

No.	Gel electrophoresis	Specifications	No. of Units
1	Horizontal gel electrophoresis system	The unit should include; 1 Buffer Chamber, good cooling maintain pH during electrophoresis, 1 Safety lid with power cable, 2 UV-transparent Tray (7 x 10 cm), 4 combs (1.5 mm 2 x 15 well and 2 x 20 well), Electrodes Platinum wire, 1 Gel casting tray. 1 Gel scoop (14x 20 cm), tank should corrosion proof and no leakage point, automatic cut off electric field when lid is open. System should be certified with competent authority.	1
2	Vertical gel electrophoresis unit	Unit includes electrode assembly, tank lid with power cable, mini cell buffer dam. Number of Gels -4. Hand cast gels Cast using the spacer plates Gel size (W x L), each system should be able to run at least 2 hand cast. System should have option for upgradeable to trans blot system and electroplater. Comb Includes 5 (0.75mm) + 5 (1 mm) + 5 (1.5 mm) combs, 15 short plates & 15 Large Plates, [Glass plate size (W x L), Short plate 10.1 x 7.3 cm, Spacer plate 10.1 x 8.2 cm], 2 casting strand, 4 casting frames, planium electrode, sample loading guide, companion running module, should have all accessories for simple and leak proof casting. System should be certified with competent authority.	1
3	Western wet transfer unit	Electrode module Molded poly sulfone. Gel holder cassettes Molded polycarbonate. Electrodes Platinum wire 0.254 mm diameter. Buffer chamber and lid Molded polycarbonate with cable. Cooling unit Polyethylene. Overall dimensions: Mini Trans-Blot cell 16 cm (L) x 12 cm (W) x 18 cm (H); 2 Gel holder dimensions 10 cm x 11 cm, Maximum gel size; 7.5 cm x 10 cm, Buffer capacity 450-850; With cooling unit 650 ml, Without cooling unit 850 ml, gel capacity 4 using protein tetra cell. Transfer time < 1 hr. System should be certified with competent authority.	1
4	UV and white light Transilluminator	Applications: Fluorescence Gel documentation Light Source: (302 nm) with filters size 15x8cm, No. of Tubes 4, Detection limit (minimum): 0.01 ng of stained DNA, Still / Aluminum body, Quartz glass filtered platform, UV Protection shield. Portable size. System should be certified with competent authority.	1
5	Power supply	Output range (programmable) 10-300 V, fully adjustable in 1 V steps. 4-400 mA, fully adjustable in 1 mA steps 75 W (maximum). Type of output Constant voltage or constant current with automatic crossover. Output terminals 4 pair recessed banana jacks in parallel. Timer 1 min-99 hr 59 min, fully adjustable. With Pause/resume function. Should be compatible with horizontal, vertical and blotting system. System should be certified with competent authority. Display to read out voltage, current, time etc. Automatic switch off on overload or no load.	1
6	Micropipettes	0.5-10 μ L (increment 0.1 μ L) 10-100 μ L (increment 0.1 μ L) Single channel Pipet (20-200 μ L).	1 each

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