

ECT SYSTEMS – MODEL COMPARISON

ISO 9001:2015 | CE Certified | CDSCO –Approved

Overview

A clean, side-by-side comparison of MEDICA ECT models for fast evaluation by hospitals and psychiatry units. All prices, installation scope, and certifications can be added per institute requirement.

Feature	BPE-791	BPE-591 (Portable + Printer)	Ultra Brief Pulse ECT	PC-Based BPE-2000
Pulse Configuration	Bidirectional square wave	Bidirectional square wave	Ultra-brief pulse	PC-based bidirectional square wave
Output Current	0.8 A (791) / 0.5–0.9 A (791A)	0.8 A	0.8 A (ultra short pulses)	0.8 A programmable
Pulse Width	0.1–2 ms (6 steps)	Same as BPE-791	0.25–0.5 ms	0.1–2 ms programmable
Mode	Auto & Manual	Auto & Manual	Auto & Manual	Auto, Manual, PC control
Frequency Range	20–90 Hz (6 steps)	Same as BPE-791	Programmable wide range	PC programmable
Display	LCD (Joules + mC)	LCD + Thermal Printer	LCD	PC Interface (full software)
Recording	—	2-Ch EEG & ECG + Printer	Optional	Full PC EEG & ECG storage
Size & Weight	250×170×80 mm / 3 kg	325×250×80 mm / 4.5 kg	Compact	PC workstation + control unit
Best Use Case	Standard psychiatry ECT	Portable + inbuilt reporting	Reduced cognitive side-effects focus	Research & teaching hospitals

Certified Quality & Trusted Institutions

ISO | CE | MSME | GeM | GST | IEC • CDSCO –Approved

Contact & Supply

R.S. Enterprises – Authorised Medicaid Systems Supplier

Bankim Nagar, Siliguri, West Bengal • +91 9832362661 / +91 9474878436 •

rsenterprises227@gmail.com

Installation & onsite training included. Delivery/courier included. Laptop & printer excluded.



MEDICAID

Leaders in the field of Neuro-Psychiatry in India...



MedStim (rTMS)

i-phasic Transcranial Magnetic Stimulator (Indigenous)

Biphasic & monophasic waveform

Single pulse, repetitive stimulation & train modes.

Stimulation rates 30, 50 & 100 pps in various models.

Theta burst and 2 channel MEP monitoring system.

Sweep mode with variable repetition rate.

All parameters displayed on wide TFT colour touch screen.

Flexible protocol storage in built-in computer.



Psychofeedback Systems

Computerised Neuro Bio-feedback Systems.

Operating system window based.

Audio & Visual feedback.

Numeric display of Bio-signal.

Animation Pictures & 3D graphics game for therapy.

Coloured printouts with user comments

Useful in chronic stress, headache, migraine, anxiety,

Bed-wetting, ADHD, OCD, Student having examination stress,

lack of concentration and many more...



Neuro max -NMX 32

Window based 32 Channel Digital Video EEG Monitoring System

Highly synchronized raw EEG with video.

Patients photo on EEG prints out.

Facility to store video EEG on CD.

Brain map for frequency, voltage and spectrum.

Thumb nailing facility to view multiple video.

Upgradable to Polysomnography.



ULTRA BRIEF PULSE ECT Machine (UBE - 209)

- TFT Touch Screen
- Opto isolation amplifier for patient safety.
- Decreased memory loss
- More efficient in seizure induction
- Distinct seizure manifestation
- Dramatic difference in cognitive effects
- Effective even in cases of severe depression
- Visual & Audio signal for : ECT READY



MEDICA Brief Pulse ECT Machine (BPE - 791)

- Bidirectional Brief Pulse
- Constant Output Current
- Frequency Range : 20 - 120 Hz
- Pulse Width : 0.1 to 2 ms
- Mode : Auto & Manual
- Stimulus Duration in Auto mode : 0.1 to 5.9 sec.
- Output Display in joules & millicoulombs
- Visual & Audio signal for : ECT READY



Transcranial DC Power MA-TDCS

Transcranial Direct Current Stimulation (tDCS) is a non-invasive procedure in which a device sends a small Direct Current (DC) across the scalp to modulate brain function. The tDCS System sends highly precise, controlled and safe low level currents from the positive electrode, anode, to the negative electrode, cathode. When the extremely low level current passes from the anode to the cathode, it may simultaneously increase the activity of the brain by the anode and decrease the activity of the brain near the cathode.



MEDICA



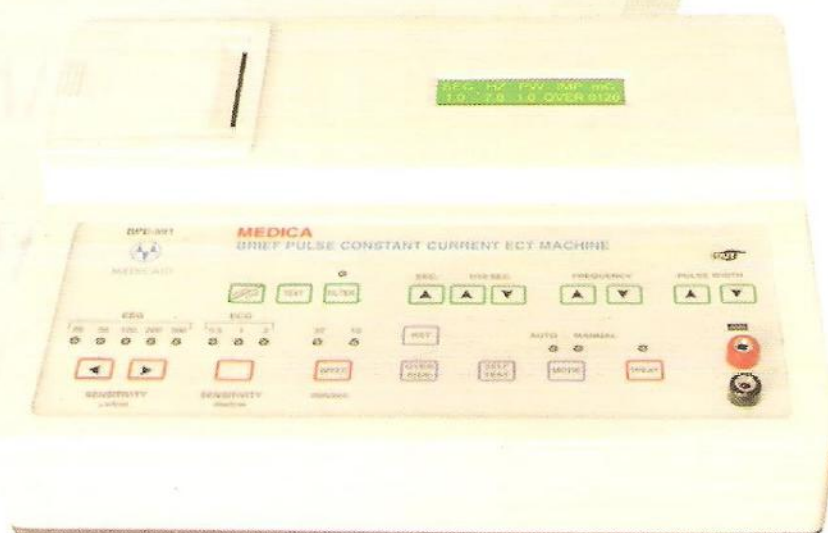
MEDICAID

An ISO 9001 : 2000 Company

Microcomputer controlled Brief Pulse Constant Current ECT Machines

Features :--

- Parameter display on LCD
- Auto Stimulus Voltage
- Auto Impedance Check
- Output display in joules as well as in millicoulombs
- Truly Portable.



MEDICA BPE - 591 : A compact ECT machine with built-in two channel thermal printer, which monitors EEG & ECG of the patient prior to & during seizure.

ECT SECTION : Same as of BPE -791

SIZE : 325 x 250 x 80 (H) mm

WEIGHT : 4.5 Kgs.

EEG SECTION

Sensitivity : 20 μ v to 500 μ v/cm in 5 steps

Frequency Response : 70 Hz with notch filter

CMRR : 80 db

ECG SECTION

Sensitivity : 0.5, 1, 2 mv/cm

Frequency Response : 70 Hz with notch filter

CMRR : 80 db

RECORDER SECTION

Chart Speed : 10, 30 mm/sec

Writing device : Thermal Array Printer

Recording Paper : Thermal size 50mm x 30 mtrs

STANDARD ACCESSORIES

Rubber Strap Electrode : 1 No.

Instruction Manual : 1 No.

Dust Cover : 1 No.

Bite Block : 2 No.

Fuses : 5 Nos.

ECT Head band : 1 No.

EEG Electrodes : 10 Nos.

ECG Electrodes : 02 Nos.

Recording Paper : 02 Rolls

Earthing wire : 01 No.

Conductive Gel : 01 No.

Carry Bag : 01 No.

The **MEDICA** delivers pulsed, bi-directional square wave stimulus. The current is constant at 0.8 Ampere and the voltage varies automatically by a built in microcomputer as per the impedance of the patient.

We conceived and designed the **MEDICA** keeping three major considerations in mind i.e.

- Its stimulus parameters had to be chosen on the basis of research data. (Maxwell 1968, Weaver et al 1977, weiner 1980).
- It should have the capacity to produce seizure virtually 100%.
- It should be safe and easy to operate.

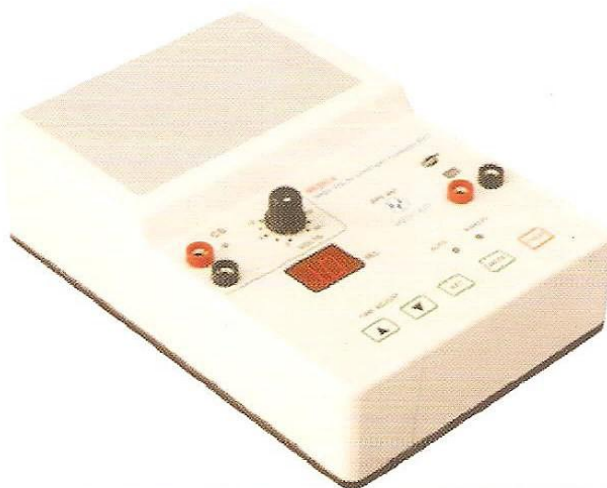


MEDICA BPE - 791 & BPE - 791A

Pulse Configuration	: Bidirectional square wave
Output Current	: 0.8 Ampere (BPE-791)
Output Current	: 500 MA - 900 MA in 9 steps, each of 50MA. (BPE-791A)
Frequency Range	: 20 to 90 Hz in 6 steps
Pulse Width	: 0.1 to 2 ms in 6 steps
Mode	: Auto & Manual
Stimulus Duration in Auto Mode	: 0.1 to 5.9 sec. in step of 0.1 sec.
Minimum Power	: 2.7 joules for 220 Ohm Patient Impedance
Maximum Power	: 160 joules for 220 Ohm Patient impedance
Energy Display	: Energy in joules gets calculated automatically by built-in microcomputer
Charge	: 12 to 1400 millicoulombs
Impedance Check	: Impedance of patient is displayed as Pass/Fail on LCD
Size	: 250 x 170 x 80 (H) mm
Weight	: 3 Kgs.

MEDICA BPE - 891

Pulse Configuration	: Bidirectional square wave
Output Current	: 0.8 Ampere
Frequency Range	: 70Hz
Pulse width	: 1 ms
Mode	: Auto & manual
Stimulus Duration in Auto Mode	: 0.1 to 5.9 sec. in step of 0.1 sec.
Minimum Power	: 2.7 joules for 220 ohm patient impedance
Maximum Power	: 160 jolus for 220 ohm patient impedance
Cerebral Stimulation	: Output 0 - 40 volts
Size	: 250 x 170 x 80 (H)mm
Weight	: 2.5 Kgs.



SINE WAVE ECT - 822

- LCD Displays stimulus voltage & Time
- Output voltage 90 to 190 V
- Manual, Timer & Ectonus Modes
- Fitted in brief case.
- Timer 0.1 to 9.9 sec. in step of 0.1 sec
- Cerebral Stimulation 0 to 40 volts
- Ultra isolation transformer for patient safety

STANDARD ACCESSORIES BPE-791 & BPE-891

ECT Head band with TREAT Switch	: 1 No.
Rubber Strap Electrode	: 1 No.
Instruction Manual	: 1 No.
Dust Cover	: 1 No.
Bite Block	: 2 No.
Fuses	: 5 Nos.
Carry Bag	: 1 No.

OPTIONAL ACCESSORIES :

- Foot Switch • Unilateral Electrode

Branch Office

Delhi	9810363242	Gwalior	9826546750	Ahmedabad	9824088842
Hyderabad	9849145151	Bangalore	9849493707	Chennai	9847230567
Lucknow	9839281804	Mumbai	9820929822	PB & HR	9814332314
Pune	9822619216	Jaipur	9414435131	Kerala	9840246486



MEDICAID SYSTEMS

389, INDUSTRIAL AREA, PHASE-II,
CHANDIGARH-160 002

Ph: 0172- 2652706, 2641203, FAX : 2653608

E-mail : info@medicaid.co.in

Website : www.medicaid.co.in

MEDICAID's continuing product improvement programme makes specifications subject to change without notice.



MEDICA ULTRA BRIEF PULSE ECT

GRAPHIC DISPLAY

Clear Visibility at 6 feet
Parameters
Easy Upgradation for Pulse Oximeter
Futuristic design

JOG-DIAL CONTROL

Single control selects all parameters
Quick & easy operation

Cerebral Stimulus

Inbuilt cerebral stimulus
Treat hysterical patients
Dyslexia & induce deep relaxations

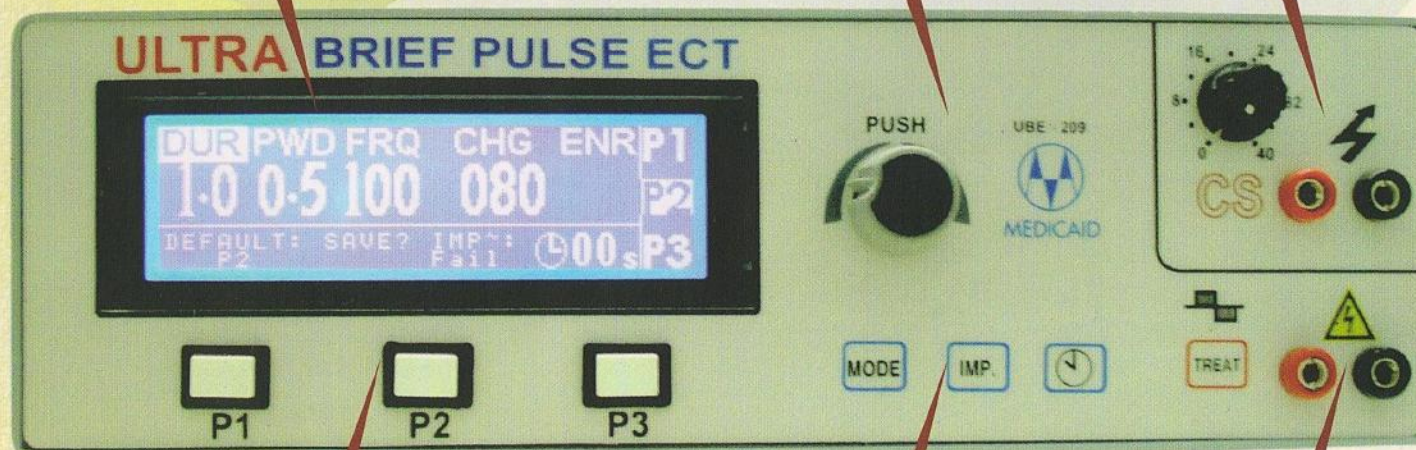
MODELS AVAILABLE

UBE-209

Standard Ultra Brief Pulse
Features Graphics display, 0.3 ms least pulse width, 120 Hz max. frequency

UBE-409

Standard Ultra Brief Pulse
Features Additionally PC Interface, complete monitoring of EEG, ECG & OMS (optical motion sensor)
Automatic calculations of seizure and long term monitoring & storage.



Quick Keys

Operate in customized settings on the go
Set your own default parameter
Toggle to various modes with single key

Configuration

Select mode (auto, manual), impedance check
Stop watch to calculate total seizure duration.
Less keys to memorize

Treat Output

Reliable treat output allows you to use various headband types: Bi-lateral flexi-band, unilateral headband and standard headband.

Salient Features

- ♦ Highly reliable operation.
- ♦ Distinct seizure manifestation
- ♦ Visual & Audio signal for : ECT READY
- ♦ Decreased memory loss
- ♦ Dramatic difference in cognitive effects
- ♦ More efficient in seizure induction
- ♦ Effective even in cases of severe depression

MEDICA ULTRA BRIEF PULSE ECT

Ultra-Brief Pulse width stimulus of .3 ms at 800 mA current have refined the treatment methods and ECT hardware. Previous studies of ultra-brief pulse was inconsequential because they used non-optimal stimulation parameters.

New studies have found immense benefits of using ECT with Ultra-Brief Pulse mode.

- Ultra-brief stimulation is substantially more efficient in seizure induction with the charge at seizure threshold at-least 3 times less with ultra-brief pulse.
- Dramatic difference in cognitive effects of Ultra-Brief Pulse.
- Seizure manifestation are distinct with Ultra-Brief Pulse Stimulation.
- Patients reported no noticeable memory loss after completion of good numbers of Ultra-Brief Pulse ECT.
- Studies have describe difference between Ultra-Brief ECT and standard ECT as being like "day and night".

Technical Specification

Pulse Configuration	:	Ultra Brief Bidirectional square wave
Output Current	:	0.8 Ampere (variable current model optional)
Frequency Range	:	20 to 120 Hz
Pulse Width	:	0.3 to 1.5 ms
Mode	:	Auto & Manual
Stimulus Duration in Auto Mode	:	0.1 to 8 sec. in step of 0.1 sec.
Minimum Power	:	4 joules for 220 Ohm Patient Impedance
Maximum Power	:	255 joules for 220 Ohm Patient impedance
Energy Display	:	Energy in joules displayed automatically
Charge	:	3 to 2295 millicoulombs
Impedance Check	:	Continuous Impedance monitoring
Size	:	350 (L) x 210 (W) x 110 (H) mm
Weight	:	3 Kgs.

Standard Accessories

ECT Head band with TREAT Switch	:	01 No.
Rubber Strap Electrode	:	01 No.
Bite Block	:	02 No.
Instruction Manual	:	01 No.
Fuses	:	02 Nos.
Conductive Gel	:	01 No.

Optional Accessories

Unilateral electrode	:	
SPO ₂ Probe	:	

MARKETED BY
R.S. Enterprises



ENTERPRISES

Head Office
R.S. Enterprises
Mayfair Crown B-202
Zila Parishad Road
Jyoti Nagar, Siliguri
734001

Kolkata Branch
R.S. Enterprises
Upohor Complex
C-2/614, Chakgaria
Kolkata - 94

Guwahati Branch
R.S. Enterprises
TechForce,
Harakanta Sarmah Bhawan,
Mazzanine floor,
Dr. B. Borooah Road,
Ulubari, Guwahati 781007

An ISO 9001:2015 Certified Company

www.rsenterprisesindia.co.in

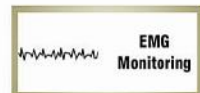
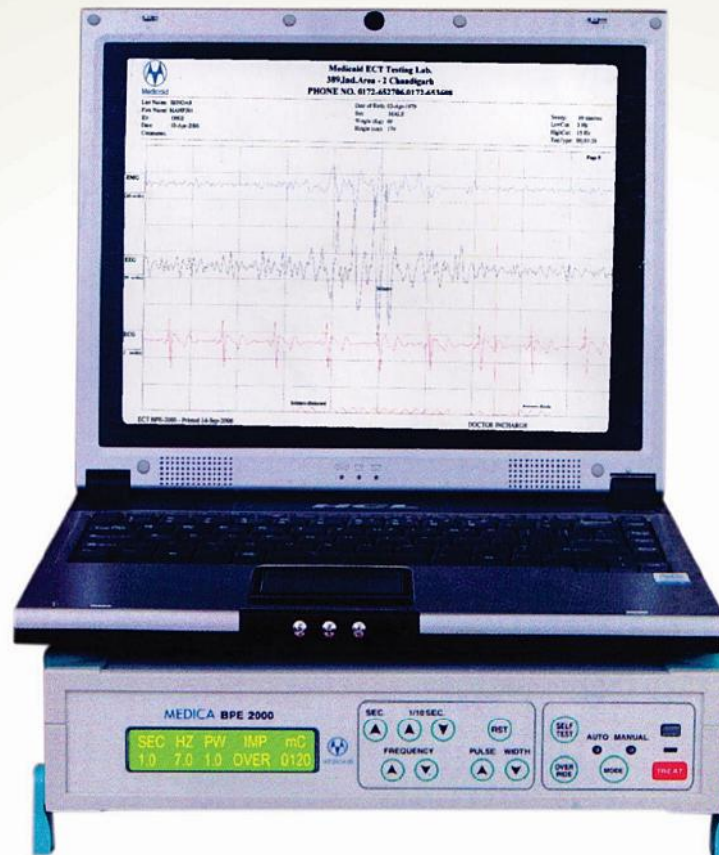
E-mail: rsenterprises27@gmail.com

Phone: 98323632661 / 9800685887 / 9474878436

MANUFACTURED BY
Medicaid Systems

MEDICA BPE-2000

Computerised Brief Pulse-Sine Wave Constant Current ECT system



- Brief pulse and Sine Wave operating mode
- Real time data storage with all treatment parameter on hard disk and review facility
- Display for EEG - ECG - EMG and Motor Movement.

MEDICA (BPE-2000) Computerised Brief Pulse - Sine Wave ECT machine gives stimulation of either Bi-Polar Brief Pulse or Sine Wave and displays EEG - ECG - EMG and Motor Movement with OMS (Optical motion sensor) during seizure on monitor and stores in hard disk. The stored data can be reviewed, analysed, transfer to CD and one can take hard copy through any Inkjet/Laser printer.

Salient features

- Opto-Isolation amplifier techniques for patient safety.
- Operating systems Windows based 98/ME/XP compliant.
- Online calculation of heart rate.
- Infinite event marking.
- Auto seizure detection and calculation.
- All stimulus parameter display on LCD as well as on monitor screen.
- Real time data storage & review facility.
- Protection against paddle to paddle short circuit or open circuit conditions provide.
- Monitoring software to view physiological monitoring upto 5 traces.
- A comprehensive database to store the complete patient information and can be configured according to user needs.
- ECT module can be used in stand-alone mode also.
- Complete ECT data transfer on CD & play back without additional software.
- Upgradable to 24-32 channel video and digital EEG.

Seizure

ECT Section

Pulse configuration	: Bi-directional square wave
Output Current	: Selectable from 600 MA-900 MA in steps of 50 MA each.
frequency Range	: 20 to 120 Hz.
Pulse Width	: 0.5 ms to 1.5 ms.
Mode	: Auto & Manual.
Stimulus Duration in Auto Mode	: 0.1 sec. to 5.9 sec. in step of 0.1 sec.
Minimum Power	: 0.6 Joules for 220 ohm patient impedance
Maximum Power	: 205.8 Joules for 220 ohm
Energy Display	: Energy in joules gets calculated automatically & displayed on LCD as well as on Monitor screen
Charge	: 5.0 to 1400 milli coulombs.
Impedance Check	: Impedance of patient is displayed as Pass/Fail by pressing keys.
Auto Stimulus Abort	: press Auto & release Abort.
Audio-Visual Signal	: Available prior & after ECT and also on any error event.

Minimum Computer Hardware Requirements

Pentium-IV, 128 MB RAM, 1.44 MB FDD, 40 GB HDD, Writable CD-ROM, Keyboard, Mouse, Colour Monitor 15", PRINTER : Any Inkjet Colour Printer supporting windows (Laser Printer & Mobile cart optional)

EEG Amplifier

Sensitivity	: (10,20,100, 200, 500 μ v/div 1mv, 2mv/div)
Low-Cut	: 0.1, 0.3, 1 & 3 Hz
High-Cut	: 15, 35, 70, 100 & 120 Hz
Notch	: 50/60 Hz
Sweep Speed	: 5mm / sec, 10mm / sec.
CMRR	: better than 90 db

ECG Amplifier

Sensitivity	: (0.5, 1, 2 & 5 mv/div)
CMRR	: Better than 80 db
Lo-Cut	: 0.5, 0.1 & 1 Hz.
Hi-Cut	: 15, 35, 70 & 100 Hz.
Notch Filter	: 50/60 Hz
Sweep Speed	: 5mm/sec, 10mm/sec.

EMG Amplifier

Sensitivity	: (20,50, 100, 200, 500 μ v/div 1, 2mv/div)
CMRR	: better than 90 db
Low-Cut	: 0.1, 0.3, 1 & 3 Hz
High-Cut	: 15, 35, 70, 100 & 120 Hz
Notch	: 50/60 Hz
Sweep Speed	: 5mm / sec, 10mm / sec.

Accessories

ECT Head Band with TREAT Switch	- 2 Nos.
Rubber Strap Electrode	- 1 No.
Earthing Wire	- 1 No.
Bite Block	- 5 Nos.
Fuses	- 5 Nos.
EEG Electrodes	- 10 Nos.
ECG Electrodes	- 4 Nos.
EMG Electrodes	- 4 Nos.
OMS Sensor	- 1 No.
Conductive Jelly	- 1 Bottle.
Paper Rim(A4 Size)	- 500 Sheets.
Instruction Manual	- 1 No.

MEDICAID also manufactures COMPUTERISED TMT, PULSE OXIMETER, PC BASED SPIROMETER, DIGITAL EEG, VIDEO EEG, BIOFEEDBACK, EMG/NCV/EP MACHINE, ENG MACHINE, CARDIOFAX ECG MACHINE, POLYGRAPH, STUDENT PHYSIOGRAPH, LIE DETECTOR, SLEEP CARE, POLYSOMNOGRAPH & PSYCHOLOGY INSTRUMENTS etc.

MARKETED BY
R.S. Enterprises



ENTERPRISES

Head Office
R.S. Enterprises
Mayfair Crown B-202
Zila Parishad Road
Jyoti Nagar, Siliguri
734001

Kolkata Branch
R.S. Enterprises
Upohor Complex
C-2/614, Chakgaria
Kolkata - 94

Guwahati Branch
R.S. Enterprises
TechForce,
Harakanta Sarmah Bhawan,
Mazzanine floor,
Dr. B. Borooah Road,
Opp B Barooah college, Ulubari,
Guwahati 781007

An ISO 9001:2015 Certified Company

www.rsenterprisesindia.co.in

E-mail: rsenterprises27@gmail.com

Phone: 9832363266 / 9800685887 / 9474878436

MANUFACTURED BY
Medicaid Systems