

Ministry of Health & Family Welfare
National AIDS Control Organization

Through

MITES LIMITED

(Procurement Agent)

Materials System Management Division
MITES Office Complex, Annex Building, 4th Floor,
Plot No.144, Sector 44, GURGAON, INDIA

Dated: 14.12.2018

AMENDMENT No. 4

National HIV/AIDS Control Programme

National Competitive Bidding

**IFB No.: MITES/MSM/NACP/06/2018 due for opening on 20.12.2018
for Procurement of Laboratory Equipments (For Viral Load)**

The following amendments in the subject bid document are hereby authorized:-

Sl. No	Reference	Existing	Modified
IFB & ITB:			
1	Sl. 6 of IFB (Page No.1) & ITB clause 24.1 of Bid Documents (Page No 19)	Deadline for Submission of Bids: 14:15 Hrs. on 19.12.2018	Deadline for Submission of Bids: 14:15 Hrs. on 26.12.2018
2	Sl. 6 of IFB (Page No.1) & ITB clause 27.1 of Bid Documents (Page No 21)	The Purchaser will open all bids, in the presence of Bidders' representatives who choose to attend, at 1430 hrs (Indian Standard Time) on 20.12.2018 at the following address: MITES Ltd., MSM Division, MITES Office Complex, Annex Building, 4th Floor, Plot No. 144, Sector 44, Gurgaon – 122003, Haryana, India "In the event of the specified date of the bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and Location on the next working day."	The Purchaser will open all bids, in the presence of Bidders' representatives who choose to attend, at 1430 hrs (Indian Standard Time) on 27.12.2018 at the following address: MITES Ltd., MSM Division, MITES Office Complex, Annex Building, 4th Floor, Plot No. 144, Sector 44, Gurgaon – 122003, Haryana, India "In the event of the specified date of the bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and Location on the next working day."
3.	ITB clause 20.1 of Bid Documents (Page No 14)	Bids shall remain valid for the period of 150 Days after the date of bid submission specified in ITB Clause 24 i.e. up to 19.05.2019 . A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.	Bids shall remain valid for the period of 150 days after the date of bid submission specified in ITB Clause 24 i.e. up to 26.05.2019 . A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
4.	ITB clause 21.2 of Bid Documents (Page No 15)	The bid security shall remain valid for a period of 45 days beyond the validity period for the bid i.e. up to 03.07.2019 , and beyond any extension Subsequently requested under Sub-clause 20.2.	The bid security shall remain valid for a period of 45 days beyond the validity period for the bid i.e. up to 10.07.2019 , and beyond any extension Subsequently requested under Sub-clause 20.2.
Section III : Bidding Forms			
	2 Price Schedule (Pg-40)	As Existing	Total in figures & Quoted rates in words : Deleted Evaluation will be done schedule wise. Sum of schedules quoted will not be considered.
	8 Check List		
	4 (a) 6 (Pg-46)	The bidders who are manufacturers should have generated annual sales turnover of equal to price quoted, in any one of the last three financial years to qualify for the schedule. The bidder shall submit reports on his financial standing such as profit and loss	The bidders who are manufacturers should have generated annual sales turnover of atleast equal to as specified in Section II-2(a).6 (Table 2), in any one of the last three financial years to qualify for the particular schedule. The bidder shall submit

Sl. No	Reference	Existing	Modified																		
		statements, balance sheets and auditor's report, banker's certificate, etc duly certified by a CA or Statutory Auditor of the Company for the last three financial years from the date of opening of bid.	reports on his financial standing such as profit and loss statements, balance sheets and auditor's report, banker's certificate, etc duly certified by a CA or Statutory Auditor of the Company for the last three financial years from the date of opening of bid.																		
	4 b) 4 (Pg-47)	that it has generated an annual turnover of at least 50% to price quoted, in any one of the last three financial years, to qualify for a particular schedule. If the bidder quotes for more than one Schedule, the above criteria shall be cumulative. The turnover is to be supported by audited financial statements of accounts (including balance sheet, profit and loss account, auditor's reports, and IT returns) for the past three fiscal years duly certified by the auditor of the Company.	That it has generated an annual turnover of at least 50% of the value as indicated in Section II-2(a).6 (Table 2), in any one of the last three financial years , to qualify for a particular schedule. If the bidder quotes for more than one Schedule, the above criteria shall be cumulative. The turnover is to be supported by audited financial statements of accounts (including balance sheet, profit and loss account, auditor's reports, and IT returns) for the past three fiscal years duly certified by the auditor of the Company.																		
Section : IV Schedule of Requirements																					
1.Schedule of Requirements																					
	Delivery Schedule (Pg-51)	Delivery Schedule As indicated below: To be delivered within 30days from date of issue of NOA	Delivery Schedule As indicated below: To be delivered within 90days from date of issue of NOA																		
2. List of Related Services and Completion Schedule																					
	i) Incidental Services (Pg-52)	After sales service centre should be available at/near to the city of Consignee on 24 (hrs) X 7 (days) X 365 (days) basis. The service centre should have a functional helpline, which should be available. 24*7*365 days and in both English and Hindi Language.	After sales service centre should be available at/near to the city of Consignee on 24 (hrs) X 7 (days) X 365 (days) basis. The service centre should have a functional mobile helpline , which should be available. 24*7*365 days and in both English and Hindi Language.																		
3: Technical Specifications																					
	(Page No. 66-74)	As Existing	Revised Technical Specifications are placed at Annexure A																		
Section V General Conditions of Contract																					
	GCC: 16 Terms of Payment (Pg.-87)	As Existing	16.1 The method and conditions of payments to be made to the supplier shall be paid upon under this contract shall be as follows: For schedule 1,2, 5, 6,7,& 8																		
			<table border="1"> <tbody> <tr> <td>A</td> <td>60% Payment</td> <td>On delivery of Goods to the consignee</td> </tr> <tr> <td>B</td> <td>10% Payment</td> <td>On successful Installation / commissioning / testing & Acceptance of Equipment</td> </tr> <tr> <td>C</td> <td>5% Payment</td> <td>After successful completion of first year Warranty</td> </tr> <tr> <td></td> <td>5% Payment</td> <td>After successful completion of second year Warranty</td> </tr> <tr> <td></td> <td>5% Payment</td> <td>After successful completion of third year Warranty</td> </tr> <tr> <td></td> <td>5% Payment</td> <td>After successful</td> </tr> </tbody> </table>	A	60% Payment	On delivery of Goods to the consignee	B	10% Payment	On successful Installation / commissioning / testing & Acceptance of Equipment	C	5% Payment	After successful completion of first year Warranty		5% Payment	After successful completion of second year Warranty		5% Payment	After successful completion of third year Warranty		5% Payment	After successful
A	60% Payment	On delivery of Goods to the consignee																			
B	10% Payment	On successful Installation / commissioning / testing & Acceptance of Equipment																			
C	5% Payment	After successful completion of first year Warranty																			
	5% Payment	After successful completion of second year Warranty																			
	5% Payment	After successful completion of third year Warranty																			
	5% Payment	After successful																			

Sl. No	Reference	Existing	Modified													
				<table border="1"> <tr> <td data-bbox="1052 210 1133 262">Payment</td> <td data-bbox="1133 210 1497 262">completion of fourth year Warranty</td> </tr> <tr> <td data-bbox="1052 262 1133 336">5% Payment</td> <td data-bbox="1133 262 1497 336">After successful completion of fifth year Warranty</td> </tr> <tr> <td data-bbox="1052 336 1133 415">5% Payment</td> <td data-bbox="1133 336 1497 415">After successful completion of sixth year Warranty</td> </tr> </table>	Payment	completion of fourth year Warranty	5% Payment	After successful completion of fifth year Warranty	5% Payment	After successful completion of sixth year Warranty						
Payment	completion of fourth year Warranty															
5% Payment	After successful completion of fifth year Warranty															
5% Payment	After successful completion of sixth year Warranty															
For schedule 3 & 4																
			<table border="1"> <tr> <td data-bbox="1076 646 1133 726">A</td> <td data-bbox="1133 646 1312 726">80% Payment</td> <td data-bbox="1312 646 1482 726">On delivery of Goods to the consignee</td> </tr> <tr> <td data-bbox="1076 726 1133 884">B</td> <td data-bbox="1133 726 1312 884">10% Payment</td> <td data-bbox="1312 726 1482 884">On successful Installation/ commissioning /testing & Acceptance of Equipment</td> </tr> <tr> <td data-bbox="1076 884 1133 989">C</td> <td data-bbox="1133 884 1312 989">5% Payment</td> <td data-bbox="1312 884 1482 989">After successful completion of first year warranty</td> </tr> <tr> <td></td> <td data-bbox="1133 989 1312 1094">5% Payment</td> <td data-bbox="1312 989 1482 1094">After successful completion of second year warranty</td> </tr> </table>	A	80% Payment	On delivery of Goods to the consignee	B	10% Payment	On successful Installation/ commissioning /testing & Acceptance of Equipment	C	5% Payment	After successful completion of first year warranty		5% Payment	After successful completion of second year warranty	
A	80% Payment	On delivery of Goods to the consignee														
B	10% Payment	On successful Installation/ commissioning /testing & Acceptance of Equipment														
C	5% Payment	After successful completion of first year warranty														
	5% Payment	After successful completion of second year warranty														
<p>A On Shipment: % mentioned above of the Contract Price of the Goods delivered to the Consignee shall be paid within 60 days of submission of documents specified in GCC Clause 13 along with the Consignee Receipt Certificate (Form-3) through ECS of the bank.</p>																
<p>B On Successful Installation/ Commissioning/ Testing & Acceptance of Equipment: % mentioned above of the Contract Price of Goods received shall be paid within sixty (60) days of acceptance of the Goods upon submission of an invoice supported by the Original Final Acceptance Certificate (Form-4) issued by the consignee.</p>																
<p>C After successfully completion of yearly warranty : % mentioned above of the Contract Price of Goods received shall be paid within sixty (60) days after successfully completion of yearly warranty upon submission of an invoice supported by the Warranty compliance Certificate issued by the Program Division of NACO.</p>																

Sl. No	Reference	Existing	Modified
			<p>16.2 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 13 & 16.1, and upon fulfilment of other obligations stipulated in the Contract.</p> <p>16.3 The payment under this contract shall be released by Pay and Accounts Officer, MOH & FW, GOI after due scrutiny, verification of documents submitted by supplier to Procurement Agent and recommendation thereon by Procurement Agent.</p>
	GCC: 26.5 (Pg-93)	Inspection shall be carried out to verify the compliance of the Technical Specification Such inspections/tests will be conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.	<p>Inspection shall be carried out in India only to verify the compliance of the Technical Specification Such inspections/tests will be conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.</p> <p>For equipments manufactured in India & Abroad : - Inspection shall be carried out to verify the compliance of the Technical Specification Such inspections/tests will be conducted in the premises of the supplier or its subcontractor(s) or its ware house in India, all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.</p>

All other terms and conditions of the Bid Document shall remain unchanged.

ADDRESS FOR COMMUNICATION:

Group General Manager/MSM, RITES Ltd.,
RITES Office Complex, Annex Building,
4th Floor, Plot No. 144, Sector 44,
Gurgaon - 122003 (Haryana)-India
Tel: 0124 2728 422/409/410,
Fax: 0124 2571659/ 2571660
E mail: rites_naco@rediffmail.com

Schedule -1

Table top laboratory centrifuge

S.No.	Minimum Specification required
	Compact table top laboratory centrifuge with
1	Speed Regulator: Maximum speed required at least 4000 rpm with increment of at least 100 rpm
2	Safety Lid Lock
3	Digital Speed Meter
4	Timer for setting time between 0 to 60 with increment of at least 5 min
5	Rotor: Angled head with capacity for at least 3-8ml blood tubes fit <ul style="list-style-type: none"> o Adaptors Each With Capacity of 6 ml tube o Adaptors Each With Capacity of 8 ml tube.
6	Facility for level adjustment and firm base to prevent walking and provide assure stability while equipment is in use
7	Electrical compatibility: <ul style="list-style-type: none"> i. Must be compatible at 220 V, 50/60 Hz. ii. Power plug should fit on Indian system of electrical supply.
8	Should be able to accommodate minimum 12 tubes at one time.
9	The product must be CE (European)/ BIS approved.
	Other conditions:
10	The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs.
11	The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
12	Purchase reserves the right to subject the equipments for independent evaluation of performance.
13	The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
14	Company will be responsible for Training of lab staff on operation of equipments
15	Manuals: Operation, maintenance & part list with detailed specifications must be provided in original

Schedule -2**Vortex mixer with digital display**

S.No.	Minimum Specification required
1	Adjustable to 100 to 2500 rpm
2	Continuous and intermittent “touch-control” modes
3	Heavy cast-metal base and suction cup to assure stability prevent “walking”
4	220-230 Volts, AC, 50HZ
5	Digital Display :LED
6	Capacity of 2-3 kg and orbit of 35mm required
7	The product must be CE (European)/ BIS approved
	Other conditions:
8	The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs
9	The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
10	Purchase reserves the right to subject the equipments for independent evaluation of performance.
11	The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
12	Company will be responsible for Training of lab staff on operation of equipments
13	Manuals: Operation, maintenance & part list with detailed specifications must be provided in original

Schedule -3**Pipettes****Single channel (20-200ul)**

S.No.	Minimum Specification required
1	Single channel with variable volume
2	Volume Range: 20-200 ul
3	Dispensing Increment- 1 ul
4	Volume adjustment facility
5	Ejector
6	Volume display
7	Compatible for universal tips available in India.
8	Calibrated pipette to be supplied along with calibration certificate
9	Fully autoclavable
10	The product must be CE (European)/ BIS approved
	Other conditions:
11	Manuals: Operation and maintenance with detailed specifications must be provided in original
12	The supplier will provide 2 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs

Schedule -4

Pipette

Single channel (100-1000ul)

S.No.	Minimum Specification required
1	Single channel with variable volume
2	Volume Range: 100-1000 ul
3	Dispensing Increment- 1 ul
4	Volume adjustment facility
5	Ejector
6	Volume display
7	Compatible for universal tips available in India
8	Calibrated pipette to be supplied along with calibration certificate
9	Fully autoclavable
10	The product must be CE (European)/ BIS approved
	Other conditions:
11	Manuals: Operation and maintenance with detailed specifications must be provided in original
12	The supplier will provide 2 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs

Schedule -5

Biological safety cabinets (BSCs): Bio safety cabinets Class II, Type A2

S.No.	Minimum Specification required
1	Certification: It must be NSF (National Sanitation Foundation)/ANSI 49 certified/EN12469/BIS standard
2	Design and dimensions cabinet:
2.1	The exterior dimensions must be at least WxHxD (in mm) 1300 x 1500 x 750
2.2	The Interior dimensions must be at least WxHxD (in mm) 1200 x 630 x 600
2.3	The working height of front window must be at 8 to 10 inches and be made of laminated safety glass to ensure containment of potentially hazardous samples in the case of accidental glass breakage
2.4	The maximum height of front window opening must be between 500 to 600mm
2.5	The front of the cabinet must be angled 10° to help minimize glare on the window to the user.
2.6	Must be provided with comfortable armrest or V shaped air vent grill which should sit just above the intake grill to enable farther reach inside the cabinet without hampering safe airflows inside the cabinet working area
2.7	Must be one piece 304 stainless steel interior or better or equivalent.
2.8	Must have flat, single-piece stainless steel removable work tray preferably with seamless lift out knobs
2.9	Must be having epoxy-coated steel exterior
2.10	Must be with door- fully closing, clear ¼” tempered safety glass sash.
2.11	Must be supplied with Counter balanced adjustable (Preferably Electrical or manual if electrical not available) base stand of standard height for laboratory work.
2.12	Must be supplied with Combustible gas valve
2.13	Must be supplied with Non-combustible gas valve.
3	Electrical compatibility:
3.1	Must be compatible at 220 V, 50/60 Hz.
3.2	Power plug should fit on Indian system of electrical supply
3.3	A 3 KVA online UPS and 3 KVA voltage stabilizer must be supplied with the instrument which can withstand a continuous and stable voltage of at least 30 minutes in case of electrical breakdown of main supply.
4	Filters specifications:
4.1	H14 HEPA EN 1822, 99.995% MPPS (Most Penetrating Particle Size) or better
4.2	Must have Supply and exhaust HEPA filters.
4.3	Guage for monitoring the condition of all HEPA filters as well as work space
5	Air Circulation:
5.1	Airflow is drawn into the front grille of the cabinet, providing personnel protection
5.2	Inflow face velocity (open front) of at least 100 fpm.
5.3	Down flow velocity of minimum 55 fpm (0.3 m/sec)
5.4	Air flow pattern: 70% recirculation of air to the cabinet work area through HEPA file, 30% balance can be exhausted through HEPA filter into the canopy unit. Must have supply and exhaust air through HEPA filters
5.5	All the positive pressure contaminated plenums within the cabinet are surrounded by a negative air pressure plenum thus ensuring that any leakage from a contaminated plenum will be drawn into the cabinet and not released to the environment. Also the

S.No.	Minimum Specification required
	plenum to be under negative pressure to the room.
5.6	Motor for air circulation should be Dual DC & must automatically adjust the airflow speed (balancing inflow and down flow) without the use of a damper to ensure continuous safe working conditions.
5.7	Cabinet must be capable of automatically handling more 150% or more increase in pressure drop across the filter without reducing total air delivery >10%.
5.8	The cabinet must automatically reduce fan/blower motor speed to 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use
5.9	Canopy (Thimble) unit as per the NSF 49/ ANSI 49 certified/EN12469/CE/BIS guidelines for the Bio safety cabinets Class II, Type A2 must be provided. All the material, labour technical manpower etc. required is to be provided by the installation agency. The site may be inspected if needed after taking permission from head of department microbiology of the institute.
5.10	<p>LED/LCD display:</p> <ul style="list-style-type: none"> a) The microprocessor must display the inflow and down flow air velocities in real-time on an LED/LCD display b) Display showing hours of operation. c) Visual and audible alarm for showing front window working position safety. d) Visual and audible alarm for showing airflow safety.
6	Ergonomics:
6.1	Lighting power at least $\geq 1100lx$
6.2	Smart ports: Two 3 "plugged cable ports ,one on each side wall
6.3	Service valves up to 6 (three on each side wall)
6.4	Receptacles of 220V: two standard single receptacles located on rear wall, right and left sides
6.5	Should include a germicidal UV lamp. This UV lamp must be programmable to allow for specific exposure times from 0 to 24 hours.
6.6	The cabinet noise level must be less than 65 dBA
6.7	Cabinet must be installed at a working surface height of approximately 30 inch from ground with the adjustable channel stands which has adjustable legs and leg levelers. The legs should provide approximately 6 inch of height adjustment and the leg leveler should provide an additional 2.5 inch of height adjustment.
6.8	Must be supplied with two adjustable saddle stools
6.9	One footrest must be provided
7	<p>Installation, onsite validation and certification to be provided with testing as per “Field Certified in accordance with NSF/ANSI / BIS 49” and must meet the criteria as prescribed by NSF/ ANSI 49 certified/EN12469/CE/BIS for Bio safety cabinets Class II, Type A2. The certificate of successful installation will only be given after departmental technical committee satisfy with the for performance of onsite validation and certification tests as per standards mentioned in NSF/ANSI 49 document for the following parameters:</p> <ol style="list-style-type: none"> 1. HEPA filer leak test 2. Down flow face velocity

S.No.	Minimum Specification required
	3. Inflow velocity 4. Air flow smoke pattern test 5. cabinet integrity test (positive pressure plenum cabinets only) 6. site installation assessment tests which includes [alarm functions as required by NSF/ANSI 49 Standard, blower interlock and exhaust system performance (proper exhaust duct negative pressure and canopy and performance)]
	Other conditions:
8	The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs
9	The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
10	Purchase reserves the right to subject the equipments for independent evaluation of performance.
11	The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
12	Company will be responsible for Training of lab staff on operation of equipments
13	Manuals: Operation, maintenance & part list with detailed specifications must be provided in original

Schedule -6

Deep Freezer -20 ° C along with Voltage Stabilizer

S.No.	Minimum Specification required
1	Capacity 370-400 Lts or better
2	Microprocessor controlled vertical (upright) deep freeze (-20 ⁰ C) with adjustable 3-4 interior compartments/ adjustable shelves with preferably two internal doors
3	Digital display of temp with facility to set temp between -10 to -40 ⁰ C with 1 ⁰ C increment
4	CFC/HCFC free non-inflammable refrigerant
5	Polyurethane vacuum insulation with silicon gasket on doors for tight sealing
6	Double door with lockable outer door
7	Audio-visual alarm for temp. deviation, power failure, door open etc
8	Low noise level: ≤60 decibel 50Hz/230V
9	Minimum 3 star 2.0 ton split AC for optimal operation during the summer season with voltage stabilizer
10	Suitable voltage stabilizer
11	The product must be CE (European)/ BIS approved
	Other conditions:
12	The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs
13	The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
14	Purchase reserves the right to subject the equipments for independent evaluation of performance.
15	The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
16	Company will be responsible for Training of lab staff on operation of equipments
17	Manuals: Operation, maintenance & part list with detailed specifications must be provided in original

Schedule -7

Deep Freezer -80 ° C along with Voltage Stabilizer

S.No.	Minimum Specification required
1	One - 80 degree deep freezer system with temperature control/display
2	Temperature range: -50 to – 86 ⁰ C
3	Capacity cu ft/liters: 350 or more,
4	Cryobox Capacity 2'':230 or more
5	Max. shelf weight: 120lbs/65 kg or more
6	CFC/HCFC free non-inflammable refrigerant
7	Refrigeration Compressor HP: Two of minimum 1.0 HP each
8	Voltage: 230V, 50/60 Hz.
9	Heavy gauge, cold rolled steel cabinets with a powder coat paint finish for a uniform exterior that resists chipping and rust,
10	5'' (12.7 cm) foamed-in-place polyurethane insulation/ VIP insulation technology
11	Vacuum relief port/ pressure equalization port for easy access after door openings,
12	Easy to remove washable filter for protection from dust on the condenser and increasing refrigeration performance
13	Single hand operation with an easy-to-use padlock-compatible, ergonomic door handle with integrated key lock
14	Simplified installation with our new easy –roll 2'' locking casters,
15	Four inner doors to reduce cold air loss and improve temperature recovery after door openings,
16	Microprocessor control and monitoring system to ensure that all controls and displays are easy to reach and read, power management system with low voltage surge protection and buck/boost,
17	Safety-backup systems for additional sample protection in the event of power or mechanical failure.
18	Suitable voltage stabilizer to be supplied to support the instrument
19	Minimum 3 star 2.0 ton split AC for optimal operation during the summer season with voltage stabilizer
20	The product must be CE (European)/ BIS approved
	Other conditions:
21	The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs
22	The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
23	Purchase reserves the right to subject the equipments for independent evaluation of performance.
24	The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
25	Company will be responsible for Training of lab staff on operation of equipments
26	Manuals: Operation, maintenance & part list with detailed specifications must be provided in original

Schedule 8

Refrigerator

S.No.	Minimum Specification required
1	Type : Single Door
2	Refrigerator Type: Top Freezer Refrigerator
3	Defrosting Type : Direct Cool
4	Refrigerant : CFC/HCFC free non-inflammable
5	Compressor Type: Reciprocatory Compressor
6	Capacity : 230±10 L
7	Number of Doors: 1
8	Star Rating : 5
9	Coolpad : Yes
10	Toughened Glass : Yes
11	Built-in Stabilizer : Yes
12	Express Freezing : Yes
13	Moisture Control : Yes
14	Other Performance Features : 12 hrs Cooling Retention During Power Cuts, Advanced Moisture Control
15	Clock : No
16	Door Lock : Yes
17	Removable Gasket: Yes
18	Warranty Summary: 1 Year on Refrigerator & 10 Years on Compressor
	Other conditions:
19	The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs
20	The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
21	Purchase reserves the right to subject the equipments for independent evaluation of performance.
22	The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
23	Company will be responsible for Training of lab staff on operation of equipments
24	Manuals: Operation, maintenance & part list with detailed specifications must be provided in original
25	The product must be CE (European)/ BIS approved