

Project: Replacement of Diesel Generators at George Airport
Project No: RA7764/2025/RFP
Date: 2025/11/07
Revision: 0



BILL 1: PRELIMINARY AND GENERAL

Item	Description	Unit	Quantity	Rate (Rands)	Amount (Rands)
1	General Requirements and Provisions				
1.2	Fixed Obligations				
1.2.1	Establishment of Construction site facilities & De-Establishment	Sum	1		
1.2.2	Risk Analysis and Safety Plan to comply with Health and Safety Specification	Sum	1		
1.2.3	Quality Assurance Obligation	Sum	1		
1.2.4	Location of underground services	Provisional Sum	1	R 50 000,00	
1.2.4(a)	Contractor's charges in respect of Item 1.2.4	%			
1.2.5	Provisional Sum for Airside Permit and security requirements - refer to Part C3 in the Contract document. Claim on proven cost at no mark-up.	Provisional Sum	1	R 50 000,00	
1.3	Time related obligations				
1.3.1	Operation/maintenance of facilities/site	month	5		
1.3.2	Contractor personnel travelling cost to/from site & Accommodation	month	5		
1.3.3	Compliance with OHS Act requirements	month	5		
1.3.4	Compliance with Environmental requirements	month	5		
1.3.5	Operate and maintain Quality Control and Quality Assurance System	month	5		
1.3.6	Provision of full time Construction Safety Officer	month	5		
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BILL 2: PROFESSIONAL SERVICES (PROJECT MANAGEMENT, ENGINEERING SERVICES, SITE SUPERVISION & CLOSEOUT)

No	Description	Unit	Qty	Unit Cost	Total Cost
2.0	Professional Services (Design Refinement & Project Administration)				
2.1	Design refinements including investigations to install the Terminal building generator in the proposed room and necessary compliance requirements (fire system, HVAC, light fittings, socket outlets, access control, etc)	Sum	1		
2.2	Construction Works Supervision and attendance of monthly meeting.	Month	5		
2.3	Close-Out Documentation, Including As-Built Report (List of Assets) & Drawings, Operating, Instruction & Maintenance Manuals, Guarantees and Warrantees.	Sum	1		
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Bill 3: Main Substation 2 x 800kVA GENERATORS

ITEM	DESCRIPTION	UNIT	QTY		RATE	TOTAL
3	MAIN SUB: 2 x 800kVA Prime Rated Generators					
3.1	Supply & Install Plant Room Doors with Sound Attenuated Inlet & Outlet Louvres	Prov. Sum	1	R	10 000,00	
3.1(a)	Contractor's charges in respect of Item 3.1	%				
3.2	Refurbishment of existing concrete platforms for the generators.	Prov. Sum	1	R	100 000,00	
3.2(a)	Contractor's charges in respect of Item 3.1	%				
3.3	Supply of 2 x existing Day Tanks, Bulk Diesel Tank, interconnecting pipework, fuel system, cable reticulation & connections.	Prov. Sum	1	R	300 000,00	
3.3(a)	Contractor's charges in respect of Item 3.1	%				
3.4	Decommission & Disconnect the existing 2 x 500kVA Standby Generator Sets. Including Transportation to a designated ACSA storage and make provision for water proof covers. Including Removal and Safe Disposal of all other items.	Sum	1			
3.5	Supply & Install 2 x 800kVA Prime Rated Open Diesel Generators as specified, complete with all required auxiliaries, exhaust system, start-up system, fuel system, batteries, charger, etc. and connect to the Diesel Tank.	Sum	2			
3.6	Disconnect & remove the existing LV Generator Control Panel	Sum	1			
3.7	Supply & Install new LV Generator Control Panel, with the appropriate combination of Deep Sea "Auto Transfer Switch (ATS) control module" that has Load Sharing & Synchronising capabilities, Deep Sea "Auto Mains Failure (Utility) control modules" (AMF per generator), motorised circuit breakers, generator protection relays, etc - Refer to Tender Scope of Works	Sum	1			
3.8	Loading, Delivery & Offloading to Site	Sum	1			
3.9	Full Tank of Diesel - 2000L	Sum	1			
3.10	Day Tank Polishing System	Sum	1			
3.11	1 x Hand & Electric Fuel Pump	Sum	1			
3.12	Power and control cable runs between the alternator and Standby Generator Control panel	Sum	1			
3.13	Testing & Commissioning (including Diesel required for FAT & SAT) and all applicable compliance certificates.	Sum	1			
3.14	Travelling & accommodation of ACSA and appointed Engineer to observe & approve the Factory Tests of the generator sets and control panel at the premises of the manufacturer, if not situated within the Garden Route District Municipality.	Prov. Sum	1	R	20 000,00	
3.14(a)	Contractor's charges in respect of Item 3.15	%				
3.15	SMA Fuel Save System to provide an interface between the two new 800kVA Diesel Generators and the existing 750kWp Solar Photovoltaic (PV) Plant	Prov. Sum	1	R	950 000,00	
3.15(a)	Contractor's charges in respect of Item 3.16	%				
3.16	4 Wire metering configuration and Time-of-use bulk meter	Sum	1			
3.17	Upgrade of SCADA System and Centralised Operating Desk with a modern system.	Prov. Sum	1	R	560 000,00	
3.17(a)	Contractor's charges in respect of Item 3.18	%				
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BILL 4: NEW 200kVA GENERATOR SET

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
4	200kVA Prime Rated Generator				
4.1	Supply & Install 1 x 200kVA Prime Rated Open Diesel Generator set as specified, with AMF control Panel, including motorized air circuit breaker and 1000LT Diesel Tank. Exhaust system included.	Sum	1		
4.2	Supply & Install Plant Room Doors with Sound Attenuated Inlet & Outlet Louvres	Prov. Sum	1	R 10 000,00	
4.3	Loading, Delivery & Offloading to Site	Sum	1		
4.4	Full Tank of Diesel - 1000L	Sum	1		
4.5	Day Tank Polishing System	Sum	1		
4.6	1 x Hand & Electric Fuel Pump	Sum	1		
4.7	Power and control cable runs between the alternator and Standby Generator Control panel	Sum	1		
4.8	Spare parts and tools	Sum	1		
4.9	Testing & Commissioning (including Diesel required for FAT & SAT) and all applicable compliance tests	Sum	1		
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BILL 5: BUILDING ROOM TO HOUSE THE NEW 200kVA GENERATOR

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
5	TERMINAL BUILDING GENERATOR ROOM				
5.1	Supply and Install all materials, labour and equipment for completion of the new Generator room for accommodation of the new 200kVA generator, in accordance with SANS 10400, SANS 204, municipal by-laws and the generator manufacturer specifications. Completion of all necessary compliance certificates to allow Client occupation of the building, Detailed BoQ to be provided by the contractor upon tender award.	Prov. Sum	1	R 3 500 000,00	
5.1(a)	Contractor's charges in respect of Item 5.1	%			
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BILL 6: RATES FOR DAYWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
6	DayWorks Rates				
6.1	Foreman/ Supervisor				
(a)	Normal Working Hours	Hour	1		Rate Only
(b)	Overtime	Hour	1		Rate Only
(c.)	Sunday Time	Hour	1		Rate Only
6.2	Qualified Artisan		1		
(a)	Normal Working Hours	Hour	1		Rate Only
(b)	Overtime	Hour	1		Rate Only
(c.)	Sunday Time	Hour	1		Rate Only
6.3	Labourer		1		
(a)	Normal Working Hours	Hour	1		Rate Only
(b)	Overtime	Hour	1		Rate Only
(c.)	Sunday Time	Hour	1		Rate Only
6.4	Engineer				
(a)	Normal Working Hours	Hour	1		Rate Only
(b)	Overtime	Hour	1		Rate Only
(c.)	Sunday Time	Hour	1		Rate Only

*Note: Dayworks rates will only be considered for additional work instructed by the Engineer/ ACSA not related to any aspect of the Specified Scope of Works

Generator Bill of Quantities

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**SUMMARY OF GENERATOR BILL OF QUANTITIES**

ITEM	DESCRIPTION	TOTAL RAND
1.	BILL 1: PRELIMINARY AND GENERAL <i>(Carried forward)</i>	
2.	BILL 2: PROFESSIONAL SERVICES (PROJECT MANAGEMENT, ENGINEERING SERVICES, SITE SUPERVISION & CLOSEOUT) <i>(Carried forward)</i>	
3.	Bill 3: Main Substation 2 x 800kVA GENERATORS <i>(Carried forward)</i>	
4.	BILL 4: NEW 200kVA GENERATOR SET <i>(Carried forward)</i>	
5.	BILL 5: BUILDING ROOM TO HOUSE THE NEW 200kVA GENERATOR <i>(Carried forward)</i>	
6.	DayWorks (Provisional Sum)	R 100 000,00
7.	Training of Client Staff (Sum)	
8.	SUB-TOTAL 1 (EXCLUDING VAT)	
9.	Contingency at 15% of Sub-Total 1	
10.	Add 15% VAT	
11.	TOTAL FOR ELECTRICAL INSTALLATION (INCLUDING VAT) - Carry over to the C1.1 Form of Offer in the NEC3 Contract Document.	