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Dated:

CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject: Revised Technical Specification, schedule of item "FOOD LAB-High-performance liquid chromatography (HPLC), Gas Chromatograph " under No. RMSC/EPM/M-6/2023-24/NIB-796/354 Date 11.08.2023.

Revised Technical Specification of Item "FOOD LAB-High-performance liquid chromatography (HPLC), Gas Chromatograph"

Technical Specification of High-performance liquid chromatography (HPLC)WITH PHOTODIODE ARRAY (PDA), FLUORESCENCE (FLD AND REFRECTIVE INDEX DETECTOR (RID)

Application: High-performance liquid chromatography (HPLC) is used to separate, identify, quantify each component in a mixture. In food analysis it is used for analysis of food colors, food additive, vitamins, sugars amino acids, triglycerides etc. It is also used to Estimate aflatoxin

A complete HPLC comprising of a 1) Quaternary solvent system 2)) Autosampler, 3) Column Oven 4). Columns C18& C8RP Columns and 5) Detectors (PDA, FLD and RI) The complete: system should be controlled by single software. The Completesystem should be controlled by single software. The system should have the Complete capability to operate the column range from 10 um to sub 2.5 um particles and any other column chemistry

Note :- All units must be from the same manufacturer. Technical bids with compatible modules from another manufacturer will not be evaluated.

Sr. No.	Description	Technical Specification of High-performance liquid chromatography (HPLC)
Quat	ernary Gradient System with Onli	ine Degasser.
1	Pressure operating range	9000 psi or better
2	Flow Rate Range:	Programmable 0.01 to 2 ml/ min in 0.0 l ml/min increments.
3	Flow Precision	±0.1 % RSD or below.
4	Flow Rate Accuracy	±1%
5	Dealy Volume	<1100 μ1
6	Eluent Degassing	Online membrane Degasser for all channels
7	Gradient Mixer	 Quaternary mixing & gradient capability using suitable proportionate valve) Plunger Seal Wash Integral/ Gradient Profiles which include gradient curves: linear, step, concave, and convex Composition Precision 0.20% RSD or +/- 0.04 min SD, whichever is greater, based on retention time
8	Solvent Setting Range	4 solvents setting range:0-100% with 0.1% step
9	Diagnostic Features	Error detection and display, Leak detection & safe leak handling
PDA :	Detector	
1 -	Wavelength range	190-750 nm with inbuilt Holmium oxide filter
2	Spectral resolution	1.2 nm or better per photodiode with a Total of 1024 photodiodes, digital and optical (3D modes
3	Linearity range	<5% at 2 AU, 257 nm

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	Baseline noise	8.0 X 10 ⁻⁵ AU at 254 nm or better
	Drift	<1.0x 10 ⁻³ AU/h at 254 nm
uitab	le peak purity software, Auto threshold fo	r peak purity
_	ETECTOR	A STATE OF THE PARTY OF THE PAR
U DI	Refractive Index Range	1.00 to 1.75 RIU
	Noise Level	± 2.5 x 10 ⁻⁹ RIU
3	Drift	2x10 ⁻⁷ RIU/hr.
ı	Cell Volume	Approximately 10 μL
5	Temperature Control	Temp. controlled Flow cell unit
5	Temperature Operating Range	5°C above 25 °C to 50°C.
Fluor	rescence Detector	
1	Light Source	Continuous Xenon lamp
2	Excitation Wavelength	Range 200-850 nm
3	Emission Wavelength	Range 220-900 nm
4	Spectral bandwidth	15-20 nm both in the excitation and emission sides
5	Wavelength accuracy	Should be ± 3 nm
_	Repeatability	should be ± 0.2nm
6 7	Sensitivity	Should be S/N> 500 (Raman Spectrum of H ₂ O) as per ASTM Method
8	Data Acquisition range	Should be up to 80 HZ cell Volume Should be < 2 microliter
9	Pressure	limit up to 500 psi
	umn Oven With Preheating Capability	
1.	Temperature range	10° C to 85° C
	For column length	Must accommodate upto 300 mm columns
 3. 	No of Columns accommodated	Minimum 1
_	Temperature Stability	±0.1 °C of set temperature
4	Cooling system	Peltier based or equivalent technology
5.		
_	osampler	Total vol. Inj / Variable Inj method
1.	Injection Mode	0.1-100 ul (Standard)
2.	Injection Volume Range	>80 x 2 ml vials or more
3.	Sample Capacity	±1%
4.	Injection Volume Accuracy	<0.5% RSD or better
5.	Injection Precision	0.005% from previous injection
6.	Carry over	4° C - 40 ° C or more with ±2 °C accuracy or better
7.	TrayTemperatureOperating Range	4º C - 40 ° C or more with ±2 °C accuracy of better
Ac	cessories	
-	HPLC Columns	One each of C8 = 250 x 4.6 x 5μm.

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	*	C18= 250 x 4.6 x 5µm.
		Cyano = 250 x 4.6 x5µm.
		Amino = $250 \times 4.6 \times 5 \mu m$.
		Phenyl = 250 x 4.6 x5µm.
		Silica = 250 x 4.6 x 5µm.
		All columns must be supplied with respective guard column and
		holder.
		notice.
2.	Accessories to be Supplied	 Sample Vials 100 numbers with 1.5 ml or greater. Stainless Steel Ultra Sonic bath with the capacity of 5 L or more, with Time setting (min) 1-30min or continuous operation with LED and Push button (Should be IP 33 Protection class for sonication of spare parts as well as solvents. Mobile phase filter assembly (2 L) for aqueous and organic solvent: Aqueous and organic solvent compatible membranes 0.22 microns 100 numbers each. Oil free vacuum pump (I no.) with 4 bar pressures or better should be Neoprene diaphragm based. Fittings, Frits, ferules and Tubing's Tubing cutter (2 no.)
		 Solvent bottles (12 no. each 1000 mi capacity) Solvent filters (Glass & SS both, 08 no. each) Compatible Manual syringes -10 μl, 20 μl, 50 μl (02 no each) Standards for HPLC Calibration for PDA, RI and Fluorescence detector Spare lamps for each detector Consumables required for each detector must be provided Accessories required for the process/application shall be provided by manufacturer/supplier.
_		
Comp With	vare and Hardware plete System and software configuration m Multitasking and capable of performing t duce the data. It must be able to control all	nust be 21CFR Part 11 Compliant Software: Database version Software following functions: Control the system, acquire, store, process and the devices from same software.
Comp With	plete System and software configuration m Multitasking and capable of performing t	the following functions: Control the system, acquire, store, process and the devices from same software. Latest Factory set, branded system with 22-23" Full HD Monito
Comp With	plete System and software configuration m Multitasking and capable of performing t	he following functions: Control the system, acquire, store, process and the devices from same software. Latest Factory set, branded system with 22-23" Full HD Monitor with licensed OSs, MS office standard version and Antivirus for year with Printer – B/W - duplex - laser - Legal, A4- 1200 dpi 1200 dpi - up to 21 ppm - capacity with Network Card and Bluetooth facility.
Comp With repro	plete System and software configuration m Multitasking and capable of performing t duce the data. It must be able to control all	the devices from same software. Latest Factory set, branded system with 22-23" Full HD Monito with licensed OSs, MS office standard version and Antivirus for year with Printer – B/W - duplex - laser - Legal, A4- 1200 dpi : 1200 dpi - up to 21 ppm - capacity with Network Card and Bluetooth facility. List of all spares and accessories (including minor) with par
Comp With repro	plete System and software configuration m Multitasking and capable of performing t duce the data. It must be able to control all PC with Printer Service Contract Clauses, Includin	he following functions: Control the system, acquire, store, process and the devices from same software. Latest Factory set, branded system with 22-23" Full HD Monitor with licensed OSs, MS office standard version and Antivirus for year with Printer – B/W - duplex - laser - Legal, A4- 1200 dpi 1200 dpi - up to 21 ppm - capacity with Network Card and Bluetooth facility. List of all spares and accessories (including minor) with parnumbers and price, required for maintenance and repairs in future.
Comp With repro	plete System and software configuration m Multitasking and capable of performing t duce the data. It must be able to control all PC with Printer Service Contract Clauses, Includin Prices Supplier/ Manufacturer Operating manuals., service manuals	he following functions: Control the system, acquire, store, process and the devices from same software. Latest Factory set, branded system with 22-23" Full HD Monitor with licensed OSs, MS office standard version and Antivirus for year with Printer – B/W - duplex - laser - Legal, A4- 1200 dpi 1200 dpi - up to 21 ppm - capacity with Network Card and Bluetooth facility. List of all spares and accessories (including minor) with particular guarantee/warranty period should be attached; Must be ISO certified for quality Should provide 2 sets (hard copy and soft-copy) of: • User, technical and maintenance manuals to be supplied in English language along with machine diagrams: • List of equipment and procedures required for local calibration and routine maintenance:
Comp With epro	plete System and software configuration in Multitasking and capable of performing to duce the data. It must be able to control all PC with Printer Service Contract Clauses, Includin Prices Supplier/ Manufacturer	he following functions: Control the system, acquire, store, process and the devices from same software. Latest Factory set, branded system with 22-23" Full HD Monitor with licensed OSs, MS office standard version and Antivirus for year with Printer — B/W - duplex - laser - Legal, A4- 1200 dpi 1200 dpi - up to 21 ppm - capacity with Network Card and Bluetooth facility. List of all spares and accessories (including minor) with panders and price, required for maintenance and repairs in future after guarantee/warranty period should be attached; Must be ISO certified for quality Should provide 2 sets (hard copy and soft-copy) of: • User, technical and maintenance manuals to be supplied in English language along with machine diagrams: • List of equipment and procedures required for local calibration and routine maintenance: • Service and operation manuals (original and copy) to be provided: • Advanced maintenance tasks documentation, if any.
Comp With epro	plete System and software configuration m Multitasking and capable of performing t duce the data. It must be able to control all PC with Printer Service Contract Clauses, Includin Prices Supplier/ Manufacturer Operating manuals., service manuals	he following functions: Control the system, acquire, store, process and the devices from same software. Latest Factory set, branded system with 22-23" Full HD Monito with licensed OSs, MS office standard version and Antivirus for year with Printer – B/W - duplex - laser - Legal, A4- 1200 dpi 1200 dpi - up to 21 ppm - capacity with Network Card and Bluetooth facility. List of all spares and accessories (including minor) with panumbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached; Must be ISO certified for quality Should provide 2 sets (hard copy and soft-copy) of: • User, technical and maintenance manuals to be supplied in English language along with machine diagrams: • List of equipment and procedures required for local calibration and routine maintenance: • Service and operation manuals (original and copy) to be provided:

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	t	Warranty for 3 Years, extendable up to 3 years, after satisfactory
6	Warranty	installation and working excluding consumable parts and
		accessories.
		The supplier will have to carry out successful Installation at the
7	Training	laboratory premises (where ever the system has to be installed) and
		provide on-site comprehensive training for a minimum of two
-	1	Scientific Personnel operating the system till customer satisfaction
0	Yin Community	List of all spares and accessories (including minor) with part
8	List of Spares and Accessories	numbers and price, required for maintenance and repairs in future
		after guarantee/waranty period should be attached
9	UPS	Suitable true on - line UPS (10 KVA) to support the instrument
		back up for 60 min
		Should be compliant with the requirements of FDA/CE/BIS.
		Quality Certification: ISO certified.
10	Quality Requirement	 Should provide calibration certificates from NABL accredited
		agency every year during warranty & CMC period. Calibration
		cost will have to be borne by the supplier.
		On aita IO, OO as instrument 1, 10, 1
11	IQ/PQ/OQ	On site IQ, OQ of instrument along with document to be provided
		& supplier to assist till satisfactory PQ of instrument
		Cotact details of manufacturer, supplier and local service agent to
		be provided, including toll free/ Landline Number: Should have a
		good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and
		unlimited breakdown calls by service/application support,
12	After sales service/Post warranty	engineers should attend immediately without fail.
		Should carry out yearly PM with at least one PM kit
	Approximately the state of the	Comprehensive AMC cost/rate for 3 years after warranty shall be
100	The same of the sa	quoted. Terms and conditions for the comprehensive AMC, after
		the warranty period has to be specified
		The quote should also include a compliance statement vis-à- vis
		specifications in a "tabular form" clearly stating the compliance
12	Compliance	and giving justification, if any supported by technical literature.
13	Compliance statement	This statement must be signed, with the company seal, for its
		authenticity and acceptance that any incorrect or ambiguous
		information found subnmitted will result in disqualification.
		After two years of warranty period, 3 years of CAMC shall be
		undertaken by the supplier. This would also include:
		a. Preventive maintenance service: The seller will provide a
		minimum of two Preventive Maintenance Service visits during a
		year to the operating base to carry out functional checkups and
		minor adjustments/tuning as may be required.
		b. Breakdown Maintenance Service: In case of any breakdown of
		the equipment/system, on receiving a call from the buyer. the
		seller is to provide maintenance service to make the
4	Outage conditions	Equipment/system serviceable.
7	Outage conditions	c. Response time: The response time of the seller should not
		exceed 48 hours from the time the breakdown intimation is
		provided by the Buyer.
		d. Serviceability of 90% per year is to be ensured. This amounts to
		total maximum downtime of 37 days per year. Also
		unserviceability should not exceed 2 working days at one time.
		Required spares to attain this serviceability may be stored at site
		by the seller at his own cost. Total down time would be
		calculated at the end of the year. If downtime exceeds permitted
		downtime 'Liquidated Damages' would be applicable for the



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		delayed period. e. Maximum repair turnaround time for equipment system would be 3 days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system
15	Payment	Payment only after installation, validation and performance demonstration

2.GAS CHROMATOGRAPH

With FLAME IONIASATION DETECTOR (FID) and ELECTRON CAPTURE (ECD) and NITROGEN PHOSPHORUS(NPD) DETECTORS

Application: Gas chromatography (GC) is a key analytical technique in the food and beverage analysis. It enables complex organic substances to be separated in a gaseous phase and identified quickly. Used for pesticide, fatty acid composition, trans fat analysis of foods.

	Requirements	Specifications
1	System	Gas chromatograph with capability of operating concurrently with twinjectors and two detectors or better. The system should be quoted with a accessories required to make it fully operational and any other item required for stated applications be quoted as optional.
2.	Oven	 Up to 450 °C, with 50 °C/min ramps 8 or more Cool-down time from 450 °C to 50°C within 5 minutes or better Should be able to accommodate two or more injectors and two or more detectors Automatic leak test of system
3.	Pneumatic Controls	0-100 psi or better All Electronic Pneumatic Controls with 0.001 psi precision
4	Injector (2 or More)	 Should be capable of large volume injection Temperature ramped split less, Split and Cold on-column modes ≥ 450 °C max. and ≥ 2rarnps or better. Multimode/PTV/ PSSI with 150 µL or better Injection Volume capability with complete solvent vaporizer system or Equivalent. Injector must be able to operate with capillary & wide bore columns System should have back-flushing capability. Should be capable of large volume injection Temperature ramped split less, Split and Cold on-column modes ≥ 400 °C max. and ≥ 2ramps or better.
5	Auto sampler (Liquid)	 Robust Liquid auto sampler capable of injecting ≥100 samples or better with syringe Must allow installation and automation of suitable syringe featuring volumes from 0.1 to 50 μL or more. Must be able to achieve combined multiple solvent rinsing with up to 4 different solvents. Robust Liquid auto sampler capable of injecting ≥50 samples or better with syringe
6	Detectors	 The GC must have complete integrated control of all parameters (no external control module) for respective detectors: FID/ ECD/ SPD. FID/ ECD/ NPD. Detector must be independently controlled and operational for maximum sensitivity.

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	7 Flame Ionization	ાં સ્વત્રા ાના સુભ્ય ખ
	7 Flame Ionization Detector (FID)	 Linear range: better than 10⁷ Minimum detectable amount with/without makeup gases: 1.5 pg C/sec obetter with Octope. Operating temperature limits: 450°C with standard ceramic/quartz flame jet equivalent 28 Auto flame out detection. Acquisition rate 50 Hz or more.
	8 Electron Capture Detector ECD	 Linear dynamic range: better than 10⁴ Complete with ⁶³Ni source and low voltage heaters. Minimum detectable amount: Less than 10 fg of lindane or < 0.0: pgperchloroethylene Operating temperature limits: 400°C
	Nitrogen Phosphon Detector	Minimum detectable amount: 5.10 ⁻¹³ g N/sec and 5.10 ⁻¹⁴ gP/sec OF BETTER Linear dynamic range: bettet than 10 ⁴ Operating temperature limits: 400 °C or better with standard jet
10	Gus Supplies	 Required High purity Gas cylinders (2 No. Each) with regulators Nitrogen, Helium. Hydrogen & Zero Air Required High purity Gas cylinders (2 No. Each) with regulators Nitrogen, Helium optional, Hydrogen & Zero Air
	Software and Hard wa	are (Single Point Control Of Software & Hardware)
12	Software	Complete system and software configuration must be 21 CFR Part 11 compliant.
13	Communication Hardware:	Latest Factory set, branded system with 22-23" Full HD Monitor with Printer - B/W - duplex - laser - Legal, A4 - 1200 dpi x 1200 dpi
14	Support	with Network Card and Bluetooth facility. The Application support for stated applications required during method development and validations.
15	Requirements (PIR)	Provide all PIR of the system.
16	Other requisites for GC with ECD/FID/NPD	Automatic Change Over Manifold for each gas line Complete Gas Purification Panel with fittings & installation of all gases Renewable in Line Gas Purification System Renewable gas purifier cartridge, Spare Set Gas clean filters/Traps (6 No.)
17	Septa for injectors	Non stick, Low bleed, high puncture tolerance and Max, Temp 400 °C (foreach injector). (400 No.)
18	Liners	Provide all Suitable injector liners required for the system quoted (20 No)
19	Ferrules and Nuts	50 No. (for each column end and other interfaces as applicable), 50 No. for GC with ECD, NPD, FID.
20	Columns for GC Applications	 Pesticide column (30m x 0.250mm x 0.25qm (HP-5MS / DB-1 MS or equivalent) (02 no.) Column for Fatty Acid Profiling with main concern of Trans Fatty Acid Application (02 No.) Column for Cholesterol Application (02 No.)
21	Vials, caps and tool for autosampler (Only compatible sizes should	 2000 No. Each Vial sets (1. 2 mL, Crimp type, Amber and Clear glass) 200 No. Vials (10,20ml Crimp type with cap & septa) 1000 No. 300/500 μL Recovery vials 6000 No. Septa PTFE/Silicone (for 1, 2 mL Vials)

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	1119		Ergonomic Crimping Tools for different vial types	
			Ergonomic Decapping Tools for different vial types	
dalor.	PASSING AND	SO THE MANAGEMENT OF THE SECOND STREET, STREET	10 No, each Storage Racks for (for 1, 2 mL Vials)	and the same of the same
			Head Space vials 10,20 ml capacity (500no. each)	ALL STATES AND AND ADDRESS OF THE PARTY OF T
	22		Suitable syringes for quoted auto sampler (4 Nos)	
		Syringe	Suitable Headspace syringe /valve/loop (4 Nos)	
	23	Sample	QuEChERS Kits for Pesticides and Herbicides in following Matrices:	
	E ST	Preparation	Matrices with high fat (1000 No.)	
-	E pare	(Water & Foodi	Matrices with high Water content and (1000 No.)	THE WALL
10%in	William	The first of the second second	Matrices with high pigmented (1000 No.)	#4 - Brandistania de Brand
			-SPE cartridges for water (1000 No.)	
	24	Tools and Kits	Septa Removing toolTubing Cutter with rotating diamond blade for column	
			1 ubing Cutter for stainless steel tubing (1/16- & 1/8-inch tubing) Tubing Cutter for	
			Plastic tubing with spare blade set	
4	25 -	Miscellaneous	Consumables required for each detector must be provided	
	26	Reference Standards		
			Certified values of Certified Reference Materials (CRM) provided by an accredited Reference Material Producer with stated metrological traceability to the	
			SI for all Fatty Acids including Trans fatty acids, Cholesterol, plant sterols	
	27	Operating manuals,	Should provide	
		service manuals, other	•User, technical and maintenance manuals in English language	
		manuals	• List of equipment and procedures required for local calibration and routine	
70		CONTRACTOR STATE	maintenance	Land to be stated
		and a line twin I	Service and operation manuals to be provided. Advanced maintenance tasks	
1			documentation, if any.	A CHENTS THE RE
	28	Recommendations or	Any warning signs would be adequately displayed	-
1	29	Warnings	W	HER CO.
	29	Warranty	Warranty for 2-year, extendable up to 3 years, after satisfactory	
+	30	Tesining	installation and working excluding consumable parts and accessories.	1 2 2
	30	Training	The supplier will have to carry out successful Installation at the laboratory premises	
-	100		(where ever the system has to be installed) and provide on-sitecomprehensive	
			training for a minimum of two scientific personnel operating the system till customer satisfaction	Prince Com
	31	List of Spares and		ARTERICANON PROPERTY.
1		Accessories	List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after	
			required for maintenance and repairs in future after guarantee/warranty period should be attached	
	32	UPS	Suitable on - line UPS (10 KVA) to support the instrument for 60 mins.	
-	33			= = = = = = = = = = = = = = = = = = = =
	33	-Quality Requirement	Should be compliant with the requirements of	
		Charles tradentered	FDA/CE/BISQualityCertification:ISOcertified.Shouldprovide calibration certificates from NABL accredited agency every year during	
10	estal di	GETTICA CONT. IN 1980 TO LONG STATE OF THE S	wantranty & CMC period. Calibration cost will have to be borneby the supplier. All	MATERIAL SECTION AND ASSESSED.
	1 3		calibration certificates must be from ISO 17025 2017 certifiedlaboratory	Allant ar L
	34	IQ/PQ/OQ	On site IQ, OO of instrument along with document to be provided supplier to	
L			assist till satisfactory PQ of instrument	
	35	After sales service/ Post	Contact details of manufacturer, supplier and local service agent to be "provided	
	.2	warranty	including toll free/ Landline Number; Should have a good after sales	
	- 3		service/technical support capable of reaching at short notice the places where	
E (B)	NO WILL	As a company to the company of the c	instrument is installed. Visits and unlimited breakdown calls by service/application	
			support, engineers should attend immediately without fail. Should carry out yearly	THE REPORT OF THE PARTY OF THE
	ALT V		PM with at least one PM kitComprehensive AMC cost/rate for 3 years after	
			warranty shall be quoted. Terms and conditions for the comprehensive AMC after	A FIRST
	36		The great physical distribution of the court	
	30		The quote should also include a compliance statement vis-a-vis	
	- +		specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature. This statement	
			justification, if any supported by technical literature. This statement must be	A STATE OF

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		signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.
37	Outage conditions	After two years of warranty period, 3 years of CAMC shall be undertaken by the supplier. This would also include:
		a. Preventive maintenance service: The seller will provide a minimum of two Preventive Maintenance Service visits during a year to the operating base to carry out functional checkups and minor adjustments/twining as may be required. b. Breakdown Maintenance Service: In case of any breakdown of the equipment/system, on receiving a call from the buyer, the seller is to provide maintenance service to make the equipment/system Service Cable c. Response time: The response time of the seller should not exceed 48 hours from
		d. Serviceability of 90% per year is to be ensured. This amounts to total maximum downtime of 37 days per year. Also unservicebility should not exceed 2 working days at one time. Required spares to attain this serviceability may be stored at site by the seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime 'Liquidated Damages' would be applicable for the delayed period.
Calcario (a de	elekkan den er en opde er elde fleddig	e. maximum repair turnaround time for equipment/system would be 3days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system
38	Payment	Payment Only after installation, validation and performance demonstration

Please note that all clarification/amendment/corrigendum in technical specifications/bid conditions is the integral part of the bid document. This corrigendum/ addendum should be signed and annexed with bid document.

All other terms & conditions remains the same.

Executive Director (EPM)
RMSCL, Jaipur

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