



Running Contract Details	
Equipment Name	Multimode Spectrophotometer
Running Contract Valid Till	07-07-2021
Tender Ref No	KMSCL/EP/T324/1285/2019(R)
Tendered Quantity	15
Supplier Name	M/s MEDISPEC (I) LTD
GST No	27AAACM5985D1ZC
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	
601 A WING LOTUS CORPORATE PARK OFF. W.E. HIGHWAY JAY COACH GOREGOAN EAST Maharashtra - 400063	Contact Person	Mr.Mohan Babu
	Phone	
	Mobile No	7718810036
	Email	medispec@medispec.in

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	Multimode Spectrophotometer <i>Model & Make : CYTFM / BIOTEK (I) LT</i>	1634300 Incl.GST :18%	114401	1748701
2	Standard PC Intel core i5 7th Gen processor	83072 Incl.GST :18%	5815.04	88887.04
3	Laser Printer (Duplex model)	13570 Incl.GST :18%	949.9	14519.9
4	Upgrading to fluorescence polarization	631300 Incl.GST :18%	44191	675491
5	Upgrading to microplate well area imaging facility	1070496 Incl.GST :18%	74934.72	1145430.72
6	Upgrading to a gas control option (O2 & CO2) for long-term kinetics.	436600 Incl.GST :18%	30562	467162

Item-wise Price Details				
7	Low volume plate	112100 Incl.GST :18%	7847	119947
		3981438	278700.66	4260138.66

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
Multimode Spectrophotometer							
Labour	21,000.00	21,000.00	22,500.00	22,500.00	24,500.00	24,500.00	26,500.00
Comprehensive	42,000.00	44,000.00	46,000.00	48,000.00	51,000.00	54,000.00	57,000.00

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% 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 :Multimode Spectrophotometer

A high-performance integrated bench top Multimode Microplate Reader (UV-vis Absorbance, Fluorescence (Top and bottom), and Luminescence measurement.) system having quadrupole monochrome based detection technology.

I. Optical System:

- 1) Light source should be high performance xenon flash lamp.
- 2) Detector should photomultiplier tube for fluorescence and silicon photodiode for UV VIS and IR detectors.
- 3) Instrument should have Quadruple Monochromator based, double excitation and double emission monochromators for fluorescence applications.
- 4) Instrument should have double monochromators for photometric (UV and Vis) measurement.
- 5) The instrument should have a single lamp source for Photometry, Fluorometry.
- 6) Instrument should automatically calibrate results with different gain settings to obtain single consistent measurement range.

II. Range:

1. Absorbance: ? 220 to ?900nm (Monochromator based), Sensitivity: 0 to 2 OD or higher with resolution of 0.001nm or better, accuracy <3% OD.
2. Fluorescence Intensity: ? 270 to 700nm (Monochromator based), Sensitivity:0.5fmol for 96 well plate or better.
3. Luminescence: <400 to >650nm, (Monochromator based), Sensitivity: <50 amol Time resolved fluorescence: ?270 to 700nm

III. Plate Type / Format

- a) Capable of reading with and without lid
- b) Instrument should read 6 – 384 well plates and quartz cuvette (optional)
- c) Should allow fluorescence intensity reading from top to bottom

IV. Temperature control: Varies range ambient 5°C to 45°C

V. Shaking: Linear and orbital, software adjustable

1. On-board incubator must function by preventing condensation on a microplate lid to enable reading through the lid even during long kinetic assays (at least 24 hours).

2. Orbital Shaking with adjustable timing, speed and diameter. Automatic safety control based on the shaking speed and plate format to avoid spilling of the liquid from wells.

VI. Reading Modes: Endpoint, Kinetics and Spectrum.

VII. Software:

a) System should be supplied with Analysis software with unlimited user license.

b) Advanced data analysis, and flexible excel export.

i. Software should allow easy assay optimization, flexible data handling and convenient report formatting.

Software should have option for area selection i. e. different protocols at different area of the plate.

Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer).

ii. Software should have option for area selection i. e. different protocols at different area of the plate.

iii. Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer).

c) System should be able to use for DNA/RNA quantification, Protein quantification, Enzyme profiling, Enzyme assay, Binding assays etc.

d) Preferably multi-user.

e) No loss of already measured data even in case of power failure.

VIII. Certification:

I. Should have safety certificate from a competent authority CE issued by a notified body registered in European commission / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.

IX. Compulsory Accessories along with the instrument:

1. Standard PC with following specification (Intel Core i5, 4 TB Hard Disk and 16 GB RAM, Operating System Genuine windows) or better.
2. 1 Pair of quartz cuvettes (Volume: approx. 400 uL).
3. Laser Printer (Duplex model).
4. ELISA Plates flat bottom, UV-Visible, fluorescence and luminance plates (Qty: 50 each).