successful completion of Basic Health & Safety Principals- and HIRA training.

See FOSKOR's COP 5 Health and Safety Representatives for details.

- v. Provide a name list, including ID numbers, residential and postal addresses and telephone numbers of all of the appointed service providers on-site employees.
- vi. All the appointed service providers on-site employees shall undergo a full medical examination at the Foskor on-site CLINIX Clinic. The clinic can be contacted at 015 789 2427 for an appointment. Please note:

All NEW- and employees LEAVING the service of the appointed service provider must undergo a full entry or exit medical examination

Women who are pregnant or suspect that they may be pregnant must notify the examining medical practitioner.
- vii. The appointed service providers designated on-site drivers shall receive competence testing and authorisation to operate vehicles on the Foskor site
- viii. All the appointed service providers' employees shall receive/have received training in:
 - 17.1.1.1 First aid level 1 (Provide own training)
 - 17.1.1.2 Working at heights (Provide own training)
 - 17.1.1.3 Basic Health & Safety Principals (Provide own training)
 - 17.1.1.4 HIRA (Provide own training)
 - 17.1.1.5 Basic firefighting. (Provide own- or receive Foskor training, contact trainingbookings@foskor.co.za or 015 789 2531 to book)
 - 17.1.1.6 Lockout. (Provide own- or receive Foskor training, contact trainingbookings@foskor.co.za or 015 789 2531 to book)

All training not provided by Foskor must be verified by the Foskor training superintendent Mr Johan Fouche. Please contact him on 015 7789 2525 to make an appointment or email proof of training and certificates to johanfo@foskor.co.za to confirm compliance before requesting his approval on the PERMIT TO WORK.
- ix. All the appointed service providers' on-site employees shall receive the basic Foskor site induction training at the Foskor Security office.
- x. All the appointed service providers' on-site employees shall receive site-specific induction training provided by the Foskor area Regulation 2.6.1 appointee/s.
- xi. A BRA (Baseline Risk Assessment) shall be completed for ALL "typical" tasks that will be completed under this contract. The BRA to be approved by the responsible Foskor OHS Act 85 of 1993 appointee and signed by all of the service providers employees. Make use of Foskor's BRA document, Annexure 1.2, contained in COP 1, Risk and Opportunities Management (Available on request)
- xii. Attach a detailed SCOPE OF WORK describing the required task and -outcome of this contract.
- xiii. A manager must undersign/approve the PERMIT TO WORK.
- xiv. Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. The registration number must be provided.

- xv. SARS issued a tax clearance certificate.
- xvi. All relevant documentation and/or evidence of compliance must be attached to the PERMIT TO WORK.
- xvii. Upon successful completion and approval of the PERMIT TO WORK the security department will issue the appointed service providers' employees with access ID cards.
- xviii. Any other documents, certificates or records as requested by a Foskop official deemed necessary to ensure that all safety, legislative and administrative requirements have been met must be attached to the PERMIT TO WORK.
- xix. The appointed service provider must allow at least three to ten working days to complete all the PERMIT TO WORK requirements.

18 **SAFETY FILE**

The appointed contractor must compile a SAFETY FILE specifically for this contract. The SAFETY FILE must always be available for inspection by a Foskop official: The following guidelines are provided to assist the appointed contractor in compiling a SAFETY FILE:

Before any work may commence, the appointed service provider must IN CONJUNCTION WITH THE FOSKOR SAFETY DEPARTMENT, compile a SAFETY FILE specifically for THIS contract. (Contact the relevant area responsible safety representative as indicated by Foskop in the Kick-off Meeting

The SAFETY FILE must always be available for inspection by a Foskop official.

18.1 **FOSKOR SAFETY FILE INDEX - TIPICAL**

18.1.1 **Template SHE FILE INDEX: - TIPICAL**

<u>ISO clause / Description of item</u>	<u>File divider</u>
1. Integrated Management System. Clause 5.1 & 5.2	1
2. Policies Clause 5.2: OH&S Policies	2
3. COP 1: Foskop risk management Clause 6.1.2.1 & 6.1.2.2: Hazard identification, risk assessment and determining controls.	3
4. COP 88: Objectives, targets, and management programmes Clause 6.2: Objectives and programs	4
5. COP 2: Compliance obligations and appointments COP 5: Health and safety representatives, Clause 5.3: Legal and other requirements Clause 5.3 / 7.1: Resources, roles, responsibility, accountability and authority Clause 6.1.3: compliance obligations/ legal and other requirements	5

6. COP 15: SHERQ Competency and awareness training Clause 7.2 / 7.3: Competence, training, and awareness	6
7. COP 17: Mobile, technical and process training Clause 7.2 / 7.3: Competence, training, and awareness	7
8. COP 6: SHERQ Committees COP 7: Communication Clause 7.4: Communication, participation, and consultation	8
9. OCCUPATIONAL HYGIENE COP 42: Lighting: natural and artificial. COP 43: MCOP Occupational health programme on thermal stress COP 44: Sanitation plant hygiene amenities COP 45: MCOP occupational health program on personal Exposure to Air borne Pollutants COP 64: Ergonomics COP 86: MCOP for Occupation Health Program for noise Clause 8.1.2 Eliminating hazards and reducing OH&S risks	9
10. COP 49: Waste management COP 58: Hazardous chemical substances and control Hazchem and waste management Clause 8.1.2 Eliminating hazards and reducing OH&S risks	10
11. COP 53: Lock out system and usage Clause 8.1.1 General Clause 8.1.2 Eliminating hazards and reducing OH&S risks	11
12. COP 55: Stair walkways handrails and Ladders Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	12
13. COP 56: Lifting machinery and lifting Tackle Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	13
14. COP 57: Boilers and vessels under pressure work forms Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	14
15. COP 59: MCOP for the operation of TMM's Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	15
16. COP 60: Portable electrical equipment checks and registers Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	16
17. COP 61: Earth leakage Relays and checks Clause 8.1 Operational planning and control,	

Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	17
18. COP 62: General Electric installations and machinery in hazardous locations	
Clause 8.1 Operational planning and control,	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	18
19. COP 63: Hand tools	
Clause 8.1 Operational planning and control,	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	19
20. COP 65: Personal Protective Equipment	
COP 67: MCOP Women in mining PPE	
Clause 8.1 Operational planning and control	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	20
21. COP 69: Maintenance of fire equipment	
Clause 8.1 Emergency preparedness and response,	
Clause 8.1.2 Eliminating hazards and reducing OH&S	21
22. COP 72: Firefighting emergency drill and instructions	
COP 74 Emergency preparedness and response	
Clause 8.1 Operational planning and control,	
Clause 8.2 Emergency Preparedness and response	22
23. COP 93: MCOP for the safe use of conveyors installation for the transportation of minerals, material or personnel	
Clause 8.1 Operational planning and control,	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	23
24. COP 94: Hot work	
Clause 8.1 Operational planning and control,	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	24
25. COP 95: Confined space entry	
Clause 8.1 Operational planning and control,	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	25
26. COP 96: Working on Heights	
Clause 8.1 Operational planning and control	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	26
27. COP 97: Erection and use of scaffolding	
Clause 8.1 Operational planning and control,	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	27
28. COP 98: Water safety	
Clause 8.1 Operational planning and control,	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	28

29. COP 101: MCOP: The right to refuse dangerous work and withdraw from dangerous workplace.	
Clause 8.1 Operational planning and control	
Clause 6.1: Actions to address risks and opportunities/Hazard identification, risk assessment and determining controls.	
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	29
30. COP 102: MCOP: Risk based emergency care on mine	
Clause 8.1 Operational planning and control	
Clause 8.2 Emergency preparedness and response	30
31. COP 103: Use of mobile devices on the mine premises	
Clause 6.1: Actions to address risks and opportunities/Hazard identification, risk assessment and determining controls.	
Clause 8.1 Operational planning and control	
Clause 8.2 Emergency preparedness and response	31
32. COP 22: SHEQ Inspection	
Clause 8.1 Operational planning and control	
Clause 8.2 Emergency preparedness and response	32
33. COP 23: Internal and external audit.	
Clause 9.2 Internal audit	
Clause 9.2.1 general and 9.2.2 internal audit programme.	33

Notes:

1. If a COP is not applicable to your section, please complete and attach the “Not Applicable” form in the space of the COP.
2. Always keep your file neat and clean.
3. A Foscok representative may add or remove any other Foscok safety, health, quality, and environmental policies and/or procedures deemed applicable.
4. If a COP is not applicable to this contract/project, please complete and attach the “Not applicable” form in the space of the COP.

18.2 TYPICAL CONTENTS OF SAFETY FILE:

- i. Title and index cover page
- ii. A copy of the PERMIT TO WORK.
- iii. A copy of the OHS Act 85 Of 1993 SHE Rep appointment letters.
- iv. A copy of Foscok COP 25, Service provider control.
- v. Base line risk assessment of ALL and ANY POTENTIAL tasks that may be performed on site under this contract.
See Foscok COP 26, Critical Task Descriptions for details.
- vi. Copies of critical task descriptions and standard operating/maintenance procedures.

- vii. Copies of the appointed service providers safety, health, environmental, HIV and AIDS, smoking and waste management policies.
- viii. Training records of all on-site employees.
- ix. Employee records of actual time worked (Normal and overtime).
- x. Copy of on-site induction training.
- xi. Records of inspections of TMM (Trackless Mobile Machinery) and trailers. See Foskor COP 59, Trackless Mobile Machinery for details.
- xii. Records of issues and inspections of PPE (Personal Protective Equipment) and safety equipment. See Foskor COP 65, Personal Protection Equipment for details.
- xiii. Records of issues and inspections of PEE (Portable Electrical Equipment). See Foskor COP 60, Portable electrical Equipment for details.
- xiv. Records of issues and inspections of tools and equipment. See Foskor COP 63, hand tools for details
- xv. Records of daily, weekly and monthly 2.6.1 / SHE Rep safety inspections. See Foskor COP 22, SHE Inspections for details.
- xvi. Records of daily green-area and safety talks. See Foskor COP 7, Communication for details.
- xvii. Any other documents, certificates or records as requested by a Foskor official deemed necessary to ensure that all safety, legislative and administrative requirements have been met.

Note:

The successful bidder / service provider can obtain updated Foskor COP's and Engineering Specification on request from Abigail Modika at the Projects Department on 015 789 2005 or abigailm@foskor.co.za.

18.3 REMINDER OF RISK IDENTIFICATION – LIFE SAVING RULES

Adherence to the Foskor lifesaving rules is mandatory and should be communicated. The lifesaving rules are as follows:

- Risk Assessments and clearance certificates
- Lifting operations
- Working at heights
- Confined space entry
- Positive energy Isolation and lockout
- Moving Machinery
- Personal protective equipment

Risk assessment is applicable to all jobs and training apply to all that will do physical work!

19 PARAMETERS

19.1 DESIGN PARAMETERS

All plant and equipment will be designed to:

- Operate satisfactorily under atmospheric, ambient, and other conditions present at the site location
- Ensure interchangeability of units and/or sub-parts throughout the plant to reduce spares holding requirements – take old plant equipment into account
- Ensure reliability and maintainability. Minimum availability of 98% is required
- Operate without undue vibration, stresses (temperature and built-in) and excessive noise
- Comply with legal requirements in terms of the water license and DWA

19.2 SPECIFICATIONS, CODES, STANDARDS AND REGULATIONS

The Latest edition of the South African National Standards in effects at the date of projects design shall establish the minimum requirements for design, materials, and construction. This should be referenced with the Foskop General Engineering specifications and requirements of the Foskop SHERQ system (COP's). No work shall be contemplated which is in breach of any legislation in South Africa – Typically:

- Water license - 04/B72K/ACGIJ/962 Requirements
- Occupational Health and Safety Act (Act 85 of 1993)
- Mine Health and Safety Acts and regulations (Act 29 of 1996)
- Explosive Acts and Regulations - South Africa
- DWS and the National Water Act.
- Foskop COP's and applicable General SHEQ Requirements
- Foskop Engineering Specifications
- Chamber of Mines / Mine Council SHEQ Requirements (Milestones)
- Atmospheric Emissions Licence - 13/2/AEL-02 Requirements
- The latest revisions of the SANS standardized specifications and Foskop Specifications as applicable at the time of quotation shall apply to this contract.

Note:

The equipment to be capable of continuous operation 24 hrs/day, 365 days/year with operating availability equal to 100%.

19.3 SITE GEOGRAPHY

The project will be executed in the community of Ba- Phalaborwa Local Municipality, Limpopo, South Africa

19.4 AMBIENT CONDITIONS

- Ambient temperature

Summer	35 °C Avg.	50 °C Max
Winter	17 °C Avg.	2 °C Min

- Site Altitude: 380 m
- Prevailing wind direction: Generally South Easterly - Maximum design velocity 40 m/s (144 km/h)
- Very dusty conditions
- Average annual rainfall = 540 mm

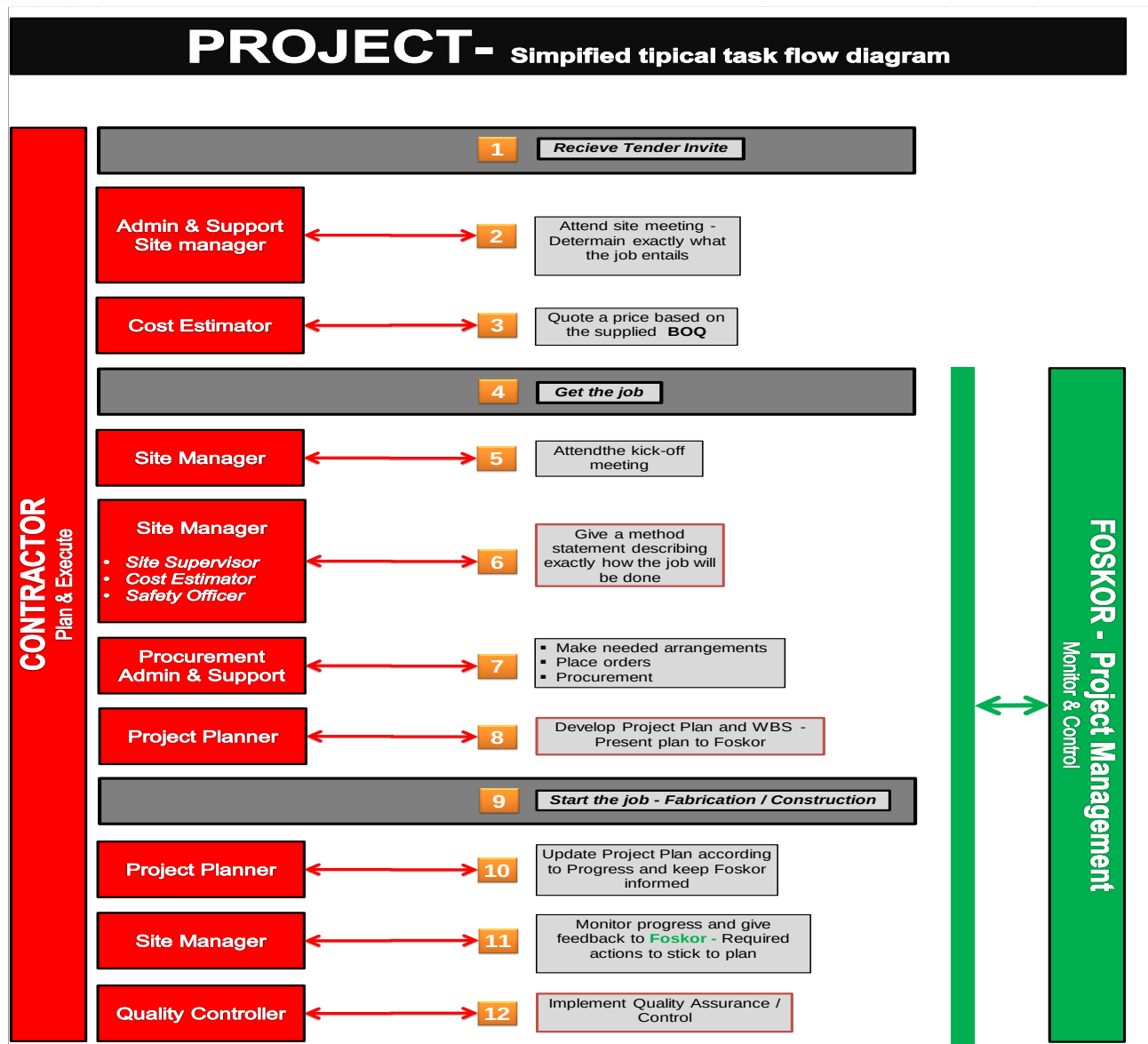
19.5 ADDITIONAL SPECIFICATIONS IF REQUIRED

- Not Applicable.

20 PROJECT MANAGEMENT - CONTRACTOR

- Nominate a single window of communication to Foskor – Typically the appointed contractor 2.6.1
- Attend meetings as agreed during the project kick-off meeting
- Submit Progress reports (Format & interval) as defined in the Kick-off Meeting (Invoicing, Labour, Performance against the plan, Contractor purchases, Quality Management, Safety, Etc.
- Manage and participate in the “Daily Journal” as part of executing the project
- All meetings will be held at FOSKOR offices unless otherwise stated
- The contractor to provide updated project management plans on progress as defined by the Foskor Project Engineer.
- If the project is executed based on a shutdown approach the contractor will produce a formal Works Breakdown Structure of the works.
- If the contractor cannot produce a proper WBS then the contractor will be required to subcontract this function to produce the WBS and manage the WBS for the duration of the project. This cost must be included in the contractor's price
- WBS - WBS** is a hierarchical and incremental decomposition of the project into phases, deliverables, and work packages. It is a tree structure, which shows a subdivision of effort required to achieve an objective, for example, a program, project, and contract.
- This includes arrangements, tools, equipment, labour, Tasks, Purchase, Quality, Communication, etc
- Project progress updates** - If the contractor cannot produce proper updates on a WBS then the contractor will be required to subcontract this function to produce the WBS updates for the duration of the project. This cost must be included in the contractor's price

The Service provider is responsible for managing the project and this is graphically displayed below indicating where what functions lies. Graphical presentation only covers some basic aspects.



20.1 ADDITIONAL PROJECT MANAGEMENT REQUIREMENTS:

- None

21 PLANNING AND SCHEDULING:

- The Project Section has a planning standard that needs to be adhered to during the execution as per the relevant order placed
- The FOSKOR scheduler can be contacted to provide schedule details input and guidelines if needed.
- Schedule must be compiled within one week after kick-off meeting conducted by the FOSKOR Project Leader
- The Contractor schedule needs to be signed off by contractor 2.6.1 before approval by FOSKOR
- The FOSKOR scheduler will issue the Templates to be used - This template must be adhered to and no changes to be made

- Progress Update is needed every once week one day before the weekly progress meeting or as requested
- The progress Updates to be submitted to Foskop Scheduler/Planner via email.
- It is the contractor's responsibility to appoint the competent person to manage the contractors schedule which that person will directly communicate with Foskop Scheduler - If the contractor's responsibility to add cost of the competent person on the project. Commercial action to be taken if the performance in planning is lacking
- Foskop requires all contractors to use MS project software which it will be fully implemented latest 1 February 2022.

21.1 TYPICAL ASPECT THAT NEEDS TO BE ADHERED TO

- It is the subcontractor's responsibility to produce a detailed schedule which tie up to the Foskop standards of requirements.
- The Schedule must not have open ended activity task.
- The schedule must be fully resourced.
- The schedule must not have constraints.
- The Calendar must be created and assigned in the schedule. Confirm the templates with the Foskop Scheduler
- It is Foskop responsibility to review the schedule before it's been approved
- A schedule must be Approved by Project scheduler/Project Manager & Project Engineer
- The approved baselined schedule must be updated by the contractor to show Planned Vs Actual
- The contractor must show S-Curve which will be constructed from the schedule.
- Project Updates Must be submitted to the Project Planner/Scheduler for review.

21.2 LIAISON AND CO-OPERATION WITH OTHERS

- The CONTRACTOR/ SERVICE PROVIDER shall be required to co-operate and liaise with Foskop appointed project manager
- The CONTRACTOR/ SERVICE PROVIDER must note that construction is within an operational plant.
- The CONTRACTOR/ SERVICE PROVIDER may appoint a Foskop approved sub-contractor
- The CONTRACTOR/ SERVICE PROVIDER shall be required to work in conjunction with the Foskop appointed structural-, electrical-, equipment- and instrumentation installation contractor – if applicable.

22 GENERAL CONDITIONS – COMMERCIAL

22.1 EXTENSIONS, PENALTIES AND RETENTIONS

- a) Extension on the promised completion or Milestone date may be requested but needs to be approved by Foskor. The contractor should be in possession of a formal document issued via Foskor Procurement indicating that this request was approved
- b) Any additional works not defined in the order needs to be approved by Foskor in writing before any work commence.

Description	Condition	Duration
Penalties	2% per week, maximum of 8%	Late Delivery after promised completion date
Performance Bond	0% of Contract Value	0 Year after completion
Retention	10 % of Contract value	Release after 6 months
Type of Contract	Foskor General condition of contract	
Tender price validity	Per RFP document	
Escalation	None	None

All delays must be immediately brought under the attention of the section engineer and the responsible party agreed upon immediately.

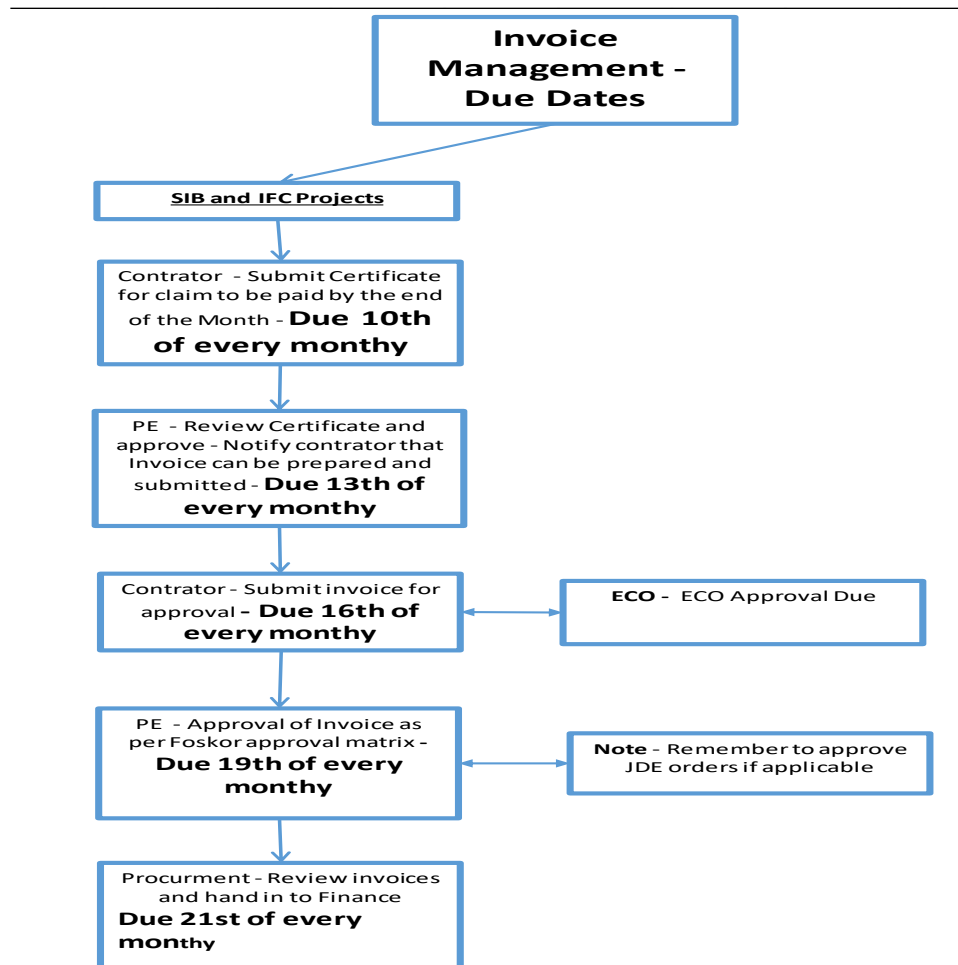
23 AFTER SALES SERVICE OR REQUIREMENTS

23.1 AFTER SALES SERVICE REQUIREMENTS ARE LISTED BELOW:

- a) Full description of guarantee and guarantee period to be attached to the official tender
- b) Full description of planned support during AND after the guarantee period to be attached to the official tender.

24 INVOICE DUE DATES

The due dates for claim certificate are the 12th of every month. Invoices are due the latest the 15th of every month.



25 TENDER EVALUATION CRITERIA

- As part of the process to assist with the evaluation of the bidder's proposal/quotation and to make an informed decision in the awarding of this tender, the following information is required
- The following tender evaluation criteria will be used for adjudicating the Contractor submitted tender.
- Please provide the required documentation as requested in the "Proof/documents to be submitted" column. Please be specific when submitting documents by ensuring that they answer the item specified.
- Please use the annexure number as indicated to identify the proof submitted.
- Failure to submit the relevant documentation as requested in the Evaluation criteria document may lead to a disregard of the submitted tender.

26 EVALUATION CRITERIA (TECHNICAL)

Technical Evaluation: Supply, Delivery, Installation and Commissioning 10X20M Solar High Mast Lights

Item	Technical Criteria Description	Proof / documents to be submitted	Annex No.	% Contribution
1	Experience & Team competence			
a)	Company – Previous experience in the supply, Delivery, Installation and commissioning of High Masts Scoring: up to 2 projects = 40% up to 4 projects = 60% more than 5 projects = 100%	Projects reference list with 1. project values, appointment letter and completion certificate. 2. contact numbers for verification	<u>Annexure A</u>	30%
b)	Professional Engineer/ Technologist Scoring: Bsc/Btech Electrical with ECSA registered. 6 yrs and above as registered person = 100% From 4 yrs to 6 yrs as registered person = 70% From 2 yrs to 4 yrs as registered person = 50% Below 2 yrs as registered person = 0%	Provide certified copies of certificates/ qualifications and CV as proof	<u>Annexure B</u>	20%
c)	Project team organogram indicating names, positions and trade for this project. Scoring: No Organogram= 0% Organogram with some skills = 5% Organogram with all relevant skills = 10%.	Provide organogram with names, positions and skills. The bidder is responsible to have sufficient team to execute the scope of work.	<u>Annexure C</u>	10%
2	Company Capacity			
a)	Quality control plan from previous client and Quality management system (QMS). Scoring: No QCP = 0% QCP not signed off = 5% QCP signed off = 10% NO ISO 9001 certificate = 0% ISO 9001 certificate = 10%	Provide 1. a signed QCP from a previous client not more than 5yrs (similar project) and 2. ISO 9001 certificate from original equipment manufacturer (OEM)	<u>Annexure D</u>	20%

b)	Company- Execute similar project according to a previous approved WBS/project schedule from previous client. Scoring: No WBS/project schedule = 0% WBS/ Schedule not signed = 5% WBS/ Schedule signed off = 10%	Provide proof of one (1) previous signed off WBS/project schedule, not more than 5 yrs (similar works)	<u>Annexure E</u>	10%
3	Plant & Equipment			
a)	Plant & Equipment Scoring: 8 Ton truck with hi-up = 4 % Cherry picker =3 % 1-ton LDV= 3% Lack of any item above = 0% for the specific item.	Provide proof of E-natis registration/ License Disc papers. Full points (own by the company/ Director) and half points for leased Equipment.	<u>Annexure F</u>	10%
Total Technical Score				100%

Notes:

For a bid to be considered the bidder needs to comply to all mandatory requirements and score 70% and above

Foskor pricing schedule should be used for the pricing

27 COMMERCIAL EVALUATION REQUIREMENTS:

27.1 FINANCE

As directed by Procurement Department – Linked to Approved Supplier database

- a. Suppliers Account – In good standing - Supply relevant major supplier account information

Note! Additional requirements to be defined by procurement

28 PRICING SCHEDULE

Tender No.: FOSPHB-RFP-50-24/25

Description: – Supply, Delivery, Installation and Commissioning 10 x20M Solar High Mast Lights

BILL OF QUANTITIES

ITEMS	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
1	Preliminary and General Allow for Compliance with all Specification Preliminary and General Conditions and Contract and for Site Establishment and for Providing a Site Office and Adequate and Suitable Water, Sanitation and First Aid Services for Attending all Inspections, Trainings, Transportation and Site Meetings.	Sum.	1		
1.1	Transportation (From camp to various sites for the period of the project)	Sum.	1		
2	LIFTING AND CRANAGE 35-ton Crane for The Lifting and Erection of Mast – Max no. 10 High Mast Poles	Sum.	1		
3	DESIGN REPORT Foundation Designs and Drawings as Per Underground Assessment	Sum.	1		
3.1	CONCRETE FOUNDATIONS Casting Minimum of 25Mpa Concrete Including Reinforcing Steel Per Mast as Per Approve Design. Including DCP Test and Test Cube Results	No.	10		
4	FLOODLIGHTS Supply, Delivery and Installation. Mounting and wiring of 120W LED Lights 6 Per Mast. Including Solar Panels	No.	60		

5	POLES SUPPLY & INSTALLATION Supply, Delivery & Installation 20 Meter long Galvanized Steel Mast Pole That Can Accommodate 6 Floodlights with Solar Panels Per Mast.	No.	10		
6	CONSUMABLES PER MAST Complete HD Bolts, Template and Keeper Plate Set	No	10		
7	Earthing for The Installed Masts (including Excavation, Compacting & Backfilling)	No.	10		
8	SERVICE or MAINTENANCE KIT Supply Portable Double Drum Winch	No.	1		
8.1	Supply Hydraulic Power Tool with Remote and 3 M Test Lead	No.	1		
8.2	Supply 4 pin Vandal Proof Key	No.	10		
9	TESTING AND COMMISSIONING OF TEN MASTS Includes but not limited to testing and issuing of Certificate of Compliance	Sum.	1		
10	OTHER (Specify)				
11	SUB TOTAL				R
12	15% VAT				R
13	TOTAL TENDERED AMOUNT				R

All price alterations must be signed for by the bidder confirming that such changes were made by the Bidder. **PLEASE NOTE THAT PRICE CHANGES WITHOUT A SIGNATURE WILL LEAD TO THE DISQUALIFICATION OF THE BID SUBMITTED.**

NOTE: The onus lies with the tenderer to make sure that all formulas and calculations are correct. Calculation errors discovered during the evaluation process will be logged as a non-conformance and the tender/quotation will therefore be disregarded

29 ACCEPTANCE

The conditions and requirements as stated in this "Scope of Work" are accepted with the following **exceptions/exclusions**: -

The conditions and requirements as stated in this "Scope of Work" are accepted with the following **inclusions**: -

30 SUB-CONTRACTOR (PLEASE PROVIDE LIST AND FUNCTION)

Failure to complete this form will lead to disqualification – Please do not leave blanks!

BBBEE Level		Black Ownership	%	Black Woman Ownership	%
Tender Validity	Days	Manufacturing Period	Days	Installation Period	Days
Guarantee	Months	Commencement after receipt of official purchase order			Days
Payment terms					

Price Basis for the duration of the contract/till supply of goods (Please tick):

Fixed	☐	Duration of fixed price	☐ 12 Months	☐ 24 Months
Variable	☐	Price Base Date		

If variable provides price variation factors, percentages and formula in the cover letter. (Please specify indices to be used)

Price variation factors & percentages (e.g. material, labour, fuel, overheads, admin etc)

Factor	%	Factor	%	Factor	%	Factor	%	Factor	%

Where prices include a foreign currency rate please provide:

% of price, subject R O E % ROE = ZAR

ROE Base Date

Note: If the above fields are not completed, it is confirmed that the quoted price/s are valid for the entire contract period mentioned and no escalation in the price is allowed under any circumstances.

I, _____ in my capacity as _____ for and on behalf of _____ hereby acknowledge that I have read and understand the Instruction to Tender and the Scope of Work as detailed in this document and accept all the Terms and Conditions of Tender **FOSPHB-RFP-50-24/25**

Signed at _____ on this the _____ day of _____ 2025

Signature: _____

Witnesses:

1. _____ Name: _____

2. _____ Name: _____

For and on behalf of Foskor (Pry) Limited

Name: _____ Signature: _____

Designation: _____ Date: _____

Note: It is imperative to complete this schedule in full where applicable, marked "N/A" where not applicable and signed off in full, **unsigned bids will not be accepted**. All the supporting documentation requested with the tender document, scope of work and evaluation criteria need to be submitted with the tender. Tenders received without supporting documentation requested for the tender evaluation **will not be considered**.

31 DOCUMENTED INFORMATION

DESCRIPTION	RESP.	LOCATION	FILE NAME / INDEX	RETENTION TIME (MINIMUM)
Scope of Works	Procurement	Procurement	Procurement	As per Procurement Policies and procedures

32 REFERENCES

Code of Practice Foskor Risk Assessment (COP 01).

Quality Management Systems – Requirements (ISO 9001:2015).

Environmental Management Systems – Requirements with guidance for use (ISO 14001:2015).

Occupational Health and Safety Systems – (ISO 45001)

33 SCOPE APPROVAL

Signature (BSC Chairperson)

Name:

Date: