



TRANSNET Freight Rail
An Operating Division of
TRANSNET LIMITED
(Registration No. 1990/000900/06)

REQUEST FOR QUOTATION (“RFQ”)

RFQ NUMBER EMPBB185- 6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

ISSUE DATE : 22 June 2010
CLOSING DATE : 27 July 2010
CLOSING TIME : 10H00
OPTION DATE : 09 November 2010

Please note that late responses and those delivered or posted to the incorrect address will be disqualified.



RFQ NUMBER EMPBB185- 6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

SCHEDULE OF DOCUMENTS

Section

- 1. Notice to Bidders**
- 2. Background, Overview and Scope of Requirements**
- 3. Quotation Form**
- 4. Resolution of Board of Directors (Respondent's Representative)**
- 5. Certificate of Acquaintance with RFQ Documents**
- 6. Pricing and Delivery Schedule**
- 7. General Tender Conditions (CSS5 – Goods)**
- 8. Standard Terms and Conditions of Contract (US7 - Goods)**
- 9. Certificate of attendance of Information Briefing Section**
- 10. Schedule of Plants**
- 11. Non-Disclosure Agreement**
- 12. Supplier Declaration Form**
- 13. Suppliers Code of Conduct**



SECTION 1

RFQ NUMBER EMPBB185- 6355.

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

NOTICE TO BIDDERS

1. Quotations are requested from interested / selected persons, companies, close corporations or enterprises (hereinafter referred to as the "**Respondent(s)**") to supply the above-mentioned requirement to TRANSNET Freight Rail .

On or after 22 June 2010 the RFQ documents may be inspected at, and are obtainable from the Reception, Tender Advice Centre, Inyanda House 1, Ground Floor, 21 Wellington Road, Parktown, Johannesburg, on payment of a non-refundable tender fee of R250.00 (inclusive of VAT) per set.

Payment is to be made to Transnet Freight Rail, Standard Bank Account number 203158598, Branch code 004805. The deposit slip must reflect RFQ: EMPBB185-6355 and the Company Name. Receipt/s to be presented prior to collection of the tender/s.

NOTE1.1 This amount is not refundable. RFQ documents will only be available until the 29 **June 2010**

2. A compulsory briefing session will be conducted at Transnet Freight Rail, Malahle House, Boardroom 253, **at 9H30, on the 29 June 2010**
 - Respondents failing to attend the compulsory information briefing session will be disqualified.
 - Respondents without a valid RFQ document in their possession will not be allowed to attend the briefing session
 - Respondents to provide own transportation.

The briefing session will start punctually at 9H30 and Respondents arriving late will not be accommodated.

For specific queries before the closing of the RFQ, the following Transnet employee(s) may be contacted by email only:

Name : Barbara Bhengu
Division : Transnet Freight Rail
Phone No : 035 906 7669
Email : Barbara.Bhengu @transnet.net



3. Quotations in triplicate copies must reach the, Chairperson, Transnet Freight Rail Acquisition Council before the closing hour on the date shown below, and must be enclosed in a sealed envelope which must have inscribed on the outside:

| | |
|--|--|
| RFQ No | : EMPBB185- 6355 |
| Description | : Purchase, installation and commissioning of a new 300kVA stand by Generator with enclosed shelter (container) at Malahle House, Empangeni |
| Closing date and time | : 27 July 2010, 10H00 |
| Closing address (refer options paragraph 4 below) | |

4. **DELIVERY INSTRUCTIONS FOR THIS RFQ**

- 4.1 **If posted,** the envelope must be addressed to The Chairperson, Transnet Freight Rail Acquisition Council, P.O. Box 4244, Johannesburg 2000 and must be dispatched in time for sorting by the Post Office to reach the Secretary before the closing time of the RFQ. In the event of the late receipt of a Quotation, the Respondent's franking machine impression will not be accepted as proof that the response was posted in time.
- 4.2 **If delivered by hand,** the envelope is to be deposited in the TRANSNET Freight Rail Acquisition Council tender box which is located in the foyer on the ground floor, Inyanda House 1, 21 Wellington Road, Parktown, Johannesburg, and should be addressed as follows:

THE CHAIRPERSON
TRANSNET FREIGHT RAIL ACQUISITION COUNCIL
GROUND FLOOR
TENDER BOX
INYANDA HOUSE
21 WELLINGTON ROAD
PARKTOWN
JOHANNESBURG
2001

The measurements of the "tender slot" are 500mm wide x 100mm high, and Respondents must please ensure that response documents or files are not larger than the above dimensions. Responses which are too bulky (i.e. more than 100mm thick) must be split into two or more files, and placed in separate envelopes.

It should also be noted that the above tender box is located at the main entrance and is accessible to the public 24 hours per day, 7 days a week.

- 4.3 **If dispatched by courier,** the envelope must be addressed as follows and delivered to the Office of The Chairman, Transnet Freight Rail and a signature obtained from that Office.



**THE CHAIRPERSON
TRANSNET FREIGHT RAIL ACQUISITION COUNCIL
GROUND FLOOR
TENDER BOX
INYANDA HOUSE
21 WELLINGTON ROAD
PARKTOWN
JOHANNESBURG
2001**

5. Please note that this RFQ closes punctually at 10:00 on Tuesday 27 July 2010.
6. If responses are not posted or delivered as stipulated herein, such responses will not be considered and will be treated as "UNRESPONSIVE."
7. NO EMAIL OR FACSIMILE RESPONSES WILL BE CONSIDERED.
8. The responses to this RFQ will be opened as soon as practicable after the expiry of the time advertised for receiving them.
9. TRANSNET freight rail shall not, at the opening of responses, disclose to any other company any confidential details pertaining to the Quotations / information received, i.e. pricing, delivery, etc. The names and location of the Respondents will, however, be divulged to other Respondents upon request.
10. Envelopes must not contain documents relating to any RFQ other than that shown on the envelope. All envelopes must reflect the return address of the Respondent on the reverse side.
11. No slips are to be attached to the response documents. Any additional conditions must be embodied in an accompanying letter. Subject only to clause 22 (*Alterations made by the Respondent to Tendered Prices*) of the General Tender Conditions, alterations, additions or deletions must not be made by the Respondent to the actual RFQ documents.
12. **BROAD-BASED BLACK ECONOMIC EMPOWERMENT ("BBBEE")**

TRANSNET fully endorses and supports the South African Government's Broad-Based Black Economic Empowerment Programme and it is strongly of the opinion that all business enterprises have an equal obligation to redress the imbalances of the past. TRANSNET would therefore prefer to do business with business enterprises who share these same values and who are prepared to contribute to meaningful BBBEE initiatives (including and not limited to enterprise development, subcontracting and Joint Ventures) as part of their tender response.

Transnet would accordingly allow a "preference" in accordance with the 10% preference system, as per the Preferential Procurement Policy Framework Act 5 of 2000 (as amended) to companies who provide a BBBEE accreditation Certificate. All procurement and disposal transactions in excess of R30000 will be evaluated accordingly. All transactions below R30000 will as far as possible be earmarked for EME's.



TRANSNET consequently urges Respondents (Large enterprises and QSE's – see below) to have themselves duly accredited by any one of the Accreditation Agencies approved by SANAS (South African National Accreditation System, under the auspices of the DTI).

In terms of Government Gazette No. 32094, Notice No. 354 dated 23 March 2009, as from 1 August 2009, only BBBEE accreditation Certificates issued by SANAS approved verification agencies will be valid.

However accreditation certificates issued before 23 March 2009 and which are still within their one (1) year validity period will still be acceptable, until their expiry date provided that the accreditation was done in accordance **with the latest codes (i.e. those promulgated on 9 February 2007)**.

BBBEE Accreditation Certificates issued after the published date i.e. 23 March 2009, by a Verification Agency not approved by SANAS, will **NOT** be acceptable as from 23 March 2009.

12.1 Enterprises will be rated by such Accreditation Agencies based on the following:

- (a) **Large Enterprises (i.e. annual turnover >R35 million):**
- Rating level based on all 7 (seven) elements of the BBBEE scorecard
 - Enterprises to provide BBBEE certificate and detailed scorecard (to be renewed annually)
- (b) **Qualifying Small Enterprises – QSE (i.e. annual turnover >R5 million but <R35 million):**
- Rating based on any 4 (four) of the elements of the BBBEE scorecard
 - Enterprises to provide BBBEE certificate and detailed scorecard (to be renewed annually)
- (c) **Exempted Micro Enterprises – EME (i.e. annual turnover <R5m are exempted from being rated or verified):**
- Automatic BBBEE Level 4 rating, irrespective of race ownership, i.e. 100% BBBEE recognition
 - Black ownership >50% or Black Women ownership >30% automatically qualify as Level 3 BBBEE rating, i.e. 110% BBBEE recognition
 - EME's should provide documentary proof of annual turnover (i.e. audited financials) plus proof of Black ownership if Black ownership >50% or Black Women ownership >30% (to be renewed annually) from their Auditors / Accounting Officers

12.2 In addition to the above, Respondents who wish to enter into a Joint Venture (JV) or subcontract portions of the contract to BBBEE companies must state in their Tenders / Quotations the percentage of the total contract value which would be allocated to such BBBEE companies, should they be successful in being awarded any business. A rating certificate in respect of such BBBEE JV-partners and/or sub-contractors, as well as a breakdown of the distribution of the aforementioned percentage allocation must also be furnished with the tender response to enable Transnet to evaluate / adjudicate on all tenders received on a fair basis.



12.3 Each Respondent is required to furnish proof of its BBBEE status (Certificate and Detailed Scorecard) as stipulated above to TRANSNET.

| |
|--|
| <p>Turnover: Indicate your company’s most recent annual turnover:</p> <p>R.....</p> |
|--|

- If annual turnover <R5m, please attach auditors / accounting officers letter confirming annual turnover and percentage black ownership as well as Black Women ownership
- If annual turnover >R5m please attach BBBEE certificate and detailed scorecard from an accredited rating agency.

12.4 The DTI has created an online **B-BBEE Registry** (<http://www.dti.gov.za>) in order to provide a central and standardized source of the B-BBEE status of all entities, and to facilitate the flow of this information amongst entities by providing a Unique Profile Number (UPN) per each listing. Existing and prospective suppliers are therefore urged to list their B-BBEE status on the DTI Registry. Hence, entities verified by DTI, will receive the following benefits:

- Their BBBEE status will be verified and confirmed by the DTI, before listing on the Registry
- Listing on the Registry will provide suppliers the option to market themselves on the DTI B-BBEE Opportunities Network. This is a search engine that is designed to help businesses find B-BBEE compliant entities who match specific requirements in terms of the nature of services/goods provided, region, B-BBEE status or other search criteria.

Transnet supports this DTI initiative and will use the DTI Registry to verify prospective and existing suppliers’ BBBEE credentials.

12.5 The respondent will provide Transnet with its DTI B-BBEE UNIQUE PROFILE NUMBER with all tender submissions.

| |
|---|
| <p>DTI BBBEE UNIQUE PROFILE NUMBER:</p> <p>.....</p> |
|---|

12.6 Failure to submit your BBBEE information in terms of 14.3 and/or 14.5 (above) will result in a score of zero being allocated for BBBEE evaluation..



13. COMMUNICATION

Respondents are warned that a response will be liable to disqualification should any attempt be made by a Respondent either directly or indirectly to canvass any officer(s) or employee of TRANSNET freight rail in respect of this RFQ between the closing date and the date of the award of the business.

A respondent may, however, BEFORE THE CLOSING DATE AND TIME, direct any enquiries relating to the RFQ to the TRANSNET freight rail employee as indicated in clause 2 above, and may also at any time after the closing date of the RFQ, communicate with the Secretary of the TRANSNET Freight Rail, at telephone number 011 544 9486 or fax no. 011 774 9760 on any matter relating to its RFQ response.

14. RFQ SCHEDULE

Respondents will be contacted as soon as practicable with a status update. At this time short-listed Respondents may be asked to meet with TRANSNET freight rail representatives at a location to be agreed.

15. INSTRUCTIONS FOR COMPLETING THE RFQ

- (i) Sign one set of documents (sign and date the bottom of each page). This set will serve as the legal and binding copy. A duplicate set of documents is required. This second set can be a copy of the original signed Quotation.
- (ii) Both sets of documents to be submitted to the address specified above.
- (iii) The following returnable documents must accompany all Quotations:
 - Respondent's latest audited financial statements;
 - Respondent's valid Tax Clearance Certificate.

16. COMPLIANCE

The successful Respondent (hereinafter referred to as the "Supplier") shall be in full and complete compliance with any and all applicable State and Local Laws and Regulations.

17. ADDITIONAL NOTES:

- All returnable documents as indicated in the Quotation Form (Section 3) must be returned with the response
- Respondents are to note that Quotations in which firm prices are quoted for the duration of any resulting contract may receive precedence over prices which are subject to adjustment
- Changes by the Respondent to its submission will not be considered after the closing date
- The person or persons signing the Quotation must be legally authorised by the Respondent to do so (Refer Section 4). A list of those person(s) authorised to negotiate on your behalf (if not the authorised signatories) must also be submitted along with the Quotation together with their contact details.
- All prices must be quoted in South African Rands
- TRANSNET freight rail reserves the right to undertake post-tender negotiations with selected Respondents or any number of short-listed Respondents and may wish to visit the Respondent's place of manufacture (works) during this process.



NB: Unless otherwise expressly stated, all Quotations furnished pursuant to this Request shall be deemed to be offers. Any exceptions to this statement must be clearly and specifically indicated. TRANSNET freight rail reserves the right to reject any or all offers.

**FAILURE TO OBSERVE ANY OF THE AFOREMENTIONED REQUIREMENTS
MAY RESULT IN A QUOTATION BEING REJECTED**

18. DISCLAIMERS

Respondents are hereby advised that TRANSNET freight rail is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. In particular, please note that TRANSNET freight rail reserves the right to:

- modify the RFQ’s Goods and request Respondents to re-bid on any changes
- reject any Quotation which does not conform to instructions and specifications which are detailed herein
- disqualify Quotations submitted after the stated submission deadline
- not necessarily accept the lowest priced Quotation
- reject all Quotations, if it so decides
- award a contract in connection with this Quotation at any time after the RFQ’s closing date
- award only a portion of the proposed Goods which are reflected in the scope of this RFQ
- split the award of the contract between more than one Supplier
- make no award of a contract

Kindly note that TRANSNET freight rail will not reimburse any Respondent for any preparatory costs or other work performed in connection with this Quotation, whether or not the Respondent is awarded a contract.

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19. LEGAL REVIEW

Any Quotation submitted by a Respondent is subject to review and negotiation of the proposed contract by TRANSNET freight rail’s Legal Counsel.

Respondents to complete this section:

| |
|--------------------------|
| NAME OF RESPONDENT |
| PHYSICAL ADDRESS |
| |

| | |
|------------------------------|------------------|
| Respondent’s contact person: | Name..... |
| | Designation..... |
| | Telephone..... |
| | Cell Phone..... |
| | Facsimile..... |
| | Email..... |
| | Website..... |

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TRANSNET freight rail urges its clients, suppliers and the general public to report any fraud or corruption on the part of TRANSNET freight rail’s employees to
TIP-OFFS ANONYMOUS : 0800 003 056



SECTION 2

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

BACKGROUND, OVERVIEW AND SCOPE OF REQUIREMENTS

1. BACKGROUND

Purchase, installation and Commissioning of a new 300kVA stand by generator with enclosed shelter (container) at Malahle House, Empangeni.

2. EXECUTIVE OVERVIEW

Most TRANSNET freight rail Operating Divisions currently procure their Goods requirements through a number of service providers. Our objective is to source all activity through a Preferred Supplier(s) capable of servicing all TRANSNET freight rail Operating Divisions in locations around the country.

TRANSNET freight rail is seeking a partner(s) to provide solutions for its requirements nationally. It also seeks to improve its current processes for providing these Goods to its end user community throughout its locations.

The selected service provider(s) will share in the mission and business objectives of TRANSNET freight rail. These mutual goals will be met by meeting contract requirements and new challenges in an environment of teamwork, joint participation, flexibility, innovation and open communications. In this spirit of partnership, TRANSNET freight rail and its Supplier(s) will study the current ways they do business to enhance current practices and support processes and systems. Such a partnership will allow TRANSNET freight rail to reach higher levels of quality, service and profitability.

Specifically, TRANSNET freight rail seeks to benefit from this partnership in the following ways:

- TRANSNET freight rail must receive reduced cost of acquisition and improved service benefits resulting from the Supplier's economies of scale and streamlined service processes.
- TRANSNET freight rail must achieve appropriate availability that meets user needs while reducing costs for both TRANSNET freight rail and the chosen Supplier(s).
- TRANSNET freight rail must receive proactive improvements from the Supplier with respect to supply of Goods and related processes.
- TRANSNET freight rail's overall competitive advantage must be strengthened by the chosen Supplier's leading edge technology and service delivery systems.



- TRANSNET freight rail end users must be able to rely on the chosen Supplier’s personnel for service enquiries, recommendations and substitutions.
- TRANSNET freight rail must reduce costs by streamlining its acquisition of Goods, including managed service processes on a Group basis.

3. ABBREVIATIONS, ACRONYMS AND DEFINITIONS

| ABBREVIATIONS AND ACRONYMS | DESCRIPTION |
|----------------------------|-----------------------------|
| AC | Alternate Current |
| AVR | Automatic Voltage Regulator |
| DC | Direct Current |
| kVA | Kilo Volt Ampere |
| kW | Kilo Watt |
| TFR | TRANSNET freight rail |
| PF | Power Factor |
| RMS | Root Mean Square |
| RPM | Revolutions Per Minute |
| SPC- | <u>Specification</u> |

4. SCOPE OF REQUIREMENTS

- 4.1 This Specification covers the manufacture, supply, delivery to site, off-loading, commissioning, training, guarantee and service for 12 months of one new Generator Set with external Control Cubicle in a sound proof and water proof container at Malahle House, Empangeni.
- 4.2 The cabling between the Main ACDB and the Generator Set will be supplied by the successful tenderer
- 4.3 The cable connection to the Generator Control Cubicle and the testing and commissioning of the Generator Set must be done by the successful tenderer.

5. DIESEL GENERATOR SET SPECIFIC REQUIREMENTS

5.1 Specific Requirements:

| DESCRIPTION | REQUIRED | NOT REQUIRED |
|--|----------|--------------|
| Weather Proof Enclosure | Required | |
| Sound Proofing of Weather Proof Enclosure' | Required | |
| Manufactured from 3CR'12 | Required | |
| Change-over System. Set Mounted | | Not Required |
| Change-over System mounted in Main Board EPS Distribution Board | Required | |
| Dummy Load | Required | |



| | | |
|--|---|--------------|
| Diesel Transfer Pump | Required | |
| DEHNventil DVM TT255 Surge Protection | Required | |
| DEHNgaord M TT230/400-Surge Protection | | Not Required |
| Cooling Tower | | Not Required |
| Height above sea level requirement | 100m | |
| Load acceptance: requirement | Loads will be stepped Bidder's. quote to: indicate load acceptance capability | |
| Diesel Tank Capacity | 500 Litre Gravity Feed with | |
| Required Output kW | 300 kW @ PF 0.90- Prime Power | |
| Configuration | Three Phase | |
| Site's measured Power Factor | 0.90 | |

5.2 TFR must be notified one week in advance for witnessing the' factory test.

6. DIESEL GENERATOR APPROVED EQUIPMENT

6.1 Diesel Engines:

- 3.1.1 Perkins
- 3.1.2 Lister
- 3.1.3 Cummins
- 3.1.4 John Deere
- 3.1.5 Iveco
- 3.1.6 Deutz
- 3.1.7 MTU
- 3.1.8 CAT

6.2 Alternators:

- 3.2.1 Leroy Somer
- 3.2.2 Marathon
- 3.2.3 Marelli Motory



7. DIESEL GENERATOR CONTROLLER REQUIREMENTS

- 7.1 The controller must be the LOVATO RGK60 modular generator controller and must be mounted on the face of the control cubicle.
- 7.2 The latest version of the RGK Customization Software must be supplied/ installed by the contractor.
- 7.3 The controller must be fitted with the standard communication module (RGK60 X22) and must be configured for PS485 communication using the MODBUS protocol.
- 7.4 The contractor must allow on the backplane of the cubical enough space for additional equipment/ converters.
- 7.5 All the mains voltages and frequency monitoring must be provided on the software.
- 7.6 All metering must form part of the controller software and must be accessible on the controller software.
- 7.7 Mains and alternator measurements must be done by the controller. When the output voltage of the alternator varies by more than 10% on ANY phase, the controller must signal that the load must be disconnected from the alternator and the engine stopped.
- 7.8 The starter battery voltage must be software monitored by the controller. The voltage must be digitally displayed.
- 7.9 When the frequency of the incoming mains varies by more than 5% from the normal frequency, the controller must signal that the incoming mains must be disconnected and the engine-starting sequence initiated.
- 7.10 Upon restoration of the incoming mains to within 10% of the normal voltage on all phases, the controller must signal that the load must be disconnected from the alternator and be reconnected to the incoming mains.
- 7.11 Should the incoming mains fail to remain within the above parameters, while the engine is running under control of the cooling-off timer, the control for the cooling-off timer in the controller must be cancelled and the load connected to the alternator.
- 7.12 All timers must be implemented in the software, no external hardware timers will be accepted.
- 7.13 It is essential that incoming supply failures/ restorations, occurring at short intervals, do not cause a series of starts and stops.
- 7.14 An Incoming Supply Failure Timer set to 3 seconds is required.
- 7.15 An Incoming Supply Restoration Timer set to 100 seconds is required.
- 7.16 It is essential that the alternator supply be disconnected from the load before the incoming supply is reconnected to the load. This must be software settable in the controller with the timer default value set to 5 seconds.
- 7.17 After the load has been transferred to the incoming supply the engine must run without load for a period to cool off and then stop. A timer, software adjustable in the controller up to 5 min is required. The timer default value must be set in accordance with the engine manufacturer requirements.
- 7.18 A repeat-start control is required in the controller software adjustable so that in the event of the engine failing to start on the first start attempt, the starter motor must be released and repeat the start attempt.
- 7.19 The repeat-start attempt must be repeated 3 times.
- 7.20 The duration of each start attempt must be 6 seconds with a period of 15 seconds between successive start attempts. Should the engine fail to start after the third start attempt, the controller must transmit a signal for alarm purposes: System Failure.



- 7.21 A control circuit must be provided to operate the engine/ alternator set(s) as a station power supply by means of remote signals. The circuit must override the incoming supply-fail timer when the start signal is received. On receiving the remote stop signal, the control circuit must override the incoming supply-restore timer. Both signals will be generated by a remote earthed signal.
- 7.22 Metering must be done by the controller.
- 7.23 The following minimum measurements are required:
 - 7.23.1 Mains Voltage
 - 7.23.2 Alternator Voltage
 - 7.23.3 Mains Current
 - 7.23.4 Alternator Current
 - 7.23.5 Mains Frequency
 - 7.23.6 Alternator Frequency
 - 7.23.7 Mains PF
 - 7.23.8 Alternator PF
 - 7.23.9 Battery Voltage
 - 7.23.10 Oil Pressure
 - 7.23.11 Water Temperature
 - 7.23.12 Diesel Tank Level
 - 7.23.13 Engine Speed (RPM)

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7.23.14 The control selector must have the following settings:

| | DESCRIPTION |
|---------|--|
| OFF | Generator Set switched. off |
| MANUAL. | AMF"Function Disabled. Generator needs to be manually started |
| AUTO | Generator set operates is AMP mode |
| TEST | Generator starts up immediately and takes load irrespective of mains. status |

7.24 Alarms and status indicators must be displayed on the controller screen. It must be possible to browse the alarm history from the keypad on the controller.

7.25 Alarms must furthermore be logged and must be downloadable via the communications interface.

7.26 The following alarm / status indications must be displayed by- the controller:

- 7.26.1 High engine temperature. (Alarm must cause the engine to stop).
- 7.26.2 Low Oil Pressure. (Alarm must cause the engine to stop).
- 7.26.3 High / Low Alternator Output Voltage (Alarm must cause the engine to stop).
- 7.26.4 Over 8v Under Speed (Alarm must cause the engine to stop).
- 7.26.5 Low water level. (Alarm must cause the engine to stop).
- 7.26.6 Emergency Stop Activated. (Alarm must cause the engine to stop The alarm must be set to be non-latching).
- 7.26.7 Main Fail
- 7.26.8 Battery Charger Fail
- 7.26.9 Unit not in Auto
- 7.26.10 Engine Running
- 7.26.11 Level 1 Fuel Alarm
- 7.26.12 Level 2 Fuel Alarm
- 7.26.13 Level 3 Fuel Alarm
- 7.26.14 Engine Start Failure



7.27 The alarms must be transmitted to the EMPANGENI NOC via SMS.

8. DIESEL GENERATOR CONTROL PANEL REQUIREMENTS

- 8.1 The control equipment must be housed in a sturdy cubicle manufactured from sheet steel with a minimum thickness of 2mm.
- 8.2 Access to the cubicle must be such that all components can be conveniently reached for testing and maintenance purposes.
- 8.3 The necessary bushes and a screen over the terminals must be provided where the power feeds enter and leave the cubicle.
- 8.4 The cubicle must be so constructed that the ac and dc components are screened from one another.
- 8.5 The cubicle must be vermin-proof with proper ventilation provided.
- 8.6 If doors are provided, the minimum opening angle must be 90 ° at all times.
- 8.7 Suitable dust proofing rubbers must be fitted (minimum thickness of 6 mm).
- 8.8 All holes, slots etc. must be pre-drilled and pre-cut before any spray-painting is done.
- 8.9 The control cubicle must be powder coated red to shade Al of SABS 1091.
- 8.10 The control panel must be fitted with an emergency stop button. The button must be of the slam-stop, twist release type and must be clearly labelled as such.
- 8.11 When depressed the diesel/ alternator must immediately stop and the load must be disconnected from the set and a standby failure alarm must be enlightened and transmitted.
- 8.12 The stop button must be red with a minimum diameter of 25 mm. A label indicating its function must be positioned directly above the stop button.
- 8.13 A run hour meter must be installed in the control cubicle to operate separately from the controller.
- 8.14 A Start switch must be fitted to the face of the panel for the diesel filler pump. The switch must be of the push button type and must automatically return to the off position if not depressed.
- 8.15 The alternator circuit breaker must be mounted in the control panel and must be rated to protect the alternator against over-current and sized in accordance with the fault current decrement of the alternator. (IEEE standard 446 refers). The breaker must be fitted with auxiliary contact to indicate the breaker status to the controller.
- 8.16 The switchgear, circuit breakers and contactors must be of the M&G and or Telemecanique manufacture and must be selected fully in accordance with SABS IEC 947-6-1:1989. The system classification must be class CB. The switching mechanism utilisation category must be AC -33A (frequent operations). The change-over contactors/circuit breakers must be remotely activated from the control cubicle. A 220 V ac supply is required to activate the change-over contactors/circuit breakers. The change-over contactors/circuit breakers must be mechanically and electrically interlocked.
- 8.17 Surge protection must be supplied with condition indication and must be of the DEHNventil DV TT255 with 315A pre-fusing fitted. The surge protection alarm contacts must be wired to the controller for extension and monitoring purposes.
- 8.18 All relays within the control cubicle must be securely mounted by using suitable spring clips.
- 8.19 Only the following slave relays will be allowed:
- 8.19.1 Starter solenoid



- 8.19.2 Fuel solenoid
- 8.19.3 Mains contactor
- 8.19.4 Alternator contactor
- 8.19.5 Dummy load

- 8.20 The charger, fuel pump and water heater jacket must be supplied from the load side of the change over system. Mains sensing must be taken from the line side of the mains changeover. Both the mains sensing and auxiliary supplies must be taken to the controller through suitably sized circuit breakers.
- 8.21 All external wiring for low voltage, control, interlocking, alarm, measuring and D.C. circuits must terminate on numbering wiring terminals of the insulation displacement type.
- 8.22 The terminal numbers must appear on the wiring diagrams of the switchboard. Terminals for internal wiring must not be interposed with terminals for external circuits. Terminals for power wiring must be separated from other terminals.
- 8.23 Conductors to hinged panels and doors must be secured on both the door and the frame and must be looped between the two points. The loop must be arranged to produce a twisting motion when the door is opened or closed. A flexible protection sleeve must be installed over the conductors.
- 8.24 A summary of the operating instructions must be laminated and fitted to the face of the panel. The operating instructions must indicate the following:
 - 8.24.1 Alarm Clearing and Resetting Procedures
 - 8.24.2 Procedures for starting the machine in "Manual" mode.
 - 8.24.3 Procedures for bypassing the Standby Plant.

9. DIESEL GENERATOR ENGINE AND ALTERNATOR REQUIREMENTS

- 9.1 The availability of all components must be guaranteed for a min. period of 10 years.
- 9.2 The battery charger must be of the LOVATO BCE type chargers.
- 9.3 The battery charger must be set to 60% of the charging capacity.
- 9.4 The battery charger must be connected in parallel with the engine driven generator, to float and maintain the battery voltage between 2.23 V and 2.30 V per cell and must be suitable to charge the battery in accordance with the battery manufacturer's recommendations.
- 9.5 The output of the charger must be limited to 5 A.
- 9.6 The input of the charger must be connected to the incoming mains.
- 9.7 A loss-of-charge current alarm must be provided to the controller to indicate failure of the mains charger. This must be a current monitor. A delay period of 1 minute must be allowed in the controller before the alarm is triggered.
- 9.8 The engine must be equipped with a charging generator/ alternator of suitable voltage with current rating not less than 30 Amps to charge the starter battery.
- 9.9 The generator/ alternator must be fitted with a regulator to maintain the starter battery at the correct voltage in accordance with the battery supplier's requirement.
- 9.10 The generator/ alternator must be readily available in South Africa.



- 9.11 A centre-zero do ammeter must be connected in the generator/ alternator starter battery circuit to indicate the charge or discharge current.
- 9.12 Short circuit protection must be provided between the generator/ alternator and the battery.
- 9.13 All engine wiring must be installed in flexible plastic tubing. Where small lengths of wire protrude, spiral sleeving may be used. In all cases, the wire numbering must be visible.
- 9.14 The engine must have a forced-feed lubrication system adequately rated to supply circulating lubrication oil to all bearings, gear trains and important moving parts.
- 9.15 The engine must be fitted with an oil-pressure relay that must operate when the lubricating oil pressure falls below the engine manufacturer's stated safe value.
- 9.16 The engine must be fitted with a suitably rated, normally closed, fail-safe snap action oil pressure sensor compatible with solid state controls that must be extended to the controller.
- 9.17 A lubricating oil-filter of adequate capacity for at least 250 h of continuous use must be fitted.
- 9.18 A label indicating the grade of oil and frequency of oil changes must be affixed to the engine.
- 9.19 A recognized automatic turbo-lubrication system to be incorporated for turbocharged engines.
- 9.20 A ball valve with a flexible hose must be fitted to the bottom of the sump.
- 9.21 All continuously rotating engine parts not pressure-lubricated must operate in sealed ball or roller bearings.
- 9.22 Only single bearing alternators must be supplied. Torsion tests and/or certificates must be supplied with the engine and alternator combination when requested.
- 9.23 The alternator must be equipped with sealed ball or roller bearing capable of operating for at least 720 hrs without attention.
- 9.24 The alternator must comply with the vibration test requirements specified in BS 4999 Part 50.
- 9.25 The engine must be equipped with an electric starting motor that is readily available in South Africa.
- 9.26 The cooling system must be thermostatically controlled entirely self-contained and must consist of a radiator, fan and circulating pump.
- 9.27 Radiators must be heavy-duty air-blast tropical type pressurized radiators adequately sized for continuous full load operation of the set and must be fitted with a AC-DC Dynamics, External LS-103-4 Reed Switch %" NPT N.C. water level sensor.
- 9.28 The engine must be equipped with a coolant temperature detector with the controller indicating the engine temperature. Should the temperature control wiring to the controller be disconnected it must indicate a fault condition.
- 9.29 The capacity of the fan must be sufficient to provide the required engine cooling and plant room ventilation.
- 9.30 The manufacturer must indicate the method of driving the fan, i.e. whether it is by mechanical coupling to the engine or by means of an electric motor.
- 9.31 A 220 V ac electric heater or heaters with an adjustable thermostat must be fitted to the engine to maintain the cooling system at a suitable temperature for coldstarting. Jacket-heating is to be used with an alarm operated when not operational Ball valves must be fitted to the flow and return pipes of the heater. The heater connection must be brought out to a separate terminal strip the source of supply will be indicated in the requirement accompanying this standard.
- 9.32 Engines equipped with emission control will be preferred.
- 9.33 The engine must be a diesel fuelled, cold starting liquid-cooled, compression ignition; direct injection industrial type as complying with BS 5514 part 1 5 as amended.
- 9.34 The derating of the engine for site conditions must be strictly in accordance with BS 5514 part 1 - 5 as amended to date and must be guaranteed by the successful, tenderer.



- 9.35 Turbo-charged engines will only be accepted if the tenderer provides a written guarantee that the engine can deliver full load within the specific starting period and provide details of load acceptance characteristics together with proof that the response will be as specified.
- 9.36 The engine output must be at 1650 meter above sea level.
- 9.37 The engine technical data with the derating graphs on altitude of each engine must be supplied with the tender and must be part of the engine sizing.
- 9.38 The output of the engine under the specified site conditions must be the Nett available output after allowance for all auxiliary equipment, including air filter, radiator fan, oil pump, water pump; battery-charging alternator, governor,, etc. has been made.
- 9.39 The engine must operate at a nominal speed of 1 500 RPM only.
- 9.40 A governor must be fitted to comply with Glass G2 governing in accordance with ISO 8528-5 1993.
- 9.41 Load step capability must be provided with the tender.
- 9.42 The alternator nominal speed must be 1 500 RPM with a frequency of 50Hz of maximum deviation of 5%.
- 9.43 The alternator must be protected against failure due to low speed operation.
- 9.44 The alternator must be capable of sustaining, without harm a load of 110 % for one hour in every twelve hours at 40 °C and 90 % relative humidity.
- 9.45 A good sinusoidal waveform free of slot ripple is essential At no-load the waveform distortion must be less than 2 %. At full load unity and 0.8 PP lag linear loads the total waveform distortion must be less than 5 % with no individual harmonic exceeding 3 %.
- 9.46 The maximum waveform distortion of the alternator voltage when supplying 70 non-linear load must not exceed 15 %, where the RMS value of the harmonic current for any individual harmonic will not exceed the value given by the following equation: $I_n < I_1/n$. Where I_n = RMS value of the n-th harmonic current and I_1 = RMS value of the 50 Hz current.
- 9.47 The efficiency of 3-phase alternators must be better than 85 % at full load, nominal voltage and 50 Hz at a load power factor of 0.8 lagging. The efficiency of the alternator must be supplied at a 0.8 PP.
- 9.48 The alternator must comply with BS 4999 Section 40.5 in respect of sudden short circuits.
- 9.49 The design of the alternator and regulator system must be such that it will maintain machine excitation for a period of 10 sec at a rating of 300% to clear protection circuits, under the following conditions:
- 9.49.1 Any phase to phase short-circuit.
 - 9.49.2 Any phase to neutral short-circuit.
 - 9.49.3 Any phase to phase to neutral short-circuit (double earth-fault)
 - 9.49.4 Three phase to neutral short-circuit.



- 9.50 The alternator and voltage regulator components must be protected against voltage transients induced by switching or lightning surges. The requirements laid down in SABS IEC 60664-1 category 1 must be adhered to.
- 9.51 The alternator must be a brush less 2/3 pitch low harmonic, 4 pole type, to class °H" temperature rise, that complies with the relevant requirements of IEC 34-9, SABS IEC 34-1, SABS IEC 34-8 and ISO 8528-3.
- 9.52 The alternator must be to class 'H' insulation.
- 9.53 The alternator must be AVR controlled. Shunt connected AVR's are not allowed.
- 9.54 The voltage must be maintained to within $\pm 10\%$ of 400V from no load to full load, at unity and 0.8 PP lag inclusive of cold to hot drift and inclusive of engine speed droop up to 4.5%.
- 9.55 The alternator must be capable of operating continuously with a load current unbalance between phases of 100% at both unity and 0.8 PP.
- 9.56 The alternator must be protected to "IF 23" or better as defined in BS 4999 Part 20.
- 9.57 The alternator cooling must be in accordance with "IC 01" as defined in BS 4999 Part 21.
- 9.58 One or more lifting eyes must be provided to the alternator.
- 9.59 A DUVALCO water and fuel separator must be fitted before the supply pump to filter the input fuel to the engine.
- 9.60 A DUVALCO Modular Filtration System will be provided on the bottom of the fuel tank through which the Diesel will be filtered back to the top of the fuel tank.
- 9.61 Flexible hoses must be used for connections to the input and output.
- 9.62 A fuel-control solenoid must be fitted and must be rated for continuous operation. The solenoid must be energized for the full period that the engine is running. The controller must not operate with more than two mechanical links.
- 9.63 The main fuel line to the Diesel engine must be equipped with a fire resistant shut down valve similar to the Crane Haby gate valve operated by a fuse type or similar fire detector to close off the fuel supply in the event of a fire.
- 9.64 All fuel-lines before the cut off valve must be fireproof.
- 9.65 A ball valve must be fitted in the bottom of the tank to drain off sludge and water.
- 9.66 A diesel overflow pipe must be provided.
- 9.67 The Fuel feed to the engine will be gravity driven.
- 9.68 An electrically driven self-priming diesel transfer pump of the gear type, capable of operating at a section head of 5 m and a delivery head of 6 m must be provided. The pump must be fitted below the diesel tank with an isolating switch connected.
- 9.69 The transfer pump must be capable of delivering a minimum of 300 litre of diesel per hour.
- 9.70 The pump must operate both under mains and standby power conditions.
- 9.71 An air cleaner of the dry-element type must be fitted with air flow restriction indication. The air intake must be mounted so that air is taken in from the outside of canopy sets.
- 9.72 Open sets must be equipped with:
 - 9.72.1 An efficient residential type silencer.
 - 9.72.2 Stainless steel flexible exhaust tubing similar to Donaldson that must be clamped and not welded to the exhaust system.
 - 9.72.3 Sufficient brackets and clamps to support the exhaust system.



- 9.72.4 Suitable temperature resistant material must be provided to cover all the exhaust pipes and silencer, EXCLUDING flexible tubing.
- 9.73 The following specific spares must be supplied:
- 9.73.1 1x Lubricating-oil filter element
 - 9.73.2 1x Fan belt
 - 9.73.3 1x Diesel fuel filter element
 - 9.73.4 1x Air filter
- 9.74 The dummy loads must be rated at 50 % of the total kVA output rating of the diesel alternator supplied. Automatic sensing must be incorporated to switch the dummy loads in after a 5 - 10 minute period once the actual load is less than 45 of the rated output of the alternator and must be switched out when the actual load, excluding the dummy loads, is 50 % or more.
- 9.75 The dummy loads must be parallel to the output circuit after the Alternator circuit breaker.
- 9.76 The dummy loads must be positioned in the radiator cowling.
- 9.77 Every engine/ alternator set and cubicle must be tested as a unit at the maker's works. The alternator must be loaded to its full capacity at unity power factor. The set must be capable of carrying this load without overheating of the engine or the alternator.
- 9.78 The following must be recorded every 30 minutes throughout the test:
- 9.78.1 Voltage across load
 - 9.78.2 Current through load
 - 9.78.3 Engine-head temperature
 - 9.78.4 Ambient air temperature
 - 9.78.5 Any adjustment made to the set during the test run must be recorded on the test sheet.
- 9.79 The supplier must specifically certify that every set is capable of producing its full output without overheating of the alternator or the engine when operating under the following conditions:
- 9.79.1 Specified Altitude
 - 9.79.2 Ambient air temperature: 35 °C
 - 9.79.3 Relative humidity: 90



- 9.80 The above test results must be available at the time of final inspection failing which an inspection certificate will not be issued.
- 9.81 When the generator set is installed the installation contractor must execute a 6hour uninterrupted full building load run with generator commission on site. This is in addition to the factory acceptance test run of 1 hour of 100% and 110% of generator capacity specified in the specification.

10. DIESEL GENERATOR SET CANOPY

- 10.1 The Generator Set Canopy must be completely vermin-proof, sound proof, weather proof, minimum IP21, removable from the Generator Set and must be constructed of 3CR12 stainless steel of a minimum thickness of 1,5 mm. Rivets or self-tapping screws will under no circumstances be allowed for fixing the various sections of the enclosure. Only cadmium coated nuts and bolts are acceptable.
- 10.2 The roof of the enclosure must be constructed for proper drainage of water with a pitch of not less than 7 degrees.
- 10.3 The Canopy must allow easy access to the engine, alternator, radiator filler cap and control cubicle for maintenance purposes.
- 10.4 The sound-proofing must have a maximum noise level generated by the set under any load condition not exceeding 55 dBA measured in any direction at a distance of 7 m from the centre of the side of the unit.
- 10.5 A metal jacket must be provided on the inside of the door of canopy sets to hold the various spare parts, manuals and drawings associated with each set.
- 10.6 The doors must be flush with the rest of the canopy and of the side opening type. A minimum of four doors are required i.e. two on either side.
- 10.7 The door hinges and locking bars must be of a heavy-duty type and be manufactured of an alloy or mild steel which is hot dip galvanised. The hinges must be fitted with a nylon bush and grease nipple.
- 10.8 Rubber seals on doors must be equal to or similar to the Mc-Norten pinch weld win lace door rubbers.
- 10.9 Silencers must be mounted within the Canopy.
- 10.10 The roller bar must be mounted within the Canopy with the lifting eye protruding through the roof.
- 10.11 Perforated sheeting must be fitted over all insulating material inside the Canopy of all soundproof sets.
- 10.12 Mechanical design drawings of the proposed Canopy sets must be supplied with the tender documents for tenders tendering the first time.
- 10.13 The cable entries and the terminal connections must be brought out to a lockable terminal box. One 20A switched socket outlet must be provided in the terminal box. The supply to this socket outlet must be taken from the Generator Set's load side protected by an earth leakage unit.
- 10.14 The starter battery must be housed in an insulated compartment with forced air flow when the engine is running. It should be provided with easy access for maintenance and removal of the battery.
- 10.15 A lamp fitting and it's associated on/off door switch must be provided inside the enclosure for illumination of the control panel and enclosure. The power for the lamp must be obtained from the starter battery.
- 10.16 The base of canopy sets must be completely sealed and a drain-plug provided at its lowest point. A label indicating the drain-plug must be fitted.



- 10.17 The final finish must be a pale grey enamel to shade G62 of SANS 1091. The paint thickness must be not less than 0.025 mm.

11. FOUNDATION

Cast 25Mpa concrete slab 300mm thick with Y10 reinforcing at 150mm x 150mm crs. Concrete to have steel float finish

Slab to be 1000mm bigger on all sides to accommodate generator set. This portion to have a 1:50 fall away from canopy.

12. DOCUMENTATION

- 12.1 The contractor will supply three copies of the operating and maintenance manuals for the installation.
- 12.2 The manuals must contain the following:
 - 12.2.1 Wiring Diagrams and Schematic Drawing of the system indicating the wiring for the Engine, Alternator, AVE, Control Cubicle, Interfacing between assemblies, sub-assemblies, components, etc. Each wire, component, terminal, etc. must be clearly annotated on the drawing for identification and maintenance purposes. No drawing must exceed A1 size. Each drawing must be properly numbered.
 - 12.2.2 Fault finding procedures. This must include procedures to follow in the event of the generator failing to start or the changeover failing to operate.
 - 12.2.3 Maintenance procedures for the panel including proposed frequency and tick sheet.
 - 12.2.4 Print out of the Lovato program as well as the parameter file, copied onto a CD.
 - 12.2.5 Completed commissioning tick sheets.
 - 12.2.6 Engine and Alternator handbooks containing the Service Manual, Spare Parts Manual,
 - 12.2.7 Control Cubicle handbooks containing the Operating Manual, Faultfinding manual, Component lists indicating make, rating etc.

13. TENDER REQUIREMENTS

- 13.1 Tenderers must submit a clause by clause compliance to this specification. Failure to comply with this requirement will automatically exclude a tender from consideration.
- 13.2 Tenderers must state their expertise in Work similar to the Work described in this specification and must submit a reference list. The tenderer's response to this requirement will be a deciding factor during the adjudication of the tender.
- 13.3 Tenderers must quote for the work strictly in accordance with the Schedule of Requirements in clause 12 of this Specification. Failure to comply with this requirement will automatically exclude a tender from consideration.
- 13.4 Transport costs must be quoted for as indicated in the Schedule of Requirements.



14. TESTING, COMMISSIONING AND ACCEPTANCE

- 14.1 The Contractor will be responsible for the testing of all equipment and installations and must allow For all costs incurred in the tender price. These costs include the test arrangements and the supply and use of all test instruments and tools.
- 14.2 Calibration certificates of all test instruments must be available to NESS on request.
- 14.3 The NESS Head Office Project Manager will witness the factory acceptance tests. The Contractor must advise the NESS Project Manager one week in advance of any tests to be witnessed by him.
- 14.4 The NESS Regional Project Manager will witness the final site acceptance tests and will do final inspection and acceptance. The Contractor must advise the NESS Project Manager one week in advance when the Generator Set will be ready for inspection and testing.
- 14.5 Outstanding observations and defects (not affecting functionality) as indicated by the NESS Project Manager at the final inspection, must be corrected by the Contractor within one month of acceptance.
- 14.6 The NESS Project Manager will issue a "notice of completion" certificate at his own discretion on completion of the Works.

15. TERMS AND CONDITIONS

- 15.1 The required completion period of the project (supply, installation, testing and commissioning) is forty (40) working days after receipt of the order.
- 15.2 NESS will enter into a Minor Works Contract with the successful tenderer.
- 15.3 A 12-month guarantee period is required on all equipment and installations. The guarantee period will commence from the date of the "notice of completion" certificate.
- 15.4 The Contractor must make use of his own tools, test equipment, ladders etc.
- 15.5 The Contractor will be responsible for safety equipment.
- 15.6 NESS will not be responsible for any loss of tools or equipment.
- 15.7 Normal working hours will be from 0700 to 16:00 Mondays to Fridays. Access to the buildings will be arranged by NESS.
- 15.8 Noise and dust must be kept to a minimum at all times.
- 15.9 The Contractor must keep passages and parking areas clean at all times.
- 15.10 The Contractor must adhere to the NESS smoking **policy** and to the Health and Safety **policy**.
- 15.11 Site diary must be implemented and maintained.
- 15.12 All rubble must be removed from site
- 15.13 All work must be completed in accordance with the **applicable** best practice of national standards.

16. GENERAL INFORMATION

It is required that all TRANSNET freight rail will be included in the scope of this Quotation.

The service provider(s) shall be fully responsible to TRANSNET freight rail for the acts and omissions of persons directly or indirectly employed by them.

The service provider(s) must provide the identified information requested and comply with the requirements stated in the RFQ.



17. MANUFACTURERS

The Respondents must state hereunder the actual manufacturer(s) of the Goods tendered for:

(i) LOCAL MANUFACTURER(S):

| RFQ ITEM NO. | NAME | ADDRESS (IN FULL) |
|--------------|-------|-------------------|
| | | |
| | | |

(ii) FOREIGN MANUFACTURER(S):

| RFQ ITEM NO. | NAME | ADDRESS (IN FULL) |
|--------------|-------|-------------------|
| | | |
| | | |

18. SUPPLIERS

The Respondents must state the actual name(s) and address/addresses of the suppliers of the Goods for inspection purposes only:

(i) LOCAL MANUFACTURER(S):

| RFQ ITEM NO. | NAME | ADDRESS (IN FULL) |
|--------------|-------|-------------------|
| | | |
| | | |
| | | |

(ii) FOREIGN MANUFACTURER(S):

| RFQ ITEM NO. | NAME | ADDRESS (IN FULL) |
|--------------|-------|-------------------|
| | | |
| | | |
| | | |
| | | |

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19. IMPORTED CONTENT

The Respondents must state hereunder the value of the imported content as well as the country of origin in respect of each item tendered for:

| RFQ ITEM NO. | PORTION OF THE PRICE | COUNTRY REPRESENTING THE IMPORTED CONTENT |
|--------------|----------------------|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Note: Where more than one country is applicable to one item, the Respondents must furnish this information separately.

20. EXCHANGE AND REMITTANCE

The attention of the Respondents is specially directed to clause 7 (*Exchange and Remittance*) of the General Tender Conditions Form CSS5. The Respondent is also to note that the particulars of the exchange rate on which the Respondent has based its tendered price(s), is/are to be stipulated hereunder only if TRANSNET freight rail is requested by the Respondent to effect payment overseas direct to the Respondent’s principal/supplier.

(a) ZAR1.00 (South African currency) being equal to (foreign currency).
% in relation to tendered price(s) (.....) to be remitted overseas by TRANSNET freight rail.

(b) (Name of country to which payment is to be made)

(c) Beneficiary details :
 Name (Account holder)
 Bank (Name and branch code).....
 Swift code
 Country

(d) (Applicable date of Exchange Rate used)



21. NATIONAL RAILWAY SAFETY REGULATOR ACT

In compliance with the **National Railway Safety Regulator Act, 16 of 2002**, the successful Respondent (the “Supplier”) shall ensure that the Goods to be supplied to TRANSNET freight rail, under the terms and conditions of a contract between the parties, comply fully with the specifications as set forth in **Main Specification** of this RFQ, and shall thereby adhere to railway safety requirements and/or regulations. Permission for the engagement of a subcontractor by the Supplier, as applicable, both initially and during the course of a contract, shall be subject to a review of the capability of the proposed subcontractor to comply with the specified railway safety requirements and/or regulations. The Supplier and/or its subcontractor shall grant TRANSNET freight rail access, during the term of the contract, to review any safety-related activities, including the coordination of such activities across all parts of the organisation.

Accepted:

| | |
|------------|--|
| YES | |
|------------|--|

| | |
|-----------|--|
| NO | |
|-----------|--|

22. SERVICE LEVELS

- Experienced national account representative/s to work with TRANSNET freight rail's sourcing/procurement department (no sales representatives are needed for individual department/locations). Additionally, there shall be a minimal number of people, fully informed and accountable for this agreement.
- TRANSNET freight rail will have quarterly reviews with the Supplier's account representative on an ongoing basis.
- TRANSNET freight rail reserves the right to request that any member of the Supplier's team involved on the TRANSNET freight rail account be replaced if deemed not to be adding value for TRANSNET freight rail.
- Supplier guarantees that it will achieve a 95% service level on the following measures. If the Supplier does not achieve this level, TRANSNET freight rail will receive a 1.5% rebate on sales payable
 - Pick perfect rate/quantity/specifications
 - On-time delivery
- Supplier must provide a toll-free number or alternative number for customer service calls.
- Supplier will pay all costs for returns (shipping, restocking, etc.) as long as materials are in resalable condition. Time limitation on returns will be 14 (fourteen) working days from date of delivery unless the product needs to be shipped back to original manufacturer either for repair or replacement, and then another future reasonable date shall be determined.
- Failure of the Supplier to comply with stated service level requirements will give TRANSNET freight rail the right to cancel the contract in whole, without penalty, giving 30 (thirty) days' notice to the Supplier.



24. RISK

Respondents must elaborate on the control measures put in place by their company, which mitigate the risk to TRANSNET freight rail, pertaining to potential non-performance by a Supplier in relation to -

(i) Quality and specification of Goods delivered:

.....

.....

.....

.....

(ii) Continuity of supply (refer clause 10.1(c) of Form US7):

.....

.....

.....

(iii) Compliance with the Occupational Health and Safety Act, 85 of 1993 (refer clause 7.1(f) of Form US7)

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(iv) Compliance with the National Railway Safety Regulator Act, 16 of 2002 (refer clause 12 above)

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25. REFERENCES

Please indicate below the company names and contact details of existing customers whom TRANSNET freight rail may contact to seek third party evaluations of your current service levels:

| Name of Company | Contact Person | Telephone number |
|-----------------|----------------|------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

26. EVALUATION CRITERIA

TRANSNET freight rail will utilise the following criteria (not necessarily in this order) in choosing a Supplier, if so required:

- Pricing - Whilst not the sole factor for consideration, competitive pricing and overall level of discounts will be critical in indicating how much you value TRANSNET freight rail's business
- Service level guarantees
- Ordering process and reporting to capture, properly discount, and report all TRANSNET freight rail spend.
- An explicit commitment to continuous improvement initiatives
- Compliance - Completeness of your responses and content of the Quotation will be considered
- Financial strength
- References
- Fixed pricing for one year
- BBBEE status of company and/or Social Obligations (CSDP)
- Country-wide network (national footprint)
- Additional value-added services



SECTION 3

RFQ NUMBER EMPBB185- 6355.

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

QUOTATION FORM

I/We _____

(name of company, close corporation or partnership)

of (full address) _____

carrying on business under style or title of (trading as) _____

represented by _____

in my capacity as _____

being duly authorised thereto by a Resolution of the Board of Directors or Members or Certificate of Partners, as the case may be, dated _____ a certified copy of which is annexed hereto, hereby offer to supply the above-mentioned Goods at the prices quoted in the schedule of prices in accordance with the terms set forth in the accompanying letter(s) reference _____ and dated _____ (if any) and the documents listed in the accompanying schedule of RFQ documents.

I/We agree to be bound by those conditions in TRANSNET freight rail's:

- (i) Standard Terms and Conditions of Contract, Form No. US7 - Goods;
- (ii) General Tender Conditions, Form CSS5 – Goods; and
- (iii) any other standard or special conditions mentioned and/or embodied in the Request for Quotation form; and;-

Respondent's Signature

Date and Company Stamp



I/We accept that unless TRANSNET freight rail should otherwise decide and so inform me/us in the facsimile or letter of acceptance, this Quotation (and, if any, its covering letter and any subsequent exchange of correspondence), together with TRANSNET freight rail's acceptance thereof shall constitute a binding contract between TRANSNET freight rail and me/us.

Should TRANSNET freight rail decide that a formal contract should be signed and so inform me/us in the facsimile or letter of acceptance, this Quotation (and, if any, its covering letter and any subsequent exchange of correspondence) together with TRANSNET freight rail's letter of acceptance/intent, shall constitute a binding contract between TRANSNET freight rail and me/us until the formal contract is signed.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Quotation, I/we fail to enter into a formal contract if called upon to do so, or fail to commence the supply of Goods within 4 (four) weeks, TRANSNET freight rail may, without prejudice to any other legal remedy which it may have, recover from me/us any expense to which it may have been put in calling for Quotations afresh and/or having to accept any less favourable Quotation.

I/We accept that any contract resulting from this offer will be for a period of 12 Months only; and agree to a penalty clause to be negotiated with TRANSNET freight rail, which will allow TRANSNET freight rail to invoke a penalty (details to be negotiated) against us should the delivery of the Goods be delayed due to non-performance by us.

The law of the Republic of South Africa shall govern the contract created by the acceptance of this RFQ. The *domicillium citandi et executandi* shall be a place in the Republic of South Africa to be specified by the Respondent hereunder, at which all legal documents may be served on the Respondent who shall agree to submit to the jurisdiction of the courts of the Republic of South Africa. Foreign Respondents shall, therefore, state hereunder, the name of their accredited agent in the Republic of South Africa who is empowered to sign any contract which may have to be entered into in the event of their Quotation being accepted and to act on their behalf in all matters relating to the contract.

Respondent to indicate *domicillium citandi et executandi* hereunder:

NOTIFICATION OF AWARD OF RFQ

As soon as possible after approval to award the contract/s, the successful Respondent (the Supplier) will be informed of the acceptance of its Quotation. Unsuccessful Respondents will be advised in writing of the name of the successful Supplier and the reason as to why their Quotations have been unsuccessful, for example, in the category of price, delivery period, quality, BBBEE status or for any other reason.

VALIDITY PERIOD

TRANSNET freight rail desires a validity period of 3 (three) months (from closing date) against this RFQ. It should be noted that Respondents may offer an earlier validity period, but that their Quotations may be disregarded for



that reason. Should Respondents be unable to comply with this validity period, an alternative validity period must be stated hereunder:

This RFQ is valid until _____ (State alternative validity period/date).

TAX (VAT) REGISTRATION NUMBER

The Respondent must state hereunder the tax registration number which is applicable to Value-Added Tax:

TAX CLEARANCE CERTIFICATE

Respondents are required to forward a valid copy of their company's Tax Clearance Certificate with their Quotation.

Indicate tax clearance certificate expiry date: _____

BANKING DETAILS

BANK: _____

BRANCH NAME / CODE: _____

ACCOUNT HOLDER: _____

ACCOUNT NUMBER: _____

NAME(S) AND ADDRESS / ADDRESSES OF DIRECTOR(S) OR MEMBER(S)

The Respondent must disclose hereunder the full name(s) and address(s) of the director(s) or members of the company or close corporation (C.C.) on whose behalf the RFQ is submitted.

(i) Registration number of company / C.C.

(ii) Registered name of company / C.C.

(iii) Full name(s) of director/member(s) Address/Addresses ID Number/s

| | | |
|-------|-------|-------|
| | | |
| | | |
| | | |
| | | |
| | | |



REGISTRATION CERTIFICATE

Respondents must submit a certified copy of their company’s Registration Certificate with their Quotation.

NAME AND ADDRESS OF ACCREDITED AGENT

Provide hereunder, if applicable, details of the accredited agent in the Republic of South Africa appointed as local representative by foreign Respondents and whose address shall be regarded as the Respondent’s domicilium citandi et executandi in terms of the Standard Terms and Conditions of Contract, US7 – Goods.

| | |
|---------|----------------|
| Name | |
| Address | |

CONFIDENTIALITY

All information related to a subsequent contract, both during and after completion, is to be treated with strict confidence. Should the need however arise to divulge any information gleaned from provision of the Goods, which is either directly or indirectly related to TRANSNET freight rail’s business, written approval to divulge such information will have to be obtained from TRANSNET freight rail.

DISCLOSURE OF PRICES TENDERED

Respondents must indicate here **whether TRANSNET freight rail may disclose** their tendered prices and conditions to other Respondents:

| | | | |
|-----|--------------------------|----|--------------------------|
| YES | <input type="checkbox"/> | NO | <input type="checkbox"/> |
|-----|--------------------------|----|--------------------------|

DECLARATION

Respondents to declare hereunder whether any family and/or direct relationship exists between any of the owners / members / directors / partners / shareholders (unlisted companies) of the responding company and any employee or board member of the TRANSNET freight rail Group:

| | | | |
|-----|--------------------------|----|--------------------------|
| YES | <input type="checkbox"/> | NO | <input type="checkbox"/> |
|-----|--------------------------|----|--------------------------|



If YES, please indicate below:

FULL NAME OF OWNER/MEMBER/DIRECTOR/
 PARTNER/SHAREHOLDER

ADDRESS

Indicate nature of relationship (if any):

(Failure to furnish complete and accurate information in this regard may lead to the disqualification of a response and may preclude a Respondent from future business with TRANSNET freight rail)

PRICE REVIEW

TRANSNET freight rail will be benchmarking this price offering(s) against the lowest price received as per the benchmarking exercise. If the Respondent’s price(s) is/are found to be higher than the benchmarked price(s), then the Respondent shall match or better such price(s) within 30 days - failing which the Contract may be terminated at TRANSNET freight rail’s discretion or the particular item(s) or service(s) purchased outside the contract.

RETURNABLE DOCUMENTS

Respondents are required to submit the following returnable documents with their responses (see tick):

| | |
|---|---|
| Notice to Bidders – Section 1 | √ |
| Background overview – Section 2 | √ |
| Quotation Form – Section 3 | √ |
| Resolution of Board of Directors (Respondent’s Representative) - Section 4 | √ |
| Certificate of Acquaintance with TENDER Documents – Section 5 | √ |
| Pricing & Delivery Schedule - Section 6 | √ |
| General Tender Conditions - Form CSS5 – Section 7 | √ |
| Conditions of Contract - Form US7 – Section 8 | √ |
| Audited Financials for previous year | √ |
| Valid Tax Clearance Certificate | √ |
| VAT Registration Certificate | √ |
| BBBEE Accreditation Certificate | √ |
| Letter with the company letter head | √ |
| Certified copy of share certificate of Shareholders, CK1/ CK2 (if CC) | √ |
| Certified copy of certificate of incorporation, CM29/ CM9 (name change) | √ |

 Respondent’s Signature

 Date and Company Stamp



| | |
|--|---|
| Certified copy of Identity documents of Shareholders/ Directors/Members | √ |
| Original cancelled cheque or letter from the bank verifying banking details | √ |
| Certificate of attendance of Information Briefing Section – Section 9 | √ |
| Schedule of plants– Section 10 | √ |
| Non-Disclosure Agreement – Section 11 | √ |
| Supplier Declaration Form Version 7.2 – Section 12 | √ |
| Supplier Code of Conduct – Section 13 | √ |

NOTE: Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13 as indicated in the footer of each page, must be signed and dated by the Respondent.

“PREVIEW COPY ONLY”



By signing the TENDER documents, the Respondent is deemed to acknowledge that he / she has made himself / herself thoroughly familiar with all the conditions governing this TENDER , including those contained in any printed form stated to form part hereof and TRANSNET freight rail Limited will recognise no claim for relief based on an allegation that the Respondent overlooked any such condition or failed properly to take it into account for the purpose of calculating tendered prices or otherwise.

SIGNED at _____ on this _____ day of _____ 2009.

SIGNATURE OF WITNESSES:

ADDRESS OF WITNESSES:

| | | | |
|---|-------|---|-------|
| 1 | _____ | 1 | _____ |
| | _____ | | _____ |
| 2 | _____ | 2 | _____ |
| | _____ | | _____ |

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE:

“PREVIEW COPY ONLY”

NAME

DESIGNATION



SECTION 4

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

SIGNING POWER : RESOLUTION OF BOARD OF DIRECTORS

NAME OF COMPANY: _____

It was resolved at a meeting of the Board of Directors held on _____ that

| FULL NAME(S) | CAPACITY | SIGNATURE |
|--------------|----------|-----------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

in his/her capacity as indicated above is/are hereby authorised to enter into, sign, execute and complete any documents relating to Tenders, Quotations and/or Contracts for the supply of Goods.

FULL NAME _____
SIGNATURE CHAIRMAN

FULL NAME _____
SIGNATURE SECRETARY



SECTION 5

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

CERTIFICATE OF ACQUAINTANCE WITH RFQ DOCUMENTS

NAME OF COMPANY: _____

I/We _____ do

hereby certify that I/we acquainted myself/ourselves with all the documentation comprising this RFQ and all conditions contained therein, as laid down by TRANSNET freight rail Limited for the carrying out of the proposed supply/service/works for which I/we submitted my/our response.

I/We furthermore agree that TRANSNET freight rail Limited shall recognise no claim from me/us for relief based on an allegation that I/we overlooked any RFQ/contract condition or failed to take it into account for the purpose of calculating my/our offered prices or otherwise.

SIGNED at _____ on this _____ day of _____ 2009

WITNESS : _____

SIGNATURE OF RESPONDENT



SECTION 6

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

PRICING & DELIVERY SCHEDULE

| SCHEDULE OF WORK AND PRICES | | | | | |
|-----------------------------|--|----------|------|--------------------|---------|
| No | Description | Quantity | Unit | Price | Amount |
| 1 | Provide engine and alternator complete as per attached specifications with foundation slab and canopy. | 1 | Sum | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
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| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| | | | | GROSS TOTAL | R _____ |

"PREVIEW COPY ONLY"

Respondent's Signature

Date and Company Stamp



| | |
|--|--------------------|
| | 14% V.A.T. R _____ |
| | AMOUNT DUE R _____ |

“PREVIEW COPY ONLY”

Respondent's Signature

Date and Company Stamp



SECTION 7

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

GENERAL TENDER CONDITIONS – GOODS (CSS5 – Goods)

Refer Form CSS5 attached hereto

“PREVIEW COPY ONLY”



SECTION 8

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

STANDARD TERMS AND CONDITIONS OF CONTRACT (US7- Goods)

FOR THE SUPPLY OF GOODS TO TRANSNET FREIGHT RAIL

(Revised August 2008)

Refer Form US7 attached hereto.

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SECTION 9

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

CERTIFICATE OF ATTENDANCE OF INFORMATION BRIEFING SESSION

It is hereby certified that -

1.
2.

Representative(s) of
(name of company)

attended the site meeting / briefing session in respect of the proposed Goods to be rendered in terms of this RFQ on2010.

.....
TRANSNET'S REPRESENTATIVE

.....
RESPONDENT'S REPRESENTATIVE

DATE.....

DATE.....



SECTION 10

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

SCHEDULE OF PLANT

Schedule of major plant and equipment to be used in the execution of this contract in terms of the Contract Conditions and specifications. The respondent must state which plant is immediately available and which will have to be acquired.

(i) **Plant immediately available for work tendered for :**

(ii) **Plant on order and which will be available for work tendered for :**

(iii) **Plant to be acquired for the work tendered for :**



SECTION 11

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

NON- DISCLOSURE AGREEMENT

Refer Non-Disclosure agreement attached hereto.

“PREVIEW COPY ONLY”



SECTION 12

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

Supplier Declaration Form Version 7.4

Refer Supplier Declaration Form attached hereto.

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SECTION 13

RFQ NUMBER EMPBB185-6355

PURCHASE, INSTALLATION AND COMMISSIONING OF A NEW 300kVA STAND BY GENERATOR WITH ENCLOSED SHELTER (CONTAINER) AT MALAHLE HOUSE, EMPANGENI.

SUPPLIER CODE OF CONDUCT

Refer Code of Conduct attached hereto.

“PREVIEW COPY ONLY”