



महर्षि दयानन्द सरस्वती विश्वविद्यालय, अजमेर

NIT-70

तकनीकी रिपोर्ट

2026\_MDSUA-553629-1

विश्वविद्यालय में विभिन्न शैक्षणिक विभागों हेतु मशीन/उपकरण (विश्वविद्यालय बजट से) क्रय किये जाने बाबत जाशी ई. निविदा सूचना संख्या 70 दिनांक 22.04.2026 के क्रम में तकनीकी समिति की बैठक दिनांक 14.05.2026 को आयोजित की गई। इस सम्बन्ध में निम्नानुसार फर्मों से प्राप्त निविदा प्रपत्र के क्रम में टेकनीकल बिड की टर्म एण्ड कण्डीशन एवं स्पेसिफिकेशन के अनुसार तुलनात्मक विवरण निम्नानुसार है:-

क्र.सं.	विवरण	शैसर्स साइंस पैलेस, अजमेर		शैसर्स एस.पी. बायोटेक, जयपुर	
		1.	2.	1.	2.
1.	Bid Fee Deposited	Rs. 5000/-			
2.	Bid Processing Fee Deposited (Only for E-Bid)		596788/8.5.2026		035671/11.5.2026
3.	Bid Security Deposited	Rs. 2000/-	551135/8.5.2026		035672/11.5.2026
4.	Bid Document and Terms & Conditions duly singed	Rs. 268540/-	596787/8.5.2026		035670/11.5.2026
5.	Annexure - A,B,C,D of Bid Document Duly Signed		Yes		Yes
6.	Annexure E (Declaration by bidders)		Page No. 53-56		Page No. 24
7.	Annexure F - Price Charging Certificate		Page No. 57		Page No. 23 & 40
8.	Annexure -G -Agreement Format		Page No. 58		Page No. 23 & 41
9.	Annexure-H - Certificate by Bidders - For compliance of Finance Department Rajasthan Order No. F2(1)FD/G&T/SPFC/2017 Dt 15.1.21		Page No. 59		Page No. 22
10.	Annexure I - Undertaking to be submitted by Principal Manufacturer		Page No. 60		Page No. 42
11.	Annexure - J - बिडदाता के व्यापार का विवरण		Page No. 61		Page No. 20
12.	Annexure - K - बिडदाता के बैंक खाते का विवरण		Page No. 62		Page No. 43
			Page No. 63		Page No. 44

↓

Q

SP

13.	Annexure - N & P - Format for Technical Compliance Sheet	Page No. 67-70	Page No. 47 & 49
	Annexure Q - Format for Financial Compliance Sheet	Page No. 66	Page No. 45, 115, 116
	Annexure L - GST Registration Certificate & Declaration	Page No. 65, 76-78	
	Photocopy of Firm/Bidder's PAN Card	Page No. 74	
14.	Annexure O - Brochures, Literatures, Certificates as demanded in Technical Specifications Sheet	Yes	Yes
15.	1. Attested copy of partnership deed in case of partnership firm. 2. Registration number and year of registration in case partnership firm is registered with registrar of firm. 3. Address of residence and office telephone numbers in case of sole proprietorship. 4. Registration issued by Registrar of companies in case of company.	Page No. 75 & 80-84	Page No. 116, 118, 121
16.	Annexure M - Average annual turnover (No Final Account) of the bidder should be at least 100% of estimated cost of tender for the previous three financial years certificate of CA required	Page No. 66, 85-86	Page No. 114
17.	GST Clearance	Page No. 87-90	Page No. 115 & 116
18.	Balance Sheet	Page No. 93-106	Page No. 109-113
	पान / अपान	पान	पान

नोट:-

1. स्पेसिफिकेशन रिपोर्ट संलग्न।
2. तकनीकी रिपोर्ट के आधार पर वित्तीय बिड खोली जायेगी।
3. फिफ्टा+स. 70 वें डिप्लोम SLR समु, Potary Vaccum Evaporator तैर Thermo/Thene ग्रेपुलर समु व तैर वी. फिफाठ गैरुव तैरुव।

Prof. Arvind Pareek

Prof. Subhash Chandra

Asstt. Registrar (GAD)



महर्षि दयानन्द सरस्वती विश्वविद्यालय, अजमेर

क्रमांक: एफ.2( )सा.प्र/मदसविवि/2026/

दिनांक: 29.06.2026

आवश्यक सूचना

विश्वविद्यालय द्वारा जारी निविदा सूचना संख्या 69 दिनांक 22.04.2026 (UBN No. MDU2627GLOB00001) जो कि विश्वविद्यालय के विभिन्न शैक्षणिक विभागों में मशीन/उपकरण एवं निविदा सूचना संख्या 70 दिनांक 22.04.2026 (UBN No. MDU2627GLOB00002) क्रय किये जाने हेतु जारी की गई थी, के क्रम में तकनीकी रिपोर्ट [www.mdsuajmer.ac.in](http://www.mdsuajmer.ac.in) एवं राज्य सरकार की वेब साइट [sppp.rajasthan.gov.in](http://sppp.rajasthan.gov.in) एवं <http://eproc.rajasthan.gov.in> पर दिनांक 29.06.2026 को अपलोड कर दी गई है। अतः इस सम्बन्ध में यदि निविदादाता फर्म को कोई आपत्ति हो तो दिनांक 30.06.2026 को अपराह्न 2.00 बजे तक ऑन लाईन सूचित करें।


— ६० —  
सहायक कुलसचिव (सा.प्र.)

क्रमांक: एफ.2( )सा.प्र/मदसविवि/2026/

दिनांक: 29.06.2026

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. ए.सी.पी., मदस विश्वविद्यालय, अजमेर को को उक्त की प्रति प्रेषित कर लेख है कि इसका प्रकाशन विश्वविद्यालय की ऑफिशियल वेब साइट [www.mdsuajmer.ac.in](http://www.mdsuajmer.ac.in) एवं राज्य सरकार की वेब साइट [sppp.rajasthan.gov.in](http://sppp.rajasthan.gov.in) एवं <http://eproc.rajasthan.gov.in> पर करवाने का कष्ट करें।
2. कुलगुरु सचिवालय/निजी सहायक-कुलसचिव/निजी सहायक-वित्त नियंत्रक, मदसविवि, अजमेर।

  
सहायक कुलसचिव-सा0प्र0

Technical Comparison

ITEM NAME- Agarose Gel Electrophoresis - 3

S.No.	Technical Specification	The Science Palace Rabrotech	SP Biotech Genie
1	Horizontal (Midi Gel system) Basic unit with Lid (1.No).	Yes	Yes
2	Platinum electrode fixed (2nos).	Yes	Yes
3.	Inner Tank Dimension 215x141x55 mm	No	Yes
4	No. of Trays 130x130mm 1 No	Yes	Yes
5	130x65mm 2 Nos.	No	Yes
	65x60 mm 4 Nos	No	Yes
	No. of combs 13 well analytical acrylic comb	Yes	Yes
	1.5 mm thick x1 No	No	Yes
	8 well analytical acrylic comb	Yes	Yes
	1.5mm thick x 4 nos	No	Yes
	3 well preparative acrylic comb 3mm thick x1 no.	Yes	Yes
	No. of gel casting tray : 1 universal	Yes	Yes
	connecting cord : red and black (1 each) No. of platinum electrodes: red and black ( 1 reach)	Yes	Yes
	<b>Whether qualified or Not</b>	<b>NO</b>	<b>YES</b>

sq

↓

Q

## Technical Comparison

**ITEM NAME- High speed refrigerated Centrifuge**

S.No.	Technical Specification	The Science palace Neya (REMI) 16R	SP Biotech Kinglab
		Yes	Yes
1	Digital display.	Yes	Yes
2	Max speed 16000 rpm with rotor of Tube size 24 x 2ml.	Yes	Yes
3	Table Top High Speed Refrigerated Centrifuge.	Yes	No, 6x100 ml
4	Capacity 4 x 175 ml.	Yes	Yes
5	Maximum speed 16.000 rpm.	Yes	Yes
6	Automatic rotor detection.	Yes	No
7	Check of presence of accessories.	Yes	Yes
8	Compatibility with maximum speed with 24 X 2ml angle rotor head with tubes.	Yes	Not Clear
9	Safety speed limiter function.	Yes	Yes
10	10 storable programs with protection function .	Yes	Yes
11	Setting of speed in RPM and RCF.	Yes	No
12	Short Spin function and precool.	Yes	Yes
13	Temperature range from -10°C to +40°C.	Yes	Yes
14	Controlled by microprocessor and backlit color LCD display with contemporary visualization of all parameters with Bi directional encoder for setting.	Yes	No
15	Digital adjustment of acceleration and deceleration levels .	Yes	No (Nano ceramic)
16	Stainless steel internal bowl with optimal height for load and download of samples .	Yes	Yes
17	Imbalance detection system with automatic functioning stop to avoid accidents.	Yes	No
18	Automatic locking system of the lid, safety opening of the lid in case of absence of electric power .	Yes	Yes
19	Brushless motor maintenance free and no deposits of carbon.	Yes	Yes
20	Timer setting in MM:SS or continues mode.	Yes	No, <60db
21	Noise level 55db or lesser.	Yes	No
22	European CE/USFDA, WHO, GMP ISO 9001, ISO 13485 & IVD conformity	Yes	
23	Eppendorf/Thermo/ REMI or equivalent make	Yes	No
	<b>Whether qualified or Not</b>		

*[Handwritten signature]*

*[Handwritten mark]*

*[Handwritten mark]*

**Technical Comparison**

**ITEM NAME- Table Top Centrifuge**

S.No.	Technical Specification	The Science Palace	SP Biotech
	<b>Literature</b>	Yes	<b>No literature to verify Only self-technical sheet attached</b>
1	6000 rpm for 6x100mL	Yes	Yes
2	Automatic rotor detection.	Yes	Not mentioned
3	Check of presence of accessories and compatibility with maximum speed.	Yes	Not mentioned
4	Safety speed limiter function.	Yes	Not mentioned
5	Controlled by microprocessor.	Yes	Yes
6	Backlit color LCD display with contemporary visualization of all parameters.	Yes	Not mentioned
7	Digital adjustment of acceleration and deceleration levels.	Yes	Not mentioned
8	Compact sizes to optimize the space in laboratory.	Yes	Yes
9	Stainless steel internal bowl with optimal height for loading and unloading of samples.	Yes	Not mentioned
10	Imbalance detection system with automatic functioning stop to avoid accidents.	Yes	Yes
11	Automatic locking system of the lid.	Yes	Yes
12	Safety opening of the lid in case of power failure.	Yes	Yes
13	Brushless motor maintenance free and no carbon deposits.	Yes	Yes
14	Construction in accordance with European directives.	Yes	No
15	55db or less noise.	Yes	Yes
16	Setting of speed in RPM and RCF.	Yes	Not Mentioned
17	Short Spin function.	Yes	Not mentioned
18	Voltage stabilizer as per the requirement of the equipment.	Yes	Yes
19	Directive/standard: IEC 61010-1 ; IEC 61010-2-020	Yes	No
20	EUROPEAN CE/USFDA, WHO GMP ISO 9001, ISO 13485 & IVD Conformity	Yes	No
	<b>Whether qualified or Not</b>	<b>Yes</b>	<b>NO</b>

*sp*

*↓-s*

*(A)*

## Technical Comparison

### ITEM NAME- Portable CO Monitor

S.No.	Technical Specification	The Science Palace
1	130mm x 67 mm; 450g with batteries.	160x55x40 mm
2	Standard: Carrying case battery charger with optional aspirator adaptor.	<b>Carrying case shall be supplied</b>
3	Measurement range:0-100ppm.	Yes
4	Liquid Crystal Display.	Yes
5	Standard Alarm Level at LTV.	Yes
6	Optional alarm as per specification.	
7	Alarm indication:	Yes
	Pulsating/continuous red LED with audible.	No
	90 db at 1 meter.	No
8	Standard battery: Rechargeable 4 x AA cells.	<b>Shall be Supplied</b>
9	Optional: Disposable with 12-15 h continuous battery life.	Yes
10	Operational conditions: -10 °C to 50 °C;0-95% RH, non-condensing Accuracy +/- 1% FSD, 0.1 ppm resolution, response time T90 <40 sec	<b>90% RH, Accuracy1.5% , Resolution 1PPM</b>
11	Setting:	
	Zero/span accessible from outside.	Not Clear
12	Electrochemical sensor with a maximum of 2 years life in fresh air.	Not Clear
13	In board filter to remove H2S, SO2 and acid gases.	Not Clear
14	Tested for intrinsically safe as per IS 5780-2002 {IEC-60079-11 (1999)}.	Not Clear
15	Tested for performance as per IS 9000 (ERTL West).	Not Clear
16	Approved for Eex ia IIC T4/T6; CCE approval No. A/P/HQ/MH/104/518(P55545)	Not Clear
	<b>Whether qualified or Not</b>	NO

Sp

↓-4

①



# महर्षि दयानन्द सरस्वती विश्वविद्यालय, अजमेर

## INSTRUMENT REPORT AS PER SPECIFICATION

Name of Instrument : Constant Temperature Refrigerated Bath with Water Circulator

S. No.	Technical Specification	M/s The Science Palace, Ajmer	M/s S.P. Biotech Jaipur
		Whether as per specification Yes/No	Whether as per specification Yes/No
1	Temp. Range 5°C to 90°C Temperature with accuracy 0.1°C,  Fitted with stirrer and speed regulator, Digital Temperature Controller Cum Indicator, Double Walled Inside Chamber of Stainless Steel Size: 500x250x250mm	Yes, <b>Temp Range shall be upto 90° with accuracy ±1°C,</b> <b>Yes Stirrer can be seen in image</b> Yes Yes  457 x 304 x 304 mm	Yes, <b>but accuracy ±0.1°C</b>  Not Mentioned Yes Yes  Yes
Whether qualified or not		Yes	Yes

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

## Technical Comparison

### ITEM NAME- Top Pan Digital Electronic Balance

S.No.	Technical Specification	The Science Palace Aczet CY 224	SP Biotech WeighPro India WP-T2204C
1	Fully automatic.	Yes	Yes
2	Accuracy 0.0001 g.	Yes	Yes
3	Capacity 220 g.	Yes	Yes
4	Repeatability: 0.0001g	Yes	Yes
5	Linearity 0.2 mg.	Yes	Yes
6	Dye cast aluminum design.	<b>We Confirm</b>	Yes
7	Self-calibration according to change in temperature.	Yes	Yes
8	Spacious draft shield interior with ambidextrous operation.	<b>Yes, wind draft sheet</b>	Yes
9	Pan size 90 mm.	Yes	<b>80 mm</b>
10	Response time 2-3 sec.	Yes	Yes
11	Internal and External calibration.	Yes	Yes
12	GLP/GMP standard clock with date and time	Yes	Yes
13	High contrast backlit liquid crystal display .	Yes	<b>Touch Display</b>
14	High resolution weighing cell with optimized electronic control.	<b>Yes Inbuilt</b>	Yes
15	USB device and RS232N24 bi-directional interface as standard.	Yes	Yes
16	Multi-user memory (MUM) to be provided complete with suitable AC adapter and with operation manual to have following functions		
	Pipette Calibration	No	Not mentioned
	Density determination optional	Yes	Not mentioned
	Variety of measurement units	Yes	Yes
	Multi-level back weighing	No	Not mentioned
	Minimum sample weight (MSW) according to USP	Yes	Not mentioned
	Automatic Reproducibility Test	No	Not mentioned
	Dynamic weighing and dynamic differential weighing (weighing on ship)	Yes	Yes
	Buoyancy Error Suppression Technology	<b>This is of particular company only</b>	Not mentioned
17	Certificates required ISO certified, CE certified, USP certified, ISI marked	Yes	No
	<b>Whether qualified or not</b>	Yes	Yes

*SPP*

*↓ to*

*①*

**Technical Comparison**

**ITEM NAME- Digital combined electrode pH meter**

S.No.	Technical Specification	The Science Palace Systronics	SP Biotech Kinglab
1	Microprocessor control, auto temp compensation.	Yes	Yes
2	pH.000 to 14.000 accur. 0.002, with extra electrodes.	Yes	Yes
3	ISO certificate	Yes	Yes
4.	Up to five-point calibration	<b>shall be supplied with Five-point calibration</b>	<b>Three-point calibration</b>
5.	0.001 pH resolution	Yes	<b>No- 0.01</b>
6.	mV range 0 ± 1999.9	Yes	Yes
7.	Temp compensation auto/manual	Yes	Yes
	Whether qualified or not	<b>Yes</b>	<b>NO</b>

*sq*

*↓ to*

*Q*

**Technical Comparison**

**ITEM NAME- Double Stage Rotary High Vacuum Pump**

S.No.	Technical Specification	The Science Palace Kheda	SP Biotech Promivac PV2-500
1	500 Litre /Minute	Yes	Yes
2	With 3 HP Motor	<b>shall be supplied with 2 HP Motor</b>	<b>2 HP</b>
	<b>Whether qualified or not</b>	<b>Yes</b>	<b>Yes</b>

sp

↓

①

**Technical Comparison**

**ITEM NAME- Electrophoresis Power Supply**

S.No.	Technical Specification	The Science Palace		SP Biotech Genie 12-06
		Biolinkk	Rabrotech	
1	Volt 0-500 volt with increment of 10 volt.	Yes	No 0-300	YES
2	Multiple output Power Supply to cover wide range of electrophoresis and blotting applications, such as DNA and RNA Agarose electrophoresis and polyacrylamide electrophoresis, Southern, Northern and Western Blotting etc.	Yes 4 Channels	Yes 4 Channels	Yes 3 channels
	<b>Whether qualified or not</b>	<b>Yes</b>	<b>NO</b>	<b>Yes</b>

*Sg*

*de*

*(1)*

**Technical Comparison**

**ITEM NAME- Garmin GPS**

S.No.	Technical Specification	The Science Palace Etrex 10
1	Water Rating : IPX7	Yes
2	Battery 2AA Batteries	Yes
3	Battery Life : 20 Hours	Yes
4	Display Resolution 160x240 Pixels	<b>available 128x160 Pixels</b>
	Whether qualified or not	Yes

*sp*

*V-d*

*(1)*

**Technical Comparison**

**ITEM NAME- Deep Freezer (Ultra low Vertical)**

S. No.	Technical Specification	The Science Palace		SP Biotech	
		Remi	Khera	Trufrost	Tanco
	Literature	Yes	Yes	No literature to verify Only self-technical sheet attached	No literature to verify Only self-technical sheet attached
1.	Ultra Low Deep Freezer Vertical with variable temperature. Capacity 200 L or more.	Yes	Yes	Initially Catalogue was not provided. Clarification meeting was only to seek clarifications regarding points which were not cleared in tender documents. At this stage no fresh document/Catalogue can be accepted.	
2.	Quick freezing function	<b>Inbuilt</b>	<b>Not Mentioned</b>		
3.	Microprocessor based Temperature controller	Yes	Yes		
4.	Digital display of set and actual temperature with alarm	Yes	<b>No alarm</b>		
5.	Adjustable shelves with sealed drawers	Yes	<b>No</b>		
6.	Power consumption $\leq 0.88$ units /24h	<b>shall be less than 0.88 units</b>	<b>Not Mentioned</b>		
7.	Non CFC refrigerant.	Yes	Yes		
8.	High efficiency heavy duty compressor	<b>Yes, with heavy duty compressor</b>	<b>Not Mentioned</b>		
9.	Temperature adjustable upto -25°C or less.	<b>temperature up to -20 °C</b>	<b>-20 °C</b>		
10	PUF insulation upto 80 mm thick to minimize heat loss	Yes	Yes <b>Thickness not mentioned</b>		
11	Corrosion free stainless-steel interior and enamel finish exterior.	Yes	Yes		
12	Power 200-240V, 50/60Hz	<b>Yes</b>	<b>Not Mentioned</b>		
13	Principal Manufacturer must have ISO 9001, European CE, WHO GMP, ISO 13485 and IVD conformity. Certificate to be attached.	Yes	Yes		
14	<b>Whether qualified or not</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>

Sp

Verd

Q

**Technical Comparison**  
**ITEM NAME- Laminar Air Flow Bench(Horizontal)**

S. No.	Technical Specification	The Science Palace Rescholar RH-58-14	SP Biotech Tanco PLT-270
1	Pre-filter	Yes	Yes
2	HEPA filter High efficiency particulate air filter	Yes	Yes
3	Particles of 0.3 $\mu$ m should be removed by more than 99.995%.	Yes	Yes
4	Differential pressure gauge	Yes	Yes
5	Controller All the operations should be controlled with one controller	Yes	Yes
6.	Electrical receptacle & Utility valve: Electrical receptacle with safety cover utility valves for installation of gas, air, water and vacuum.	Yes	Yes
7	Leveling caster with stopper function	Yes	No
8	Ergonomic design	Yes	Yes
9.	<u>Specification</u>		
	Certification CE, DNB	Yes	Yes
	Pre Filter Nylon Filter	Yes, with Nylon filter	Yes
	Noise Level (db) $\leq$ 65 db(A)	Yes	Yes
	Safety alarm System UV timer	Yes	Yes
	Power Supply 220V, 50/60 Hz	Yes	Yes
	FL Lamp 36 W x 1EA / 36 W x 2EA	Yes	Yes
	UV Lamp 20 W x 1EA / 30 W x 1EA	Yes	Yes
	Power Receptacle 1 EA / 2EA	Yes	Yes
	Utility Value 1 EA (Vacuum)	Yes	Yes
	Differential Pressure Gauge 0	Yes	Yes
	Option Additional service valves (gas, air, water) Utility hole	Yes	Yes
	Material – Internal (worktop) Stainless Steel 304	Yes	Yes
	Material – (External) SPCC/AL with epoxy powder coated	Yes	Yes
	Average down flow velocity (M/S) 0.3 – 0.4 (variable set speed)	Yes	Yes
	Filter Efficiency Hepa filter > 99.995 at 0.3 $\mu$ /ISO Class 5	Yes	Yes
	Size 120x60x60cm	Yes	Yes
10	CE/DNB certificates	Yes	Yes
	<b>Whether qualified or Not</b>	<b>Yes</b>	<b>Yes</b>

Sp

✓

①

**Technical Comparison**

**ITEM NAME- Gel Documentation System**

S.No.	Technical Specification	The Science Palace Imagene	SP Biotech Gel.luminex
1	Optical Bandpass :590 nm	Yes	Yes
2	Camera Progressive Scan CCD (1280x960 Pixels)	<b>Better 3072x2048</b>	Yes
3	Image Resolution 37 $\mu$ m/pixel at full zoom	Yes	Yes
4	Rolled out Transilluminator Epi illumination should be there	Yes	Yes
	<b>Whether qualified or not</b>	Yes	Yes

9

✓

①

**Technical Comparison**

**ITEM NAME- Hawke Nature Track/ Night Vision Binocular**

S.No.	Technical Specification	The Science palace
1	High Quality Night Vision Binocular	<b>Night vision Monocular quoted since binocular is very costly beyond budget</b>
2	Magnification (x) :8	<b>6X</b>
3	Objective Diameter (mm)42	<b>Yes 50 mm</b>
4	Angular field of view (Real/Degree):8	<b>6.8</b>
5	Angular field of view (Apparent/ Degree) 58.4	<b>FOV at 100m -6.8m</b>
	<b>Whether qualified or not</b>	<b>NO</b>

Sf

LSK



**Technical Comparison**

**ITEM NAME- Humidifier CO2 Incubator**

S.No.	Technical Specification	The Science palace	SP Biotech
		<b>Khera</b>	<b>Tanco LT146A</b>
1	Polished Stainless-steel chamber	Yes	Yes
2	CO <sub>2</sub> Concentration Range (0 to 20%)	Yes	Yes
3	External Humidity reservoir	<b>Yes</b>	<b>Yes</b>
4	Relative Humidity (Ambient to 95%)	Yes	Yes
5	Controllable Temperature range (metric) ambient + 5° to 50°C	Yes	Yes
6	Dimension (DXWXH) Interior 20.6x28.8x32.8 in (52.3x73.2x83.8 cm)	<b>Yes</b>	<b>50x50x65 cm</b>
7	<b>323 L Capacity</b>	<b>Yes</b>	<b>340 L</b>
	<b>Whether Qualified or Not</b>	<b>Yes</b>	<b>Yes</b>

*sq*

*↓* *Q*

Technical Comparison

**ITEM NAME- Ice Flaking Machine**

S.No.	Technical Specification	The Science Palace Bioilink BL-IMS-50	SP Biotech Kinglab KLIF 30
1	Capacity 50 Kg/24 Hours	Yes	In clarification bidder mentioning to provide 50 Kg/24 Hours but as per catalogue this model has capacity 30 Kg/24
2	Outer One and Inner made of SS 304	Yes	Yes
3	PUF Insulated storage bin, with non-metallic door at the top of bin	Yes with bin	Not mentioned
4	Cooling system with hermetically sealed compressor (CFC Free ) and condenser	<b>compressor is CFC Free</b>	Yes
5	Automatic cut off device ambient up top 27°C workable on 230 Volts	<b>Yes shall be provided</b>	Not mentioned
	<b>Whether Qualified or Not</b>	Yes	No

*[Handwritten signature]*

*[Handwritten mark]*

*[Handwritten mark]*

**Technical Comparison**

**ITEM NAME- Incubator Shaker**

S.No.	Technical Specification	The Science Palace		SP Biotech
		Biolink BL- OSIH -1000	Khera KI-215	Tanco PLT 114
1	Flask Holding 500 ml x16 Flasks	Not possible	Not possible	250 ml X 24 100 ml X 36 Any one set
2	Laboratory Temperature Range	Yes	Yes	Not Mentioned
3	Ambient Plus 5 to 60° C	60° C	60° C	Not Mentioned
4	Shaking Speed Range 20-300 rpm	No, 50-250 rpm	No, 50-250 rpm	No, 20-250 rpm
5	Body Material Steel	Yes	Yes	Yes
<b>Whether Qualified or Not</b>		No	No	No

29

Notes

Q



# महर्षि दयानन्द सरस्वती विश्वविद्यालय, अजमेर

## INSTRUMENT REPORT AS PER SPECIFICATION

Name of Instrument : Laboratory Water Purification System with double distillation unit

S. No.	Technical Specification	M/s The Science Palace, Ajmer	M/s S.P. Biotech Jaipur
1	Built-in RO membrane fouling prevention program,	<b>Not Quoted</b>	<b>RO Memb.</b>
	RO membrane cleaning manual button; with double distillation unit		<b>Yes</b>
	water shortage protection alarm,		<b>Yes</b>
	Power-off protection;		<b>Not Mentioned</b>
	IC microcomputer intelligent control,		<b>Not Mentioned</b>
	built-in automatic cycle timing of ultra pure water to maintain the water quality of ultra pure water;		<b>Cycle Timing Not Mentioned</b>
	Water resistance on-line monitoring Upgrade function for the quality and quantity of outlet water.		<b>Yes</b>
<b>Whether qualified or Not</b>	<b>No</b>	<b>Yes</b>	

SP

✓= Q

**Technical Comparison**

**ITEM NAME- Microprocessor Based Flame Photometer**

S.No.	Technical Specification	The Science Palace		SP Biotech Labex HFP- 1600G
		Systronics	Biolink	
1	With Na,K Ca, Li Filters	Yes	Yes	Yes
2	3 Point calibration direct read out results in ppm or mg/L	Yes	Not Mentioned	Yes
3	Auto Filter Selection	Yes	Not Mentioned	NO
4	LED Display	Yes	Yes	Yes
5	Compressor and accessories	Yes	Yes	Yes
<b>Whether Qualified or Not</b>		<b>Yes</b>	<b>No</b>	<b>No</b>

SP

↓ 1

Q

**Technical Comparison**

**ITEM NAME- Spectrophotometer**

S.No.	Technical Specification	The Science palace Lab India UV 3092	SP Biotech Jasco V-750
1	UV-VIS Double beam with variable bandwidth and computer attachment and software.	Yes	Yes
2	The instrument should be True Double beam with Czerny-Turner & holographic grating fully controlled by computer.	Yes	Yes
3	Operative range of the instrument should be 190-900nm.	Yes	Yes
4	System must have PMT detector to cover entire wavelength range.	Yes	Yes
5	It should have continuously variable bandwidth from 0.5 nm-5 nm.	Yes	No, not continuous, only 0.5 , 1, 2, 5 and 10 (Clarification letter stating this but manufacturer literature does not support this feature )
6	The Source should be Deuterium and Tungsten lamp with selectable switching facility.	Yes	As per clarification bidder will provide Deuterium and Tungsten lamp
7	System must have Photometric Range from -4 to 4 Abs.	Yes	Yes
8	System must have wavelength accuracy of $\pm 0.5$ nm or better.	Yes	Yes
9	System must have Stray Light should be $<0.05\%T$ at 220nm and 370nm for NaNO <sub>2</sub> .	Yes	Yes
10	System must have Baseline Flatness of 0.003 A or Better.	Yes	Yes
11	Noise Level of the instrument should be 0.0004 Abs or Better.	Yes	Yes
12	It should have wavelength programming with more than or equal to 8 wavelengths and should get selected during single spectral run.	<b>It has wavelength programming more then 20 wavelength</b>	<b>Yes, as per clarification</b>
13	System must be quoted with 10mm quartz cell for routine sampling.	Yes	Yes
14	Installation and training to the user to be provided by the vendor.	Yes	Yes
15	System should be quoted with Computer and Printer.	Yes	Yes

*SP*

*✓*

16	Warranty 1 year	Yes	Yes
17	Firm have ISO Certification	Yes	Yes
<b>Whether Qualified or Not</b>		<b>Yes</b>	<b>No</b>

84

W-1

①



## Technical Comparison

**ITEM NAME- Microscope (Phase Contrast with Microphotographic Attachment)**

S.No.	Technical Specification	The Science palace		SP Biotech
		Magnus MLXI PluS Trinocular version	Rescholar	Labesx-C3
1.	Trinocular version standard set complete with binocular seidentopf head.	Yes	Yes, But Seidentopf shown in Image	Yes, But Seidentopf Head shown in Image
2.	In-built 6v 20w halogen light illuminator with anti-fungus.	Yes	QLED 3.5 W	3 watt LED
3.	Plan achromatic objectives 4x, 10x, 40x (spring) & 100x (oil, spring).	Yes  Yes 4x shall be supplied	10 X and 40 X not mentioned	Yes
4.	Set of PC objectives 10x, 40x, 100x	Yes	Yes	Yes
5.	Paired eyepieces wide field 10x (F. N. 20).	Yes	Yes	Yes
6.	Optics providing image flatness.	<b>It has image flatness</b>	Not mentioned	Yes
7.	Observation head for individual choice of adjustment.	Yes	Yes	Yes
8.	Anti-fungus treatment for component durability.	Yes	Yes	Yes
9.	High eye-point design eyepiece (F. N. 20), interchangeability of objectives.	Yes	Yes	Yes
10.	The ABBE condenser & the light relay system fitted with high performance aspheric lenses for bright & uniform illumination.	Yes	Yes	Yes
11.	Window in arm & the ergonomic design for user convenience.	Yes	Yes	Yes
12.	Illumination system through SMPS circuit for constant voltage output.	<b>It is through SMPS only</b>	SMPS not mentioned	Yes, a per clarification
13.	Stage for durability and ease of use.	Yes	Yes	Yes
14.	Mechanical stage focus-lock prevents mishaps.	Yes	Yes	Yes
15.	Component security – student proof.	<b>Security system</b>	Not mentioned	Not quoted with tender, in

		<b>provided</b>		<b>clarification stating about providing. No additional literature can be accepted at this stage.</b>	
16.	CMOS Sensor: MT9J001 Color.	Minimum 1/2.3"	Yes		No Literature
17.	Sensor Resolution, Pixel Size $\geq 3584 \times 2748$ , 10.0 M pix	$\geq 1.67 \mu\text{m} \times 1.67 \mu\text{m}$ :	Yes		No Literature
18.	Sensitivity: 0.34V/ Lug-sec 550nm	Minimum	<b>Yes Software feature</b>		No Literature
19.	A/D Conversion:	10-32.64bit	<b>Yes Software feature</b>		No Literature
20.	S/N Ratio:	Maximum 34dB	Yes		No Literature
21.	Exposure Time:	0.4-2000ms	Yes		No Literature
22.	Frame Rate: 1.9fps@3584x2748; 27fps@896x684		Yes		No Literature
23.	Spectral Response: IR Filter	380-650nm with	Yes		No Literature
24.	Readout Noise:	Maximum 12 e-	<b>Yes Software feature</b>		No Literature
25.	Scan Mode:	Progressive Scan	<b>Yes Software feature</b>		No Literature
26.	Shutter:	Electronic	<b>Yes electronic</b>		No Literature
27.	Optical Interface:	C/CS mount	<b>Yes C/ CS Mount</b>		No Literature
28.	Data Interface: / sec)	USB2.0 (480 M bite	Yes		No Literature
29.	Power Supply:	DC 5V $\pm$ 5%	Yes		No Literature
30.	Power Consumption:	Approx. 2W	<b>2Watt or less</b>		No Literature
31.	Operating Temp:	0°C ~ 60°C	Yes		No Literature
32.	Software:	MagCam	Yes		No Literature
33.	Operation System:	Windows based	Yes		No Literature
34.	File Format	Exposure	<b>Yes</b>		No Literature
35.	Images Histogram, Real-time View	Capturing/ Video,	Yes		No Literature
36.	Capture: Brightness, Contrast, Gamma, RGB, Hue, Saturation Adjustment, Image Gray, Remove Noise, Sharpen, Smooth, Rotate		<b>Yes Camera Feature</b>		No Literature
37.	Processing: Point, Distance, Polaiea, Rectangle,		<b>Yes Camera</b>		No Literature

Sf

↓-h

①

	Ellipse, Circle, Arc, Angle, Continuous Annotation, Live, Measurement, Calibration, Save Calibration Data, Excel Output.	<b>Feature</b>		
38.	ISO and CE Certified	Yes	Yes	Yes
<b>Whether Qualified or Not</b>		<b>Yes</b>	<b>No</b>	<b>No</b>

sp

u=

ⓐ

## Technical Comparison

### ITEM NAME- IT-enabled podium

S.No.	Technical Specification	The Science palace Rescholar
1	Provision to equip following Equipment BUILT IN ALL IN ONE, TOUCH, Gooseneck Mike, Laptop on Rack.	<b>Yes in Image</b>
2	Lock & key system with cupboard size of 3x3 feet.	Yes
3	Side rack with lock & key for future provision.	Yes
4	Customize MS good quality with Powder Coating finish.	Yes
5	With moving facility, Required Hydraulic Cable Cubby with 2 power socket.	Yes
6	VGA IN, HDMI IN, USB.	Yes Computer feature
7	Composite / Component Video In, LAN Port etc.	Yes Computer feature
8	Approved make: Customized as per Site requirements.	Customized
9	With Gooseneck Microphone, Amplifier & two speakers 20 Watt Each.	Yes
10	Specification of PC:	Yes
	Single Cheese i5 6 <sup>th</sup> Generation.	Yes computer feature
	4 GB or more RAM.	Yes
	1 TB HDD, DVD Writer.	Yes
	WI FI Key Board Mouse.	Yes
	Touch Screen Full HD.	Yes Computer feature
	4 GB Graphic Card.	Yes
	Windows 10 and MS Office Home and Student 2016.	Yes
11	One year branded anti virus software (McAfee/Kaspersky/).	Yes shall be installed
<b>Whether Qualified or Not</b>		Yes

*[Handwritten signature]*

*[Handwritten mark]*

*[Handwritten mark]*

## Technical Comparison

### ITEM NAME- Autoclave

S.No.	Technical Specification	The Science Palace Modi MEC 60	SP Biotech Tanco PLT 103
1	Horizontal High Pressure Cylindrical Steam Sterilizer - Single Door ISI Marked Capacity 50 ltr or more	Yes	Yes <b>No ISI Marked</b>
2	Size – Internal 20” Dia. x 48” Depth/	Yes	Yes
3	Capacity – 4 drum	Yes	<b>Not mentioned</b>
4	Power – 9 kw	Yes	Yes
5	Mode of Heating: Electrical – 3 phase.	Yes	Yes
6	Working Pressure: 1.2 to 1.5 kgf / cm <sup>2</sup>	Yes	Yes
7	Working Temperature: 121 to 125° C;	Yes	Yes
8	Hydraulic test pressure: Jacket 2.6 kgf /cm <sup>2</sup> Chamber 1.9 kgf /cm <sup>2</sup>	Yes	Yes
9	Material of construction: Chamber S.S.304, quality, 4 mm thick.	Yes	Yes <b>(thickness not mentioned)</b>
	End-ring S.S.304, quality, 10 mm thick.		
	Jacket S.S.304, quality, 4 mm. thick.		
	Back Plate S.S.304, quality, 4 mm. thick.		
	Door plate S.S. 304, 12 mm. plate		
	Insulation Fiber glass wool. ( 50 mm. thick)	Yes	Yes <b>(thickness not mentioned)</b>
	Outer cover S.S.304, 20 G sheet – mirror polished Without zinc inside metalizing from	Yes	Yes <b>(thickness not mentioned)</b>
	Pipe lines S.S.304, quality seamless.	Yes	<b>Not Mentioned</b>
	Fittings / Connections S.S.304, quality, B.S.P. threading.	Yes	<b>Not Mentioned</b>
	Lock/ radial arm/hinge Lock .C.I. chrome plated/ powder coated	Yes	Yes
	Gasket Silicone rubber, jointless square type.	Yes	Yes <b>Neopren</b>
	Stand M.S duly painted	Yes	Yes
10	Steam Generator ( Boiler): Shall be attached to underneath the jacket & fitted with M.O.C.: S.S. 304 quality – 14 G thick	Yes	Yes <b>Shown in Image But Quality Not Mentioned</b>

	with heater plate of S.S. 304 quality 12 mm thick & boiler cover with perforation			
11	Heater ( I.S.I Mark ) immersion type industrial	Water	Yes	Yes
12	Water level magnetic switch heater from low water level	To protect	Yes	Yes
13	Glass tube indicate water level in boiler	To	Yes	Yes
14	S.S. Ball Valves water inlet & outlet.	For	Yes	<b>Not mentioned</b>
15	Detailed Control & Fittings : Multi control operating valve out all function of cycle at one point i.e. to Chamber, Chamber fast-slow Vacuum drying.	To carry Jacket exhaust,	Yes	Yes
	Door door shall be fitted with radial arms & automatic Pressure locking device so that the cannot be opened till the steam is fully exhausted from the chamber.	Single	Yes	Yes
	Quick vacuum drying - the filtered and sterile air to break chamber vacuum & Apparatus helps in quick drying	This allows the	Yes	Yes
	Accidental vacuum - break /jacket air valve jacket against and for automatic air removal to obtain saturated steam.	A safety device for accidental vacuum	Yes	Yes
	Safety valve device against excess pressure -in jacket /steam generator.	A safety	Yes	Yes
	Dial type thermometer sterilization temperature.	Indicates	Yes	<b>Yes (Digital)</b>
	Plug screen to prevent large particles from Entering chamber drain line.	A device	Yes	Yes
	Compound Gauge chamber, pressure/ vacuum	Indicates	Yes	Yes
	Pressure gauge jacket / boiler pressure	Indicates	Yes	Yes

SP

↓ =

①

	Steam trap float type	FT 14	Yes	Yes
	Non Return Valve type	Swing	Yes	Not mentioned
	Valves Quality.	S.S. 304	Yes	Not mentioned
	Chamber condensate line fitted with a thermostatic steam trap and check valve for thorough evacuation of air and condensate from the chamber to achieve optimum temperature and an extra by-pass line in case of emergency.		Yes	Yes
	Drain line S.S. 304 quality - 2" N.B. drain header		Yes	Yes Material Not mentioned
16	Electrical Panel : Contactor: Cutler and Hammer make; Pressure Switch: Denfoss or equivalent make, Indicating Lamp: Neon lamp for main and heater. Digital autoclave controller with Temperature controller, timer and alarm.		Yes	Not mentioned
17	Certificate of ISI Mark from BIS to be attached.		Yes	Non ISI
<b>Whether qualified or not</b>			<b>Yes</b>	<b>No Non-ISI unit</b>

SP

✓ (1)

**Technical Compliance Sheet**

**ITEM NAME- Multimedia Projector**

S.No.	Technical Specification	The Science Palace
1.	Ultra Short throw Interactive , LCD Based	Optoma X400LVe <b>Ultra Short Throw is very costly and out of budget, hence quoted DLP Display</b>
2.	White Brightness 3300 ANSI lumens	Yes
3.	Color Brightness 3300 ANSI lumens	Yes
4.	Contrast Ratio 10000:1	Yes
5.	4000 h lamp life	Yes
6.	Weight <6 kg	Yes
<b><u>Whether Qualified or Not</u></b>		<b>Yes</b>

*Sf*

*✓* *①*

**Technical Comparison**  
**ITEM NAME- O<sub>3</sub> Monitor Portable**

S. No.	Technical Specification	The Science palace Hsetin – HT – 1805 4 in 1 Gas monitor O <sub>2</sub> , CO, H <sub>2</sub> S, LEL
1	(130 mm x 67 mm, 450g with batteries).	Yes
2	Standard: Carrying case battery charger with optional aspirator adaptor.	Not Clear
3	Measurement range: 0-1/5ppm	Yes
4	Liquid Crystal Display	Yes
5	Standard Alarm Level at LTV	Yes
6	Optional alarm as per specification	
7	Alarm indication: Pulsating/continuous red LED with audible.90 db at 1 meter.	Yes But Audible not Mentioned
8	Standard battery: Rechargeable 4 x AA cells.	Yes Type and quantity not mentioned
9	Optional: Disposable with 12-15 h continuous battery life.	Not Clear
10	Operational conditions: 10 °C to 50 °C;0-95% RH, non-condensing. Accuracy +/- 10of test gas concentration. 0.01 ppm resolution, response time T90 <30 sec.	Not Clear
11	Setting: Zero/span accessible from outside; electrochemical sensor with a maximum of 2 years life in fresh air.	Not Mentioned
12	Tested for intrinsically safe as per IS 5780-2002 {IEC-60079-11 (1999)}.	Not Mentioned
13	Tested for performance as per IS 9000 (ERTL West), Approved for Eexia IIC T4/T6.	Not Mentioned
14	BIS certificate no.: CM/L – 7449687 as per IS: 5780; CCE approval No. A/P/HQ/MH/104/518(P55545).	Not Mentioned
<b>Whether Qualified or Not</b>		<b>No</b>

CF

✓

①

**Technical Comparison**  
**ITEM NAME- Photoperiodic Castor Racks Tissue Culture Racks**

S. No.	Technical Specification	The Science Palace		S.P. Biotech
		Rescholar 15306	Khera (With digital timer)	Tenco - PLT - 272(E)
1	Size of Racks: Height of rack 164 cm, Width 127 cm	Yes	Yes	Yes
2	Shelve dimension 127x45cm ,	125x45 cm	Yes	Yes
3	Shelf to shelf distance 38 cm	40 cm	Yes	Yes
4	Shelf structure square M.S. pipe white shade powder coating finish will anti-corrosive and humidity resistant	Yes	Yes	Yes
5	Shelf Material 3 mm hylem sheet	Yes with hylem sheet	Yes	Yes
6	Shelves Illuminated shelves in one rack 04 nos.	Yes	Yes	Yes
7	Total no. of shelves (including top) in one rack : 05 nos.	Yes	Yes	Yes
8	LED tube light (20W) with full visible light spectrum or fluorescent tube lamp	Yes As per choice	Yes (Fluorescent) (+ Digital Timer)	Yes (+ UV, Digital Timer)
9	Four in each shelf of each rack , total no. of lights in one rack 16 nos.	Yes	Yes	Yes
10	One separate switch provided for every 2 lights	Yes Shall be provided	Yes Shall be provided	Yes
11	Four Castor wheels in a rack for easy portability	Yes	Yes	Yes
12	Slide Holder rods, on each shelf prevent the bottles etc. from falling from the three sides of a shelf, i.e. on the left , back & right	Rods provided	Rods provided	Yes
13	Front side is used for keeping or removing the bottles etc.	Yes	Yes	Yes
<b>Whether Qualified or Not</b>		Yes	Yes	Yes

*87*

*↓=*

*Q*

**Technical Comparison**

**ITEM NAME- Rotary Vacuum Evaporator with Motorized Lifting System**

S. No.	Technical Specification	The Science Palace		SP Biotech
		Khera KI-102 E	Biolinkk RE100-Pro	No Make / No Model No literature to verify Only self technical sheet attached
1	Driving Unit-Encased induction motor with electronic speed control	Yes	Yes	
2	Condenser Vertical Double spiral glass coil	Yes	Yes	
3	Drive Unit Motorized Drive Unit	Yes	Yes	
4	Rotation Speed up to 280 rpm of better with microprocessor control	Yes	Yes	
5	Display digital display of rotation speed and temperature of heating bath	Yes	Yes	
6	Sample Flask 3L/4L , Joint 29/38 1 Litre spare flask (from 50-3000 ml can be used on the same	Yes	Yes	
7	Joint adaptor without additional connections	Shall be supplied with join adaptor	Shall be supplied with join adaptor	
8	Receiving Flasks 1 L Round style with ball joint	Yes	Yes	
9	Vacuum Seal PTFE Seal	Yes	Yes	
10	Liquid Contact Parts Glass & PTFE	Yes	Yes	
11	Water Bath Digital Water Bath	Yes	Yes	
12	Control Range Ambient temp. to 200 °C or higher ,	Up to 200° C	180 ° C	
13	Accuracy $\pm 0.1^{\circ} C$ , overheating protector	$\pm 2^{\circ} C$	$\pm 1^{\circ} C$	
14	Auto cut off at 5°C secondary over temperature cut off 250°C	Yes	Yes	
15	Bath Features Inner Stainless steel 304 and outer heat resistant cover bath	Yes	Yes	
17	Temp Controller Microprocessor based PID	Yes	Yes	
18	Control Power Requirements Suitable to operate on 220 V , Single phase , 50 HZ AC Apply	Yes	Yes	
<b><u>Whether Qualified or Not</u></b>		Yes Clarification for not mentioned / not clear required	Yes Clarification for not mentioned / not clear required	No

SF

JK

①

Technical Comparison

**ITEM NAME- Transilluminator**

S.No.	Technical Specification	The Science palace		SP Biotech
		Hi-Media (quoted but, NO Brocher)		Genei labs – TCM 1, 107176GB
		ImaGene – Gel.VU	Rebotech – RAUT10A-365	
1	Input Volt 230 V ,50 Hz	Yes	Yes	Yes
2	Illumination Area 24x14 cm	Yes 21x26 cm	Yes 21x26 cm	No 20x20 cm
3	Cooling Fan	Yes	Yes	Yes
4	Light Source 4x8 Watts	Yes	Yes	Yes
5	Wavelength 365 nm	Yes	Yes	Yes
<b>Whether Qualified or Not</b>		Yes	Yes	Yes

Sg

W. 

(32)

**Technical Comparison**

**ITEM NAME- Vacuum Oven**

S.No.	Technical Specification	The Science Palace Biolinkk – BL-P-016	SP Biotech Tenco-PLT-126
1	Size- Rectangular 450x450x450 mm with Vacuum Pump	<b>Yes Pump as a standard accessory shall be supplied</b>	Yes
<b><u>Whether Qualified or Not</u></b>		Yes	Yes

SJ

↓ (1)



		At the time of Supply	At the time of Supply	At the time of Supply
8	Certificates: Material testing, Calibration certificate of Pressure gauge, Autoclave controller, etc., Hydro test certificate, Warrantee.			
9	Specifications Capacity: 80 –100 L.	Yes	Yes	Yes
	Sterilization Timer: 0 – 90 min.	MEV 24 – 75 Ltr.		80 Ltr. ACVG-4 98 Ltr. ACVG-5
		Yes	Yes	0-60 min
9B	Temperature Range: 110°C to >130°C. Temperature Acc.:±0.1 °C at 121 °C	Yes	Yes	Yes
	Microprocessor Controlled Fully Automatic Sterilizing Operation.	Yes	Yes	Not Clear
	Microprocessor Programmable PID control with dual display system for current and set temperature with sterilization process signal lamp and option of Sterilization cycle and time.	Yes	<b>Programmable PID Temperature controller with features shall be fitted</b>	Not Clear
	System should have Safety alarm/signal lamp for over-pressure,	Yes	<b>Safety alarm provided</b>	Not Clear
	Over-temp and over-current and must include water level sensor with signal lamp.	Yes	Yes	Not Clear
	Exterior body made up of Heavy Duty Epoxy Resin/high grade stainless steel, powder coated steel, while chamber must be made up of Stainless Steel 304.	Yes	Yes	Yes
	Basket: System should have at least 2 unit of Stainless Steel wire Basket.	Yes	<b>2 units provided</b>	Yes
	Power Consumption: 3KW or More.	Yes	<b>3 KW</b>	Yes
	Working Pressure: Minimum of 2.0 kg/cm <sup>2</sup> at 132°C.	At 121 °C as per point 9 B	Yes	1.2 kg/cm <sup>2</sup> at 121°C
	Door Packing: Heavy duty raise door with Mechanical Swing door.	Yes	<b>Heavy Duty provided</b>	Yes
	Pressure Gauge: 0-4kg/cm <sup>2</sup> System should have outer compact dimension.	Yes	<b>Yes provided</b>	0-2.1 kg
10	Hydraulic test certificate from the manufacturer must be enclosed	At the time of Supply	At the time of Supply	At the time of Supply
11	CE, ISO Certified Company	Yes	Yes	Yes
	<b>Whether Qualified or Not</b>	Yes	Yes	Yes As per clarification

97

↓

①

34

**Technical Compliance Sheet**

**ITEM NAME- Vertical Electrophoresis System**

S.No.	Technical Specification	The Science Palace Rabrotech- RAB- VE-4 Vento	S.P. Biotech Genei labs – 05- 02, 106724GB
1	Number of Gels 1-4	Yes	Yes 2 Dual Unit
2	Precast Gels	<b>Not required for this system</b>	Yes
3	Hand Cast Gels cast Using	<b>Not required for this system</b>	Not Clear
4	Glass Plat Size (WXL) Spacer Plates	Yes	Yes
5	Short Plate 10.1x7.3 cm		
6	Spacer Plate 10.1x8.2 cm		
7	Gel Size (WXL) 8.3x7.3 cm	Yes	8x7 cm
8	With three sets of various comb sizes platinum electrodes, clamps, screws and water circulation system	Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes
<b>Whether Qualified or Not</b>		Yes	Yes

Sj

✓

①

35

**Technical Comparison**

**ITEM NAME- Vortex Mixer**

S.No.	Technical Specification	The Science palace		SP Biotech
		Biolinkk – BL-SP-MV	Remi – cm-101 pro	Genaxy – gen mix vortex (No Brocher) Kinglab – KLBTM-25 (No Brocher)
1	Adjustable speed control: 750 to 3000 rpm	Yes	Yes	
2	'Continuous' or 'touch' operation	Yes	Yes	
3	For tubes up to 20 mm diameter, Pressure sensitive cup accommodates tubes up to 20mm diameter.	Yes	Yes	
4	Reliable and extremely quiet motor produces regulated and reproducible agitation throughout the speed range.	Yes	Yes	
5	In 'touch' mode, agitation starts in response to pressure on the pressure sensitive cup.	Yes	Yes	
6	Rubber suction pads hold tight to the work surface and prevent the unit from 'walking' -they also absorb vibration and prevent its transmission to the workbench.	Yes	Yes <b>Heavy Base</b>	
7	ISO certified firm	Yes	Yes	
<b><u>Whether Qualified or Not</u></b>		<b>Yes</b>	<b>Yes</b>	<b>No As per clarification yes but no catalogue is there</b>

Sf

✓

Q

Technical Compliance Sheet

ITEM NAME- Weather Station

S.No.	Technical Specification	The Science Palace	
		Logics Power – AMR-WMS	Advanced Technology India
1	Indoor and Outdoor Temperature and Humidity	Yes	Yes
2	Barometric Pressure	Yes	Yes
3	Wind Speed and Direction	Yes	Yes
4	Temperature Humidity IN and OUT	<b>Not Mentioned</b>	<b>Not mentioned</b>
5	Rainfall, Weather Forecast Icons , Moon Phase	<b>Yes Only Rainfall</b>	<b>Yes Only Rainfall</b>
6	Sunrise / Sunset Time	Yes	Yes
7	Graphing Weather Trends, alarms and more	Yes	Yes
8	Wireless transmission upto 1000 Feet (305 meters)	<b>No</b>	<b>No</b>
9	Weather updates every 2.5 seconds on screen data graphing	<b>180 sec.</b>	<b>180 sec.</b>
<b>Whether Qualified or Not</b>		<b>Yes</b>	<b>Yes</b>

Sf

✓

①

31

**Technical Compliance Sheet**

**ITEM NAME- Air Conditioner**

S.No.	Technical Specification	The Science Palace Godrej No Brocher	S.P. Biotech IFB No Brocher
1	2.0 Tons , Split AC	Yes	Yes
<b>Whether Qualified or Not</b>		<b>Yes</b>	<b>Yes</b>

g  
L  
①

**Technical Compliance Sheet-21**

**ITEM NAME- Laboratory Purpose Refrigerator 320L Double Door - 21**

S. No.	Technical Specification	The Science Palace Quoted Samsung and LG (NO Brochure)	S.P. Biotech Quoted – Samsung and Remi (No Broacher)
1	Installation type: Free standing		
2	Capacity 320 L		
3	Energy rating 3 star or more		
4	Form Factor: Double door		
5	Defrost system: Frost free		
6	Warranty: min 1 year comprehensive and min 9 years for compressor		
7	Shelves: Toughened glass		
8	Number of shelves: 2		
9	Twist and serve ice trays		
<b><u>Whether Qualified or Not</u></b>		<b>Both the bidder quoted for LG/Samsung Both are qualified</b>	

87      ✓      (Q) ✓