

PRODUCTS CATALOG

GeenTech International is a Pakistan Based International company dealing in Assisted Reproductive Technologies. Being the exclusive distributors of the World's famous multinational companies of Assisted reproductive technologies, GeenTech International is committed to be the revolutionizing agent in Country's Animal reproduction Field.





Dr. Ahsan Ullah Awan
CEO
GeenTech International

WELCOME

GeenTech International, headquartered in Pakistan, holds a prominent position as a global player in the realm of Assisted Reproductive Technologies (ART). As the exclusive distributors of renowned multinational companies specializing in ART, our commitment is to spearhead a transformative revolution in the country's animal reproduction field. We proudly represent the following esteemed companies: Minitube Germany, Stroebech Denmark, MVE Chart USA, IVF BioScience UK, AXCE France, OHG Genetics Germany, and Rockyrepro Australia.

Our comprehensive range of offerings covers full semen lab equipment, embryo processing lab equipment, and IVF lab equipment. In addition to these, we provide essential tools such as AI guns, Semen Straws, Liquid Nitrogen Containers, and various other reproduction assistive tools. GeenTech International stands at the forefront of advancing technologies in assisted reproduction, ensuring that our clients have access to cutting-edge solutions from globally recognized industry leaders.

TABLE OF CONTENT

Bovines

- **Minitube**
- **Stroebech Media**
- **AXCE France**

Equines

- **Minitube**
- **Stroebech Media**

MVE Chart USA

Thank You



BOVINES

Assisted Reproductive Technologies In Bovines

**All the necessary equipment
and consumables for Semen
and Embryo collection,
analysis, processing, and
artificial insemination in
cattle**

www.geentechintl.com

1. SEMEN COLLECTION

Bovine Artificial Vagina

- Artificial vagina casing with valve
- 20 cm
- 30 cm
- 35 cm
- 41 cm



Latex inner liner

- Latex inner liner smooth, 650 mm
- Latex inner liner Rough, 650 mm
- Latex inner liner rough, 480 mm



Disposable inner liner

- With integrated collection vial (15 ml) and lid, sterilized
- Conical form, open end
- Conical form, closed end



Director cone

- latex
- silicone



Warming bag

- 18 cm
- 35 cm
- 45 cm



ReproJelly

- Non-spermicidal lubricant, water soluble
- 100ml & 3 litres



Bovine collection dummy

- Mobile
- Stationary



Collection vial

- Plastic
- Graduated
- With lid
- 15 ml



Thermometer For AV

- Bimetal, non-breakable, up to +100°C
- Up to +100°C, graduation 0.1°C, red filling



2.SEMEN EVALUATION

AndroScope, mobile semen analysis unit

Accessaries Available

- Disposable counting chamber
Minitube, 20 μ m, 4 chambers, 25/box
- Test tube 2 ml with cap, 250/bag
- Disposable capillary tube, 100/bag
- Micro fiber rod, length 124 mm,
100/bag



<https://youtu.be/U2higqQPipU>

AndroVision (CASA software with PC and monitor)

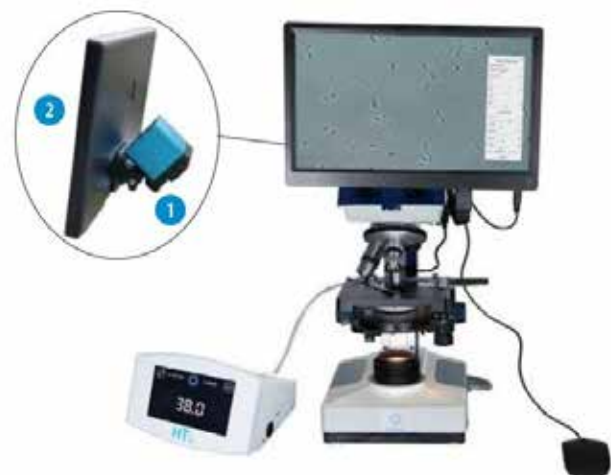
Accessaries Available

- Phase contrast microscope Zeiss Axiolab 5
- ScanStage, automated microscope stage with integrated heating system Controller HTi 200
- Warming plate, 245 x 200 mm



Phase contrast microscope MBL 2000

- Binocular, heated stage, HTi 50, objectives 10x, 40x,100x
- With camera and monitor



Photometer SDM 6

Accessories Available

- Control cuvette set, 4 pieces
- Paper for printer
- Macrocuvette, 4 ml, 100/package
- NaCl solution, 0.9 %, 1 l
- Dispenser, 0.5-5 ml for NaCl solution
- Bottle for dispenser, 500 ml
- Adjustable single channel pipette,
yellow, autoclavable, 10-100 μ l
- Pipette tip, 10-100 μ l, yellow, 1000/bag



Photometer SDM 1

Accessories Available

- Microcuvette for SDM 1,
100/box
- Multispecies software for
reprogramming to other species



Eosin G stain, 2% solution for live/dead cells

- Stains damaged or dead sperm cells red. Supravital sperm stain with Eosin.
- 50 ml



Nigrosin stain, 4% solution for live/dead cells

- For supravital staining. Creates a dark background, which simplifies the evaluation. .
- 50 ml



3. SEMEN DILUTION

Water bath

- Working temperature range: minimum 5°C above ambient up to +100°C (depending on ambient pressure)
- Intuitive 3.5“ color graphic display with touch screen
- Water bath, 51 l,



Magnetic stirrer

- Heating capacity: 800 W
- Temperature range: +20 to +300°C
- Speed: up to 1400 revolutions per minute
- Maximum load: 20 l



Triladyl

- Triladyl :250 g for a total of 1250 g of extender
- Triladyl CSS, One-step :200 g, for a total of 1000 g of extender
- Internationally established for over 50 years



BoviFree

- BoviFree: 200 ml, for a total of 1000 ml of extender
- BoviFree CSS, One-step : 200 ml, for a total of 1000 ml of extender
- BoviFree CSS, Two-step: Fraction 1, 100 ml, for a total of 500 ml of extender



Note: Full Range of Bovine Semen Extenders from Minitube are available Do Visit (<https://www.minitube.com/catalog/en/bovine/bovine-semen-dilution/>)

4. STRAW PROCESSING AND FREEZING

EcoStraw, 0.25 ml

- EcoStraws feature a wick with a shorter inner wick section that absorbs 3 to 4% fewer sperm than the corresponding symmetrical wick of standard semen straws.
- 2000/bag



EcoStraw, 0.5 ml

- EcoStraws feature a wick with a shorter inner wick section that absorbs 3 to 4% fewer sperm than the corresponding symmetrical wick of standard semen straws.
- 2500/bag



TMPP Quattro, automatic Filling and Sealing machine for semen straws

- Capacity: approx. 15000 straws/hour
- Exchangeable hopper with 2200 straw capacity for 0.25 ml and 1300 straw capacity for 0.5 ml
- Touch-screen monitor showing number of filled straws, machine status, and straw size
- Double ejaculate control through built-in, adjustable balance and sensor: allows automatic switch from 4 needle filling to 1 needle filling at the end of the ejaculate
- Ultrasound sealing unit
- Available also as Minitube CombiSystem with MiniJet printer



EasyCoder, automatic printer

- Thermal transfer printer with automatic straw supply (output: up to 3600 straws per hour)
- Unparalleled precise and clear printing on 0.5 and 0.25 ml straws;
- Prints up to 3 lines per straw, including barcodes, logos, and special characters
- Control via PC by a clear and user-friendly Minitube software



MultiCoder, printer for lab items

- Versatile: print system can label most kinds of materials such as plastics, glass, or aluminum
- allow for a speedy work process
- Easy printing of information on the smallest amount of space, including text, barcode, QR-Code, and logo



Sealing ball, glass, for 0.5 ml straws

- 1000/package
- Glass Made
- For 0.5ml Straws



5. INSEMINATION AND DIAGNOSTICS

Universal AI sheath, non-split

- Absolutely tight fit with all types of straws
- Gentle insemination due to a soft shape of the tip
- Bags with adhesive tape for easy resealing and reopening
- 50 sheaths Per Pack



DIUI sheath for 0.25 ml straw

- Long, flexible sheath for insemination and embryo deposition deep inside the uterine horn.
- 10/bag



QuickLock Classic, bovine AI Gun

- All-purpose gun for all types of straws and sheaths, split or non-split
- Easy sheath fixation and release by just pressing a knob
- Stainless steel and sterilizable parts
- Identification with different colored stylets



QuickLock Ergo, bovine AI Gun

- Ideal for older cows due to greater usable length
- Easiest gun as far as cleaning is concerned
- No loose parts - safety catch prevents the plunger from sliding out
- Identification with different colored stylets



QuickLock 2000, bovine AI Gun

- Ergonomic design
- Only 1 cm of the sheath length is required for fixation
- Stainless steel and sterilizable parts
- Identification with different colored stylets



QuickLock Heater 4.0, for AI gun and embryo transfer device

- Freely adjustable temperature range
- Power supply with power bank (Separate)
- Transfer of Thawed semen, and embryos to maintain the optimal temperature until it is inseminated



MiniThaw thawing unit

- Variable temperature setting (ambient to +50°C)
- Digital display of actual temperature
- Straw lift has three compartments and allows thawing up to 10 straws at a time (0.5 ml or 0.25 ml)
- Can be used in the car (12 V/24 V) or plugged to the wall socket



MiniCutter for semen straws

- Facilitates straight cut at exactly the right length
- Precise cut of 0.25 and 0.5 ml straws.



6. EMBRYO TRANSFER AND OPU/IVP

Stereo-zoom microscope

- Mirror with LED illumination for improved visualization of zona pellucida
- Total magnification from 10x to 70x
- 2 eyepieces 10x



Manual sealing unit for straws

- Securely seals all kinds of straws by applying heat at the end of the straws
- Also seals in liquid nitrogen vapour
- Consists of a plier welding head adapted for straws and a control unit for varying heat level



CryoSealer Ultrasonic sealer for straws

- Can be used for 0.25, 0.5 ml straws and 0.3 ml CBS cryobiostraws
- Sealing time adjustable: 0.0 – 4.9 sec
- Power consumption: 75 W



Note: Variants of All equipments are available, Visit (<https://www.minitube.com/catalog/en/bovine/>) for more details

Silicone ET flushing catheter

- Reusable
- High transparency and good visibility
- Silicone catheter 2-way, Luer Lock: CH 12 ,CH 16 ,CH 18, CH 20
- Silicone catheter 3-way, Foley end: CH 16, CH 18, CH 20
- Stainless steel tip catheter, CH 12, 6 ports, Luer Lock



EmSafe system for embryo collection in bovine and equine

- Ideal for both large and small embryos
- Automatically holds a minimum level of 60 ml flushing fluid
- Connection to all types of Y-tubing (bovine and equine) is possible
- Absolute tightness
- Sterilized



Y-Junction tubing



Micropipettor for embryo handling



5-well dish with lid

Note: Variants of All equipments are available, Visit (<https://www.minitube.com/catalog/en/bovine/>) for more details



Steripette to manipulate embryos and oocytes



MiniStraw, 0.25 ml



ET Cannula for embryo transfer



Vitrification unit



BoviPlus OPU washing medium



BoviFlush embryo recovery medium



BoviFreeze, freezing medium for bovine embryos



Ultrasound device Versana Active



Aspiration pump for bovine OPU

Note: Variants of equipments full range of medias are available, visit (<https://www.minitube.com/catalog/en/bovine/>) for more details

STROEBECH MEDIAS FOR BOVINES

OPU Medium

- For retrieval of oocytes from Ovum Pick Up and for Embryo Flushing (ET)
- 500 ml medium
- The medium is ready-to-use and does not need any supplements



OPU Medium

- For handling of oocytes and embryos outside of the incubator
- 50 ml medium in glass bottle



IVM Medium

- For in vitro maturation of oocytes in the laboratory
- 20 ml IVM medium in glass bottle
- The medium is ready-to-use and does not need any supplements



Semen Wash Medium

- For washing of semen during centrifugation prior to in vitro fertilization
- 50 ml non-capacitating medium
- Also applies very well to sex-sorted semen



Sperm Gradient Upper Layer 45%

- For semen preparation for IVF ICSI and to be used in combination with Stroebech Semen Wash Medium
- 20 ml. Gradient Medium
- The medium is ready-to-use and does not need any supplements



Sperm Gradient Lower Layer 90%

- For semen preparation for IVF ICSI and to be used in combination with Stroebech Semen Wash Medium
- 20 ml. Gradient Medium
- The medium is ready-to-use



IVF Medium

- For in vitro fertilization of matured oocytes
- 20 ml IVF medium
- Suitable for culture in 4WP dishes with 500 μ l/well



IVC Medium

- For in vitro culture of embryos
- 20 ml IVC medium
- The medium is a one-step medium that can be used without change of medium for the entire period from inseminated oocytes to the blastocyst stages



Holding Medium

- For Embryo Holding/Transfer/Biopsy
- 20 ml medium
- For in vitro and in vivo ET embryos



Stroebech Heavy Oil

- Peroxide tested Pre-washed Oil
- 50 ml Oil for overlay of media
- Pharmaceutical grade light mineral oil



Vitrification Kit

- For vitrification of in vitro and in vivo embryos
- 3 vials each containing 2 ml
- Higher embryo survival and pregnancy rates with vitrification



Warming Kit

- For warming of in vitro and in vivo embryos
- 4 vials each containing 2 ml medium
- Particularly in vitro and biopsied embryos benefit from this cryopreservation method



Oocyte Vitrification Kit

- For Oocyte Vitrification
- 6 vials each containing 2 ml medium
- Media should not be pre-heated to more than 30°C prior to use



Oocyte Warming Kit

- For Oocyte Warming
- 6 vials each containing 2 ml medium
- Pre-heat media 38.8°C prior to use
- Leave lid on in order to avoid evaporation



H-IVM Medium

- For the in vitro maturation of oocytes outside the incubator
- 20 ml HEPES IVM medium
- The medium is ready-to-use and does not need any supplements



Eye Breed

- Allows the operator to inseminate cows without rectal palpation
- Insemination becomes accessible with peace of mind !



- 1st worldwide technological innovation, which allows for insemination without rectal palpation



Easy

Simple, intuitive handling: switch on, connect, inseminate, clean

EFFICIENCY

Pregnancy results identical to those of an experienced operator, obtained in just a few days

CONNECTED

A high-definition camera for a perfect view of vaginal cavity and mucus discharge during insemination

SERENITY

Operator and animal welfare thanks to the absence of the palpation



EQUINES

Assisted Reproductive Technologies In Equines

**Complete Embryo transfer
and Artificial Insemination
product line for horse
veterinarians, breeders,
and researchers**

1. SEMEN COLLECTION

Hannover artificial vagina

- Inner liner for Hannover AV, latex:
- long version, 100 cm
- short version, 70 cm
- Disposable inner liner for Hannover AV,
- 25/package
- Rubber band for Hannover AV
- Leather handle for Hannover AV



Colorado artificial vagina

- With 3 inner liners (tubular, conical, straight), 10 rubber bands, 2 clamps, 25 disposable inner liners, 25 semen bottles, 25 coupling nuts, 25 nylon filters, and warming bag. Robust tubular plastic casing with rounded openings. Valve assembly allows air to be added for adjustment of inner pressure



Equine semen filter pouch

- Non-woven, 150 x 60 mm (5.9 x 2.4"), 100/package



ReproJelly lubricant

- Recommended for AI, rectal palpation, ultrasound examinations and lubrication of AVs.
- Comes in a resealable 100 ml tube.



2.SEMEN ANALYSIS



**Phase contrast microscope
Olympus CX43**



Laboratory heating plate



**Digital color camera
for microscopes**



**Photometer SDM 1,
calibrated for equine**



**AndroVision CASA software
with PC**



**AndroScope, mobile
semen analysis unit**



Counting chamber



**Eosin G stain, 2%
solution for live/dead
cells**



**Nigrosin stain, 4%
solution for
live/dead cells**



Spermac stain kit



**Farely stain for
morphology evaluation**



**Disposable capillary
tube, plastic**

Centrifuge medium for equine semen

- Powder for 1 litre
- Transparent EDTA-glucose solution
- Without antibiotic.



Beyond equine semen extender

- Equine semen extender for long-term storage of chilled semen at +5°C and optionally at +17°C.
- Ready to use in 100 ml bottles.



EquiPlus semen extender powder form

- Balanced medium based on skim milk for preservation of sperm activity up to 72 hours.
- Makes 1 litre
- Also available in liquid ready to use
- Without and with Antibiotics



EquiPlus Combi, equine semen extender

- Powder with 100 ml double distilled water.
- Balanced medium for preservation of sperm activity up to 72 hours
- with Lincomycin and Spectinomycin



Gent, equine semen extender for chilled semen 45ml

- Culture medium in which fresh semen can be preserved at +4°C to +6°C for approx. 72 hours.
- With egg yolk and antibiotic. Ready-to-use after warming.



SBS CryoSystem Spectrum test freeze kit for equine semen

- The Spectrum concept allows to identify the best freezing extender for each individual stallion.
- All Spectrum extenders are presented as ready-to-use solutions.



SBS CyroSystem Spectrum

- Feature different cryoprotectants and specific different egg yolk or milk content.
- 30 ml 15 ml packing
- Spectrum Orange
- Spectrum Red
- Spectrum Green
- Spectrum Blue
- Spectrum Violet



CushionFluid

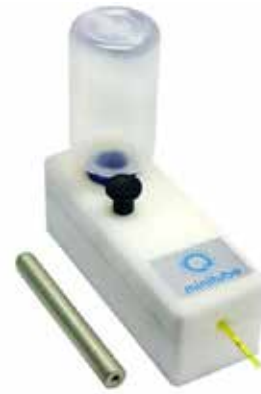
- For gentle centrifugation of stallion spermatozoa
- Assures a higher yield of sperm cells as compared to standard centrifugation
- 100 ml
- 30 ml



3. SEMEN STRAW PROCESSING



MPP Uno, automatic filling and sealing machine for semen straws



Manual ball sealer for 0.5 ml straws



EasyCoder, automatic printer for 0.5 and 0.25 ml straws



Macrotube, 2.5 ml, Length 140 mm 100/bag



Sealing ball for Macrotubes, metal 1000/bottle



EcoStraw, 0.5 ml, transparent



MiniThaw thawing unit



Equine Universal IUI pipette with inner catheter, 65 cm, 5/package



Equine Universal AI pipette, length: 57 cm, 1/bag, sterilized



Flexible stylet used with Universal insemination pipette 57 cm and 0.5 ml straws



Equine insemination pipette, with Luer end, 60 cm



Polansky vaginal speculum for mares



Cytology Brush equine



Biopsy forceps for equines



Refractometer for measurement of IgG levels in colostrum



Stereo-zoom microscope



DIUI set for equine AI and ET



DIUI sheath for 0.25 ml straw



Embryo flushing catheter
CH 28



Ultrasound probe holder for
equine OPU



Y-junction tubing, large
lumen, spike port



EquiPlus OPU recovery
medium, with BSA



EquiFlush embryo recovery
medium with BSA and
antibiotics, 1 l, bag



EquiHold, holding medium
for equine embryos, 3 x 5
ml



EquiPlus OPU recovery
medium, with BSA



Micropipettor for embryo
handling, model A



Aspiration and flushing
pump for equine OPU

STROEBECH EQUINE MEDIAS



Equine OPU Medium



Oocyte Holding Medium



Equine IVM Medium



Equine Semen Wash
Medium



Sperm Gradient
Upper & Lower



Equine PVP Medium



Equine Swim Up
Medium



Equine ICSI Medium



Equine One Step
IVC Medium



Equine IVC Medium 2 -
Blastocyst



Equine IVC Medium 1 -
Cleavage



Equine Holding
Medium



Stroebech Heavy Oil



Equine Vitrification Kit



Equine Warming Kit



Equine
Hyaluronidase



SMALL RUMINANTS AND CAMELIDS

Assisted Reproductive Technologies In Small Ruminants and Camelids

Full range of high-quality products for assisted reproduction in sheep, goats and camels are Available. Products details are as same as bovines Section

Note: Complete range for small ruminants and camels reproductive equipments and medias are available.

For more info visit (<https://www.minitube.com/catalog/en/small-ruminants-camelids/>)

GP-2 SUPER

CHART MVE USA BIOMEDICAL CONTAINER

Specifications

- **Best seller**
- **Easy to carry with light weight and strong build-up qualities**
- **With 1 year warrenty**

| Model | | GP-2-35 |
|---|--------|---------|
| No. of canisters | | 3 |
| Performance | | |
| LN capacity(liters) | | 2 |
| Static evaporation rate (liters/day) | | 0.067 |
| Normal static duration (days) without canisters | | 32 |
| Unit Dimensions | | |
| Neck opening(mm) | | 35 |
| Overall height(mm) | | 410 |
| Outside diameter(mm) | | 195 |
| Canister height(mm) | | 110 |
| Canister diameter(mm) | | 26 |
| Weight empty(kg) | | 2.5 |
| Full weight(kg) | | 4.2 |
| Straw Holding capacity | | |
| (Single Level) | 0.5ml | 165 |
| | 0.25ml | 330 |
| (Double Level) | 0.5ml | -- |
| | 0.25ml | -- |



GP-2 SUPER

CHART MVE USA BIOMEDICAL CONTAINER

Specifications

- **Best seller**
- **Easy to carry with light weight and strong build-up qualities**
- **With 1 year warrenty**

GP-2 Super



| Model | | GP-2-35 |
|---|--------|---------|
| No. of canisters | | 3 |
| Performance | | |
| LN capacity(liters) | | 2 |
| Static evaporation rate (liters/day) | | 0.067 |
| Normal static duration (days) without canisters | | 32 |
| Unit Dimensions | | |
| Neck opening(mm) | | 35 |
| Overall height(mm) | | 410 |
| Outside diameter(mm) | | 195 |
| Canister height(mm) | | 110 |
| Canister diameter(mm) | | 26 |
| Weight empty(kg) | | 2.5 |
| Full weight(kg) | | 4.2 |
| Straw Holding capacity | | |
| (Single Level) | 0.5ml | 165 |
| | 0.25ml | 330 |
| (Double Level) | 0.5ml | -- |
| | 0.25ml | -- |

CHART MVE USA BIOMEDICAL CONTAINERS

Specifications

| Model | Geometric Volume (L) | Caliber (mm) | Outside Diameter (mm) | Height (mm) | Empty Weight (kg) | Static Hold Time (Day) | Canister | | |
|-----------|----------------------|--------------|-----------------------|-------------|-------------------|------------------------|----------|----------------|---------|
| | | | | | | | Qty | Caliber(OD) mm | Height |
| GP-1-30 | 1 | 30 | 180 | 315 | 2.0 | 14 | 1 | 26 | 120 |
| GP-2-30 | 2 | 30 | 224 | 360 | 2.9 | 28 | 3 | 19 | 120 |
| GP-3 | 3.15 | 50 | 224 | 420 | 3.4 | 26 | 6 | 38 | 120 |
| GP-6 | 6 | 50 | 287 | 435 | 5.0 | 52 | 6 | 38 | 120 |
| GP-10 | 10 | 50 | 303 | 530 | 6.2 | 86 | 6 | 38 | 120 |
| GP-10A | 10 | 50 | 287 | 605 | 6.5 | 97 | 6 | 38 | 276 |
| GP-10-90 | 10 | 90 | 303 | 538 | 6.7 | 44 | 6 | 70 | 120 |
| GP-15 | 16 | 50 | 355 | 600 | 8.2 | 134 | 6 | 38 | 120 |
| GP-20 | 20 | 50 | 409 | 650 | 11.2 | 168 | 6 | 38 | 120/276 |
| GP-30 | 31.5 | 50 | 446 | 670 | 12.9 | 254 | 6 | 38 | 120/276 |
| GP-30-125 | 31.5 | 125 | 446 | 685 | 14.2 | 90 | 6 | 97 | 120/276 |
| GP-35 | 35.5 | 50 | 473 | 680 | 13.8 | 286 | 6 | 38 | 120/276 |
| GP-35-125 | 35.5 | 125 | 473 | 690 | 15.1 | 97 | 6 | 97 | 120/276 |
| GP-47-127 | 47 | 127 | 500 | 675 | 19.0 | 105 | 6 | 103 | 120/276 |





GEENTECH
INTERNATIONAL

THANK YOU

As we wrap up this catalog dedicated to animal reproductive technologies, we want to extend our sincere gratitude for taking the time to explore the innovative solutions we offer. Your interest and engagement drive us to continually push the boundaries of excellence in the field. We're here to support your goals in advancing animal reproduction.

For inquiries or assistance, feel free to contact us. We look forward to being your trusted partner in innovative solutions.

Best Regards,
GeenTech International

Contact Us



04236301714



0333-4231713



bdmgti22@gmail.com



Mumtaz Center Suit# 3, 2nd
floor 15-A, Shahrah-E-
Fatima Jinnah, Lahore-
54000, Pakistan

www.geentechintl.com