



# شذالخدمات اختبار المواد

## SHADHA MATERIAL TESTING SERVICES

### MITS

Working with you for Better Future

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Advanced multi-disciplinary  
SME Registered Lab in Oman.

**COMPANY PROFILE**

# Introduction

We would like to introduce Shadha Materials Testing Services, a leading multi-disciplinary and an ISO 17025:2017 Accredited third-party independent laboratory testing facility. Established in 2016, Shadha Material Testing Services caters to the need of various clients in Oman by offering its services in the field of Chemical & Microbiological services related to Drinking water, Waste water, Sea water, Ground water, RO water, Borewell water, Food, Minerals, Rocks, Soil, Cement, Aggregates etc.



## Key points

- Shadha Materials Testing Services (SMTS) is a 100% Omani owned, SME registered Laboratory under Shadha Saif Al Hinai Trading and located in Muscat, Oman.
- SMTS is an ISO 17025: 2017 accredited lab and registered with the Directorate General of Standards & Metrology, Chamber of Commerce & Industry.
- Has the required facilities and financial backing to accommodate a high volume of tests.
- Identifies customer needs, expectations and requirements to provide quality and timely cost-effective services without compromise.
- Multi National team consists of members with over 40 years' experience in the relative field of chemistry and its application in chemical engineering.
- Can guarantee the most competitive pricing and highest quality standards.



## Chemical & Organic Fertilizer

- Total Nitrogen
- Biuret
- Potassium
- Acidity
- Phosphorus
- Ammonia-N2
- Nitrate-N2



- PH
- Zinc
- Organic matter
- Lead
- Iron
- Manganese
- Cadmium
- Dry Matter
- Nickel
- Calcium
- Magnesium
- Chromium
- Conductivity
- Arsenic
- Organic Carbon



## Cosmetic Analysis / Detergents Analysis

- PH
- Toxic heavy metals (Pb, As, Hg)
- Moisture
- Thermal stability
- Total fat

### Detergents Analysis

- Heavy metals
- Active ingredients



## Geological Samples Analysis



## Minerals & Ores



- SiO2
- Al2O3
- Fe2O3
- Loss on Ignition
- CaO
- MgO
- Moisture
- Cr2O3
- MnO

Analysis of Chrome, Dolomite, manganese, Limestone, kaolin, Laterite, Hematite and Bauxite, Silver, Gold.

### Trace Elements

- Be
- Ag
- Mo
- Cd
- Ce
- As
- Ba
- Bi
- Li
- Ga
- La
- Cr
- Zn
- Zr
- Sr
- U
- Nd
- Pb
- Ni
- Pb
- S
- Sb
- Sc
- Y
- V
- W
- Tn



## Building Material Tests

- RCPT (Rapid chloride penetration test )
- Chloride
- Sulfate
- Organic matter



## Microbiological Tests

### MICROBIOLOGICAL ANALYSIS WATER / FOOD / COSMETICS / SOIL

- Fecal Coliforms
- Total Coliforms
- Total Aerobic Count/Heterotrophic bacterial count
- Esherichia coli
- E Coli O157:H7
- Fecal streptococci/Enterococcus
- Vibrio paraheamolyticus
- Vibrio cholera
- Vibrio vulnificus

- Bacillus cereus
- Listeria monocytogenes
- Clostridium botulinum
- Clostridium perfringens
- Staphylococcus aureus
- Pseudomonas aeruginosa
- Shigella
- Salmonella
- Lactobacillus
- Legionella
- Iron bacteria
- SRB – sulphide reducing bacteria

## Water Tests



Water quality is essential to many different industries and activities in Oman. Shadha material testing services provides full range of water analytical services to determine and maintain its quality. SMTS Identifies customer needs, expectations and requirements with a high quality and timely cost-effective services without compromise.

(Drinking Water for Bottled & Unbottled, Effluent & STP Water, well water, Mineral Water, production water, boiler water and Water for making concrete).

■ PH	■ Bromate	■ Selenium	■ Magnesium	■ Residual pesticides
■ Total Hardness	■ Hydrocarbons	■ Conductivity	■ Potassium	■ TDS
■ Alkalinity.	■ Sodium	■ Chloride	■ Cadmium	■ Nitrate
■ Calcium Hardness	■ Copper	■ Magnesium Hardness	■ Arsenic	■ Manganese
■ Sulphate	■ Boron	■ Iron	■ Silver	■ Cyanide
■ Lead	■ Aluminum	■ Fluoride	■ Strontium	■ Calcium
■ Zinc	■ Nickel	■ Chromium	■ Barium	■ Mercury
■ LSI	■ BOD5	■ COD	■ Ammoniacal Nitrogen	■ SDI
■ MLSS	■ VSS	■ SVI	■ VOC	



## Food Tests

Shadha material testing services focus on providing accurate analytical reports related to food and human consumables. Based on test reports biological, physical chemical hazard are identified and troubleshooting guidance provided to clients.

Today, in the food industry, it is widely accepted that a quality management system is a tool to support business survival and growth in the long term. SMTS is an ISO 17025:2017 accredited lab and can provide a large scale of food analysis to satisfy the customers.



### Food contaminants

- Residual pesticides
- Toxic heavy metals
- Bromate

### Nutrients

- Vitamins
- Iron
- Folic Acid
- Iodide

### Food constituents' tests

- Fiber
- Carbohydrates
- Fat
- Moisture
- Sugar
- Ash
- Protein

### Food additives

- Caffeine
- Colors
- Sweeteners
- Preservatives



## Chemical Tests



SMTS is focusing mainly on chemical analysis to solve many of the environmental and industrial production issues to improve and streamline the process parameters through a wide range of analysis.

## Animal Feed Analysis Tests

Protein	Total Digestible Nutrients
Copper	Natural Detergent fiber
Acid detergent fiber	Iron
Starch	Soluble carbohydrates
Zinc	Phosphorous
Crude Fiber	Selenium
Manganese	Metabolizable Energy
Dry Matter	Magnesium



## Sanitizer Analysis

### Chemical Tests

- Alcoholic content
- Water insoluble
- Moisture



## Soil Analysis

- Organic Matter
- PH (1:5)
- Total Manganese
- Total Boron
- Organic Matter
- Total Calcium
- Total Iron
- Conductivity
- Total zinc
- Dry Matter
- Total Copper
- Calcium carbonate
- Total Nitrogen
- Ammonium Acetate extract (P, Na, Ca, Mg)
- Total Magnesium
- Boron
- Total phosphorus
- Mineral Nitrogen

