

**BILL OF MATERIALS
MECHANICAL INSTALLATION
BUILDING 24, GYM**

SUBJECT : BILL OF QUANTITIES**PART 1****BUILDING 24, GYM****BILL NO. 1 - PRELIMINARIES & GENERAL**

ITEM NO	DESCRIPTION	UNIT	RATE		TENDERED BOQ QUANTITY	TENDERED AMOUNT	
	Preliminaries and General						
1.001	Twelve month guarantee	sum	R	-	1	R	-
1.002	Safety file	sum	R	-	1	R	-
1.003	Minor Builder's work & making good	sum	R	-	1	R	-
1.004	Testing and commissioning of HVAC system	sum	R	-	1	R	-
1.005	Transportation	sum	R	-	1	R	-
1.006	Hiring of scaffolding and Rigging of the equipments	sum	R	-	1	R	-
1.007	Handover documentation 1 x archlever file & 1 x flashdrive	sum	R	-	1	R	-
1.008	Training of staff	sum	R	-	1	R	-
1.009	Issuing of Compliance Certificate (COC)	sum	R	-	1	R	-
TOTAL CARRIED FORWARD						R	-

PART 2

BILL NO. 2 - HVAC

ITEM NO	DESCRIPTION	UNIT	RATE		TENDERED BOQ QUANTITY	TENDERED AMOUNT
	<u>GYM</u>					
2.001	SUPPLY & INSTALL UNDER CEILING CASSETTES UNITS (42000BTU's) Inverter type, recharged with R410/R32 refrigerant Unit installed to be complete with: Suitable Refrigerant pipes & complete with armaflex, allow 15meters pipe run Condensate Drain blue Galvanized Trunking for all outside exposed pipes PVC Trunking for all inside exposed pipes Communication cable Supporting brackets Wiremesh cable tray for all pipes in ceiling void	No	R	-	9	R -
2.002	Supply and install central controller to operate and schedule the units separately from the contorller all 9 units plus one existing 49000BTU's under ceiling	No	R	-	1	R -
2.003	SUPPLY & INSTALL MID-WALL SPLIT UNIT (24000BTU's) Inverter type, recharged with R410/R32 refrigerant Unit installed to be complete with: Suitable Refrigerant pipes & complete with armaflex, allow 15 meters pipe run Condensate Drain blue Hard wired controller Galvanized Trunking for all outside exposed pipes PVC Trunking for all inside exposed pipes Communication cable Supporting brackets Wiremesh cable tray for all pipes in ceiling void	No	R	-	1	R -
2.004	SUPPLY & INSTALL MID-WALL SPLIT UNIT (12000BTU's) Inverter type, recharged with R410/R32 refrigerant Unit installed to be complete with: Suitable Refrigerant pipes & complete with armaflex, allow 15 meters pipe rum Condensate Drain blue Hard wired controller Galvanized Trunking for all outside exposed pipes PVC Trunking for all inside exposed pipes Communication cable Supporting brackets Wiremesh cable tray for all pipes in ceiling void	No	R	-	1	R -
2.005	Allow for eletrical connections from the DB to the units (isolators, electrical cables, wiring, circuit breakers etc)	Item	R	-	1	R -
2.006	Allow for waterproofing of the slab where the current pipes run through to connect to the condensers on roof	Sum	R	-	1	R -
2.007	Allow for the removal of existing air-conditioning units including all associated materials and store them in storage provided by CSIR	Sum	R	-	1	R -
TOTAL CARRIED FORWARD						R -

SUBJECT : BILL OF QUANTITIES

PART 3

BUILDING 24, GYM

BILL NO. 3 - SUMMARY

ITEM NO	DESCRIPTION	FROM PART NO.	PAGE NO.	TENDERED AMOUNT
	MAIN OFFER			
3.001	PRELIMINARIES & GENERALS	1		R -
3.002	HVAC	2		R -
TOTAL CARRIED FORWARD				R -

	SUB TOTAL 1			R -
	ADD 10% CONTINGENCY			R -
	SUB TOTAL 2			R -
	ADD 15% VAT			R -
	TOTAL BILL OF QUANTITIES (Incl. 15% VAT)			R -