




G MULTI SERVICES

78, Yahoob Street, Gobichettipalayam, Erode Dist, Tamil Nadu. Pin: 638 452.
gmultiservicesgobi@gmail.com. Cell : 96597 20654.
Bio Medical Instruments Services

Er. A. Ibathul Raziq DECE., BE (ICE)
Bio Medical Engineer

Equipment : GLUCOMETER
MAKE : ON CALL
MODEL : PLUS

PROTECT CLASS /TYPE : Risk Class II
S. No. : CE0123
Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | | Status | Remarks |
|---|-------------------------|---|----------------------------------|---------|
| 1 | Electrical Test | (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status | NA | |
| 2 | Physical Condition Test | (a) Cabinet & Visible damages, if any (B) Risk of mechanical damages, if any | No No | |
| 3 | Performance Test | (a) Accuracy (b) Alarm priorities (d) Abnormalities (e) Display checkup (f) Keypad/indicators & Connectors | Normal OK No Ok Well | |
| 4 | Calibration Test | (a) Power Cell +3 Voltages (b) Strip control solution test | Ok calibrated | |
| Formulated By: Edition Research Laboratory | | Issued By: | User Department: | |
| Endorsed By : Research team head | |  | | |
| Reviewed On: 18.08.23 Next Review : 17.08.24 | | | | |



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Er. A. Ibathul Raziq DECE., BE (ICE)
Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : CENTRIFUGE
MAKE : REMI
MODEL : CENT100

PROTECT CLASS /TYPE : Risk Class I
S. No. : GA/CENT/001
Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | Status | Remarks |
|---|---|--|---|
| 1 | Electrical Test (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status | 230 volts 0 to 5 volts No Zero ohms 10mA NA | Stabilizer/UPS With in Ranges Well |
| 2 | Physical Condition Test (a) Cabinet & Visible damages, if any (b) Front Panet/Top lid, buckets, motor assembly & power cord (c) Risk of mechanical damages, if any | No OK No | Checked OK |
| 3 | Performance Test (a) On /Off switch (b) Speed regulator switch & functional tests (c) Running test (d) Abnormalities (e) Display checkup (f) Keypad/indicators & connector | Normal OK Accurate OK No Well Well | Ok Perfect Perfect |
| 4 | Calibration Test (a) Vibration test (b) Speed regulation gradual hike/wobbling test (c) Running test with load (d) Display checkup (e) Timer test | Done Ok | Perfect |
| Formulated By Edition Research Laboratory | | Issued By: | User Department: |
| Endorsed By : Research team head P | | | |
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Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : CELL COUNTER
MAKE : MINDRAY
MODEL : BC-20S

PROTECT CLASS /TYPE : Risk Class I
S. No. : GA/CELL/001
Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | | Status | Remarks |
|---|-------------------------|---|--|--|
| 1 | Electrical Test | (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status | 230 volts 0 to 5 volts No Zero ohms 10mA NA | Stabilizer/UPS With in Ranges Well |
| 2 | Physical Condition Test | (a) Cabinet & Visible damages, if any (b) Front Panel/Top lid, buckets, motor assembly & power cord (c) Risk of mechanical damages, if any | No OK No | Checked OK |
| 3 | Performance Test | (a) On /Off switch (b) switch & functional tests (c) Spindle Motor (d) Running test (e) Abnormalities (f) Display checkup (g) Keypad/indicators & connector | Normal OK OK OK No Well Well | Ok Perfect Perfect |
| 4 | Calibration Test | (a) WB Test (b) Printer (c) Display checkup (d) Timer test (e) Result | Done Ok OK OK Perfect | Perfect |
| Formulated By: Edition Research Laboratory | | Issued By: | User Department: | |
| Endorsed By : Research team head R | | | | |
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Er. A. Ibathul Raziq DECE., BE (ICE)
Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : REFRIGERATOR
MAKE : LG
MODEL : GL278VE5-2011

PROTECT CLASS / TYPE : Class II
S. No. : GA/REF/001
Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | Status | Remarks |
|---|---|---|---|
| 1 | Electrical Test (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current | 230 volts 0 to 5 volts No Zero ohms 10mA | Stabilizer/UPS With in Ranges |
| 2 | Physical Condition Test (a) Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any | No No | Checked OK |
| 3 | Performance Test (a) Regular functional mode / cooling temp (b) Key pad, display and settings (c) Abnormalities (d) Knobs & closures alignment | Normal OK No Ok | Well Well |
| 4 | Calibration Test (a) Cooling mode test (b) Normal mode test (c) Temp test | Checked Done | tested |
| Formulated By: Edition Research Laboratory | | Issued By: | User Department: |
| Endorsed By : Research team head R | |  | |
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Er. A. Ibathul Raziq DECE., BE (ICE)
Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : PIPETTE
MAKE : FINNE PIPETTE F3
MODEL : 100-1000 μ L

PROTECT CLASS /TYPE : Risk Class II
S. No. : RW13777
Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | Status | Remarks |
|---|---|---|------------------|
| 1 | Electrical Test (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status | ---- | - |
| 2 | Physical Condition Test (a) Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any | No No | Checked OK |
| 3 | Performance Test (e) Mean 99.2 μ l (f) A -0.5 μ l (g) Acc % -0.71 (h) CV% -0.36 | OK OK OK Ok | |
| 4 | Calibration Test min volume 100 μ l max Volume 1000 μ l (e) A+ or - 1.5, 5 μ l (f) S 1.5 μ l max Vol. 1000 μ l (g) Acc+ or - 1.50, 0.50 (h) CV% 0.60, 0.20 | Ok Ok Ok Ok | Tested |
| Formulated By: Edition Research Laboratory | | Issued By: | User Department: |
| Endorsed By : Research team head R | |  | |
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Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : SEMI AUTO ANALYSER

MAKE : ROBONIK

MODEL : PRIESTEST TOUCH

PROTECT CLASS /TYPE : Risk Class I

S. No. : ATCD022062RBK

Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | | Status | Remarks |
|---|-------------------------|---|--|--|
| 1 | Electrical Test | (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status | 230 volts 0 to 5 volts No Zero ohms 10mA NA | Stabilizer/UPS With in Ranges Well |
| 2 | Physical Condition Test | (a) Cabinet & Visible damages, if any (b) Front Panet/Top lid, buckets, motor assembly & power cord (c) Risk of mechanical damages, if any | No OK No | Checked OK |
| 3 | Performance Test | (a) On /Off switch (b) switch & functional tests (c) Running test (d) Abnormalities (e) Display checkup (f) Keypad/indicators & connector | Normal OK OK No Well Well | Ok Perfect Perfect |
| 4 | Calibration Test | (a) End Point Test (b) Display checkups (c) Filter selection (d) Record OD (e) Calculation (f) Two Point Test (g) Kinetic Test (h) Result | Done Ok OK OK Well Perfect | Perfect |
| Formulated By: Edition Research Laboratory | | Issued By: | | User Department: |
| Endorsed By : Research team head | | | | |
| Reviewed On: 18.08.23 Next Review : 17.08.24 | | | | |



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Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : MICROSCOPE
MAKE : UNICEF
MODEL :

PROTECT CLASS /TYPE : Risk Class II/CF
S. No. : 16725
Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | | Status | Remarks |
|---|-------------------------|---|------------------------------|--|
| 1 | Electrical Test | (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status | --- | Stabilizer/Ups With in Ranges Well |
| 2 | Physical Condition Test | (a) Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any | No OK No | Checked ok |
| 3 | Performance Test | (a) Intensity test taken by lux meter for a particular & results (b) Measurement of Lens range (c) Lamp life time | Normal OK OK OK | Fine Brightness Perfect Apprx. |
| 4 | Calibration Test | (a) Intensity test taken by lux meter for a particular lamp & results (b) Measurement of Lenses cal (c) Lamp life time | OK Done OK | In range Peak in range In range |
| Formulated By: Edition Research Laboratory | | Issued By: | User Department: | |
| Endorsed By : Research team head | |  | | |
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Calibration Protocol & Report for Medical Equipment

Equipment : PIPETTE
MAKE : FINNPIPETTE F3
MODEL : 10-500 μ L

PROTECT CLASS / TYPE : Risk Class II
S. No. : GA/PE/001
Location : GPHC, GANAPATHIPALAYAM

| S.No | Measurement Parameters | Status | Remarks |
|--|---|----------------------|-------------------------|
| 1 | Electrical Test (a) Safety Standards (range : 210-240 V) (b) Equipotential ground & Earthing (c) Risk of shock/fire Hazards, if any (d) Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status | - | - |
| 2 | Physical Condition Test (a) Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any | No No | Checked OK |
| 3 | Performance Test (a) Mean 99.3 μ l (b) A -0.6 μ l (c) Acc % -0.71 (d) CV% -0.36 | OK OK OK Ok | |
| 4 | Calibration Test min volume 10 μ l max Volume 100 μ l (a) A+ or - 1.5, 5 μ l (b) S 1.5 μ l max Volume 5 μ l (c) Acc+ or - 1.50, 0.50 (d) CV% 0.40, 0.20 | Ok Ok Ok Ok | Tested |
| Formulated By: Edition Research Laboratory | | Issued By: | User Department: |
| Endorsed By: Research team head R | | | |
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