



RFQ NO: 1859907

INVITATION TO QUOTE ON

DESCRIPTION: SUPPLY AND INSTALLATION OF DUCTED FUMES HOOD FOR
MTHATHA CYTOLOGY

COMPULSORY SITE MEETING: N/A

ADDRESS: NHLS Mthatha, Cytology Department - Nelson Mandela Academic Hospital,
Sisson Street, Fortgale, Mthatha

CLOSING DATE: 08 October 2021 @ 11H00

QUOTATIONS TO BE SUBMITTED TO: NHLS – BUCKINGHAM ROAD – PORT
ELIZABETH

FORM OF QUOTATION

SUPPLIER:

QUOTATION NO:

**DESCRIPTION: SUPPLY AND INSTALLATION OF DUCTED FUMES HOOD FOR
MTHATHA CYTOLOGY**

no	Description	unit	quantity	rates	Cost excl vat
1	Fume hood as per below description (see annexure A)	No	1		
2	Ductwork – Corrosion and chemical fume resistant	m	10		
3	Ductwork elbows (swept 90°) – Corrosion resistant	No	3		
4	Fume Hood Stand with integrated chemical storage	No	1		
5	Electrical installation including breakers, isolators, cables and CoC as per specifications in annexure a	Sum	1		
6	Single Inlet Centrifugal fan as per requirements (=10% capacity due to duct losses and altitude) of Fume hood	No	1		
	Allow the amount of R 20 000-00 (Twenty Thousand Rand) for contingency to be used at the discretion of the Principal Agent and deducted in whole or in part if not required				R20,000.00
	TOTAL				
	PLUS 15% VAT				
	GRAND TOTAL				

	Estimated time to complete work above	Weeks	
	Lead time from date of acceptance	Weeks	

Annexure A

GENERAL SPECIFICATIONS	REQUIREMENTS	TICK REQUIREMENTS
Fume Hood for Organic and Acid Vapors	Capable of handling organic chemical vapors and gasses and Acid vapors and gasses	✓
Stand with Chemical storage cabinets	Unit to be integrated to fume hood as free standing system with storage system.	✓
Quantity of evaporation in 24hours	No more than 200ml of organic compounds or acids	✓
Vapor proof illumination system	lights to be isolated from inner area of fume hood, vapor proof and accessible for maintenance	✓
Fume hood sash/window	Vertical moving sash with a minimum opening of 230mm	✓
Foot print of fume hood	1400 to 1800mm wide and 550 to 700mm deep	✓
Fume hood work surface construction	construction of work surface with Stainless Steel is preferred. A spill collection sump/retention lip that can hold at least 200ml capacity (spillage holding capacity) must be present	✓
Ventilation system	external fan with controls incorporated into Fume hood control panel	✓
Inflow monitoring unit	Flow indication with adjustable alarms and sash position warning	✓
Chemical compatibility	Unit able to withstand the following chemicals: Xylene, Formalin, Acetic Acid, Hydrochloric Acid, Ammonia, Formic Acid, Hydrogen Peroxide, Nitric Acid and Sulphuric Acid.	✓
Standard compliance	EN 14175 and ASHRAE 110 Compliance	✓
Room air allowance	Door grills for make-up air to prevent negative pressure build-up.	✓
Services needed	Power outlet to national regulation, at least one plumbed gas service (inert gas/vacuum)	✓
Extras		
Ductwork	Sufficient corrosion resistant ductwork with a 10m allowance including 3x swept elbows at same diameter as fume hood spigot	✓
Civils	Allow for 2x wall penetrations with sleeves and sealing.	✓
Wall finishes	Plastering and painting wall to match existing finishes	✓
Electrical installation	Electrical power from electrical panel (DB) to unit and connection between fan and fume hood allow for 20m run	✓
Additional		
Training provided	End-user training for up to 10 staff members	✓
Regulatory		
Power requirements	220VAC (±10%), 50Hz, 16Ampere maximum	✓
Electronic voltage SA compliant	All electrical work to CoC (Electrical compliance)	✓
Safety compliant	CoC (electrical compliance) certificate required	✓
Ergonomic Design	Yes, Fume Hood operator in standing position	✓
Operator manual	Operation and Maintenance manual to be provided	✓
Commissioning requirements	A IQOQ (Installation and operational qualification) is required to ASHRAE 110 and relevant standards	✓
Maintenance required	2 year maintenance contract to be included with unit valid from date of commissioning/acceptance of installation.	✓
Maintenance Costs for 3 years	A 3 year maintenance and certification contract to be included	✓
In use in NHLS	Numerous fume hoods employed across laboratories.	✓
Delivery period	3 months from date of Order received.	✓
Aftersales service	Full service, maintenance and repair capacity by bidder	✓
Warranty period	12 months from date of commissioning/acceptance	✓

Mandatory Requirements:

Requirements, Documents to be submitted together with the quotation to verify below requirements.

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