

सीएसआईआर-उत्तर पूर्व वर्जन तथा प्रद्योगिकी संस्थान, जोरहाट, असम
CSIR - NORTH-EAST INSTITUTE OF SCIENCE AND TECHNOLOGY,
JORHAT (ASSAM), INDIA

This is to inform that in the tender for “Supply and Installation of Gas Chromatography” having Tender ID “2019_CSIR_40279_1”, some points have been revised and the same may be read as under:

Revised Specifications for Supply and Installation of Gas Chromatography

Earlier Specification	Revised may be read as
<p><u>In the heading Analyzer Basic Feature</u></p> <ul style="list-style-type: none"> GC with suitable Detector along with original licensed windows-based software and inlets along with auto sampler for minimum of 15 vials or more. GC must be capable to accommodate at least four detectors & two injectors in working conditions simultaneously. Instrument should be capable of Retention time locking. It must consist of Autosampler, one Programmable On Column Injector/PTV, one Programmable split splitless capillary injector, one Flame Ionization Detector (FID), one Flame photometric detector and Cryogenic cooling facility. 	<ul style="list-style-type: none"> GC with suitable Detector along with original licensed windows-based software and inlets along with auto sampler for minimum of 15 vials or more. GC must be capable to accommodate at least four detectors & two injectors in working conditions simultaneously. Instrument should be capable of Retention time locking or equivalent facility. It must consist of Autosampler, one On Column Injector/PTV, one Programmable split splitless capillary injector, one Flame Ionization Detector (FID), one Thermal Conductivity Detector (TCD), one Electro Chemical Detector (ECD), one Flame photometric detector and Cryogenic cooling facility.
<p><u>In the heading Autosampler</u></p> <ul style="list-style-type: none"> Sampling volume - Capable to inject from 0.1 µl to 100 µl RSD of better than 0.3% RSD area reproducibility. 	<ul style="list-style-type: none"> Sampling volume - Capable to inject from 0.1 µl to 50µl or better RSD of better than 0.5% RSD area reproducibility.
<p><u>In the heading Injectors</u></p> <ul style="list-style-type: none"> System must have pneumatic Electronic Flow Control for all injectors & detectors. Pressure precision should be as good as 0.001 p.s.i <p><u>Programmable On Column Injector/PTV – 1 no</u></p> <ul style="list-style-type: none"> Temperature programming up to 9 ramps at up to 750 degree C/min <p><u>Programmable split/splitless injector / Multimode injector – 1 no</u></p> <ul style="list-style-type: none"> Nine-ramps temperature programming 	<ul style="list-style-type: none"> System must have pneumatic Electronic Flow Control for all injectors & detectors. Pressure precision should be as good as 0.1 p.s.i or better <p><u>Programmable On Column Injector/PTV – 1 no</u></p> <ul style="list-style-type: none"> Temperature programming ramp 3 or better <p><u>Programmable split/splitless injector / Multimode injector – 1 no</u></p> <ul style="list-style-type: none"> Three-ramps temperature programming or better
<p><u>In the heading Detectors</u></p> <p><u>Flame Ionization Detector – 1 no</u></p> <ul style="list-style-type: none"> Minimum detectable quantity: < 3 pg C/sec in Octane standard or equivalent /<1.2 pg C/sec in tridecane standard or equivalent. <p><u>Flame Photometric Detector – 1no</u></p> <ul style="list-style-type: none"> Minimum detectable quantity: 1x 10⁻¹¹ g S/sec with Thiophene or Maximum detectable quantity(MDL): <45 fg P/s, <2.5 pg S/s with methylparathion <p><u>Electro Chemical Detector- 1 no</u></p> <ul style="list-style-type: none"> Linear dynamic range: >5 × 10⁻⁴ or better. Uses β emission of <15 mCi⁶³Ni as the electron source. 	<p><u>Flame Ionization Detector – 1 no</u></p> <ul style="list-style-type: none"> Minimum detectable quantity: < 3 pg C/sec in Octane standard or equivalent /<1.4pg C/sec in tridecane standard or equivalent. <p><u>Flame Photometric Detector – 1no</u></p> <ul style="list-style-type: none"> Minimum detectable quantity: 1x 10⁻¹¹ g S/sec with Thiophene or Maximum detectable quantity(MDL): <100 fg P/s, <5 pg S/s with methylprathion <p><u>Electro Chemical Detector- 1 no</u></p> <ul style="list-style-type: none"> Linear dynamic range: > 10⁻⁴ or better. Uses β emission of <15mCi⁶³Ni as the electron source or compatible.

The following is added in addition to above amendments:

The system must be company tested with certificate of reproducibility of results with respect to standards. The standards must be supplied by the vendor.

All other specifications, terms and conditions will remain same.