



CRYSTALLINE
ENVIRONMENTAL SERVICES

Date: November 17, 2019

TECHNO-COMMERCIAL PROPOSAL

FOR

TOTAL WATER TREATMENT

AT

**LAMAR RESIDENCES
ABU DHABI**



QTN/CT/JP/1643
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November 17, 2019

SERCO MIDDLE EAST
ABU DHABI,
UNITED ARAB EMIRATES

Attention: Mr. Romar John Emnace

Senior MEP Engineer, IFS

Subject: AMC For Total Water Treatment and Water Analysis

Dear Mr. Romar,

Please find below our technical cum commercial proposal attached for your kind perusal.

If you have any further clarifications, please contact the below mentioned.

Best Regards,

Crystalline Cleaning and Environmental Services



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CRYSTALLINE
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SECTION 1
EXECUTIVE SUMMARY

Crystalline is one of the premier Water & Process treatment companies providing cutting edge technology and expertise consultancy, about water treatment chemicals and associated equipment to our customers. Our products are currently applied in the Commercial & Institutional segment (i.e. Hotels, Hospitals, Educational & Commercial Complexes, Industries, etc).

We are keen to associate with Serco as a Total Water Management Solutions provider utilizing our vast experience in water treatment. We are pleased to append herewith our detailed technical cum commercial proposal in line with your system details.

Crystalline recommended herein are designed to provide excellent protection and efficient operation of your water systems. Services shall be provided through our Service Engineer. All chemical supplies shall be provided by crystalline.



1. Microbiological Analysis of Water (Chilled Water, Domestic Water, Swimming Pool)
 - Total Bacteria Count
 - Total Coliforms
 - Faecal Coliforms
 - Pseudomonas Aeruginosa
 - Escherichia coli

2. Legionella Analysis of Water (Domestic Water, Swimming Pool)
 - Legionella pneumophila serogroup 1
 - Legionella pneumophila serogroup 2-14
 - Legionella sp

3. Chilled Water Analysis
 - pH
 - TDS
 - Conductivity
 - Alkalinity
 - Inhibitor
 - Total Iron
 - Suspended Solids
 - Total Hardness
 - Chloride

4. Swimming Pool Analysis
 - pH
 - TDS
 - Alkalinity
 - Calcium Hardness
 - Cyanuric Acid
 - Chlorine

5. Chilled Water Analysis
 - pH
 - TDS
 - Conductivity
 - Alkalinity
 - Total Hardness
 - Free Chlorine
 - Total Iron
 - Suspended Solids
 - Total Hardness
 - Chloride



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6. Air Quality Analysis

- Respirable particulate
- Total Volatile Organic Compound
- Carbon Dioxide
- Carbon Monoxide
- Temperature
- Relative Humidity

7. Water Tank Cleaning & Disinfection

- Water Tank Cleaning – Half Yearly
- Completion report valid for 6 months.
- Service report with before and after pictures.



**SECTION 3
COMMERCIAL PROPOSAL**

SYSTEM	TOTAL PRICE/YEAR
CHILLED WATER SYSTEM	
NO. OF TOWERS: 04 NOS. CHILLED WATER CHEMICAL SUPPLY CALIBRATION OF DOSING SYSTEM AND MAINTENANCE CHEMICAL ANALYSIS (04 NOS/QUARTER) – 16 NOS/YEAR MICROBIOLOGICAL ANALYSIS (04 NOS/QUARTER) – 16 NOS/YEAR	15,000.00
DOMESTIC WATER SYSTEM	
NO. OF TOWERS: 04 NOS. POTABLE WATER CHEMICAL SUPPLY CALIBRATION OF DOSING SYSTEM AND MAINTENANCE CHEMICAL ANALYSIS (8 NOS/QUARTER) – 32 NOS/YEAR MICROBIOLOGICAL ANALYSIS (8 NOS/QUARTER) – 32 NOS/YEAR LEGIONELLA ANALYSIS (8 NOS/QUARTER) – 32 NOS/YEAR	14,000.00
SWIMMING POOL	
NO. OF POOLS: 01 NOS. SWIMMING POOL CHEMICAL SUPPLY CALIBRATION OF DOSING SYSTEM AND MAINTENANCE CHEMICAL ANALYSIS (1 SAMPLE/MONTH) MICROBIOLOGICAL ANALYSIS (1 SAMPLE/MONTH) LEGIONELLA ANALYSIS (1 SAMPLE/MONTH)	54,000.00
WATER TANK CLEANING	
MAIN TANK – RCC WATER TANK – 350 M3 – 2 NOS. TOWER A – GRP WATER TANK – 62.5 M3 – 2 NOS. TOWER B – GRP WATER TANK – 62.5 M3 – 2 NOS. TOWER C – GRP WATER TANK – 62.5 M3 – 2 NOS. TOWER D – GRP WATER TANK – 62.5 M3 – 2 NOS. WATER ANALYSIS – 10 NOS/HALF YEARLY (MICRO & LEGIONELLA)	16,000.00
AIR SAMPLING	
AIR SAMPLING – 2 NOS/TOWER/QUARTER – 32 NOS/YEAR	16,000.00
TOTAL FOR LAMAR RESIDENCES	115,000.00

Validity:

Our proposal is open for your acceptance, for 30 days only.

Payment:

As Agreed.

Yours sincerely,
Crystalline Environmental Services

Jasman Pinco
Jasman Pinco

