

SANSA MATJIESFONTEIN						
ELECTRICAL INSTALLATION - STANDBY GENERATOR INSTALLATION						
PART C1.2.4						
BILL OF QUANTITIES						
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL	
2.0	BILL NO. 2					
	GENERATOR INSTALLATION					
2.1.1	630KVA Prime rated generator	Supply	2		R	-
	<i>Close Coupled diesel driven generator in weather proof mild steel powder coated canopy inclusive of sound attenuation as per the specification to achieve 70 dB @ 7m. 314 Stainless steel exhaust section outside canopy. Lockable doors. Light inside the canopy.</i>	Install	2		R	-
2.1.1.1	Extra over cost for 3CR12 Canopy.	Supply	2		R	-
2.1.2	Set mounted circuit breaker control panel with motorised alternator protection circuit breaker and control equipment.	Supply	2		R	-
	<i>Controls to be allowed to achieve the functionality as required by the specification. Allowance is to be made for an appropriate size enclosure for the termination of the applicables as specified in the cable schedule</i>	Install	2		R	-
2.1.3	Rigging as required	Supply	2		R	-
	<i>Rigging to place all equipment into position as per the drawing SMFN-CAI-EE-C-DR-002_01 - Generator Building Equipment & Diesel Reticulation Layout</i>					
2.1.4	Control Wiring and Equipment	Supply	2		R	-
	<i>Control equipment as required in the MLV to achieve the functionality required as per the specification. Remote Monitoring, BMS Communications Interface, Load test switch, Audible alarm and flashing beacon.</i>	Install	2		R	-
2.1.5	Commissioning of Generators	Supply	2		R	-
	<i>Complete to achieve functionality as required by the technical specification.</i>					
2.1.6	Extended Maintenance of twenty-four[24] months on Generators	Supply	2		R	-
2.1.7	Extended Guarantee for twenty-four[24] months	Supply	2		R	-
2.1.8	Main MLV panel - Refer to drawings	Supply	0			
	<i>SMFN-CAI-EE-XX-DR-005_01 - MLV Single Line Diagram</i>	Install	0			
2.1.9	Generator Sync Panel A	Supply	1		R	-
	<i>SMFN-CAI-EE-XX-DR-005_22 - GSP-A Generator Sync Panel A</i>	Install	1		R	-
2.1.10	Generator Sync Panel A	Supply	1		R	-
	<i>SMFN-CAI-EE-XX-DR-005_23 - GSP-A Generator Sync Panel B</i>	Install	1		R	-
2.1.1	Other items the tenderer may consider necessary to complete the installation					
2.1.11.1		Supply	1		R	-
		Install	1		R	-
2.1.11.2		Supply	1		R	-
		Install	1		R	-
TOTAL - BILL NO 2 CARRIED TO FINAL SUMMARY PAGE					R	-

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ITEM	DESCRIPTION		UNIT	QTY	RATE	TOTAL
4.0	BILL NO. 4					
	REMOTE MONITORING					
4.1	Monitoring for Generators	Supply	Each	2	R	-
	<i>Allowance for all communication equipment to allow for the generator parameters and alarms to be communicated to a web interface. Sim cards to be procured by the client.</i>	Install	Each	2	R	-
4.2	Other items not included above that are not of a preliminary nature and have not been covered in any other sections of the tender document. Note : Items included under this section shall be of a technical nature and be applicable to the context of this section					
4.2.1		Supply	Each	1	R	-
		Install	Each	1	R	-
4.2.1		Supply	Each	1	R	-
		Install	Each	1	R	-
	TOTAL - BILL NO 4 CARRIED TO FINAL SUMMARY PAGE				R	-
5.0	BILL NO. 5					
	MISCELLANEOUS					
5.1	Signage for plantroom as per specification	Supply	Each	2	R	-
	<i>"Automatic start-up" signage on each generator</i>	Install	Each	2	R	-
5.2	Signage for filling kiosk as per specification	Supply	Sum	1	R	-
	<i>Bulk tank size notification</i>	Install	Sum	1	R	-
	<i>Identification of filling nozzle</i>					
	<i>Identification of sump drain</i>					
	<i>Identification of earth bar</i>					
5.3	Signage for Bulk Storage as per specification	Supply	Sum	1	R	-
	<i>Tank Number Identification</i>	Install	Sum	1	R	-
	<i>Identification of earth bar</i>					
	<i>"No Smoking"</i>					
	<i>"No Open Flames"</i>					
5.4	Provision of hearing protection	Supply	Sum	1	R	-
	<i>Supply and install a wall mounted rack housing four (2) off SABS approved ear muffs</i>	Install	Sum	1	R	-
	TOTAL - BILL NO 5 CARRIED TO FINAL SUMMARY PAGE				R	-

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ITEM	DESCRIPTION		UNIT	QTY	RATE	TOTAL
6.0	BILL NO. 6					
	GENERAL					
6.1	Protection of equipment during construction	Supply	No	1	R	-
		Install	No	1	R	-
6.2	Other items not included above that are not of a preliminary nature and have not been covered in any other sections of the tender document. Note : Items included under this section shall be of a technical nature and be applicable to the context of this section	Supply	No	1	R	-
		Install	No	1	R	-
6.3	Council electrical department, pollution and noise control approvals	Supply	No	1	R	-
		Install	No	1	R	-
6.4	Allowance for air travel, rental car and accommodation for one night for the engineer to witness the FAT. (If the FAT is in Cape Town this is not applicable)	Supply	No	1	R	-
		Install	No	1	R	-
	TOTAL - BILL NO 6 CARRIED TO FINAL SUMMARY PAGE				R	-
7.0	BILL NO. 7					
	ADDITIONAL ITEMS					
7.1	Other items the tenderer may consider necessary to complete the installation					
7.1.1		Supply	Each	1	R	-
		Install	Each	1	R	-
7.1.2		Supply	Each	1	R	-
		Install	Each	1	R	-
7.1.3		Supply	Each	1	R	-
		Install	Each	1	R	-
	TOTAL - BILL NO 7 CARRIED TO FINAL SUMMARY PAGE				R	-

SANS MATJIESFONTEIN ELECTRICAL INSTALLATION - STANDBY GENERATOR INSTALLATION PART C1.2.4 BILL OF QUANTITIES						
ITEM	DESCRIPTION		UNIT	QTY	RATE	TOTAL
	FINAL SUMMARY PAGE					
	BILL NO. 1					
	PRELIMINARIES AND GENERAL				R	-
	BILL NO. 2					
	GENERATOR INSTALLATION				R	-
	BILL NO. 3					
	DIESEL FUEL SUPPLY SYSTEM AND BULK STORAGE				R	-
	BILL NO. 4					
	REMOTE MONITORING				R	-
	BILL NO. 5					
	MISCELLANEOUS				R	-
	BILL NO. 6					
	GENERAL				R	-
	BILL NO. 7					
	ADDITIONAL ITEMS				R	-
	Any other items tenderers may wish to add of a Technical nature not specifically mentioned above in order to comply with the specification and contract conditions. Please add below:					
	TOTAL CARRIED TO BILL NO. 16 ELECTRICAL INSTALLATION - STANDBY GENERATOR INSTALLATIONPART C1.2.4				R	-