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**PUBLIC DOMESTIC ELECTRICITY HOUSE
CONNECTION**

Contents

1. STATEMENT OF INVITATION.....	2
2. MINIMUM REQUIREMENTS	2
3. SPECIAL CONDITIONS OF THE CONTRACT	2
4. DEFINITIONS AND ABBREVIATIONS	7
A. SCOPE OF WORK	8
B. TECHNICAL SPECIFICATION.....	8
6. HEALTH AND SAFETY REQUIREMENTS (APPLICABLE)	18
7. EVALUATION CRITERIA.....	18
8. PRICING	20
9. CONTACT DETAILS.....	27
16 RESPONSIBILITIES.....	42
INDEX.....	45
ANNEXURE A.....	45
MANDATORY AGREEMENT AS PER SECTION 37(2) OF THE ACT	49

1. STATEMENT OF INVITATION

CENTLEC (SOC) Ltd (hereafter referred to as CENTLEC) a municipal entity distributing electricity in Mangaung Metro and other Municipalities, invites suitable bidders to bid for public domestic electricity connections within the CENTLEC'S area of supply for a period of 36 months.

2. MINIMUM REQUIREMENTS

Minimum submission requirements - any omission of the below listed items would render an automatic disqualification.

- 2.1 Registration with ECB/ECA
- 2.2 CIDB grading – Level 6 EP
- 2.3 Valid letter of good standing with the Compensation Commissioner.
- 2.4 Supply unique security personal identification number (PIN) and/or original TAX Clearance Certificate for TAX compliant status.
- 2.5 Supply municipal services (water, sanitation, rates and electricity) clearance certificate or Lease Agreement with a current Bill and rates clearances, or Current Bill of Account not owing more than 90 days. In a case where the services are paid by the Landlord, the signed lease agreement and statement of account must be submitted by the bidder.
 - 2.5.1 In an event, that the Bidder utilizes prepaid services (e.g. Water or electricity) a valid municipal clearance certificate(s) must still be provided.
- 2.6 The bidder must submit proof of registration on the National Treasury Centralized Suppliers Database
- 2.7 The Supplier shall comply to all the Special Conditions as per the Table in Item 3

3. SPECIAL CONDITIONS OF THE CONTRACT

DESCRIPTION	Yes	No	Supporting Documents Required
The successful bidder will be expected to supply CENTLEC with a complete safety file within two weeks of receiving the appointment letter. The specification of this safety file is the attached in Annexure 1.			Submit upon appointment
In the event that the successful bidder(s) appoints sub-contractors, the following will be expected:			
The successful bidder will have to ensure that the contractors to be appointed will be supplied with Safety Health Environment and Quality (SHEQ) specification.			Submit upon appointment
The successful bidder will have to ensure that the SHEQ documentation is audited regularly for the duration of the contract.			Submit upon appointment

DESCRIPTION	Yes	No	Supporting Documents Required
The successful bidder will be expected to enter into a Service Level Agreement with CENTLEC.			Signed upon appointment
CENTLEC reserves the right to appoint more than one contractor.			N/A
It is a stipulation of this contract that the client can extend this contract to increase the number of domestic houses to be connected. If this situation arises, the client reserves the right to utilize the unit prices as bid for the extension of contract. Further performance securities will have to be supplied by the successful bidder if the client wishes to extend the contract. Preliminary and general items will be handled on a pro rata method but will be negotiated with the successful bidder.			N/A
CENTLEC reserves the right to supply material for the works to the successful bidder.			N/A
The Contractor will be remunerated only after an inspection was done and the work is found satisfactory.			N/A
The Contractor must submit a profile of resources (human, plant and equipment)			Yes
This bid will be executed on an ad-hoc basis.			N/A
The Contractor must submit a record of similar successfully completed projects			Yes
The successful bidder shall ensure that his employees are properly informed and trained to perform the task. All his employees, who will work on this bid, shall attend and complete, successfully, the CENTLEC SOP course at the CENTLEC Training Centre.			N/A
The bidder shall ensure that no property (municipal or private) is damaged or misused in the execution of the task.			N/A
The bidder shall be registered at the Department of Labour.			Yes
The bidder shall be registered at SARS and provide a valid tax certificate. The bidder must be registered with the National Treasury data base of suppliers and proof thereof must be submitted.			Yes
Once appointed, suitable insurance cover shall be subscribed to, to cover any possible liability claims due to misconduct of the employees of the bidder			Submit upon appointment
The bidder shall ensure that all tasks are performed in line with applicable legislation,			N/A
e.g., OHS ACT, Construction Regulations, Labour Act, Electricity Amendment Act, Electricity Supply Regulations, the Mangaung Metro Municipality By-laws relating to electricity supply and the Standard operating procedures of CENTLEC.			N/A
The successful bidder shall conduct a risk assessment of the work to be performed and must ensure that spares on this equipment are available in a reasonable time.			Submit upon appointment
The successful bidder shall compile and present a health and safety plan based on the risk assessment.			Submit upon appointment
The principal contractor shall inform CENTLEC of any sub-contractor they employed during the duration of the contract and the principal contractor shall ensure that the Health and Safety file is updated accordingly.			Submit upon appointment

DESCRIPTION	Yes	No	Supporting Documents Required
CENTLEC will carry out periodic audits at least once a month. The time frames will be agreed upon by the contractor and CENTLEC.			N/A
The bidder must supply power plant to supply himself with power (400V, 3 phase) where necessary.			Submit upon appointment
The Bidder must be a South Africa based company with all the necessary facilities to supply the required hardware. (Profile of company)			Yes
The Contractor will provide all plant, material, transport and labour required for the construction and commissioning of the replaced equipment.			Submit upon appointment
Site information:			
Existing Services - The site conditions vary and the contractor needs to establish the existing services prior to site establishment. The Contractor shall supply at his own expense, all water and electricity to the site for carrying out the installation. The Contractor shall erect and maintain at this own expense suitable and approved temporary fencing to enclose such areas of the works to be carried out and all areas of land occupied by the Contractor within the Site as may be necessary to implement his obligations under the Contract.			N/A
Accommodation on Site - No housing is available. If required, the Contractor shall provide all accommodation required.			N/A
Ablution Facilities - The Contractor shall provide for the duration of the contract ablution facilities on the site in the form of chemical closets for the use of personnel employed by the works. All ablution facilities provided by the Contractor shall be efficient, sanitary and non-offensive and all sanitary fees payable to any local authority shall be paid by the Contractor.			N/A
All damaged and redundant equipment must be delivered to the supply chain stores, scrap yard. The site should be cleared of all rubble and be disposed off appropriately.			N/A
There will be 12 months defects liability period on the workmanship.			Submit upon appointment
Penalties (10%) will be imposed on the contractor, for delays and not keeping to the agreed time lines for specific phases of the project. (As per the program of works submitted)			Submit upon appointment
The bidder must provide proof of a valid public liability insurance for the duration of the project of at least R1 000 000.00.			Submit upon appointment
The contractor tender for the supply and installation of all material and only new material shall be used as scheduled. The bidder must make sure that the necessary material are ordered and delivered in time for the work to be completed. Only in exceptional cases shall CENTLEC consider to supply material to the contractor. A written application must be furnished which state the reason why material cannot be supplied by the contractor. The material will then be deducted from the next payment as per tendered prices.			N/A
If a contractor is unable to install the connections due to unrest situations, then the contractor shall inform the Project Manager			N/A

DESCRIPTION	Yes	No	Supporting Documents Required
of CENTLEC in writing of such unrest situation.			
The contractor will provide CENTLEC with the name and 24hour telephone number of the supervisor/contact person on site in respect of each road crossing.			Submit upon appointment
Where trees are in the way of trenches being excavated minimal damage to the root system should be caused by the contractor. In cases where the root system cannot be avoided excavations should take place underneath the root system.			N/A
Any trees or shrubs that are removed shall be reestablished in roughly the same position by the Contractor. If proven that the tree died because of excavations done by the contractor removal and replacement of the tree will be for the contractors account.			N/A
CENTLEC will be responsible for laying all cables and shall supply the sleeves for road and drive way crossings.			N/A
The Tenderer shall, beforehand, make sure of the circumstances and conditions in the residential areas as well as the probable distances that have to be travelled in order to execute the work. No claims for additional trips or wrong transport calculations shall be considered.			N/A
The work <u>shall</u> be executed according to the requirements as described in this specification.			N/A
If the contractor's tempo of work is slow or should he fail to repair defects and / or the quality of work is continually of a low standard, the <u>contract would be terminated after two written warnings</u> and the contractor shall be remunerated for the material, Labour and transport for such work that has already been executed correctly and according to specification.			N/A
Although services will as far as possible be shown on the drawings given with each job card, the contractor should use this only as a guideline, and therefore can't be used as absolute reference while excavating. Services must still be physically shown to the contractor by the relevant party's involved (Telkom and Municipal services).			N/A
The contractor shall leave a note or a formal letter, with his telephone number or address on it, at the house of the consumer if the house is locked. The consumer must be able to contact the contractor in order to arrange an appointment or to arrange a time for the installation.			N/A
If the contractor should fail to comply within the framework of the instructions, technical requirements, drawings and within the framework as contained in the specification, then CENTLEC shall be within its rights to cancel the contract and to cease all further work to the contractor. CENTLEC shall compare the costs of material (according to specification) outstanding or of the work still to be done to complete the contract against the money owed to the contractor.			N/A
The contractor as <i>the responsible person</i> shall see to it that he as well as all his staff is properly informed pertaining to the safety regulations in order to be able to work in the vicinity of both low - and medium voltage cables. <i>Employees shall be able to recognize medium- and low voltage cables, avoid unnecessary risks and in terms of the relevant act (OHS 85</i>			Submit upon appointment

DESCRIPTION	Yes	No	Supporting Documents Required
<i>of 2017) be competent to, or at least be able to execute the work under supervision of a competent person.</i>			
The contractor can only submit a claim after all connections on a claims form has been completed, as was mentioned before. <u>No claim, in terms of connections shall be paid, unless a duplicate of the certificate of compliance is submitted therewith. Incomplete certificates are unacceptable.</u>			N/A
The contractor shall be supplied with layout drawings and only the addresses on the drawings shall be provided with electrical connections and <u>absolutely no</u> other addresses.			N/A
Any damages to existing services such as water pipes, Telkom cables and electricity cables shall be for the account of the contractor. The contractor shall thus ascertain beforehand the position of services in the area where work must be executed.			N/A
The contractor shall perform the necessary tests on every installation according to the requirements as prescribed by the Occupational Health and Safety Act, 2017 (Act 85 of 2017), Regulations on the installation of Electricity and shall complete the results on a certificate of compliance. The original certificate shall be handed over to the owner and a copy shall be submitted to CENTLEC. No claims in the respect of completed work shall be remitted until such time that the above mentioned requirement has been complied with.			Submit upon appointment
Under no circumstances will the contractor be allowed to pull the Airdac to live overhead lines or to do any live work on the CENTLEC network. Information regarding the responsible person in terms of the Occupational Health and Safety Act, 2017 (Act 85 of 2017) must be submitted with the tender documents.			N/A
The contractor as the responsible person shall see to it that he as well as all his staff is properly informed pertaining to the safety regulations in order to be able to work in the vicinity of both low- and high voltage equipment. It is imperative that all personnel involved must be able to differentiate between low- and high voltage conductors in cases where the connection cable (Airdac) is to be pulled to an overhead line by the contractor and test for live equipment before commencing any work. Employees shall be able to recognize high voltage equipment, stay away from it and in terms of the relevant Act (85 of 2017) be competent to, or at least be able to execute the work under supervision of a competent person. It will be required from the successful bidder personnel to undergo SOP training, at CENTLEC training centre, at the bidders' expenses			N/A
All legal aspects, in terms of the exact position of the service regarding the other services (for example Telkom) shall be adhered to. All wayleaves must be obtained for services before commencing with work by the successful bidder. (For example, the minimum clearance regarding other services).			N/A

4. DEFINITIONS AND ABBREVIATIONS

- 4.1 Comparative offer** means the Bidder's financial offer after the factors of non-firm prices, all unconditional discounts and any other Bided parameters that will affect the value of the financial offer have been taken into consideration.
- 4.2 Corrupt practice** means the offering, giving, receiving, or soliciting of anything of value to influence the action of the employer or his staff or agents in the Bid process.
- 4.3 Fraudulent practice** means the misrepresentation of the facts in order to influence the Bid process or the award of a contract arising from a Bid offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels.
- 4.4 Quality (functionality)** means the totality of features and characteristics of a product or service that bear on its ability to satisfy stated or implied needs

A. SCOPE OF WORK

The scope of work for the successful bidder will be for the installation of house connections using CENTLEC's standards.

It will be expected from the successful service provider to supply (when it is requested) and install pre-paid meters, ready boards, plot boxes, bundle boxes, splitter boxes, 3CR12 boxes, 2-way boxes, 4-way boxes, 6-way boxes, 8-way boxes, planting of kicker poles and Airdac connection. Prepaid meters shall be supplied by CENTLEC. On completion of all connections COC certificates of compliance must be submitted to the homeowner and the copy thereof to CENTLEC.

The appointed Contractor will be required to provide services as and when needed.

B. TECHNICAL SPECIFICATION

The CENTLEC Standards, SANS and NRS specifications form the basic quality guidelines of the installation and serve to set the standards to which individual components as well as the complete installation must adhere to. In all cases the latest available update of the specifications mentioned applies to this contract. All material supplied must be new and undamaged and SANS mark-bearing materials shall have preference. Not all specifications are relevant to this contract, only those applicable shall prevail.

It is expected from the bidders to ascertain themselves with the methods and means according to which the work shall be executed by having a look at a typical example of such an installation. The work, none the less, is described in fair detail hereunder. The contractor shall also confirm, on the Annexure herewith attached, by means of signing it, that such an installation has been examined and signed off.

5.1 DESCRIPTION OF WORK

Installation of public domestic electricity house connections in all CENTLEC's area of supply, this includes Kopanong, Mohokare and Mangaung Metro Municipality.

5.1.1 INSTALLATION OF 230V KEYPADS

5.1.1.1 **An Airdac cable shall have the CENTLEC mark on the outer sleeve. The Airdac cable (with a 10 mm² x 3 core, orange color connection cable with communication cores (THCU/GSW 10mm² XLPE(UV) SNE + COM YEL SAFERDAC - SANS 1507 AFAA) shall be strung from the meter inside the 3CR12 boxes/stubby box. The connection of the conductors to the electrical box shall be performed by the Contractor. Cognizance must be taken that the network might be energized.** A typical outlay of such a connection is indicated on the drawing that forms part of the specification. Airdac shall be tightened in such a way to allow for the necessary minimum clearance of 2.5m. An extra 1 m length of Airdac cable shall be looped between the clamp attached to the dwelling and the entrance to the Ready board in order to accommodate future relocation as well as serve as a waterdrip loop. Such a loop shall be neatly tied with cable ties.

5.1.1.2 The conductors of the Airdac cable shall be made off in such a way that the contractor have to make the connection to the meter inside the 3CR12 box or stubby box at the pole on the stand boundary and on the ready board inside

the dwelling. Conductors shall not be made off too short. If it is decided that Split electricity dispensers are to be installed for overhead connections the contractor shall mount the

Keypad and connect the communication wires. The price schedule also makes provision for the contractor to install the meter. (Any fault from the contractor will be for his/her own expense)

- 5.1.1.3 A hole, for a 25 mm diameter PVC conduit, which is used for the supply cable, shall be drilled through the wall of the dwelling where the base board will be installed. If the dwelling has been fitted with a distribution board, then a hole must be drilled for the supply thereto. A dwelling that has been fitted with a distribution board, may not be fitted again with a Ready board.
- 5.1.1.4 A base board with a Ready board mounted thereon shall be installed level at a height of 1,6m in that dwelling. The base board shall be attached through the wall by means of 8 mm threaded rods. On the outside of the wall either 50 mm x 50 mm square washers or 50 mm diameter washers shall be fitted to the threaded rod where after it shall be tightened with an 8 mm nut and then the rod shall be riveted. The base board shall be installed in such a way that the hole that is drilled through the wall, for the supply cable, corresponds with the hole on the base board. The contractor shall clarify the position with the homeowner or the occupant of the dwelling if a Ready board must be installed. Absolutely no holes shall be drilled into the base board or into the Ready board. Only existing holes are to be used.
- 5.1.1.5 A 25 mm diameter PVC conduit shall be installed onto the outside wall by means of 2 (two) galvanized pipe saddles which shall be fixed with 6 mm "Fischer" plastic wallplugs and self-tapping screws. The conduit shall be installed with a 90° bend at the top in order to prevent damp or water entering the conduit. The bend shall be properly sealed with a silicon sealer where the cable enters it. The purpose of the conduit is that it serves as the access for the Airdac cable into the Ready board. The Airdac between the clamp attached to the roof of the house and the access conduit to the base board, shall be fitted in the same manner as the access conduit. (The extra meters of Airdac shall be tied with cable ties).
- 5.1.1.6 The digging of a hole and the planting of a 7m wooden pole, next to the informal houses, to obtain a clearance of 2.5m over private property (drawing TS – 5 – 9). The pigtail screw must be installed 100mm from the top of the pole. No 7m poles will be planted next to existing RDP houses if the safety clearance of 2.5m is not maintained. In order to pull the Airdac cable from the overhead low voltage power line to the house, if it is built out of solid brick then either an L-bracket (drawing TS - 5 - 3) on the rafter of the dwelling or a wall bolt with eye nut shall be used, drilled at the highest point (ridge of the roof) into the wall. The clamp/bolt shall be installed as high as possible to ensure the maximum clearance between the Airdac cable and ground level. The clamps shall be fixed in such a secure manner in order to accommodate the tension of the Airdac cable. The Airdac shall also be installed in such a manner, that there is a gap between the edge of the roof, and the Airdac, to ensure that there is no possibility that the Airdac and the edge of the roof rub against each other, to prevent possible fault occurrences, (short circuits).
- 5.1.1.7 The Ready board shall be wired as indicated on the schematic diagram. No other method of wiring or connecting method shall be accepted. The wiring must be done to the consumer's distribution board, provided that this connection does

not require a Ready board.

5.1.1.8 Any damages to the brick- or plaster work shall be repaired by the contractor. Repairs shall be covered by at least two coats of PVA undercoat paint.

5.1.2 PRE-PAYMENT METER IN POLE MOUNTED METER BOX (SPLIT METERS)

In the case where a pole mounted meter box is used, for the mounting of the pre-payment meters, all the requirements as described in item 5.1.1 above, in terms of overhead connections, applies.

5.1.2.1 The meter box that forms part of the electrical network is mounted at a height of 2m above the ground. The meter box is pre-wired with a 120Ampère single pole circuit breaker. A split pre-payment meter shall be installed inside the meter box and connected. The base board with ready board (if required) and a keypad shall be installed and connected inside the house. (Drawing TS – 5 – 51)

5.1.3 CONNECTIONS AND JOINTS

5.1.3.1 Connectors such as lugs, clamps etc. shall be sized in accord with the conductor size according to the conductor type being Aluminum to aluminum or copper to copper, joints shall be made with the correct clamps as specified. When joining aluminum conductors proper care shall be taken to ensure that only well-suited materials are used. Terminating lugs shall be of the cold compression type. All aluminum to aluminum is to be coated with “Densal” paste regardless of the method of jointing and are to be wrapped in “Denso” tape.

All mid span joints, MV and LV shall be done to the satisfaction of the Employer. Clearances across roads shall be as specified for MV and LV reticulation Lines.

5.1.4 DIGGING OF HOLES AND PLANTING OF 7m POLES

5.1.4.1 The contractor shall dig a hole (1,3 m deep) and shall plant a 7m pole next to the informal house. The Airdac shall be pulled to this pole and down the pole fixed with cablesaddles at 500mm spacing.

5.1.4.2 In certain circumstances, where roads or streets are to be crossed, the contractor shall have to dig a hole (1.3m deep) on the stand boundary or in a position as prescribed and shall plant a 9m pole as required on the work instruction. No poles shall be planted at adepth less than 1,3 m. Poles must be planted upright with a plum level. The contractor shall see to it that, in such cases where more than one pole must be planted, the poles must line up parallel to the street.

5.1.4.3 Clearances shall be as follows; across main roads - 6.1m, across roads in townships –6,1m, along roads 5,5m, over private property - 3m

(Refer to drawings TS - 5 - 9 and TS - 5 - 12)

5.1.5 UNDERGROUND CONNECTIONS –Prepayment Meter Installation

5.1.5.1 The meter box will be on the erf boundary. For single phase connections the consumer’s electrician must install a 4-core cable (or 3-core cable plus earth) plus 2- core communication cable (for the 230V keypad).

5.1.5.2 The price schedules make provision that the contractor may install the mentioned meters in the meter boxes. A plan shall be supplied to the contractor, indicating the position of the meter boxes in the specific areas.

5.1.5.3 The keypad shall be mounted on the wall, at the position shown by the customer, with "Fischer" type wall plugs, and self-tapping screws and the communication wires connected to the keypad. Where a wireless keypad is installed no communication cores shall be connected.

5.1.5.4 The schedule of prices allows for the installation of meters if so, expected by CENTLEC.

5.1.6 CONVERSION FROM CONVENTIONAL (ROTATION) METER TO PRE- PAYMENT METER

5.1.6.1 Meter inside the house on base board:(Underground or Overhead Supply)

A new 2-way box shall be installed on the erf boundary and the rotational meter shall be replaced with a standard (split) pre-payment meter inside the 2-way box. For single phase connections the consumer's electrician must install a 4-core cable (or 3-core cable plus earth) plus 2- core communication cable (for the 230V keypad)

5.1.6.2 Meter inside a meter box on the outside wall of the house:

A new 2-way box shall be installed on the erf boundary and the rotational meter shall be replaced with a standard (split) pre-payment meter inside the 2-way box. For single phase connections the consumer's electrician must install a 4-core cable (or 3-core cable plus earth) plus 2- core communication cable (for the 230V keypad)

5.1.6.3 Meter box at the erf boundary:

The rotation meter shall be replaced with a Split pre-payment meter. The customer must supply and install the 2-core communication cable between the meter box and the position inside the house where he/she wants the keypad to be installed. The keypad shall be mounted on the wall, at the position shown by the customer, with "Fischer" type wall plugs, and self-tapping screws and the communication wires connected to the keypad.

Peri-Urban pre-payment meters shall always be installed in a meter box on the erf boundary. In some cases, a new meter box will have to be installed on the erf boundary and the existing meter be removed from the house and the tails properly ferruled and taped.

The contractor will receive a detailed drawing of the type of installation and the work to be done.

5.1.6.4 Installation of peri-urban meter boxes:

A six-meter wooden pole (minimum pole top 120mm) must be cut into two 3m poles and the sawn areas painted with creosote. The sawn tops must be bound with wire. Install a 3m wooden pole 1m deep as shown on the works drawing to be supplied.

- 5.1.6.5 Collect the Peri-Urban meter box from CENTLEC stores and mount on the wooden pole, as high as possible.

5.1.6.6 Installation of medium voltage and low voltage earth electrodes

5.1.6.6.1 For the installation of new Pole mounted Transformers, or maintenance of existing transformers, medium voltage and low voltage earth electrodes need to be installed. The price schedules allow under this contract for the installation of the abovementioned if and where required. Earth electrodes are constructed from vertically driven rods or a combination of buried horizontal rods (2.4m in length) and vertically driven rods (1.2m in length).

5.1.6.6.2 Earth electrodes shall be installed as deep as possible and not less than 500 mm below natural ground level/surface. The reason for this specification is that the layer of soil above the conductor forms an important medium into which the electrode can dissipate current. Each vertically driven earth rod shall be driven into undisturbed soil. Further, deep burial reduces the possibility of mechanical damage of the earth electrode.

5.1.7 Medium Voltage earth electrode:

- 5.1.7.1 The maximum allowable resistance of the transformer MV earth electrode should not exceed **10 ohms**.
- 5.1.7.2 A 2.4metre earth rod is buried horizontally (500mm deep), parallel with the road, next to the transformer structure. Three (3) earth pegs are driven into the ground, one in the center and one at each end of the horizontal rod. Only exothermic welded connections are allowed to connect the vertical rods to the horizontal rod.
- 5.1.7.3 Galvanized steel conductor (7/3.35) shall be used as the earth lead from the transformer tank to the earth electrode. Earth leads shall be fastened to wood poles using galvanized wire staples (U nails). The spooling intervals of these pins (U nails) shall be 250mm for the first 2m from the bottom of the pole and may thereafter increase to 500mm. The closer spooling distance is intended to reduce the probability of conductor removal from the pole.
- 5.1.7.4 The galvanized bolted clamp shall be exothermic welded to the horizontal earth rod. The galvanized steel conductor shall be bolted to the clamp. Bitumen tape shall be taped on the galvanized steel conductor, from the welded clamp up to 100mm above ground level. At the transformer the galvanized steel conductor shall be terminated using a galvanized bolted clamp. The clamp shall be bolted to the transformer earth stud.
- 5.1.7.5 Low Voltage earth electrode (peri Urban): The overall resistance to earth of the LV electrode should not exceed **1 ohm**. LV earth installed at the first peri-urban meter box, as near as possible to the transformer, but still 5 meters away from the MV earth and care should be taken that all the peri-urban meterboxes be connected to the LV earth.
- 5.1.7.6 A single earth rod shall be driven into the soil at the peri-urban meter box. Galvanized steel conductor (7/3.35mm) shall be used as the earth lead. Inside the meter box the earth lead shall be terminated with a galvanized bolted clamp and bolted onto the earth stud with round washer and nut.

- 5.1.7.7 A galvanized bolted clamp shall be exothermic welded to the vertically driven earth rod. The galvanized steel conductor shall be bolted to the clamp. Bitumen tape shall be taped on the galvanized steel conductor, from the welded clamp up to 100mm above ground level.
- 5.1.7.8 If the maximum values for the MV and LV electrodes cannot be achieved with the standard electrode configurations CENTLEC shall be requested to investigate alternatives. A crowfoot earth can be installed and earth value remeasured.

5.1.8 RECTIFYING OF EARTHING AT COMBINED NEUTRAL EARTH (CNE) CONNECTIONS

- 5.1.8.1 At older installations, the connection is still combined neutral earth (CNE). The price schedule allow for the contractor to assist any program of CENTLEC to investigate and rectify dangerous situations because of the earthing that is not properly done.
- 5.1.8.2 The contractor shall investigate houses in given areas and bridge the earth and neutral inside the meter box. Mainly these meter boxes are against an outside wall but might also be a base board inside a house.
- 5.1.8.3 The contractor shall mount a label clearly indicating that this is a "Combined Neutral Earth connection". Combined Earth connection will apply up to the meter and will be separated after the meter connection.

5.1.9 DIGGING OF TRENCHES FOR INSTALLATION OF LOW VOLTAGE CABLES

- 5.1.9.1 The excavations will be for the supply of electricity connections to house, businesses, and industry. There is a time limit for the supply of electricity connections according to the Quality-of-Service regulation NRS-047-1 of 2002. The Superintendent will therefore contact the contractor as soon as the Job card and work drawing has been received. Work will commence within one working day after the first site inspection.
- 5.1.9.2 The Contractor shall be responsible for the excavation of trenches. The Contractor shall take precautions that no hazard is posed to the public and/or employees on site. The Contractor shall acquaint himself/herself with all existing services by obtaining drawings with all services indicated by the relevant service authority and ensure that these services are not damaged during excavations. All Municipal, Telkom and optic fibre services (wayleaves shall be obtained from CENTLEC) must be exposed by hand with suitable cross trenches in the vicinity of the road crossing before construction work commences. This will be inspected by the Superintendent within the one-day notice given. Where existing services are damaged, the Contractor shall be responsible for the cost of the repair of service. **The cable trenches shall be excavated 300 mm wide and 600mm deep.**

- 5.1.9.3 Tenderers must reflect their tariffs for cable trenches in soil, soft rock, and hard rock on per unit rate in the price schedules. The actual quantities shall be verified on site by the Superintendent. Trench lengths shall be rounded to the nearest half meter.

Soft soil: Soil that can be removed by pick and shovel.

Hard soil / Soft Rock: Soil that can only be removed after extensive drilling or other Mechanical aid has been employed.

Hard Rock: Soil that can only be removed with the aid of blasting

5.1.10 ROAD DRIVEWAY CROSSINGS

- 5.1.10.1 After permission has been obtained from the Traffic Department for the road crossing, the contractor shall give at least one day's notice of their intention to start with the work by contacting the Superintendent. In case of a driveway and grassed pavement crossing, the house owner must be informed.
- 5.1.10.2 The existing asphalt surface will be cut with a diamond cutter, 150mm wider on each side of the specified width of the trench and the asphalt be removed before excavation work commences.
- 5.1.10.3 The minimum depth of the road and/or driveway crossing will be **600mm deep for Low Voltage cables** from the top of service to the final road level, unless otherwise specified.
- 5.1.10.4 Backfilling and compaction of the trench will be done with crusher run, slightly mixed with 3% lime to obtain a CBR of 100 (DCP = 32 blows per 100mm) to a depth of 300mm and a CBR of 45 (DCP = 17 blows per 100mm) for the rest of the trench as measured at any position in the trench with a Dynamic Cone Penetrometer(DCP).
- 5.1.10.5 The asphalt will be of the same type, thickness, and standard as the adjacent road structure.
- 5.1.10.6 Bitumen MC30 prime coat will be applied to assure proper bonding between the new asphalt and the top layer as well as the existing asphalt on both sides of the trench.
- 5.1.10.7 As far as possible, the existing kerb stones will not be removed at road crossings, but a tunnel will be dug underneath them, and the backfilling and compaction will be of the same standard as the rest of the trench. If it becomes unavoidable to remove the existing kerb stones as a result of the width of the trench, kerb stones similar to those which have been removed, will be used as replacements.
- 5.1.10.8 After completion of the road and/or driveway crossings, the road or driveway surfaces will be repaired in such a way that no bumpiness will be observed as a result of the road and/or drive way crossings. The Superintendent will inspect the work done.
- 5.1.10.9 Grass and plants will be restored to its original state as far as possible. Damage to irrigation systems shall be repaired or broken items be replaced by the contractor.

- 5.1.10.10 The contractor will be responsible for the maintenance of the road and/or driveway crossings for a period of 12 months and should any sagging or similar weakening of the road layers occur, be responsible at his/her own cost for the repairs.
- 5.1.10.11 Road Safety during the construction period of a road crossing, will be the responsibility of the contractor. If traffic officers are needed, it will be arranged by the contractor.
- 5.1.10.12 If a road crossing has been set open for traffic before the asphalt has been replaced by making use of temporary top gravel layer, maintenance to the road crossing will be done on a daily basis and would consist of re-installing sufficient material to level the crossing with both ends of the asphalt. Road crossings should be done per lane to allow traffic to continue.
- 5.1.10.13 Any trenches in the roadway parallel to the kerb line will be avoided as far as possible due to the damage which would be caused to the road structure. If any such trenches seem to be unavoidable, the City Engineer's Department will be contacted beforehand for special permission in this regard.
- 5.1.10.14 The contractor will provide CENTLEC with the name and 24 hour telephone number of the supervisor/contact person on site in respect of each road crossing.

5.1.11 INSTALLATION OF POLE MOUNTED METER BOXES AND POLE MOUNTED

- 5.1.11.1 Pole mounted meter boxes are used to install split pre-payment meters outside the dwelling. A meter box will be collected from CENTLEC and installed with the bottom of the box 2m above ground level. A 25mm² copper cable will be installed from the overhead line to the meter box. The cable will be terminated on the overhead line by means of IPC clamps. The cable will enter the box with a steel gland and shroud. It might be expected of the contractor to also install a circuit breaker and No.1 PVC gland (ABB type for Airdac).
- 5.1.11.2 Pole mounted transformers shall be installed according to the instruction given by the superintended. The transformers shall be installed according to drawing TS-5-35 (for single phase installation) and TS-3-10 (for three phase installation).

5.1.12 INSTALLATION OF ADDITIONAL METERS

- 5.1.12.1 The contractor shall install and connect additional meters according to the drawing or design from the project manager or superintended.

5.2 MATERIAL

5.2.1 Steel clamp for the installation against the house for the Airdac

5.2.2 Base plate (fiber glass) for the Keypad and the Ready board

- 5.2.2.1 – Base plates shall be of the compression molded glass-fiber reinforced polyester type.

5.2.2.2 Base plates to be suitable for keypad with ready board and meter with ready board

5.2.3 Ready board for the informal houses

5.2.3.1 Boards shall be of the compression molded glass-fiber reinforced polyester type.

5.2.3.2 Boards to be pre-assembled and wired ready to install:

5.2.3.2.1 2 x 800 mm red and black 10 mm² PVC soft drawn copper wire connected to main earth leakage

5.2.3.2.2 1 x 500 mm x 10 mm² bare stranded soft drawn copper earth wire connected to earth terminal

5.2.3.2.3 Boards to be fitted with one bulkhead fitting with BC Holder for maximum 60Watt lamp

5.2.3.2.4 Boards to house the following equipment
One 60 Amp single pole plus neutral earth leakage unit (2,5 kA 30 mA),
one 20 amp single pole 2, 5 kA circuit breaker, one 16 A light switch and
three 16 A switched plugsockets.

5.2.4 Airdac cable shall have the CENTLEC mark on the outer sleeve.

The Airdac cable (with a 10 mm² x 3 core, orange color connection cable with communication cores (THCU/GSW 10mm² XLPE (UV) SNE + COM YEL SAFERDAC - SANS 1507 AFAA)

The cable must be suitable for use of overhead house service connections on a 400 / 230V distribution system and constructed as follows: Circular stranded hard drawn copper phase conductor color red, XLPE insulated with identified neutral of equal resistance and bare earth conductors arranged concentrically around it, polyethylene sheathed with an insulation level of 600 / 1000 V. All covering shall be UV Resistant including the red XLPE covering of the phase conductor. To comply with NRS 017-1993. The two separator cores shall be insulated communication conductors.

5.2.5 Clamps for concentrically 10mm² Airdac cable

Dead-end clamp for 10mm² Airdac.

Suspension clamp for 10mm² Airdac.

5.2.6 Wooden poles:

7meter - 80 to 100mm top diameter.

9meter –100mm to 239mm top diameter

These poles shall be suitable for overhead transmission lines and shall be of 55 MPa/kN tested strength in accordance with SANS 754: 1984 in the sizes specified unless otherwise specified. All poles shall be marked with the relevant tested breaking strengths as required. Poles must be impregnated in accordance with SANS 1290: 2000. The method of banding shall be galvanized nail plates, of a size which would cover at least 75% of the pole top area. The wire binding known as "farmers knot" at top end of poles.

5.2.7 Pigtails screws:

M8 galvanized length excluding pigtail $\pm$ 90 mm, to be installed 100mm from the top of the 7m kicker pole.

5.2.8 M8 x 3 000 mm full threaded rod:

Galvanized to SABS 763-1988.

5.2.9 M8 nut:

Galvanized to SABS 763-1988 and undercut to fit M8 galvanized threaded rod.

5.2.10 Washer:

50 x 50 x 3 mm galvanized with M8 hole.

5.2.11 M16 nuts and bolts

5.3 INSTALLATION OF CONSUMER/ CONNECTION CABLE BY THE SERVICE PROVIDER (FLIPS HOUSE ONLY)

For single phase connections the contractor shall install a 3-core cable (or 2-core cable plus earth) plus 2- core communication cable (for the 230V keypad), and 4 core (3 core plus earth) plus earth and communication cable for a three-phase connection.

6. HEALTH AND SAFETY REQUIREMENTS (APPLICABLE)

- 6.1 All related Regulations, Law's as required in the Health, Safety and Environment as in the specification attached must be complied to.
- 6.2 The successful bidder must submit a Health and safety file with in two (2) weeks after the signing of the appointment letter. Follow the supplied Health and Safety Guide as attached.

7. EVALUATION CRITERIA

- 7.1 All proposals submitted will be evaluated in accordance with the criteria set out in the policy of Supply Chain Management of the Entity.
- 7.2 The most suitable candidate will then be selected. Please take note that CENTLEC is not bound to select any of the bidders' submitting proposals or appoint more than one service provider for this bid.
- 7.3 Furthermore, technical competence is the principal selection criteria, CENTLEC will evaluate the technical criteria first, and will only look at the price and BBEE level of contribution if it is satisfied with the technical evaluation. As a result of this, CENTLEC does not bind itself in **any way** to select the bidder offering the lowest price.
- 7.4 The relative technical weighting criteria / Qualification Parameters will be as follows:

No.	Criteria	Description	Points
7.4.1	Track record and experience	Have they successfully provided these services in the last four (4) years? A maximum of three (3) reference letters of confirmation is required where the works were completed. The letter should be signed by the duly authorized company representative. Two (2) letters = 10 points Three (3) letters or more = 15 points	15
7.4.2	Local (Mangaung) operational capability and economic investment	Does the bidder have a local office with operational capability and will they use local resources and procure from local businesses? Or what is their plan to do this during the duration of this project? a) Existing and established local office (CENTLEC distribution area) = 15 points b) If not (Within South Africa) = 10 points	15

7.4.3	Plant & Equipment	Does the bidder have the necessary resources like trucks, digging, compacting testing equipment and tools? (Proof of ownership, intention to lease or intention to rent should be submitted) a) Minimum of 2 x cherry picker trucks, and 1 x compactor = 20 points b) 3x cherry pickers and 2-compactor or more = 30 points	30
7.4.4	Human resources	The bidder should provide a copy of organizational structure and Curriculum Vitae of key operational personnel listed below: (a) Does the bidder have (Project Manager) qualified Electrical Engineer or Electrical Technician with ECSA. Proof of registration will be required = 20 points (b) Does the bidder have qualified electricians? (A minimum of 5 electricians to the company). A valid copy of a trade test certificate as well as at least one(1) electrician with a wireman's license required = 20 points	40
	TOTAL		100

Table 1 – Evaluation criteria

A bidder who gets a minimum of 80 points and above will qualify to the next stage. Individual tenders would have to be evaluated according to the preferential point system. The bidder must score minimum points as follows:

- Item 7.4.1 – 10 points,
- Item 7.4.2 – 10 points,
- Item 7.4.3 - 20 points,
- Item 7.4.4 - 40 points in the Evaluation Criteria

7.5 PRICE AND PREFERENTIAL POINTS SCORING – STAGE 2 (Price and B-BBEE status)

The 90/10 point system will be applicable for this project.

90 points for Price

10 points for BBEE certificate from accredited verification agencies.

All Bidders that have passed the technical evaluation threshold of 80 points would also be scored based the 90/10 principle where 90 Points is for the Price and 10 points for B-BBEE as per the detail given below.

7.5.1 Points awarded for price

A maximum of 90 Points is allocated for price on the following basis:

$$\text{Where } P_s = 90 \left[1 - \frac{P_t - P_{\min}}{P_{\min}} \right]$$

P_s = Points Scored for comparative price of bid under consideration
 P_t = Comparative Price of bid under consideration
 $P_{\min}$ = Comparative Price of lowest acceptable bid

7.5.2 Points awarded for B-BBEE Status Level of Contribution

In terms of Regulation 5(2) and 6(2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below;

B-BBEE Status Level of Contributor	Number of Points (90/10 System)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-Compliant Contributor	0

Table 2: B-BBEE Status level

8. PRICING

- 8.1 The following is a **Generic** Bill of Quantities.
- 8.2 All prices should be in ZAR and be exclusive of VAT.
- 8.3 Prices **will** stay fixed and firm for the duration of the Contract.
- 8.4 The **option** must be included in the Price Basis and Variations **should** CENTLEC (SOC) Ltd need to extend the Bid within 12 Months from the date of Bid, any variation on prices shall be based on SEIFSA.
- 8.5 The bidder may submit any additional information by Bid covering letter if required.

OVERHEAD DOMESTIC CONNECTION WITH A READY BOARD, WHERE THE DWELLING IS WIRED, UNDERGROUND DOMESTIC CONNECTION WHERE THE DWELLING IS WIRED AND METER INSIDE HOUSE ON BASE BOARD (Non-split meter and split meter)

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price	Material Price
1	10mm ² Airdac with communication wires	meter	Per meter	R	R
2	Ready Board	each	1	R	R
3	Base plate - for the meter and Ready Board	each	1	R	R
4	Steel clamp or Wall mounted eye bolt	each	1	R	R
5	Strain clamp (dead end) - for Airdac	each	1	R	R
6	10mm (M10) x 75mm steel bolts and nuts	each	1	R	R
7	8mm (M8) x 300mm steel threaded rod	each	1	R	R
8	8mm (M8) nuts	each	1	R	R
9	Square washer 50x50mm or 50mm round washer	each		R	R
10	10mm round washer	each	1	R	R
11	25mm galvanized saddles	each	1	R	R
12	25mm PVC conduit for electrical work	each	3m Lenghts	R	R
13	25mm solid PVC bend	each	1	R	R
14	6mm Fischer or Hilti type wall plugs	each	1	R	R
15	Silicon sealer	each	1	R	R
16	Cable ties	each	1	R	R

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price	Material Price
17	6mm Fischer or Hilti type wall plugs	each	1	R	R
18	10mm (M10) x 75mm steel bolts and nuts	each	1	R	R
19	Lugs per size	each	1	R	R
20	Ferrules per size	each	1	R	R
	Any other material the tenderer needs to complete the works details to be verified below:				
	M16 Bolts and nuts				
	80A Single pole Circuit breaker (80A/100A)				
SUB TOTAL - MATERIAL				R	R
	Issuing of COC	item	total	R	R
	Transport – Based on AA Tariffs (CENTLEC AREAS OF SUPPLY)	item	total	R	R
TOTAL - FIXED PRICE (Excl VAT)				R	R

ADDITIONAL MATERIAL - PRICE PER UNIT

ITEM	DESCRIPTION	UNIT	QUANTITY	Unit Price
1	Suspension clamp	each	1	R
2	Pigtail screw	each	1	R
3	7m Wooden Pole	each	1	R
4	9m Wooden Pole	each	1	R
5	10m Wooden Pole	each	1	R
6	M16 Eye nut	each	1	R
7	12 Eye nut	each	1	R
8	10mm ² copper 3-core armoured cable	meters	1	R
9	10mm ² copper 4-core armoured cable	meters	1	R
10	120mm diameter PVC water pipe (cable sleeve)	3m	1	R
11	25mm ² copper 3-core armoured cable	meters	1	R
12	1.5mm ² copper 2-core cable for communication (Surfix)	meters	1	R
13	6mm ² bare copper earth wire	meters	1	R
14	10mm ² Airdac with communication wires	meters	1	R
15	50mm diameter Galvanized pipe	3m	1	R
16	Supply of 2-way boxes	each	1	R
17	Supply of 4-way boxes	each	1	R
18	Supply of 6-way boxes	each	1	R

SUPPLY OF BARRICADING MATERIAL

ITEM	DESCRIPTION	UNIT	QUANTITY	Unit Price
1	Knitted barrier netting	m		R
2	Red and White barrier tape	m		R
3	Traffic cone with black rubber base	each		R
4				R
5				R

**SUPPLY OF MANDATORY, PROHIBITION,
DANGER, EMERGENCY, FIRE, GENERAL
INFORMATION AND WARNING SIGNS.**

ITEM	DESCRIPTION	UNIT	QUANTITY	Unit Price
1				R
2				R
3				R
4				R
5				R

**INSTALLATION OF PRE-PAYMENT METER (INSIDE THE DWELLINGS AND IN POLE MOUNT BOXES)
PRICE PER ITEM**

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price
1	Installation of pre-payment meter (available from CENTLEC) in pole mounted meter box, sealing of meter, completion of Meter card (refer Items 2 and 4)	each	1	R
2	Installation of pre-payment meter (available from CENTLEC) in pavement mounted meter box, sealing of meter, completion of Meter card (refer Item 5)	each	1	R
3	Installation of ready board and keypad inside the house	each		R
4	Installation of bulk meter	each	1	R
5	Connection Material (Items to be specified)	each	1	R
6	Testing of connection and issuing of COC	each	1	R

DIGGING OF HOLES AND PLANTING OF POLES

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price
1	Digging 1metre hole and planting of 7metre wooden pole - Soil	each	1	R
2	Digging 1metre hole and planting of 7metre wooden pole - Soft Rock	each	1	R
3	Digging 1metre hole and planting of 7metre wooden pole - Hard Rock	each	1	R
4	Digging 1.5metre hole and planting of 9metre wooden pole - Soil	each	1	R
5	Digging 1.5metre hole and planting of 9metre wooden pole - Soft Rock	each	1	R
6	Digging 1.5metre hole and planting of 9metre wooden pole - Hard Rock	each	1	R
7	Digging hole and planting of 10metre wooden strut-pole- Soil	each	1	R
8	Digging hole and planting of 10 m wooden strut-pole-Soft Rock	each	1	R
9	Digging hole and planting of 10metre wooden pole strut-pole- Hard Rock	each	1	R

INSTALLATION OF PERI-URBAN METER BOX

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price
1	Wooden pole	3m	1	R
2	Creosote for painting sawn top	50ml	1	R
3	Galvanized binding wire for binding sawn top	meters	1.5	R
4	1metre - 19mmx0.7mm Stainless steel strapping (with buckle)	each	2	R
Any other material the tenderer needs to complete the works details to be verified below:				
4				R
5				R
SUB TOTAL - MATERIAL				R
	Issuing of COC	item	total	R
	Transport – Based on AA Tariffs	item	total	R
TOTAL - FIXED PRICE (Excl VAT)				R

INSTALLATION OF LOW VOLTAGE AND MEDIUM VOLTAGE EARTH ELECTRODES

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price
1	Copper plated Earth rod (MV)	2.4m	1	R
2	Copper plated Earth rod (LV)	1.2m	1	
3	Copper plated Earth rod	1.2m	1	R
4	Galvanized steel conductor (7/3.35mm) (MV)	meters	1	R
5	Galvanized steel conductor (7/3.35mm) (LV)	meters	1	R
6	Galvanized bolted clamp	each	1	R
7	U-nails (MV)	each	1	R
8	U-nails (LV)	each	1	R
9	Bitumen tape	role	1	R
Any other material the tenderer needs to complete the works details to be verified below:				
10				R
11				R
SUB TOTAL - MATERIAL				R
	Issuing of COC	item	total	R
	Transport - Based on AA Tariffs	item	total	R
TOTAL - FIXED PRICE (Excl VAT)				R

DIGGING OF TRENCHES FOR INSTALLATION OF LOW VOLTAGE CABLES

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price
1	Excavations of 1000mm deep x 300mm wide in pick able soil.	Running meters	1	R
2	Excavations of 1000mm deep x 300mm wide in soft rock.	Running meters	1	R
3	Excavations of 1000mm deep x 300mm wide in hard rock.	Running meters	1	R
4	Excavations of 600mm deep x 300mm wide in pick able soil.	Running meters	1	R
5	Excavations of 600mm deep x 300mm wide in soft rock.	Running meters	1	R
6	Excavations of 600mm deep x 300mm wide in hard rock.	Running meters	1	R
7	Road crossing including cutting of surface, clearing and carting away of asphalt.	m ²	1	R
8	Back filling of road crossing (including lime and crusher run for bedding) and repair of tar. (Item 7)	m ²	1	R
9	Laying of cables per meter and backfilling	m	1	R
10	Driveway crossing including lifting of paving, clearing of paving	m ²	1	R
11	Backfilling of driveway crossing (including river sand for bedding) and repair of paving. (Item 9)	m ²	1	R
12	Laying and jointing of sleeves supplied by CENTLEC) in open trench.	each	1	R
13	Soil for cable bedding (100mm thick), where applicable.	Running meters	1	R
14	Backfilling and compaction of excavation (Items 1-6)	Running meters	1	R
15	Cleaning and clearing of site after completion of works.	Item	total	R
Any item specified, but which are not specifically covered in this price schedule and items that are necessary for the completion of the works.				

INSTALLATION OF POLE MOUNTED METER BOX AND POLE MOUNTED TRANSFORMERS.

ITEM	DESCRIPTION	UNIT	QUANTITY	Labour Price
1	10mm ² Airdac with communication wires	meters	1	R
2	Steel gland for cable above	each	1	R
3	1metre - 12mmx0.7mm Stainless steel strapping (with buckle)	each	1	R
4	PVC gland - No 1 for Airdac (ABB type)	each	1	R
5	80Amp, yellow toggle (curve 1) circuit breaker	each	1	R
6	IPC for connection of cable to ABC	each	1	R
7	Installation of a single-phase Transformer	each	1	R
8	Installation of a three-phase transformer	each	1	R
Any other material the tenderer needs to complete the works details to be verified below:				
9				R
10				R
SUB TOTAL - MATERIAL				R
	Issuing of COC	item	total	R
	Transport - Based on AA Tariffs	item	total	R
TOTAL - FIXED PRICE (Excl VAT)				R

9. CONTACT DETAILS

9.1 For any further technical information regarding the document contents please contact Ms. Nthabiseng Rametsi; e-mail: Nthabiseng.Rametsi@centlec.co.za. Such queries must be done in writing, the email address provided serves this purpose. The answer to one question will be sent to all the other prospective bidders that have bought the bid documents.

9.2 For Supply Chain Related questions, please contact Ms. Palesa Makhele at Palesa.Makhele@centlec.co.za

10. ANNEXURES

[ANNEXURE A: TECHNICAL DRAWINGS](#)



**OCCUPATIONAL HEALTH
AND
SAFETY
SPECIFICATION
FOR
PUBLIC DOMESTIC ELECTRICITY HOUSE CONNECTIONS AND PROCUREMENT OF
MATERIAL.**

CONTENTS

Definitions

1. General Statement
2. Scope
3. Purpose
4. Project description
5. Details of specification
 - 5.1 Site Standards and Rules
6. Safety Files
 - 6.1 Applicable requirements
 - 6.2 Register required
 - 6.3 Written Safe Working Procedures and Risk Assessments
 - 6.4 Personal Protective Equipment
 - 6.5 Appointments
 - 6.6 Notification to Department of Labour
 - 6.7 Establishment of Health and Safety Committee
 - 6.8 Health and Safety Hazards Identification
 - Hazardous Environment
 - Hazardous Equipment
 - Hazardous Operation
 - Hazardous Tools
 - Hazardous Substances
7. Arrangement for controlling significant site risks
 - 7.1 Safety Risks
 - 7.2 Health Risks
8. Fire Precautions on construction site
9. Communication and Liaison
10. Fall Protection Plan
11. Permit to work
12. Housekeeping
13. First Aid Facility
14. Health and Safety Induction
15. Accident/Incident Reporting and Investigation

- 15.1 Report of Incident and Occupational Diseases**
- 15.2 Recording and Investigation of incidents**
- 16. Responsibilities**
 - 16.1 Client**
 - 16.2 Principal Contractors**
 - 16.3 Contractor**
- 17. Health and Safety Inspection/Audits**
- 18. Emergency Preparedness**
- 19. Non-Compliance to Health and Safety Standards**
- 20. Legal Frame**
- 21. Index**
 - 21.1 Annexure A (Notification of Construction Work)**
 - 21.2 Emergency Telephone Numbers**
 - 21.3 Contractor Details**
 - 21.4 Inspection Checklist**
 - 21.5 Mandatory Agreement**

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS

“Act” occupational health and safety act 85 of 1993

“Agent” means any person who acts as representative for the client

“Health and Safety Specification” means a documented specification of all health and safety requirements pertaining to the associated Works on a construction site, so as to ensure the health and safety of person during construction process. This document is prepared by the Client or Client agency.

“Health and Safety Plan” means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified. This document is prepared by the Principal Contractor or the Sub Contractor.

“Fall protection plan” means documented plan, of all risks relating to working from an elevated position, considering the nature of work undertaken, and setting out the procedures and methods to be applied in order to eliminate the risk.

“Employer” Where used in contract documents and in this specification, means the employer as defined in the General Conditions of Contract and it shall have the same meaning as **“Client”** as defined in the Construction Regulation 2003.

“Employer” and **“Client”** is therefore interchangeable and shall be read in context of the relevant document.

“Contractor” where used in the contract documents and in this specification shall have meaning as “contractor” as defined in the General Conditions of Contract. In this specification the terms **“Principal Contractor”** and **“Contractor”** are replaced with **“Contractor”** and **“Sub Contractor”** respectively for the purpose of this contract, the **Contractor** will, in terms of the OHS Act 1993, be the mandatory of the Employer, without derogating from his/her status as an employer in his/her own right.

“Engineer” where used in this specification, means the Engineer as defined in the General Conditions of Contract. In terms of the Construction Regulations the Engineer may act as agent of behalf of the Employer (the client as defined in the Construction Regulations)

“OHS Section” means Occupational Health and Safety Division within CENTLEC will oversees all Projects to ensure that Principal Contractor comply with Occupational Health & Safety Act 85 of 1993, Construction Regulation and all related codes of practice.

“Fall risk” means a risk that a person could fall from an elevated position, which is deemed 2 meters or higher, or a risk that something associated with the work can fall on a person.

“Construction vehicle” mean a vehicle used for means of conveyance for transporting persons or material or both such person and material, as the case may be both on and off the construction site for the purpose of performing construction work.

“Contractor” means an employer, who perform construction work and includes principal contrac

1. General Statement

It is a requirement of CENTLEC that the Contractor shall provide a safe and healthy working environment and to direct all his activities in such a manner that his employees and any other persons, who may be directly affected by his activities, are not exposed to hazards to their health and safety. To this end the contractor shall take full responsibility to conform to all the provisions of the occupational health and safety Act (Act 85 of 1993), and all relevant regulations as stated in section 44 of Occupational Health and Safety Act 85 of 1993.

For the purpose of this contract the Contractor is required to confirm his status as mandatory to CENTLEC and employer representatives in his own right for the execution of the contract, and he shall enter into Section 37.2 agreement in respect of the Act 85 of 1993.

2. Scope

This specification includes health and safety elements in terms of the Act and to satisfy the requirements of the Construction Regulation (CR), which will be applicable to the Principal Contractor and all sub-contractors for the safe execution of work during the project.

3. Purpose

The purpose of this specification is to ensure that the Principal Contractor and all sub-contractors provides and maintains, as far as reasonably a safe working environment for all employees and the public at large during the construction work.

4. Project Description

The project includes all activities regarding public domestic electricity house connections and procurement of material within CENTLEC's area of supply and Additional work or changes to the contract may result in a change to the scope of work. The principal contractor shall make allowance for this in his Health and Safety Plan.

The principle health, safety and environmental risks involved on this specific site will be that of:-

- Risk of employees falling from a height. /certificates of basic fall arrest./appointmentletters for those responsible for rescue.
- Use of suitable harnesses.
- Risk
- Ladder usage.
- Cranes/Simons certificate of servicing by a.i.a
- Safe storage of petrol.
- Excavations- person (employee or public), Danger of walls falling in / shore the walls/soil away from the hole
- Use of safety nets instead of safety tapes.
- Heavy loads to be carried by cranes and not manual labour.(re-inforcing and masts)
- Road closures when assembling and erecting the mast. (Application to traffic dept).

5. Details of Specifications

5.1 Job specific details of specifications.

In general when supply domestic houses with electricity, workers must follow and adhere to the following methods and procedures, in order to prevent accidents and injuries:

- a) In the township area where there is high density housing and population (contractor needs to be mindful of children, traffic, existing services and animals within the vicinity in which they will be working from.
- b) Should it be necessary to enter a private property, the reason of or such entry must be explained courteously to the occupier of the premises.
- c) Whenever possible, ladders must be used to get to higher places and correct procedures for the use of ladders must be followed.
- d) Environmental factors must be taken into consideration (type of soil in the area, water streams and vegetation in the area.

Safety and Health

- e) Supervisor must always assure themselves about their worker's skills and knowledge of all safety procedures, and if necessary, arrange for workers to be trained or re-trained.
- f) Excavated area needs to be visible and properly barricaded and must be backfilled within 3 days in order to reduce the risk of accidental falls. (use of safety nets and nottapes).
- g) Chemicals used must not affect the health of the employees and of the public.
- h) Hearing protection to be used if noise levels exceeds 85 dB.

5.2 Site Standards and Rules

- The contractor shall be responsible for enforcing and respecting all applicable health and safety rules in performance of all work covered by the contract, particularly those relative to the OHS Act and relevant regulations made under them;
- The contractor shall be responsible to ensure the use of traffic cones and warning signs at all times to warn traffic.
- Any deviation found shall be reported at the site instruction book by CENTLEC representatives, or dept. of labour inspector.
- All times there shall be three spares personal protective equipment for visitors and be marked visitors;
- Two toilets for male and female separately be provided and clearly marked to identify male and female gender;

- There shall be site office(s) built structure, change room for both male and female and they can be used for shelter for eating facility;
- Proper drinking water at the strategic location shall be provided for employees;
- Health and Safety Committee meetings that involve CENTLEC Health and Safety division representative shall be held on the monthly basis;
- Contractor shall provide their workers with proper training so that they can perform their work safely. Train all staff to be aware of their own responsibilities for, and to provide information, instruction, and training on, the particular hazards and risks in relation to the scope of work; and
- The contractor shall ensure that every lifting machine is operated by an operator specifically trained for a particular type of lifting machine.

6. Safety File

The contractor shall appoint a suitable qualified person to prepare the Health and Safety File and to keep it up to date for the duration of the contract. The health and Safety File shall include the following information:

- Notification of construction Work (Construction Regulation 3) (Schedule A)
- Copy of OHS Act (updated and not abridged version) (General Administrative Regulation 4) and relevant regulations as stated by section 44 of OHS Act 85 of 1993.
- Proof of Registration and good standing with a COID Insurer (Construction Regulation 4(g))
- Copy Health and Safety plan (Construction Regulation 5(1)) that include the followings:-

6.1 Applicable requirements

- a. List of equipment and specialized equipment
- b. List of PPE issued
- c. Recent inspection lists of equipment in use.
- d. Training records
- e. Proof of training by an accredited for working at heights.
- f. Hazards identification and risk assessments.
- g. Test records for lifting equipment by an accredited body.
- h. Incident history
- i. Notices issued
- j. Protection against biological agents like ants-infested trees.
- k. OHS programme agreed with client including the underpinning Risk Assessment and Method Statements (Construction Regulation 5(1))
- l. Appointment/Designation forms required by the ACT and Regulations
- m. Registers as follows:

6.2 Register required

- OHS Representatives Inspection Register (monthly)
- Power tools inspection register.
- Lifting equipment (before use and monthly)
- Fire equipment inspection and maintenance (monthly)
- First aid (monthly)
- Hazardous Chemical Substances (MSDS and listing of chemicals)
- Inspection of cranes (daily before use and yearly inspection records)
- Inspection of ladders (daily before use and monthly)

- Inspection of vessels and pressure (monthly and 3 yearly)
- Machinery inspections (before use and monthly)
- Drivers/Operators of mobile plant/construction vehicles daily inspections

The Health and Safety File shall be handed over to the client on completion of the contract. It must contain all the documentation handed to the contractor by any contractors together with a record of all drawings, designs, materials used and other similar information concerning the completed project

6.3 Written Safe Work Procedures and Risk Assessments

- Written Safe Work Procedures are to be available in order to mitigate, reduce or control the hazards and risks identified in the Risk Assessment.
- Initially a generic document can be produced, by the first three weeks of operation a task- based document must be produced and be updated as per changes in tasks.

6.4 Personal Protective Equipment

The Principal Contractor shall ensure that the following minimum personal protective equipment and wear are issued to his employees:

- No person is allowed to be on site without the required PPE as prescribed by risk assessments. This must be discussed at the safety meeting and adhered to by all contractors on site.
- Contractor must ensure that PPE is being used as a last resort upon trying all reasonable means to remove the hazard.
- All contractors are required to keep an updated register of all PPE issued.
- Strict compliance measures must be administered to ensure employees use PPE.
- Hard hats, safety shoes with steel toe caps and protective clothing shall be provided by the contractor free of charge for all his employees and shall be worn at all times. Employees working on site must not wear metallic helmets. Other protective equipment such as gloves, safety glasses, face shield, dust mask, ear plugs etc shall be issued and used when required as per tasks in the risk assessment and safe work procedure. The contractor shall ensure that his employees understand why the PPE is necessary and that they use them correctly and sign for receiving them
- When handling corrosive liquids e.g. acids or caustic suitable eye protection, gloves, and special overalls shall be worn.
- Any person refusing to wear protective clothing when instructed to do so by the responsible person shall be removed from the site.
- Clearly outline the procedure to be followed when PPE is 1. Lost or stolen; 2. Worn-out or Damaged.

6.5 Appointment of Health and Safety Personnel

- The Contractor and Sub Contractors shall ensure that all relevant appointments specified in the Occupational Health and Safety Act 85 of 1993 and Construction Regulations are made in writing prior to commencement of the Project.
- The Principal contractor shall provide adequate levels of suitable trained, experienced and competent management and supervision to ensure that the

works proceed and without risks to health or environment and that all operations and personnel for whom the contractor is responsible are adequately monitored and supervised.

The Principal Contractor shall ensure that the appointments listed below are made where applicable:

Required appointments as per the Construction Regulations (CR):-

Item	Regulation	Appointment	Responsible Person
1.	4(1)(c)	Principal contractor for each phase or project	Centlec/Consultant
2.	5.(3)(b)	Contractor	Principal Contractor
3.	5(11)	Contractor	Contractor
4.	6(1)	Construction supervisor	Contractor
5.	6(2)	Construction supervisor sub-ordinates	Contractor
6.	6(6)	Construction Safety Officer	Contractor
7.	7(1)	Person to carry out risk assessment	Contractor
8.	7(4)	Trainer/Instructor	Contractor
9.	8(1)(a)	Fall protection planner	Contractor
10	11(3)(b)(ii)(b)	Professional engineer or technologist/land surveyor.	Contractor
11.	15(2)(c)	Compliance plan developer	Contractor
12.	17(8)(a)	Material hoist inspector	Contractor
14..	19(2)(b)	Power tool expert	Contractor
15.	19.2 (g) (i)	Power tool controller	Contractor
16.	27 (h)	Fire equipment inspector	Contractor
17.	16(2)	CEO assistant	Contractor

6.6. Establishment of Health and Safety Committee

The Principal Contractor shall establish a Health and Safety Committee in terms of Section 19 of the Occupational Health and Safety Act 85 of 1993.

The Principal Contractor shall hold meeting at least once a month with appointed supervisors, Health and Safety Reps and the chairperson of the Health and Safety Committee and copies of the safety meeting to be forwarded to CENTLEC and the CENTLEC health and safety representative need to be informed and invited to such meetings.

Matters that are to be discussed should include at least the following as minimum:

- Make recommendations to resolve health and safety matters (i.e. internally by representatives or externally by DOL inspector)
- Accident/safety incident and they must be recorded for audit and for reporting to CENTLEC safety representative
- Hazardous conditions
- Hazardous material/substances
- Work procedures
- PPE
- Housekeeping
- Work permits
- Non conformances

- Emergency preparedness
- Traffic control
- Access control
- Medicals
- Training
- Forthcoming high hazard activities
- Liquor and drugs
- Occupational health and hygiene issues
- General health and safety issues
- Matters arising from principal contractor safety meetings

6.8 Health and Safety Hazards

The Principal Contractor shall take cognizance of the following hazards that are prevalent in the project:

6.8.1 Hazardous Environment

- Inclement weather – (Heat/Rain/Wind)
- Scarring or defacing of the environment.

6.8.2 Hazardous Equipment

- Trucks
- Ladders
- Lifting equipment
- Pressure vessel
- Chains and slings
- Fall protection equipment's

6.8.3 Hazardous Operation

- Use of step ladder
- Usage of the carry picker by unauthorized personnel
- Waker
- Poker

6.8.4 Hazardous Tool

- Electric hand tools

6.8.5 Hazardous Substances

- Chemicals (cadweld)
- Oil
- Diesel
- Degreaser
- Cement

7 Arrangements for controlling significant site risks

The following are some examples requiring arrangements for controlling the most significant site risks.

7.1 Safety Risks

- The maintenance of plant and equipment
- Traffic.
- Failure to carry out daily inspections of machinery.
- Dealing with existing unstable structures/land
- Other significant safety risks as and when identified

7.2 Health Risk

- Manual handling
- Reducing noise and vibration
- Extreme heat and cold temperature considerations
- Dealing with HIV/Aids and other illnesses
- Provision of maintaining ablution and eating facilities
- Other significant health risks as and when identified
- Distribution of condoms
- Allow employees to test voluntarily when CENTLEC Wellness section arrange testing for HIV/AIDS and other chronic diseases.
- Allow employees to donate blood voluntarily when CENTLEC Wellness section arrange for blood donation

All safe operating procedures, method statements or rules implemented mitigate the risk whilst performing hazardous tasks are to be effectively communicated to the contractor's staff performing the tasks.

It is to be noted that these are some of the hazards that may be prevalent in this Project. Others may be identified during the Risk Assessment.

8. Fire precautions on construction sites

The provisions of the environmental Regulations for Workplaces (Government Notice R2281 of 16 October 1987) shall apply with its amendments.

In addition the necessary precautions shall be taken to prevent the incidence of fires, to provide adequate and sufficient fire protection equipment, sirens, escape routes etc. all in accordance with Regulation 27 of the Construction Regulations.

No open fire will be allowed on site, unless a proper arrangement with site manager and authority has been made.

All fire extinguishers shall be:

- clearly labelled;
- conspicuously numbered;
- entered in a register;
- inspected monthly by a competent person; and

- tested and serviced at recommended intervals by an accredited supplier

9. Communication & Liaison

- Occupational Health and Safety Liaison between the Employer, the Principal Contractor, the other Contractors, the Designer and other concerned parties shall be through the H&S Committee as per the procedures determined by the H&S Committee. If possible emergency committee meeting will be held to address emergency issues.
- In addition to the above, communication may be directly to the CENTLEC representative or his appointed Agent, verbally or in writing, as and when the need arises.
- Consultation with the workforce on Occupational Health and Safety matters will be through their Supervisors and H&S Representatives ('SHE – Reps')
- The Principal Contractor will be responsible for the distribution of all relevant Occupational Health and Safety information to other sub-contractors.

10. Fall protection plan

A comprehensive fall protection plan is to be established in order to prevent employees from falling from elevated positions

- The contractor shall stop all persons working with the usage of a ladder during periods of inclement weather or if the possibility of lightning is present.
- Working at heights shall only be carried out under the supervision of a competent person;
- Provision must be made to prevent objects and material from falling from height.

11. Permit to work

The contractor is to ensure that the proper permit is in hand and duly authorised by appointed person before commencing with the work in question, some of the activities that require a permit to work are:

- Permit to be requested to work near live overhead network to be isolated.
- Use of hazardous chemical substances (all MSDS shall be available and kept in the safety file), CENTLEC Health and safety Division shall be informed of all chemicals used on site or to be used.
- Work to be carried near/adjacent to live electrical network. Work permit shall be requested by the project manager representing CENTLEC and it shall be issued by CENTLEC control. Work will be carried out under the supervision of CENTLEC representative project manager and contractor shall sign acknowledgement letter to understand the risks associated with that specific work.

Contractor shall liaise with project manager from CENTLEC for the issue of work permit.

12. Housekeeping on Site

The Principal Contractor shall ensure a high level of housekeeping on site. On completion, the contractor is responsible for clearing the site. (Excess soil and rocks).

13. First Aid Facilities

- Conspicuous sign shall be placed where first aid equipment is kept and stored. The name of the responsible person shall be placed against the first aid box.
- Adequate first aid facilities are to be available on site.
- Individuals that are trained and certified competent to administer first aid are to be on site at all times, serving as First Aid Officer.
- The following welfare facilities must be provided for and kept in clean and suitable condition, shower facility, sanitary facility, changing facility, sheltered eating facility and drinking water at strategic locations on site.

14. Health and Safety Induction

- The Principal Contractor shall ensure that all employees undergo a health and safety induction.
- Proof of induction is to be included in the "Safety File".
- The contractor is expected to have a daily safety "tool box" meeting. Subject topics that are applicable to the job at hand e.g. near misses that have happened, accident and up and coming work will be discussed along suggestion and comments.
- These meetings can be used as a training meeting with the central idea of educating employees.

15. Accident/Incident Reporting and Investigations

15.1 REPORTING OF INCIDENTS AND OCCUPATIONAL DISEASES

All accidents and incidents shall be reported the same day to Health and Safety Division of CENTLEC within 24 hours.

Section 24 of the Act refers to certain incidents occurring at the workplace, or in connection with the use of machinery whereby a person dies or is injured to the extent where he is likely to die or could have resulted in a major incident. Such incidents should be reported to the Provincial Director on a WCL 1 or WCL 2 form within seven days.

Certain other types of incidents must be reported to the Provincial Director telephonically, facsimile or similar means of communication and these types of incidents are as follows:

- (a) Where a person, as a result of the incident;
 - i) Dies;
 - ii) Becomes unconscious;
 - iii) Suffers the loss of a limb or part thereof;
 - iv) Is injured to the extent that he is likely to die;
 - v) Is injured to the extent that he is likely to be permanently disabled;
 - vi) Is injured to the extent that he is likely to be off for a period of 14 days or more;
 - vii) Cannot perform his normal duties (those duties for which he was employed).
- (b) An incident of major consequence arising out of the use of industrial equipment or machinery or industrial practices at a workplace.
- (c) The health and safety of any person is endangered and where –

- i) A dangerous substance was spilled;
- ii) The uncontrolled release of any substance under pressure (pressure greater than 1 atmosphere) took place;
- iii) Machinery or any part thereof fractured or failed, resulting in flying, falling or uncontrolled moving objects; or
- iv) Machines, which ran out of control.

These incidents should also be recorded and investigated in accordance to Regulation 8 of the General Administrative Regulations.

If an injured person is to die as a result of an incident, which has already been reported in terms of the above, the employer or user should report such death to the Provincial Director.

Any registered medical practitioner should, in terms of Section 25 of the Act, report all (to the employer and Chief Inspector) cases of occupational diseases or any other disease, which he believes arose out of a person's employment, which he/she has treated. This must be done within 14 days in the form of a WCL 22 form.

Any other person may in writing, give notice of any disease suspected to be an occupational disease, to the employer and chief inspector.

15.2 RECORDING AND INVESTIGATION OF INCIDENTS

The employer or user of machinery should keep record and investigate all incidents referred to in terms of Section 24 of the Act together with any other incident, which resulted in the person concerned having had to receive medical treatment other than first aid.

These incidents must be recorded in the form of Annexure 1 of these regulations and be kept for a period of at least 3 years. This record shall be kept on the premises and available for perusal by an inspector.

The contractor, a designated person, a health and safety representative or a member of the health and safety committee must investigate the above-mentioned incidents. This investigation should take place within 7 days from the date of incident and completed as soon as is reasonable practicable or within the contracted period of contract workers. The employer should record the result of the investigation in the Annexure 1. The purpose of the investigation is to establish the cause of the incident together with the safety measures that can be implemented to prevent the re-occurrence of such incidents in the future.

The health and safety committee shall examine this record at their next meeting.

- All accidents/incidents shall be recorded and investigated and reported to Occupational Health & Safety Section.
- Accidents/incidents are to be reported to CENTLEC Project Manager.
- All reportable incidents in terms of Section 24 of the OHS ACT shall be investigated and recorded by the contractor as required by the Act and also reported to Occupational Health & Safety Unit.
- The contractor shall compile an investigation report and ensure that all the preventative actions recommended are in place.

16 RESPONSIBILITIES

16.1 Client

16.1.1 The Client or his appointed Agent on his behalf will appoint each Principal Contractor for this project or phase/section of the project in writing for assuming the role of Principal Contractor as intended by the Construction Regulations and determined by the Bills of Quantities.

16.1.2 The Client or his appointed Agent on his behalf shall discuss and negotiate with the Principal Contractor the contents of the health and safety plan of the both Principal Contractor and Contractor for approval.

16.1.3 The Client or his appointed Agent on his behalf will take reasonable steps to ensure that the health and safety plan of both the Principal Contractor and Contractor is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.

16.1.4 The Client or his appointed Agent on his behalf will prevent the Principal Contractor and/or the Contractor from commencing or continuing with construction work should the Principal Contractor and/or the Contractor at any stage in the execution of the works be found to:

- have failed to have complied with any of the administrative measures required by the Construction Regulations in preparation for the construction project or any physical preparations necessary in terms of the Act;
- have failed to implement or maintain their health and safety plan;
- have executed construction work which is not in accordance with their health and safety plan; or
- Act in any way which may pose a threat to the health and safety of any person(s) present on the site of the works or in its vicinity, irrespective of him/them being employed or legitimately on the site of the works or in its vicinity.

16.2 Principal Contractor

16.2.1 The Principal Contractor shall accept the appointment under the terms and Conditions of Contract. The Principal Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3 of the Construction Regulations. Annexure B of this Specification contains a "Notification of Construction Work" form. The Principal Contractor shall submit the notification in writing prior to commencement of work and inform the Client or his Agent accordingly.

16.2.2 The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification and all relevant health and safety legislation. This Specification is not intended to supersede the Act nor the Construction Regulations or any part of either. Those sections of the Act and the Construction Regulations which apply to the scope of work to be performed by the Principal Contractor in terms of this contract (entirely or in part) will continue to be legally required of the Principal Contractor to comply with. The Principal Contractor will in no manner or means be absolved from the responsibility to comply with all applicable sections of

the Act, the Construction Regulations or any Regulations proclaimed under the Act or which may perceivable be applicable to this contract.

- 16.2.3 The Principal Contractor shall provide and demonstrate to the Client a suitable and sufficiently documented health and safety plan based on this Specification, the Act and the Construction Regulations, which shall be applied from the date of commencement of and for the duration of execution of the works. This plan shall, as appendices, include the health and safety plans of all Sub-contractors for which he has to take responsibility in terms of this contract.
- 16.2.4 The Principal Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.
- 16.2.5 The Potential Principal Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations. (Note: This shall have to be contained in the conditions of tender upon which a tenderer's offer is based.)
- 16.2.6 The Principal Contractor shall consistently demonstrate his competence and the adequacy of his resources to perform the duties imposed on the Principal Contractor in terms of this Specification, the Act and the Construction Regulations.
- 16.2.7 The Principal Contractor shall ensure that a copy of his health and safety plan is available on site and is presented upon request to the Client, an Inspector, Employee or Sub-contractor.
- 16.2.8 The Principal Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this Specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Client or Inspector upon request. Upon completion of the works, the Principal Contractor shall hand over a consolidated health and safety file to the Client.
- 16.2.9 The Principal Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his Sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Principal Contractor.
- 16.2.10 The Principal Contractor shall from time to time evaluate the relevance of the Health and Safety Plan and revise the same as required, following which revised plan shall be submitted to the Client and/or his/her Agent for approval.

17. Health and Safety Inspections/Audits

- The Principal Contractor shall ensure that the work area, equipment, machinery, safety equipment and wear, etc are inspected on a regular basis.
- Proof of such inspections are to be maintained in the "Safety File"
- All non-conformances revealed during the inspections are to be noted and rectified as soon as possible. The client, health and safety unit will also conduct formal audits at least once a month and deviations that are revealed must be rectified within the required time frame.
- All portable tools shall be inspected daily by the user as well as weekly recorded inspections and testing to be done.

18. Emergency Preparedness

The Principal Contractor shall develop and implement an emergency plan for site in collaboration with sub-contractors and the client representative. The plan would have to be revised due to the changing environment on construction site. Specific requirements for first aid and medical as well as fire and rescue will be addressed. The contractor is to ensure that the necessary firefighting equipment is in place in respective areas and proper signage placed at the conspicuous places. Emergency preparedness plan shall ensure that all emergency contact details are placed in a conspicuous place where they can be easily seen and accessed by employees.

19. Non Compliance to Health and Safety Standards

The CENTLEC Representatives reserve the right to stop the operations of the Principal Contractor should it be found that the operations are being undertaken in noncompliance with the laid down health and safety plan based on this specification.

The client has the authority to issue a non-conformance report to any contractor not complying to the SHE requirements on site, with necessary required rectification action required within a specific time frame.

It is noted to the contractors that any expenses incurred due to non-conformances shall be for Contractor's account in question.

Safety officers and other personnel have the authority to stop work if there is a life threatening situation or danger of material loss/damage and direct immediate remedial action under the supervision of contractor's manager is required.

Any "stop work order" shall be followed up and the site manager shall present a written report including remedial actions to avoid the re-occurrence and disciplinary action for contravening safety regulation and if considered necessary to instruct the site manager to remove certain of his personnel from site.

20. Legal Framework

Part of legal obligations

The more important Acts and relevant subordinate/secondary legislation as well as other (inter alia Local Government) legislation that also apply to the State as well as to State owned buildings and premises: -

1. The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority
2. The Fire Brigade Services Act 1987, Act 99 of 1987 as amended
3. Traffic Act.
4. Legislation pertaining to water usage and the environment
5. Common Law

INDEX

- 1. NOTIFICATION OF CONSTRUCTION WORK
- 2. EMERGENCY SERVICE NUMBER
- 3. CONTRACTOR DETAILS
- 4. INSPECTION CHECKLIST
- 5. MANDATARY AGREEMENT

ANNEXURE A

NOTIFICATION OF CONSTRUCTION WORK
Regulation 3 of the Construction Regulations, 2003

- 1. (a) Name and postal address of principal contractor:
.....

(b) Name and telephone number of principal contractor's contact person:
.....
- 2. Principal contractor's compensation registration number:
.....
- 3. (a) Name and postal address of client:
.....

(b) Name and telephone number of client's contact person or agent:
.....
- 4. (a) Name and postal address of designer(s) for the project:
.....

(b) Name and telephone number of designer's contact person:
.....
- 5. Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6(1):
.....
- 6. Name/s of principal contractor's sub-ordinate supervisors on site appointed in terms of regulation 6(2):
.....
- 7. Exact physical address of the construction site or site office:

.....

8. Nature of the construction work:

.....
.....
.....

9. Expected commencement date:

10. Expected completion date:

11. Estimated maximum number of persons on the construction site:

.....

12. Planned number of contractors on the construction site accountable to principal contractor:

.....

13. Name(s) of contractors already chosen:

.....
.....
.....

.....
Principal Contractor

.....
Date

.....
Client

.....
Date

- THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.
- **ALL PRINCIPAL CONTRACTORS** THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

EMERGENCY SERVICES TELEPHONE

Ambulance	10177
Police Flying Squad	(051) 10111
Fire Brigade	(051) 406 6452
Electricity	(051) 409 2345/2455
Water & Sewage	(051) 405 8191/2
Toxic Bureau	(051) 082 491 0160
Disaster Management	(051) 406 6434
Bees	(051) 400 5331

GENERAL EMERGENCY CONTACTS

Traffic	(051) 406 6500
Environment Protection Authority	(051) 406 6441
Pelonomi Hospital	(051) 405-1911
Universitas Hospital	(051) 405 3911
National District Hospital	(051) 403 9600
Mediclinic Hospital	(051) 404 6225
Rose Park Hospital	(051) 505 5111
Netcare Hospital	(051) 433 3197

UTILITIES

Gas Leaks (24 hours)	(051) 406 0500
Electricity	(051) 409 2345/2455
Water & Sewage	(051) 405 8191/2

CONTRACTOR DETAIL

Employer Particulars	
Employer:	
Registered Name of Enterprise:	
Trade Name of Enterprise:	
Company Registration No.:	
SARS Registration No.:	
UIF Registration No.:	
COIDA Registration No.:	
Relevant SETA for EEA purposes:	
Industry Sector:	
Bargaining Council:	
Contact Person:	
Address of Premises:	
Postal Address:	
Telephone Number:	
Fax Number:	
E-mail Address:	
Chief Executive Officer:	
Chief Executive Officer Address:	
Competent Person:	
Maximum power demand: in KW	
Health and Safety Representatives:	
Activities, products manufactured and/ services rendered:	
Raw materials, materials and chemical/ biological substances:	
Total Number of Employees:	Male: Female.....

Contractor Particulars	
Contractors:	
Site Address:	
Contracts Manager:	
Managing Director:	
Competent Persons:	
CR14: SCAFFOLDING:	
CR15: SUSPENDED SCAFFOLDING:	
CR17(6): MATERIAL HOIST (S):	
CR18(1): BATCH PLANT:	
CR8(1)(a): FALL PROTECTION:	
CR11(1)(1): EXCAVATION WORK:	
CR19(2)(b): EXPLOSIVE POWER TOOLS	
CR26(a): STACKING	

MANDATORY AGREEMENT AS PER SECTION 37(2) OF THE ACT

Agreement between CENTLEC and _____ **(contractor name)**
as per the provisions of Section 37 (2) of the Act, to ensure that no provision is given to the contractor to deviate from the Occupational Health and Safety Act 85 of 1993 and the incorporated regulations as stated in Section 44 of the Act.

In terms of the provisions of the Construction Regulations CR 4(1) (c),

I, _____ do hereby appoint
CENTLEC Representative OHS 16.1/16.2

_____ as represented
Name of contractor

by _____ for this construction work
Contractor Representative OHS 16.1/16.2

of construction at area/s: _____
Places where construction has to take place

on the project/construction site: _____.

It is your duty in terms of CR 5(4), to provide and demonstrate to all your sub-contractors a suitable and sufficiently documented health and safety plan and Health & Safety Specification from CENTLEC, based on the relevant sections of the Health & Safety specification for this project, contemplated in CR 5(3) (a) which we shall provide to yourselves, which shall be applied from the date of commencement of and for the duration of your construction work.

Furthermore in terms of CR 5(7) you shall ensure that a Health & Safety file, which shall include all documentation required in terms of the Act and these Regulations, is opened and kept on site and made available to an inspector, CENTLEC Safety Division Representative.

As per CR 5(1) (d), you shall stop any contractor from executing construction work, which is not in accordance with, your health and safety plan for the site or which poses a threat to the health and safety of person.

In terms of CR 6(1) & CR 6(2), appoint a full-time competent person in writing as a Construction Supervisor, and if warranted, one or more Assistant Construction Supervisors, who shall have the same H&S duties as the Construction Supervisor. Provided that a sufficient number of competent employees have been appropriately designated under Construction Regulation CR 6(2) on this construction site, the appointed Construction Supervisor may supervise more than one site. On large projects, or those with high risks or

Accumulation of hazards or risks, must appoint a full-time or part-time Construction Safety Officer, as required by Construction Regulation CR 6(6). You are to lodge copies of these appointments with ourselves.

The responsible/competent person/s appointed in terms of the Act, shall work/consult with _____ (*Contractor name*) and other contractors employed on the project, on a H&S committee established specifically to ensure that the intentions of the OHASA are complied with, as per section 19 of the Act & Construction Regulation CR 7(3). Please furnish us with proof of appointment of H&S representatives, as required by section 18 of the OHASA. Every employee of yours must have undergone H&S induction, pertaining to the hazards prevalent on this construction site/project, prior to them entering the site. All employees must be in possession of proof of such H&S induction, and carry this proof with them for the period that they are on the site as per CR 7(8) and CR 7(9).

You must cause a risk assessment to be performed by a competent person appointed in writing, prior to work commencing & be updated during construction, in terms of Construction Regulation CR 7(1), which shall form part of your H&S plan.

By your signature on the acceptance of the appointment, you accept that both you & your company are fully responsible for any acts or omissions in terms of the Act by any of your employees or mandatories.

You must lodge a certificate with us confirming your registration in terms of the *Compensation for Occupational Injuries & Diseases Act No.130 of 1993*, when start on site.

Your company shall comply with all applicable legislation & amendments thereto, including, but not limited to the following:

- The Aliens Act of 1952;
- The Unemployment Insurance Act of 1986;
- The Labour Relations Act of 1995;
- The Basic Conditions of Employment Act of 1997;
- The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority
- The Fire Brigade Services Act 1987, Act 99 of 1987 as amended
- The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended and relevant proclaimed Regulations (SANS10 0400)
- The Post Office Act 1958 (Act 44 of 1958) as amended
- The Electricity Act 1984, Act 41 of 1984
- The Regulations of Local Gas Board(s), including Publications of the SANS Standards and Codes of Practice, with specific reference to GNR 17468 dated 4th October 1997
- Legislation pertaining to water usage and the environment
- Legislation governing the use of equipment, which may emit radiation (e.g. X-Rays etc.)

- Common Law

Date: _____ Signature: _____
CENTLEC OHS Act Section 6(1) /16(2)

ACCEPTANCE OF APPOINTMENT

I, _____ being CEO of _____
do hereby accept this appointment, and understand the requirements of this appointment
and the Act and Construction Regulations, applicable Municipal regulations & By-laws.

_____ Signature of Mandatory Or his Representative	_____ Name (please print)	_____ Designation	_____ Date
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_____ Signature (16 (2) appointee)	_____ Name (please print)	_____ Designation	_____ Date
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***COPY OF THIS APPOINTMENT IS TO BE AVAILABLE ON THE CONSTRUCTION SITE,
AS WELL AS SHEQ DIVISION OF CENTLEC.***