

1. **File No.** 6-60/09-NRCPB/7209-23 Dated: 09-11-09  
**Name of the Equipment** **Purchase of Refrigerator**  
**Last Date** **25-11-09**  
**Specification** **1. Specification for Refrigerator** One Nos.

- Minimum capacity 450 – 550 Ltrs.
- Temp +2 to 8<sup>0</sup>C
- Double door for freezer and +4<sup>0</sup>C
- Fast freeze button and lamp.
- Must have both type of Drawers i.e. pull out drawers and freeze shelves
- Temp display with warning light, thermostat
- Must be provided with voltage stabilizer (1kV)
- CFC Free

Note: Please Submit EMD an amount of Rs. 1000/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.

2. **File No.** 6-61/09-NRCPB/7194-7208 Dated: 09-11-09  
**Name of the Equipment** **Purchase of Deep Freezer**  
**Last Date** **25-11-09**  
**Specification** **2. Specification for Deep Freezer** 1 Nos.

- Temperature : -20<sup>0</sup>C
- Capacity : minimum 330 Ltr.
- Single or Double Door with lock system
- Fast freeze button and lamp.

- Must have both type of Drawers i.e. pull out drawers and freeze shelves
- Temp display with warning light, thermostat
- Must be provided with voltage stabilizer (1kV)
- CFC Free

Note: Please Submit EMD an amount of Rs. 1500/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.

3.	<b>File No.</b>	<a href="#"><u>6-62/09-NRCPB/7239-53</u></a>	Dated: 09-11-09
	<b>Name of the Equipment</b>	<b>Purchase of <u>Voltage Stabilizer</u></b>	
	<b>Last Date</b>	<b>25-11-09</b>	
	<b>Specification</b>	<b>3. Specification for Voltage stabilizer</b>	<b>Two Nos.</b>

Capacity 5 kVA

Should have LED indicators  
Fully Solid State Control Circuit  
+<sub>-</sub> 1.0% Regulation  
No Wave-form Distortion  
High Efficiency  
Auto Manual Operation Facility

Note: Please Submit EMD an amount of Rs. 400/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.

4.	<b>File No.</b>	<a href="#"><u>6-64/09-NRCPB/7224-38</u></a>	Dated: 09-11-09
	<b>Name of the Equipment</b>	<b>Purchase of <u>Electroporator</u></b>	
	<b>Last Date</b>	<b>25-11-09</b>	
	<b>Specification</b>	<b>4. Specification for Electroporator</b>	<b>1 No.</b>

- Applications : For rapid & efficient transformation (Electroporation) of bacteria, yeast & other micro-organisms.

- Pulse control by : Microprocessor-controlled **Soft-pulse technology.**
- Pulse form : Exponentially diminishing electronically controlled.
- Pulse voltage : 200-2500 volt
- The two most common voltage values (1800 V and 2500 V) can be set directly.
- Time constant : 5 ms (nominal) with a 3.3 kOhm sample impedance
- Availability of cuvettes : Aluminum electrodes, sterile with 1 mm, 2 mm, 4 mm gap.
- Cuvette Holder : Integrated cuvette holder.
- Capacitor : 10  $\mu$ F, 2500 V pulse discharge.
- Resistance : 600  $\Omega$
- Display values : Set voltage, time constant, actual peak voltage.
- Compact unit : Small and portable with disinfect able surfaces.
- Warranty : 1 year or more.
- Electronic safety switch for eliminating short-circuits

**Note: Please Submit EMD an amount of Rs. 4000/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.**

5.	<b>File No.</b> <b>Name of the Equipment</b> <b>Last Date</b> <b>Specification</b>	6-65/09-NRCPB/7179-93 <b>Purchase of Gel Documentation System</b> <b>25-11-09</b> Specification for Gel Documentation System  Image format : True 16-bit., High resolution with effective 1.44 mega pixel, Ultra Peltier cooled CCD camera with high speed USB	Dated: 09-11-09  1 No.
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port.

Pixel Size : minimum 6.45 X 6.45 micron,  
Lens Feedback system, Dynamic range 4.8  
OD with 65536 grey scales, Motorized zoom  
lens with f/1.2, 12.5075 mm lens, Close up  
lens minimum +2 dioptre

Pull out drawer, UV Filter with 302 nm, Filter  
area minimum 25X30 cm, RTD technology,  
White light converter (Dual Epi-White  
Lights)

Should have intelligence to auto assess blot,  
best exposure time and best bin factor.

Microprocessor based controller, Multi  
position filter slider

The system should be provided with  
accessories to observe GFP in plant tissues

GLP compliant Fully Automated  
Microprocessor based computer controlled  
Gel Documentation & Image analysis system  
for DNA/RNA, Fluorescence,  
Chemiluminescence & 2D spot imaging &  
analysis

Electromagnetic door latch with safety  
interlock, fully light tight darkroom with  
separate enclosure for camera and lens  
suitable for advanced chemiluminescence  
applications.

Software must have user friendly features  
with one window accessible icons,  
comprehensive tool box, automatic analysis  
of multi layered gels, zoom control, lane  
histogram, multiple intensity and quality  
control, molecular weight, basepair  
determination, colony counting feature.

All the software should have free life time upgradation..

Real time image and Single button capture, Lens control through software, Multi feature exposure controls, Easy filter selection, focus indicator, 3D viewing mode, auto focus mode, direct link to analysis software-UPGMA, Excel etc., Image saved option in all available format (bmp, jpg, tif, sgd etc)

Analysis software for gene expression, DNA fingerprinting, genotyping analysis, statistical analysis etc.

Computer : Intel Duo core -2, 2 GB ram, 160 GB HDD, 17" TFT Color monitor, DVD writer, Keyboard, mouse, speaker, Latest operating system with licence, LASER Printer

Warranty: Minimum 1 year or more

Note: Please Submit EMD an amount of Rs. 12000/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.

6. **File No.** [6-78/09-NRCPB/7164-78](#) Dated: 09-11-09

**Name of the Equipment** **Purchase of Deep Freezer -80<sup>0</sup>C**  
**Last Date** **24-12-09**

**Specification** **Specification of Deep Freezer -80<sup>0</sup>C** 1 No.

Vertical Deep Freezer with two stage compressor, temperature range of -50°C to -86°C (1°C increment), capacity: 400 Liters or higher , compressors capacity: 0.75 HP or higher, platinum (Pt100) temperature sensor, appropriate insulation, CFC & HCFC Free, self-diagnostic function, should monitor ambient & system conditions continuously, temperature homogeneity throughout the

freezer  $\pm 3^{\circ}\text{C}$ , control panel should be at eye level with digital display, microcomputer temperature controller with digital design, protection from accidental setting of control panel, audible & visual alarms for Hi/Lo Temperature and door open, microprocessor controlled filter clog check, power failure, remote alarm, sensor abnormality & part replacement notification, separate inner doors for each shelf with latches, stainless steel interior.

Only licensed and authorized system should be quoted with all accessories, minimum one year on-site warranty, annual maintenance contract, compatible stabilizer, list of satisfied users, original technical literature and operation manual, installation, on-site and in-lab system- application training of all project staff, continuous technical support from qualified service engineers, assurance for prompt supply of essential consumables to conduct analysis with the instrument and compliance statement of specifications with deviations clearly marked.

**Note: Please Submit EMD an amount of Rs. 8000/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.**

7.	<b>File No.</b>	6-77/09-NRCPB/7149-63	Dated: 09-11-09
	<b>Name of the Equipment</b>	<b>Purchase of Gel Documentation System</b>	
	<b>Last Date</b>	<b>24-12-09</b>	
	<b>Specification</b>	Specification for Gel Documentation System	1 No.

Gel documentation system having 6 bit CCD camera with 1.4 million Pixel and pg sensitivity, 8-48mm Motorized Zoom lens, Dark room, Dual wavelength 30nm and 365 nm UV Transilluminator with imaging area of 20X30cm or more, Dual Epi-white light illumination, Software for Image Acquisition, Molecular Weights, pl & Rf analysis, 1-D Multi-Lane Analysis,

Spot Denso 2D Analysis, Colony, Cell & FP Yeast Counting, Micro titer Plate, Epispot, Array & Dot Blot Analysis, Zymogram Gel Analysis, Q-PCR, Ruler, Object Distance measurement, gel Scoring, Multicolor fluorescence microscopy imaging & MOVIE MODE, RFLP, RAPD Fingerprinting across multiple gels, Computer duo core processor, 4GB RAM, 320GB Hard Disk, 17" TFT Monitor, DVD R/w, Suitable UPS, Thermal Printer.

Only licensed and authorized system should be quoted with all accessories, minimum one year on-site warranty, annual maintenance contract, compatible stabilizer, list of satisfied users, original technical literature and operation manual, installation, on-site and in-lab system- application training of all project staff, continuous technical support from qualified service engineers, assurance for prompt supply of essential consumables to conduct analysis with the instrument and compliance statement of specifications with deviations clearly marked.

Note: Please Submit EMD an amount of Rs. 10000/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.

8. File No.	<a href="#">6-76/09-NRCPB/7345-59</a>	Dated: 07-11-09
Name of the Equipment	Purchase of Refrigerator 4 <sup>0</sup> C	
Last Date	24-12-09	
Specification	A frost free vertical type refrigerator with rust proof interior. ISO standard, branded, capacity 400Ltrs or more, auto cooling system, double door with lock facility, CFC free, temperature control with Hi/Low temperature. Alarm Door ajar, On/Off defrosting type auto, voltage 220V, 50 Hz,	One Nos.

internal Lighting Standard fitted.

Only licensed and authorized system should be quoted with all accessories, minimum one year on-site warranty, annual maintenance contract, compatible stabilizer, list of satisfied users, original technical literature and operation manual, installation, on-site and in-lab system- application training of all project staff, continuous technical support from qualified service engineers, assurance for prompt supply of essential consumables to conduct analysis with the instrument and compliance statement of specifications with deviations clearly marked.

Note: Please Submit EMD an amount of Rs. 1000/- In the shape of Bank Draft/ Pay Order in favour of Project Director, NRCPB, without EMD Quotation will be not be accepted.