

CORRIGENDUM -1



रामागुण्डम फर्टिलाइजर्स एण्ड केमिकल्स लिमिटेड

E-Tender No – RFCL-21

REVISED TENDER SCHEDULE & REVISED SPECIFICATIONS

SUPPLY, INSTALLATION & TRAINING OF "GAS CHROMATOGRAPHS FOR CHEMICAL LABORATORY" at Ramagundam, Telangana Unit

Tender Ref: RFCL/C&P/GAS Chromatographs/2020/1

<i>Sr. No.</i>	<i>Tender Stage</i>	<i>Date & Time</i>
1	Start Tender Document Download	19.08.2020 at 11:00 hrs.
2	Pre-bid meeting	25.08.2020 at 11:00 hrs
3	End Tender Document Download	14.09.2020 at 15:00 hrs.
4	Due/ last date of submission Bids	14.09.2020 at 15:30 hrs.
5.	Techno-commercial Bids Opening	14.09.2020 at 15:45 hrs.
	Price Bid Opening	To be intimated

REVISED TECHNICAL SPECIFICATIONS ARE ATTACHED HERewith

All other terms & conditions of tender document remain unaltered. For further details, visit website: <http://rfcl.co.in/opentender.php> & www.tenderwizard.com/RFCL. Any Corrigendum / Addendum (s) to this Notice shall be published on RFCL's website / e-tender portal only. The tenders will be submitted online on the web site www.tenderwizard.com/RFCL only.

For & behalf of RFCL

**(Shashi Prakash)
Manager (C&P)**

AMENDMENT TO TENDER FOR PROCUREMENT OF 5 NOS OF ‘GAS CHROMATOGRAPHS’**(E-TENDER NO-RFCL-21)****1) Amendments Proposed in NIT Terms:**

Clause	Existing / FOR	Read as
Clause No.11 of GTC, Annex-II of NIT	The SUPPLY, INSTALLATION & TRAINING OF “GAS CHROMATOGRAPHS FOR CHEMICAL LABORATORY” shall be Seven (7) weeks from the date of issuance of LOI/PO whichever is earlier.	Delivery period of Gas Chromatographs shall be 10 weeks for from the date of LOA + 2 weeks for Installation & Training from the date of intimation by RFCL.
Clause No.37 of GTC, Annex-II of NIT	Guarantee / Warranty period shall be 12 months from the date of commissioning /satisfactory operation checking , after the “ GAS Chromatographs ” have been put in service (as per NIT requirement) or 18 months from the date of delivery, whichever is earlier	Minimum Guarantee / Warranty period of ‘Gas Chromatographs’ shall be 2 years from the date of successful commissioning.
Clause No. 19 (a) of GTC, Annex-II of NIT	100% payment within 30 days from the date of, Supply, Installation, Testing, commissioning and Training of “ GAS Chromatographs ” at RFCL, Ramagundam.	70% payment within 30 days of receipt of material at site and remaining 30% after installation and Training.
Clause No. 18 of GTC, Annex-II of NIT, Pre-dispatch inspection	Vendor shall perform tests and inspection necessary to ensure that the material and workmanship conform to the requirement of this specification and submit the Pre-delivery inspection report to RFCL before dispatching the “ GAS Chromatographs ” not conforming to specifications shall be rejected by RFCL and shall be replaced by the suppliers immediately.	Vendor to submit ‘Third party inspection certificate’ along-with supplies to ensure that the material and workmanship conform to the requirement of this specification. However, the cost of Third party Inspection* shall be borne by the bidder. 3 rd Party Inspection certificate not conforming to specifications shall be rejected by RFCL and shall be replaced by the suppliers immediately.

* **THIRD PARTY INSPECTION** - The gas samples are to be analysed by Third Party Inspection Agencies using GCs proposed to be supplied by the supplier and has to submit the detailed analysis report as per our tender specifications. The analysis report as specified in our NIT and calibration of GCs has to be issued by Accredited laboratories.

2) ADDITION TO TENDER SPECIFICATIONS , ANNEXURE-III, TECHNICAL SPECIFICATIONS**A. NPD/FTD Detector or Equivalent:**

- Minimum Detectable Quantity (MDQ): < 0.1pg N/s (Azobenzene) or Better
- MDQ: <0.01 pg N/s (Malathion) or Better
- Dynamic range (N): 1 x 10³ or better
- Dynamic range (P): 1 x 10³ or better
- Max operating temperature: 350°C or Better
- Max acquisition rate: 2 ms (50Hz) or Better

B. UPS:

- Single 25KVA UPS with 60minutes back-up with inbuilt isolation transformer or Better
- Standard OEM warranty

3) Amendments Proposed in Technical Specification:

Clause	Existing / FOR	Read as
Bullet No-5, 3.2.2. of Annexure-III,	The software package should allow for the complete control of the GC. Furthermore, the software must include the capability to control up to 4 GCs at any one time (9 detectors simultaneously), method development and automation, data acquisition, data analysis, generation of custom reports, etc.	The Software package should allow for the complete control of the GC
Bullet No-12, 3.2.0. of Annexure-III,	System should have the capability to accommodate simultaneous 2 injection unit & 4 detector unit	System should have the capability to accommodate simultaneous 2 injection unit & 3 Detector unit or more
Bullet No-10, 3.2.0. of Annexure-III,	Programmable temperature ramps: 32 ramps or better	Programmable temperature ramps: 20 ramps or better
Bullet No-13, Column Oven, 3.2.0. of Annexure-III,	Programmed rate settings range: -250 to 250 °C/min	Programmed rate settings range: 120°C/min or Better
Bullet No-3, 3.2.0. of Annexure-III, Split/ Split less Injector	S/SL Inlet Pressure range: 0 to 1035 kPa	S/SL Inlet Pressure range: 0 to 690 kPa or Better
Bullet No-2, 3.2.0. of Annexure-III, Advanced Flow controller	Pressure program ramps:7	Pressure program ramps: 3 or Better
FID Detector, Bullet No-1, 3.2.0. of Annexure-III,	FID Detector: MDQ: <1.2 pg C/s (dodecane)	MDQ: <1.2 pg C/s (dodecane) or Better
TCD Detector, Bullet No-1, 3.2.0. of Annexure-III,	TCD Detector: Sensitivity : > 20000 mV × mL/mg (decane)	Sensitivity : > 20000 mV × mL/mg (decane) or equivalent
GC Mainframe, Bullet No-10, 3.2.0. of Annexure-III,	Acquisition speed: 500Hz (2ms)	Acquisition speed: 50Hz or Higher
Split/ Split less Injector, Bullet No-2, 3.2.0. of Annexure-III,	Split/ Splitless Injector: Split Ratio: 9999:1	Split Ratio: 6000:1 or Higher
Split/ Split less Injector, Bullet No-4, 3.2.0. of Annexure-III,	Maximum operating temperature: 450 °C	Maximum operating temperature: 400 °C or Better
FID Detector, Bullet No-3, 3.2.0. of Annexure-III,	FID Acquisition Rate: 2ms (500Hz)	FID Acquisition Rate: 50Hz or Better
TCD Detector, Bullet No-4, 3.2.0. of Annexure-III,	TCD Acquisition Rate: 2ms (500Hz)	TCD Acquisition Rate: 50Hz or Better
TCD Detector, Bullet No-3, 3.2.0. of Annexure-III,	TCD Detector: Max operating temperature : 400 °C	Max operating temperature : 350 °C or Better
Column Oven, Bullet No-2, 3.2.0. of Annexure-III,	Column oven with inbuilt LED light for easy replacement of columns	Deleted

SCD, Bullet No-1, 3.2.0. of Annexure-III,	MDQ < 0.3pgS/sec	MDQ < 0.5pgS/sec or Better
Column Oven, Bullet No-5, 3.2.0. of Annexure-III,	Max run time: 9999.99 min	Max run time: 999.99 min or Better
Column Oven, Bullet No-12, 3.2.0. of Annexure-III,	Settable time for each step: 9999.99 min	Settable time for each step: 999.99 min or Better
Column Oven, Bullet No-6, 3.2.0. of Annexure-III,	Temperature range: (ambient +2 °C) to 450 °C	Temperature range: (ambient +4 °C) to 450 °C or Better
Column Oven, Bullet No-7, 3.2.0. of Annexure-III,	Cryogenic cooling range (with CO2): -50 °C to 450 °C	Cryogenic cooling range (with CO2): -40 °C to 450 °C or Better