

Requirement and Specifications

Category 1

SN.	REQUIREMENT	QUANTITY
1	Combination unit (Electrotherapy,Ultrasound,Vacuum) with Trolley	1
2	Ultrasound therapy Machine with Trolley	1
3	Electrotherapy Machine with Trolley	1
4	Lasertherapy Machine With trolley	1
5	Transcutaneous Electrical nerve stimulator 4 Channel	1
6	Transcutaneous Electrical nerve stimulator 2 Channel	1

Category 2

SN.	REQUIREMENT	QUANTITY
7	Traction unit with Table	1
8	Vibrating massage pad with all accessories	1
9	CP Motion	1
10	Physiotherapy Couch	2
11	Exercise bike with ergometer	1

Category 3

SN.	REQUIREMENT	QUANTITY
12	Rep exercise band level 1 peach 5,5 m	5
13	Rep exercise band level 2 orange 5,5 m	5
14	Rep exercise band level 3 green 5,5 m	5
15	Rep exercise band level 4 blue 5,5 m	5
16	Rep exercise band level 5 purple 5,5 m	5
17	Rep putty extra soft, orange 80 gram	5
18	Rep putty soft, orange 80 gram	5
19	Rep putty medium, green 80 gram	5
20	Rep putty firm, blue 80 gram	5
21	Rep putty extra firm, violet 80 gram	5
22	Dumb-bell, 0.5kg, set of 2	1
23	Dumb-bell, 1 kg, set of 2	1
24	Dumb-bell, 2 kg, set of 2	1
25	Dumb-bell, 3 kg, set of 2	1

26	Dumb-bell, 4 kg, set of 2	1
27	Dumb-bell, 5 kg, set of 2	1

Technical specification (Category 1)

Technical Specifications mentioned below are of minimum parameter, products offered must meet these or exceed all requirements herein.

1. Combination unit (Electrotherapy, Ultrasound, Vacuum) with Trolley

GENERAL SPECIFICATION

- The unit should come with advanced Touch screen technology for simple operation.
- The unit shall be used individually or simultaneously in combination therapy.
- Shall have wide library of preset protocols for easy and effective application, Full–color encyclopedia with anatomical images, description of therapies and positioning of applicators for treatment protocols.
- The unit must have a minimum number of treatment protocol for Electrotherapy, ultrasound & Combination therapy.
- Heated ultrasound heads with frequency of 1 & 3MHz.
- The unit can have a Hands-free Sono applicator.
- It must Include a rotary knob for increasing Intensity.
- Number of heads simultaneously connected 2
- Pulse frequency 16 Hz, 48 Hz & 100 Hz
- Duty factor 5–100 %
- Max. intensity in continuous mode 2 W / cm²
- Max. intensity in pulsed mode 3 W / cm²
- The system should be upgradable.
- The Electrotherapy should have 2 Independent channels.

The preferred Electrotherapy waveforms are,

1. Interferential current,
2. Premodulated IFC (2-pole)
3. Asymmetrical Biphasic current
4. TENS
5. Symmetrical Biphasic current
6. TENS
7. VMS



8. Dipole
9. VMS Burst
10. VMS FR
11. Monophasic Triangular Pulsed
12. Monophasic Rectangular Pulsed
13. Galvanic,
14. Galvanic Interrupted,
15. Low Level Galvanic, Russian
16. Microcurrent
17. Diadynamic
18. Surged Monophasic Triangular
19. Surged Monophasic Rectangular

The channel selection should be as follows.

1. Mono/ 1 programme – 1 channel
2. Twin/ 1 programme – 2 channels
3. Duo / 2 different programmes – 2 channels

This model can have a Vacuum unit integrated with trolley

- Vacuum range 0 to 600 mbar maximum +/-5%
- Two independent outputs.
- Continuous and pulsed mode.
- Different levels of vacuum intensity.
- Vacuum wave frequency: 15-90 pulses / min.
- The offer must include all standard accessories desired for proper functioning of the machine as per requirement.
- Should have Well–designed durable trolley for everyday use.
- The unit must have an intelligent data base management system for the followings, all patient relevant information and easy recall of patients records and related treatments.

STANDARD ACCESSORIES

- 2x electrode connection cable– (light grey and dark grey)
- 4x flat rubber electrode.
- 15x Adhesive electrodes (standard size)
- Sponge covers
- Set of fixation straps.
- 5 cm² Ultrasound applicator
- Hands free sono applicator (optional)
- Ultrasound gel bottle - 250 ml
- 2x vacuum electrode connection cable

- 4× vacuum electrode 60 mm

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

SAFETY STANDARD AND TRAINING

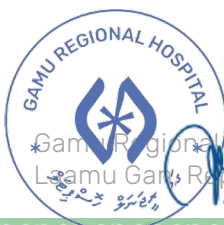
- **Classification:** Class 1 Type BF (EN 60601-1)
- Should be UFDA, CE, UL or BIS approved (valid documentation should be submitted in technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.
- Prefer to have Online (or) offline demonstration.



2. Ultrasound therapy Machine with Trolley

SCOPE OF EQUIPMENT:

Ultrasound uses a high frequency sound wave emitted from the sound head when electricity is passed through a quartz crystal. The sound waves cause the vibration of water molecules deep within tissue causing a heating effect. When the sound waves are pulsed, they cause a vibration of the tissue rather than heating. The stream of sound waves helps with nutrition exchange at the cellular level and healing. Ultrasound is helpful for ligament healing and clinically for carpal tunnel syndrome, and muscle spasm.

GENERAL SPECIFICATION

- The equipment should be a microprocessor based continuous & pulsed modes, adjustable digital timer, auto shut off with buzzer easy to use & sturdy machine.
- It shall have color LCD Touch screen to parameters and Body Part Navigation.
- It should have a comprehensive reference library providing information on therapy, treatments and probe placement.
- It should have Frequency of 1 & 3 MHz, Intensity of 0-3 w/Cm² with display of output parameters along with timer and two water proof treatment heads, one large to 5 cm, second small up to 1.0 cm
- Maximum Intensity 1.5 W/cm² in CW, 3.0W/cm² pulsed
- It must Include a rotary knob for increasing Intensity.
- It should come with Preset protocols and therapeutic encyclopedia.
- The unit can have built in software packages for service.
- There shall be an optional Hands-free Sono applicator.
- The patient database should be stored.
- The system shall be upgradable.
- It must include all standard accessories desired for proper functioning of the machine as per requirement.
- The unit should have an Optional cart.

ACCESSORIES

- Multifrequency heads 5 cm²

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.



SAFETY STANDARD AND TRAINING

- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted during technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and basic trouble shooting steps for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.
- Prefer to have Online (or) offline demonstration.



3. Electrotherapy Machine with Trolley

PURPOSE OF EQUIPMENT:

Electrotherapy is a method of medical treatment which uses electric current to the affected areas. Since it is a non-invasive treatment method, it is not painful. People only feel relaxed during their sessions. In some cases, they can experience vibration or little tingling in the body. It is mostly used by experienced physiotherapists to treat a variety of conditions ranging from muscle pain to arthritis. This treatment option is useful for treating chronic pain, muscle wasting, musculoskeletal injuries, and nerve pain by using targeted and controlled electrical stimulation.

GENERAL SPECIFICATION

- The equipment should be a microprocessor based with Intelligent interface and interactive lights indicating status of device or port.
- It should have color LCD Touch screen to parameters and Body Part Navigation.
- It should have a comprehensive reference library providing information on therapy, treatments and electrode placement.
- It should have 2 independent channels.
- It must Include a rotary knob for increasing Intensity.
- The preferred waveforms are Galv, DD, LF, biphasic, MF, MF/LF, Interferential, TENS, Monophasic Triangular Pulsed, Monophasic Rectangular Pulsed Etc.
- Built in suggested protocols based on currently available clinical evidence.
- Custom protocols can be stored.
- The system can be upgradable.
- It should not compromise with quality, reliability and durability.
- It must include all standard accessories desired for proper functioning of the machine as per requirement.
- It should have an optional cart with storage drawers and large wheels.

STANDARD ACCESSORIES

- Electrode connection cable set of 2 of 2 core
- Flat rubber electrode (Standard size) Set of 4
- Moist pads for rubber electrodes set of 4
- 15x Adhesive electrodes (standard size)
- Sponge covers.
- Set of fixation straps.

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.



SAFETY STANDARD AND TRAINING

- Electrical Type (Degree of protection) Type BF /CLASS II
- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted during technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and basic trouble shooting steps for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.
- Prefer to have Online (or) offline demonstration.



4. Lasertherapy Machine With trolley

Purpose of Equipment:

Therapy with laser light is a widely used method in physical therapy. Laser therapy is a treatment with high-energy light which introduces large quantities of light into the tissue. As a result, healing is stimulated in a sustained manner. In particular, high-power laser therapy in which high intensities are used is becoming increasingly important.

GENERAL SPECIFICATION

- The Unit should have an advanced touch screen and equipped with automatic therapy protocols for easy and effective operation.
- The system must be equipped with an integrated temperature sensor for skin temperature measurement.
- Laser Type: Class IV, Solid State
- Laser Power: maximum of 25W
- The applicator must have an ergonomic design.
- Minimum of 2 different spacers must be supplied /size 10 mm 30 mm 60 mm
- Operating Modes: CW or Pulsed
- Mode of application can be manual.
- Penetration depth minimum of 10cm.
- There should be a wavelength selection – 810nm, 980nm, 1064nm
- It should have a comprehensive reference library providing information on therapy, treatments and probe placement.
- The unit must have built in software packages for service.
- Prefer to have automatic laser source calibration.
- There should be a mandatory emergency off switch.
- The patient database should be stored.
- The system should be upgradable.
- The offer must include all standard accessories desired for proper functioning of the machine as per requirement.
- Minimum of 2 Safety eyewear/goggles must be supplied.
- The unit should have an Optional cart.

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

SAFETY STANDARD AND TRAINING

- Electrical safety class-II & Type B according to EN 60601-1
- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted during technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and basic trouble shooting steps for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years. (Mandatory)
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.
- Prefer to have Online (or) offline demonstration.

5. Transcutaneous Electrical nerve stimulator 4 Channel

SCOPE OF EQUIPMENT

TENS 4 channel can be treated chronic pain, patients recovering from a traumatic condition, immobilization as well as maintain or improve muscle function in healthy individuals using TENS (Transcutaneous Electrical Nerve Stimulation) and NMES (Neuro Muscular Electrostimulation) currents. This makes the device ideal for sport and rehabilitation.

GENERAL SPECIFICATION

- It should have minimum of 150-200 pre-programs in different application.
- The following features are considerable, Syncro -stim (Increase/decrease the intensity of all 4 channels simultaneously using only one button) Body Parts navigation and QUICK protocols, Run-time function, Multi-user, Favorites Permits to store up to 15 customized TENS and NMES programs for each user, Working time, Backlit display.
- Availability Spare parts and all other accessories must be for 10 years.
- On site Comprehensive warranty for 2 years.

TECHNICAL SPECIFICATION

- Numbers of channels: 4 independent channels
- Intensity: 0-120 mA per channel
- Wave form: symmetrical biphasic pulse, 100% compensated
- Constant current: up to a resistance of 1000 ohm
- Frequency: 0.3 – 150 Hz Pulse
- width (single phase): 50-450 μ s
- Total pulse width 100-900 μ s
- Number of pre-set programs: 250
- Numbers of personal programs: 15
- Stimulation forms: Continuous / conventional, Burst, Frequency Modulation, Pulse Width Modulation Phase Duration Modulation), Constant, Intermittent, Active Rest (electrostimulation during resting phase)
- Timer: max. 120 min (4 subsequent phases of each 30 min)
- Power supply: Battery / Mains
- Battery: Rechargeable battery (NI-MH / 1.8 Ah / 7.2V)
- Weight: 404 g

STANDARD ACCESSORIES

1. Carrying bag,
2. 2xCables for electrode connection,
3. 4xSelf-adhesive square electrodes (50x50mm)
4. 4xSelf-adhesive rectangular electrodes (50x90mm)
5. Charger and User manual.

POWER SUPPLY REQUIREMENT

- Charger: Input: 100-240VAC~50-60Hz 0.2A Output: +8.8V \square 0.2A

SAFETY STANDARD AND TRAINING

- Classification: Class 1 Type BF (EN 60601-1)
- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted in technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.

6. Transcutaneous Electrical nerve stimulator 2 Channel

General Specification

- Product should have 2 independent channels.
- It should supply with minimum of 10 pre-defined programs, 3 customizable programs.
- Product must have Protection system to prevent the patient from changing any parameters.
- Prefer to have the following programs
 - a. Pain relief programs: burst, low/high frequency, frequency modulation
 - b. Sport programs
 - c. Fitness, Beauty & Wellness
 - d. Pain (TENS)
 - e. Prevention
 - f. Rehabilitation
 - g. Incontinence.
- It should be battery operated.

Technical specification

- Intensity: 0-100 mA per channel
- Wave form: symmetrical biphasic pulse, 100% compensated
- Constant current: up to a resistance of 1000 ohm
- Frequency: 1 – 150 Hz
- Pulse width (single phase): 50-400 μ s
- Total pulse width 100-800 μ s
- Timer: max. 100 min
- Power supply: Mains or battery
- Battery: Rechargeable battery (NI-MH / 800mAh / 4.8V)
- Charger: Input: 100-240VAC, 50-60Hz, 0,32 max. Output: 6,5V --- 200mA
- Weight: 220 g
- Backlit display



STANDARD ACCESSORIES

1. Carrying bag,
2. 2xCables for electrode connection,
3. 4xSelf-adhesive square electrodes (50x50mm)
4. 4xSelf-adhesive rectangular electrodes (50x90mm)
5. Charger and User manual.

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

SAFETY STANDARD AND TRAINING

- Classification: Class 1 Type BF (EN 60601-1)
- Should be FDA, CE, UL or BIS approved (valid documentation should be submitted in technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.

Technical specification (Category 2)

Technical Specifications mentioned below are of minimum parameter, products offered must meet these or exceed all requirements herein.

7. Traction unit with Table

PURPOSE OF EQUIPMENT:

In modern medicine, spinal distraction has been used as a treatment option to help relieve back pain resulting from herniated, bulging, or protruding discs associated with various spine injuries and pathologies. Stretching the spine helps reduce pressure on the intervertebral disc, relieves compression and irritation of the nerve roots and improves sagittal spine alignment. These devices provide traction and mobilization of skeletal structures and skeletal muscles for the relief of peripheral radiation, sciatica and pain. The device achieves its effects through mechanical traction of intervertebral discs, that is, unloading due to distraction and positioning. When pain is relieved by static stretching, the muscle activity is also reduced, which can be demonstrated by quantitative electromyography.

GENERAL SPECIFICATION

- The traction unit should have Full color graphics library includes anatomical images, common pathologies, and detailed belting techniques on high-resolution touch-screen.
- This can be adjusted to various traction force between 1.5 to 90 kg. Variable in steps of 0.5 up to 10 kg and then in steps of 1 up to 90 kg.
- It should have more than 20 pre-set Protocol for treatment indications with Suggestive placement of Traction belts.
- The unit should have Traction Hold time settings of 0 -60 sec.
- Treatment modes Static, intermittent, and cycling traction.
- Variable speed motor (30%, 50% and 100%)
- The unit should have indication against accidental settings of force over 22kg.
- **Traction Range**
 - 1, Cervical traction force: continuously adjustable within 222N, range 1N
 - 2, Lumbar traction force: continuously adjustable within 889N, range 1N
- **Traction Time**
 - a) Maximum traction force: 0 to 99s, range 1s and tolerance \pm 30s.
 - b) Minimum release force: 0 to 99s, range 1s and tolerance \pm 30s.
- **Treatment Time:** 1~99min, range 1min, tolerance \pm 20s, and there is a buzzer sound after the treatment.
- The traction speed must be adjustable in three levels.

- The unit should have got emergency Stop Button switch.
- The package should include the fixed height traction Bed, Flexion Stool traction belts, Spreader bar.
- It should have more than 100 memory position to store patient data.

All necessary accessories for the start and functioning of the equipment has to be supplied.

TRACTION TABLE

- Fully electric and highly adjustable.
- Remote control for automated table section adjustment.
- The treatment table can be a 6-section to provide maximum patient comfort in prone and supine positions for manual and traction therapy.
- Should be easy to transport and secure once in place.
- The table must be equipped with Complete range of accessories to suit every patient need.

Minimum Required Dimensions:

1. Total 230x95x80cm
2. Table+Trac. Arm 279 cm
3. Total Table Length 217 cm
4. Head/Back section 72 cm
5. Mid. section 22 cm
6. Pelvic section 26 cm
7. Leg section 77 cm
8. Width 70 cm

Adjustment

Angle Inclination

1. Head: -30° to +40°
2. Pelvic: 0° to 20°
3. Leg: 0° to 45°

Displacement

1. Leg: 10 cm

Table Height

- 1, Min 48 cm
 - 2, Max 95 cm
- Dynamic lifting capacity: ≤ 200 kg
 - Max. workload: ≤ 275 kg



- Table Weight: 225 Kg
- Lifting time (min.-max.): approximately 18 sec
- Electrical Safety Class: Class I, Type B

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

SAFETY STANDARD AND TRAINING

- Electrical Safety Class- Class 1, Type B
- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted in technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid)
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.
- Prefer to have Online (or) offline demonstration.

8. Vibrating massage pad with all accessories

PURPOSE OF EQUIPMENT:

The Senator increases the flow of blood to treated areas, thereby supplying the tissues with oxygen and nutrition (food), eliminating the waste products of metabolism and remove toxins and waste quicker out of the body. Powerful vibration is useful for back, neck, shoulders, chest, hands, abdomen, hips, legs, sciatica, buttocks, thighs, calves and feet as well as deep layers of tissue and fascia. Also, it enhances circulation and removes dead skin cells.

GENERAL SPECIFICATION

- It must have optimal ergonomic design and cooling system.
- It should be equipped with a powerful motor for tri-dimensional movement.
- It should be able to provide vertical as well as horizontal oscillations.
- It should include a convenient carry case with handle.
- It should be made with Synthetic and shock-resistant material.
- Smooth rubber cover for enhanced deep layer effect.
- Nylon bristle brush -Provides a stimulating effect to the area of the skin.
- The equipment should come with standard accessories & optional accessories (Foam rubber applicator, burlled foam applicator, Hyperemia brush, synthetic Hyperemia brush-natural hair) **(soft rubber jacket with CUPS, Natural bristle brush)**
- It should provide easily exchangeable and inexpensive spare parts.



Figure :01



Figure:02

TECHNICAL SPECIFICATION

- Voltage: 220-240V / 50-60Hz.
- Weight: approx. 1,6 kg
- Speed adjustment: minimum 2 level.
- Device Housing: color white
- Maintenance free high-performance engine.

SAFETY STANDARD AND TRAINING

- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted in technical bid).

- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.



9. CP Motion (continuous passive motion machine)

PURPOSE OF EQUIPMENT:

A continuous passive motion (CPM) machine is a motorized device that passively moves a joint through a pre-set range of motion. These devices may be used after surgery to reduce joint stiffness and improve range of motion. They're sometimes used after knee replacement surgery but can also be used after elbow, hip, or shoulder surgery.

GENERAL SPECIFICATION

- The design must be ultimate all in one solution – Single Unit for all three legs joint
- Lightweight (15 kg) robust design, able to withstand +/-30 kg of force.
- Designed to ensure anatomically correct movements are maintained.
- Computer controlled motor for CAM and coordination therapies Fully adjustable to suit different patient sizes and heights
- The system should have the following Pre-set protocol, User-defined protocol, Advanced therapy settings.
- The ankle module design should be advanced.
- Remote control with touch screen.
- Knee extension/flexion > -10°/123°
- Ankle extension/flexion > 25°/40°
- Max. movement speed can be 380°/min
- Max. Patient Weight: 275 kg

All necessary accessories for the start and functioning of the equipment has to be supplied

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

SAFETY STANDARD AND TRAINING

- Classification: Class 1 Type BF (EN 60601-1)
- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted in technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.



DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.
- Prefer to have Online (or) offline demonstration.



10. Physiotherapy Couch

GENERAL SPECIFICATION

- The couch should be applicable for lying and sitting positions, Trendelenburg and flexion position, which can be adjusted during treatment with the patient simply remaining on the couch.
- The appearance must be elegant and it should be sturdy on its retractable castors.
- Prefer wheel raising mechanism for easy movement of the couch.
- The Head section folds down completely for better access of the cervical region.
- Should have option of mouth opening with cover allowing proximal or distal movement of the patient even when lying in prone position.
- Customizable colour for frame & upholstery.

DIMENSIONS

1. Dimensions, length x width (cm) 200 x 65
2. Minimum electric lifting capacity 150 kg
3. The Electric height adjustment (cm) 50 - 105
4. Can have Manually adjustable height.
5. Height Adjustment- Remote/foot switch
6. Lifting time (min.-max.) approximately 18 sec.
7. head end adjustable by gas strut.
8. leg position adjustable by gas strut.

UPHOLSERY OPTIONS

1. Minimum section width, 65cm
2. Thickness, 4cm
3. Form density - 38kg/m³
4. Nose hole design- Triangular shaped.
5. Number of cushioned segments 4
6. 3-part head bolster.
7. Mouth opening in bolster with cover.
8. The design of head end & foot end can be conical narrowing.

ACCESSORIES

1. Castors with brake - 70 or 100mm
2. Electric foot control (or) Remote control unit
3. Half roll, flat bottom, small, especially for the ankle - 28x9x11 cm
4. Half roll, flat bottom, large- 56x16x18 cm
5. Massage roll - 50x Ø15 cm

Note: The supplier has to ensure the minimum required quantity for each bed.

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

SAFETY STANDARD AND TRAINING

- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted in technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of Equipment available for providing calibration and routine Preventive maintenance support as per manufacturer guideline.
- List of important spare parts and accessories with part number and costing.
- Log book with instruction for daily weekly monthly and quarterly maintenance checklist.

ADDITIONAL CONDITIONS

- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- Original catalogue with detailed literature should be provided.
- A written commitment of maintenance during and after the warranty period.
- Manufacturer/Supplier should install and successfully run and demonstrate the instrument.

11. Exercise bike with ergometer

GENERAL SPECIFICATION

- Accurate instrumentation to measure Heart Rate, Speed, Distance, Time and Energy.
- Body made of steel with powder painted finish.
- Friction free electromagnetic resistance.
- Telemetric hand grips provide pulse rate readings; optional Bluetooth® chest strap transmitter can also be used.
- Heart Rate Control Programs automatically adjust resistance to maintain target rate
- Workout data displayed include: Time, Speed, Distance, RPM, Brake level, Energy consumption and Heart Rate
- Comprehensive Programmable features with Large LED touch screen.
- Built in hand grip pulse sensor.
- Durable pedals with shock absorbing air cushion and adjustable strap/strap adjustable buckle.
- The foot straps on the ergonomically shaped anti-slip pedals should be adjustable.
- Large adjustable softer seat.
- The saddle must be adjustable to horizontal and vertically.
- Horizontal and vertical adjustability of the handlebars.
- Flywheel system can be 7-11kg.
- The minimum User weight can be 135kg.
- There should be a roller for easy transport.

All necessary accessories for the start and functioning of the equipment has to be supplied.

POWER SUPPLY REQUIREMENT

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

SAFETY STANDARD AND TRAINING

- Should be FDA, CE, UL of BIS approved (valid documentation should be submitted in technical bid).
- Manufacture should have ISO certificate for quality standards (valid documentation should be submitted in technical bid).
- Comprehensive training for Operator and Services Support for In- House Biomedical Engineer.
- On site Comprehensive warranty for 2 years.
- Availability Spare parts and all other accessories must be for 10 years.

DOCUMENTATION

- User/Technical/Maintenance manuals to be supplied in English.
- Certificate of calibration and inspection.
- List of important spare parts and accessories with part number and costing.

Technical specification (Category 3)

Technical Specifications mentioned below are of minimum parameter, products offered must meet these or exceed all requirements herein.

(12-16) Product Name: EXERCISE BAND

- The product should be non-latex, powdered free and odorless.
- It must be multicolored, following colors are preferable “Peach, yellow, orange, green, blue, purple & Red”
- The band strength should be in different level.
- Size preference minimum of 5.5meter length and 1-5mm thick.
- Should supports broader range of exercises – extension and eccentric.



(17-21) Product Name: THERAPEUTIC PUTTY

- The product must be non-toxic, clean, anti-microbial and non-oily.
- Therapeutic putty should be in different resistance (**Extra soft, Soft, medium, firm, Extra firm**) according to color sequence.
- The product should be made from a silicone polymer and is gluten, latex, nuts, egg and soy free.
- Preferred to have convenient plastic container for easy storage.



(22-25) Product Name: DUMB-BELL

- Solid steel dumbbells with chrome plated finish.
- It must contain 5 pairs, set consist of 2 dumb bells of each weight: 0.5Kg, 1kg, 2kg, 3kg, 4kg & 5kg.
- Must supply preassembled unit ready to use.
- Dumbbell shall be in different colors according to weight.
- Comprehensive warranty for 1 year.

