



Running Contract Details	
Equipment Name	Biological Effluent Decontamination Plant
Running Contract Valid Till	30-09-2026
Tender Ref No	KMSCL/EP/T544/1680/2024
Tendered Quantity	4
Supplier Name	M/s Klenzaid's Contamination Controls Pvt.Ltd.
GST No	27AAACK8427G2ZG
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier's Details		
Address	Contact Details	
A 21 Street 3 MIDC Andheri East Mumbai-400093	Contact Person	Tushar Banerjee
	Phone	
	Mobile No	9321035432
	Email	tusharbanerjee@klenzaid's.com

Item-wise Price Details							
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total			
1	Biological Effluent Decontamination Plant <i>Model & Make : KLENZAIDS/ KLENZAIDS CONTAMINATION</i>	9440000 Incl.GST :18%	660800	10100800			
		9440000	660800	10100800			
Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
Biological Effluent Decontamination Plant							
Labour	4,80,000.00	5,60,000.00	6,40,000.00	6,40,000.00	8,00,000.00	8,00,000.00	8,00,000.00
Comprehensive	8,80,000.00	8,80,000.00	9,60,000.00	9,60,000.00	10,40,000.00	1,04,000.00	11,20,000.00

Other terms & conditions

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).

2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

Technical Specification

Equipment :Biological Effluent Decontamination Plant

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1. Modular skid mounted biological liquid waste decontamination system.

1. Biological Effluent decontamination systems (EDS) are used to treat large amounts of biologically contaminated liquid effluents, to inactivate liquid wastes.

Because BSL3 laboratories handle highly dangerous and exotic pathogens that pose a high risk of transmission and have no known treatment or vaccines.

1. The following features will be provided with the BLED.

1. Interconnecting Piping (including components, instruments, and fittings) between storage tank, decontamination vessel, and provision for transfer of treated waste to ETP.
2. Control System for EDS with HMI and PLC. Provision for Status Monitoring and data logging system (including decontamination cycle reports).
3. Complete Electrical including components, electrical and pneumatic connection between supplied components.
4. Complete skid platform enclosures conduits in the system, designed to ensure reduced risk of contamination and ease of cleaning.
5. Provision for system integration into the BMS of the Main laboratories building. Decontamination autoclave must be able connected to the building management system(BMS) for efficient control and monitoring of the system.
6. Relevant alarms on the HMI.
7. All the tank and connectors should be high quality steel with anticorrosive property, SS 304 or higher grade.
8. Site should be visited for the suitability of the equipment at the given site.
9. On winning the bid, the vendor must coordinate with the civil work engineer/ project consultant of the BSL3 lab and ensure the compatibility and integration of the supplied equipments and make necessary changes to the equipment dimensions if necessary.

1. Specifications and details

1. **Holding tank:** Capacity of tank is approximately 500 liters. The level of the tank is controlled by float switch and non- return valve on the inlet line is provided to avoid back flow of the water. The water level inside the tank shall be controlled by float switch(s) and non- return valve arrangement at both the inlet & outlet line.

1. **Cook tank:** Cook tank (approximately 500 Liters) is provided with steam heat exchanger for heating the water during process, tank level is controlled by float switch, tank temperature and heat treatment process is controlled by PLC, safety valve with filter is provided to vent out the overpressure of chamber during heating process. Cooking tank pressure is controlled by pressure transmitter provided by tank is insulated with glass wool to avoid heat loss of the tank during process. Transfer pump is provided in the outlet of the chamber for transferring the water to cooling tank after heat treatment process.

1. **Boiler/steam generator:** Steam generator is provided for generating steam for heating process, electric heater is provided in the steam generator for boiling the water in the generator, water level of the generator is controlled by the level switch and controlling valve, make up pump is provided for the steam generator to make up the water level of generator during process. Temperature sensor and pressure transmitter should be provided to maintain the pressure and temperature of the steam generator.
2. **Pressure relief valve: Pressure relief valve is provided to release the pressure when pressure exceeds the limit.**

1. CONSTRUCTIONAL DETAILS ::

1. Holding chamber capacity & Cooking tank capacity ::500 Liters + 500 Liters (1000 Liters)
2. Maximum working temperature of holding tank ::115 degrees Celsius
3. Maximum working pressure of cooking tank ::1.5 Kg/Cm²
4. Design pressure of cooking tank ::2.5 Kg/Cm²
5. Boiler design pressure ::4.5 Kg/Cm²
6. Boiler maximum working pressure ::2.5 Kg/Cm²
7. Associated utilities and connections
8. Compressed line, water /drainpiping, etc. Controls PLC with HMI.
9. All the spares and accessories which is not mentioned if any required for making the ETP to working status should be provided. If any should be mentioned separately.
10. The details of installation of the unit in BSL2 OR BSL3 lab should be mentioned.
11. Unit with installations in BSL3 labs will be given preference.