



SCM SUBMISSION: SPECIFICATION / SCOPE OF WORK

PURPOSE OF SUBMISSION	BID ESPECIFICATION – APPOINTMENT OF 1X CONTRACTOR TO SUPPLY, DELIVERY AND INSTALLATION OF DIESEL GENERATORS AT VARIOUS TRAIN STATIONS IN SOUTH GAUTENG REGION OVER A PERIOD OF 6 MONTHS
DESCRIPTION OF GOODS / SERVICES / WORK	SUPPLY, DELIVERY AND INSTALLATION OF DIESEL GENERATORS AT VARIOUS TRAIN STATIONS IN SOUTH GAUTENG REGION OVER A PERIOD OF 6 MONTHS
REQUEST FOR PROPOSAL NUMBER	
DIVISION	PRASA
USER DEPARTMENT	PRASA FACILITIES (SGR)
DATE SUBMITTED	OCTOBER 2026

SPECIFICATION AS AND WHEN REQUIRED AT REAM PROPERTIES: ELECTRICAL REPAIRS AND MAINTENANCE SOUTH GAUTENG SOUTH STATIONS.

1. DEFINATIONS.

- PRASA Rail: One of the subsidiaries of Passenger Rail Agency of South Africa (PRASA) group responsible for managing the property portfolio of the group and the maintenance thereof.
- Facilities Manager: A manager of PRASA-CRES responsible of building and infrastructure portfolio or any person authorized to act in that capacity.
- Project Manager: A person responsible for planning, organizing, leading, and controlling a project to ensure it is completed successfully within the agreed scope, time, cost, and quality requirements.
- Normal Working Hours: in this contract normal working hours will be 07h00 to 17h00 Mondays to Fridays excluding public holidays and weekends.
- Contractor: Successful tender who is appointed by PRASA-CRES and will be responsible to carry out the works as per this specification.

2. SCOPE OF WORK

2.1. The scope of the work / services to be provided by the contractor includes and not limited to:

- Supply, Install 80kva/30kva generators
- Commissioning of the installed generators
- Issue COCs of the complete installations.
- Installation of a palisade/clearview generator cage
- Installation of fire extinguishers in the generator cage with fire extinguisher cabinet
- Construct reinforced concrete plinths.

3. INSTALLATION REFERENCES

All work shall be in accordance with the following publications.

- SANS 10142-1
- SANS 8528
- Occupational Health and Safety Act
- Applicable municipal and Eskom/NRS requirements

4. Contract Performance

The contractor will sign a service level agreement with the PRASA. The performance of the Contractor will be discussed on the monthly basis at meetings scheduled to sit at respective signs. Performance Items to be discussed will include:

- planned vs. actual progress
- submission of reports, invoices and other administration duties
- payment of invoices
- Challenges faced on site
- Health & safety
- Quality of works

5. COMPLIANCE

- Non-conformance (NCR) must be returned within 10 working days.
- All components, once tested and certified, shall be issued with a compliance certificate.
- All components must have a quality assurance label indicating the name of the organization, date, card tested by.
- All components should be SABS approved

6. General Information

- The contract shall be registered with the ECB as laid down in the Electrical Installation Regulations of the Occupational Health and Safety Act 85/1993, clause 5.
- The electrical contractor shall be or have in his employment an accredited person. Proof must be supplied of the above requirements
- The Contractor must have the capacity to be able to work on more than one site at any given time.
- Where day to day repairs is to be undertaken, the Contractor shall first estimate the labor and material cost based on the schedule of prices, before proceeding with the job.
- All material removed to be returned to PRASA-CRES unless otherwise stated.
- Compliance certificates to be issued on completion of all new work done at no cost to PRASA.
- Compliance certificates required for existing installations to be priced at the prescribed set rate.

7. SAFETY AND PROVISION OF MATERIALS:

- The contractor is responsible for supply of all material required.
- All material used shall be SABS approved.
- The material item price shall be based on standard market related plus the percentage mark-up fee.
- Prasa Project Manager /Supervisor reserve the right to query price of any material that is on the material list. He /she may request that the contractor justify a copy of the material purchased, invoices or actual quotes from reputable suppliers.
- All materials supplied and workmanship to meet the prescribed Statutory Requirements, including the Occupational Health and Safety Act of 1993.
- NB: The contractor material supplier must be reputable material supplier and only market-related material prices will be accepted by PRASA

8. Quality Of Work and Workmanship:

- Works with poor workmanship will not be signed off and PRASA reserve the right to hold payments until satisfied with the quality of the works.

9. Non-Compliance:

- Safety – the contractor will always ensure that work is performed in accordance with all the prescribed legal prescripts.
- NB: No work is to be done without approval of Safety File and valid signed site access certificate being issued to the contractor. No Contractor will be allowed on site without having attended the safety Induction training and proof is to be submitted to the Project Manager
- Proof of Work done> the contractor will provide photos of before/during and after work completed with claim submitted. Photos can be submitted electronically.
- Qualified personnel- It is a requirement that personnel performing/overseeing works issued to the contractor be qualified in specific Trade.

10. Pre-qualification requirements

If you do not submit the following documents/information, your submission will be disqualified automatically.

- CIDB grade 3 ME or higher

11. CONTRACT PERIOD

The work is to be done over a period of 6 months.

12. PRICE ADJUSTMENTS

Prices will be fixed for the duration of this contract.



13. PENALTIES

- Should the Contractor fail to deliver on or before the agreed date, a penalty of 3% per day will be charged on the total value of the Purchase order (PO) but shall not exceed 10 percent of the total value of the PO.
- PRASA reserves the right to test the product at any given time during the contract period for compliance. The Contractor will be held liable with costs for any deviations in the specifications which may have resulted in damages and downtime.

14. DEMOLITION

The contractor is responsible for the demolition of the existing equipment and the transportation of the existing equipment from the above-mentioned stations to a nearby PRASA electrical Depot.

15. HANDING OVER

The handovers shall be for each portion of the work when installation is tested and commissioned to the satisfaction of the Project Manager, in accordance with the details as set out in the handing over documentation by PRASA.

16. SECURITY

The contractor shall provide on-site security for personnel and material stock and should ensure that patrols are in place at the section handed over to the contractor and until the completed work is handed over to PRASA. No claims of material or losses shall be lodged with the client for stolen goods during the construction before the completed work is handed over to PRASA.

17. MEASUREMENT AND PAYMENTS

- Completed work will be inspected and Invoices will be submitted to finance department after passing the inspection and testing.
- Any rejected and incomplete work will not be paid for until it is rectified.
- This project has a retention clause(10%) as according to the JBBC contract to be used for construction

18. PRICING SCHEDULE

- Prices must be quoted in South African Rand, inclusive of all applicable taxes.
- The price offer is firm and clearly indicates the basis thereof.
- Pricing Bill of Quantity is completed in line with schedule if applicable.
- Cost breakdown must be indicated.
- Price escalation basis and formula must be indicated.
- To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilize a different format.
- Deviation from this pricing schedule could result in a bid being declared non-responsive.
- PRASA is not obligated to appoint the lowest bidder.
- Pricing Preliminary & Generals, Health & safety should be inclusive of all stations.

ANNEXURE 1: Health Safety Requirements Template For Issuing of Site Access

CONTRACTOR SAFETY FILE CONTENTS LIST

The purpose of this checklist is to guide the contractors and their sub-contractors as to what documents are required for them to prepare a safety file that must be issues to PRASA Cres Regional Departments or Head Office for evaluation before a site access is issued.

Human Coronaviruses are common throughout the world. There are many different coronaviruses identified in animals but only a small number of these can cause disease in humans.

Name of the Contractor:

Project:

Safety File Assessor and Date:

#	Requirement(s)	Compliance Status (Yes / No)	Comment(s)
1	Scope of works and Project Duration		
2	Notification to DOL (If applicable and as defined in the 2014 Construction Regulations)		
3	Registration of the project with DOL for the construction permit if the total project value is more than R45 Million (If applicable and as defined in the 2014 Construction Regulations)		
4	Valid Letter of Good Standing		



5	Employee List and Certified Copies of their Identity Documents (RSA Citizens) or Passports or Work Permits for foreign Nationals (Employee register); Home address; Contact Numbers; Residential Address; Name of Next of kin with Contacts (Very critical issue for contact tracing)		
6	Approved Organizational Structure		
7	Approved S/HE Policy		



#	Requirement(s)	Compliance Status (Yes / No)	Comment(s)
8	Approved S/HE Plan		
9	Risk Assessments for the projects as per project scope approved by the Risk Assessor and they should cover COVID 19 related risk and mitigation measures.		
10	Proof of medical fitness of employees who will be working on the project and they should be from the Occupational Health Practitioner not a General Practitioner. • Screening of contractors employees including sub-contractor • The type of thermometer that will be utilised and its calibration status.		
11	Statutory Appointments including competency certificates and (Signed by the appointer and accepted by appointee's include CV's and competency certificates)		
12	Tool inspections Checklists and Register		



#	Requirement(s)	Compliance Status (Yes / No)	Comment(s)
13	PPE Matrix and Records PPE Requirements and list of the PPE to be provided.		
14	Tool box Talks Templates		
15	Equipment Maintenance (Calibrations, Safe Working load certificates and Decontamination or Sanitation Records etc) if applicable		
16	Chemicals substances list; MSDSs for chemicals to be used (14 point format) including Proof of training on MSDS if applicable.		
17	Excavation plan (when applicable)		
18	Scaffolding plan (when applicable)		



#	Requirement(s)	Compliance Status (Yes / No)	Comment(s)
19	Declaration of Sub-contractors (when applicable)		
20	Proof of Third Party Liability Cover		
	Conclusion / Statement of Compliance		

			Contract BoQ		
	SUPPLY AND INSTALLATION OF STANDBY GENERATORS IN SGR	Unit	Quantity	BOQ Rate	Total Amount
ITEM NO	SECTION 1				
	BILL NO. 1				
	PRELIMINARIES				
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>				
	The JBCC Series 2000 Principal Building Agreement (July 2007				
	edition 5.0) prepared by the Joint Building Contracts				
	Committee, shall be the agreement, amended as hereinafter				
	The Preliminaries for use with the JBCC Series 2000 Principal				
	Building Agreement (May 2005 edition) prepared by the Joint				
	<u>Building Contracts Committee, shall be deemed to be</u>				
	incorporated in these bills of quantities				
	Contractors are referred to the above-mentioned documents for				
	the full intent and meaning of each clause thereof				
	These clauses are hereinafter referred to by clause number				
	and heading only. Where standard clauses or alternatives are				
	<u>not entirely applicable to this contract such modifications,</u>				
	corrections or supplements as will apply are given under each				
	relevant clause heading and such modifications, corrections or				
	supplements shall take precedence notwithstanding anything				
	contrary contained in the above-mentioned documents				
	SECTION A: PRINCIPAL BUILDING AGREEMENT				
	1 Clause 1.0 - Definitions and interpretation Interpretation (A1-A7)				
1	SECTION B: GENERAL PRELIMINARIES				
	1. General Preliminaries to Include Appointment of Safety officer & safety rep, site clearance of trees, shrubs, access vegetation and make good	Item	1	R	R
	Total carried to final summary 1				R
2	RANDFONTEIN STATION				

80KVA STANDBY GENERATOR - 80kVA Prime / 88kVA Standby / Three Phase - 88kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 4-4.5l turbocharged - Ideal for home and business applications - Silent canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - Peace of mind of earlier of one year/1000 hour warranty General Specification Dry weight 1380kg Length 2450mm Width 1110mm Height 1750mm	No	1	R	R
Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m	No	9	R	R
Supply and installation of Palisade gate: 900mm x 1800mm Including: - Security lock large single pin	No	1	R	R
pole	No	14	R	R
Supply and install 70mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	35	R	R
Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
trenching and backfilling	m3	3.5	R	R
Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
sleeve 110mm	M	35	R	R
connecting accessories	No	1	R	R

	Total carried to final summary 2				R
2	ROODEPOORT TRAIN STATION				
	30KVA STANDBY GENERATOR - 30kVA Prime / 34kVA Standby / Three Phase - 34kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 3.2l SDEC diesel engine - Ideal for small business and residential applications - Sound attenuated canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - One year/1000 hour warranty General Specification Dry weight: 790kg Length: 2100mm Width: 950m Height: 1360mm	No	1	R	R
	Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m	No	7	R	R
	Supply and installation of Palisade gate: 900mm x 1800mm Including: - Security lock large single pin	No	1	R	R
	Palisade Post	No	6	R	R
	Supply and install 50mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	60	R	R
	Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
	Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
	trenching and backfilling: 60m x 500mm x 100mm	m3	3	R	R

	Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
	sleeve 110mm	M	60	R	R
	connecting accessories	No	1	R	R
	Asphalt backfilling	M3	1.2	R	R
	Total carried to final summary 3				R
3	MARAISBURG STATION				
	80KVA STANDBY GENERATOR - 80kVA Prime / 88kVA Standby / Three Phase - 88kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 4-4.5l turbocharged - Ideal for home and business applications - Silent canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - Peace of mind of earlier of one year/1000 hour warranty General Specification Dry weight 1380kg Length 2450mm Width 1110mm Height 1750mm	No	1	R	R
	Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m	No	3	R	R
	Supply and installation of Palisade gate: 900mm x 1600mm Including: - Security lock large single pin	No	1	R	R
	Palisade Post	No	4	R	R
	Supply and install 35mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	85	R	R

	Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
	Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
	trenching and backfilling: 85m x 500mm x 100mm	m3	4.25	R	R
	Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
	sleeve 110mm	M	60	R	R
	connecting accessories	No	1	R	R
	Total carried to final summary 4				R
4	<u>INHLANZANE STATION</u>				
	SUPPLY AND INSTALLATION: 80KVA STANDBY GENERATOR - 80kVA Prime / 88kVA Standby / Three Phase - 88kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 4-4.5l turbocharged - Ideal for home and business applications - Silent canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - Peace of mind of earlier of one year/1000 hour warranty General Specification Dry weight 1380kg Length 2450mm Width 1110mm Height 1750mm	No	1	R	R
	Supply and installation of ClearView fencing around the generator to function as generator housing: 3m x 1.8m	No	6	R	R

	Supply and installation of ClearView gate: 900mm x 1600mm Including: - Security lock large single pin	No	1	R	R
	Clearview Post	No	4	R	R
	Supply and install 35mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	30	R	R
	Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
	Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
	trenching and backfilling: 30m x 500mm x 100mm	m3	1.5	R	R
	Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
	sleeve 110mm	M	60	R	R
	connecting accessories	No	1	R	R
	Removal and Reinstatement of paving bricks	m2	9	R	R
	Total carried to final summary 5				R
4	<u>MERAFE STATION</u>				

SUPPLY AND INSTALLATION: 80KVA STANDBY GENERATOR - 80kVA Prime / 88kVA Standby / Three Phase - 88kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 4-4.5l turbocharged - Ideal for home and business applications - Silent canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - Peace of mind of earlier of one year/1000 hour warranty General Specification Dry weight 1380kg Length 2450mm Width 1110mm Height 1750mm	No	1	R	R
Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m x 1.6m	No	6	R	R
Supply and installation of Palisade fencing gate: 900mm x 1600mm Including: - Security lock large single pin	No	1	R	R
Palisade Post	No	4	R	R
Supply and install 35mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	90	R	R
Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
trenching and backfilling: 30m x 500mm x 100mm	m3	1.5	R	R
Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
sleeve 110mm	M	60	R	R

	connecting accessories	No	1	R	R
	Removal and Reinstatement of paving bricks	m2	9	R	R
	Total carried to final summary 6				R
	LENZ TRAIN STATION				
	SUPPLY AND INSTALLATION: 80KVA STANDBY GENERATOR - 80kVA Prime / 88kVA Standby / Three Phase - 88kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 4-4.5l turbocharged - Ideal for home and business applications - Silent canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - Peace of mind of earlier of one year/1000 hour warranty General Specification Dry weight 1380kg Length 2450mm Width 1110mm Height 1750mm	No	1	R	R
	Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m x 1.6m	No	6	R	R
	Supply and installation of Palisade fencing gate: 900mm x 1600mm Including: - Security lock large single pin	No	1	R	R
	Palisade Post	No	6	R	R
	Supply and install 50mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	50	R	R
	Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
	Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
	trenching and backfilling: 50m x 500mm x 100mm	m3	2.5	R	R

Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
sleeve 110mm	M	60	R	R
connecting accessories	No	1	R	R
Removal and Reinstatement of paving bricks	m2	3	R	R
Total carried to final summary 7				R
NEW CANADA CTC				
30KVA STANDBY GENERATOR - 30kVA Prime / 34kVA Standby / Three Phase - 34kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 3.2l SDEC diesel engine - Ideal for small business and residential applications - Sound attenuated canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - One year/1000 hour warranty General Specification Dry weight: 790kg Length: 2100mm Width: 950m Height: 1360mm	No	1	R	R
Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m	No	7	R	R
Supply and installation of Palisade gate: 900mm x 1800mm Including: - Security lock large single pin	No	1	R	R
Palisade Post	No	6	R	R
Supply and install 50mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	60	R	R

	Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
	Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
	trenching and backfilling: 60m x 500mm x 100mm	m3	3	R	R
	Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
	sleeve 110mm	M	60	R	R
	connecting accessories	No	1	R	R
	Asphalt backfilling	M3	1.2	R	R
	Total carried to final summary 8				R
	RAVENSKLIP TRAIN STATION				
	30KVA STANDBY GENERATOR - 30kVA Prime / 34kVA Standby / Three Phase - 34kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 3.2l SDEC diesel engine - Ideal for small business and residential applications - Sound attenuated canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - One year/1000 hour warranty General Specification Dry weight: 790kg Length: 2100mm Width: 950m Height: 1360mm	No	1	R	R
	Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m	No	7	R	R

	Supply and installation of Palisade gate: 900mm x 1800mm Including: - Security lock large single pin	No	1	R	R
	Palisade Post	No	6	R	R
	Supply and install 35mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	80	R	R
	Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
	Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
	Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
	sleeve 110mm	M	80	R	R
	connecting accessories	No	1	R	R
	Trenching and backfilling	M3	4	R	R
	Total carried to final summary 9				R
	GERMISTON TRAIN STATION				

SUPPLY AND INSTALLATION: 80KVA STANDBY GENERATOR - 80kVA Prime / 88kVA Standby / Three Phase - 88kVA standby power at 230/400v @ 50Hz 1500rpm - High-quality and reliable four-cylinder 4-4.5l turbocharged - Ideal for home and business applications - Silent canopy which can stand outside with lockable doors - Automatic changeover (ATS), maintenance free batteries and trickle charger included - H-specification insulation, brushless alternator with AVR provides stable output - High-temperature and oil pressure sensor to protect against engine damage - Easy to use digital controller with auto/manual start options - All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery - Peace of mind of earlier of one year/1000 hour warranty General Specification Dry weight 1380kg Length 2450mm Width 1110mm Height 1750mm	No	1	R	R
Supply and installation of Palisade fencing around the generator to function as generator housing: 3m x 1.8m x 1.6m	No	6	R	R
Supply and installation of Palisade fencing gate: 900mm x 1600mm Including: - Security lock large single pin	No	1	R	R
Palisade Post	No	6	R	R
Supply and install 50mm sq 4xCore Swa Armoured Cable: Copper (CU)	M	90	R	R
Supply and install 4.5kg CO2 fire extinguisher for emergency fire protection	No	1	R	R
Supply and install 4.5kg DCP Fire Extinguisher Steel Cabinet: To be installed in the generator housing	No	1	R	R
trenching and backfilling: 50m x 500mm x 100mm	m3	2.5	R	R
Supply and building concrete Generator plinth: - 2750 x 1410 x 241mm - 25mpa strength concrete strength using rebar for reinforcement	No	1	R	R
sleeve 110mm	M	60	R	R

	connecting accessories	No	1	R	R
	Removal and Reinstatement of paving bricks	m2	3	R	R
	Total carried to final summary 10				R
	FINAL SUMMARY(summary 1+2+3+4+5+6+7+8+9+10)				R
	SUB TOTAL				R
	ADD VAT @ 15%			15%	R
	TOTAL AMOUNT				R