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Tender ID :		2024_CSIR_196743_1			
Tender Ref No :		CIMFR/PUR-14(7)2022			
Tender Title :		Supply Installation Commissioning and Training of Automated Flash and Prep Chromatography System with UV-Vis, ELS Detection and Accessories			
Corrigendum Type :		Technical Bid			
Corrigendum Document Details					
Corr.No.	Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size(in KB)
1	Technical Bid	Revised Technical Specification after Pre-Bid Meeting	05-Jul-2024 12:23 PM	flashchroma.pdf 	539.61

Revised Technical Specification of Automated flash and prep chromatography system with UV-Vis, ELS detection and Accessories.

S No.	Apparatus/Equipment	Specification	QUANTITY
1.	controlled delivery of solvent	Capable of controlled delivery of independent four solvents inlet for binary gradient, linear mode, isocratic and step gradient. System should be able to separate the mixture with solid sample loading 1.0 mg to 100 grams or better.	01
2.	High performance liquid chromatography (HPLC) piston pump	Compatible with both normal and reversed phase purification conditions in the automated system.	01
3.	Preparative HPLC columns	System to be capable to operate for both Flash columns as well as other make column or wider.	02
4.	Solid and liquid loading	samples should be possible with or without the valve. Necessary valve/holder/adaptor/plunger should be provided in sufficient	01
5.	Solvent Flow Rate	Maximum 200 mL /min. or better for Flash and 100 mL/min or wider for Prep HPLC	
6.	Pumping system	<ul style="list-style-type: none"> With pressure of 700 Psi or 50.0 bar for Flash whereas 300 bar or better for Preparative HPLC. Online pressure monitoring system during analysis and auto sensing cut off as a safety feature. 	01
7.	Vapour Sensors	For leak detection in the system for safety of the user.	01
8.	Solvent flow through cartridge	Gravity as well as anti-gravity flow for better purging of air during equilibration	01
9.	Auto-switches	lines when solvent levels run low	01
10.	Integrated photo diode array detection (PDA)	detector automatic collection of fractions in the selected wavelengths simultaneously collection of minimum 4 wavelengths along with scan function from 200 to 800nm. -Integrated evaporative light scattering detector (ELSD) detector with active splitter with 10-30 micro litre sample loss or lesser.	01
11.	Automatic fraction collection	<ul style="list-style-type: none"> Fraction tracking facility with peak to tube graphical interface. Safety features to stop flow automatically if the rack is not placed properly or tubes are filled/not available. 	01
12.	Touch-screen controlled	Software for operation of the machine with option for universal series bus (USB/Bluetooth/Wifi/LAN) port.	01

		<ul style="list-style-type: none"> - System software operation also possible to operate or view from smart phones as well as computer or laptop - System to have Fraction collection with fume encloser. - Multiple touch screen with monitor size more than 14 inches. 	
13.	Data acquisition and software system.	<ul style="list-style-type: none"> - System should be capable for quantitative and qualitative analysis through data acquisition and software system. - System should be capable of providing 3D graphs for quantification of multiple component detection. - System should be capable to use refillable/disposable cartridge up to 1.0 kg. 	
14.	Automatic method	Set-up based on inputting thin layer chromatography (TLC) Rf value / HPLC data	
15.	Collect 120 fractions or above.	System should come along with Racks (18 x 150 mm) or better, that can hold tubes of different sizes.	01
16.	RFID column detection	With flexibility of using any Make flash columns available in the market and necessary adapters or holders also to be provided as standard scope.	01
17.	Necessary tubing	- The system should be provided with all necessary tubing, etc. for installation and smooth running of the instrument	01
18.	Level sensors	-The Instrument should have level sensors for both 4 solvent line and waste line or better.	01
19.	Warranty	1.0 years comprehensive warranty and 04-years AMC. (Year wise break up should be provided.)	
20.	Company	Should certify that spares should be available for minimum period of 10 years after installation.	
21.	Installation	Demonstration and minimum one-week training should be done by certified engineer free of charge on site (CIMFR-DC).	
22.	All the modules of instruments	Modules of the instruments and cartridges should be from same/single manufacturer	
23.	UPS with Battery	3.0 KVA online UPS with 1.0-hour backup with full load with battery warranty 03 years.	
	Accessories and Consumables	<ul style="list-style-type: none"> • 20.0 ml glass test-tube With corresponding fraction collector rack size 	1000 Pieces

		<ul style="list-style-type: none"> 15.0 ml glass test-tube With corresponding fraction collector rack size 	1000 Pieces
		<ul style="list-style-type: none"> Stand which should fit in the quoted model for above mentioned test tubes. 	10 Pieces
		<ul style="list-style-type: none"> Reusable plastic cartridge for silica/alumina/celite packing up to 5.0 gm 	50 Pieces
		<ul style="list-style-type: none"> Reusable plastic cartridge for silica/alumina/celite packing up to 10.0 gm 	50 Pieces
		<ul style="list-style-type: none"> Reusable plastic cartridge for silica/alumina/celite packing up to 20.0 gm 	30 Pieces
24.	Delivery Site	Transportation, Loading, Unloading at the CSIR-CIMFR Digwadih Campus at specific laboratory under the scope of supplier at their cost.	

Delivery Schedule

Schedule	Period		Reference
	Purchaser's requirement	Supplier's response	
Expected delivery period	05 months	-week/months	From the date of issue of purchase order.
Expected installation & commissioning period	08 weeks	- Days/weeks	From the date of delivery at CSIR-CIMFR Digwadih Campus.
Expected Period of Demonstration observation and training	02 weeks	- Days/week	From the date of Installation & commissioning at CSIR-CIMFR Digwadih Campus

Purpose: - (1) Purification of organic and inorganic molecules via normal phase liquid and reverse phase liquid separation technology.

Limitation: - (2)

(a) Capable of separation of molecular mass up to 1000.

(b) Capable of collecting volumes at 200 mL per minute flash and 100 mL for Prep HPLC for 20.0 mL glass test-tube rack via automated collector module.

(c) Time and temperature-controlled separation and collection of loaded samples.