Collaboration b/w Dow Class of 1991 and DOTS (Dowite 78 Operation Theater Welfare

Society)- an NGO

ABOUT DOTS: Dowites 78 Operation Theatre Welfare Society-DOTS is an NGO, which is

running an Operation Theatre Complex in the premises of Civil Hospital, Karachi, and is in its 8th

year since its commencement in September 2007.

The Operation Theatre Complex comprises of 14 Operation Theatres, Central endoscopic suit

and Eye diagnostic centre, along with all the complementing areas like 18 bedded recovery,

sterilized corridors, dirty linen storage & disposal, autoclave, wet and dry storage, staff and

doctors room etc.

The O.T. Complex is currently catering Cancer, Ophthalmology, General Surgery, ENT, Pediatric,

Maxillofacial, Vascular, and Plastic Surgeries. Till date, more than 70,000 surgeries of poor and

needy patients suffering from Hernia, Appendix to Cancer, Retinal and other serious ailments,

have been completed Free of Cost. An addition of DOTS G. I. Care and DOTS Eye Care Centre

has also emerged as a new hope for the patients of Eye and Gastrointestinal diseases. According

to the recent data, over 14,000 surgeries are performed in Dowites78 OT Complex annually worth

30 million with no cost to the patients.

An auditorium with a seating capacity of 200 is also built on the third floor of OT Complex. Live

demonstration of surgical procedures from any of the OTs can be performed with two way audio

communication between the surgeon in the OT and audience sitting in the auditorium. The O.T.

Complex is conducting seminars and live surgical conferences, workshops, teaching session,

lectures and monthly clinical meetings, that are attended by students, doctors, and both national

and international delegates.

Project:

To replace outdated anesthesia machines in Main OT Complex at Civil Hospital

Number of Machines to be replaced: 10

Price of each Unit(\$30,000)

Vendor: MedEc

Medec offers a complete range of anaesthesia units. All units are well known for their user-friendliness, complete configuration and optimum patient safety, as all safety features are standard, including anti-volutrauma and anti-barotrauma systems.

Each Unit:

Features

It has lowest work of breathing.

It has NO inadvertent PEEP.

It has lowest PEEP settings (1-20 in steps of 1 mbar).

It provides Fresh gas flow directly to the patient.

It provides fastest saturation Compensation of Compliance, resistance and small leaks.

It indicates laminar flow measurement and decelerating flow pattern

It has vertical light weight absorber valve.

It reduces the consumption of Soda lime.

It has Unique ANTI-VOLUTRAUMA software system.

It has special ANTI-BARATRAUMA software system.

Specifications

For Pneumatic System

Pipeline inlet pressure O₂ 3 - 8 bar - NIST inlet

N₂O 3 - 8 bar - NIST inlet Air 3 - 8 bar - NIST inlet

Regulators Built-in regulator for O₂ - N₂O

PIN-Index.

Manometer gauges: N₂O 0 - 10 bar

Air 0 - 10 bar O₂ 0 - 10 bar

Vaporizer mounting: Selectatec system two station
Absorber features: Autoclavable system Built-in

Overpressure valve

Oxygen flush: Connection system to oxygen cell 35 l/min (between 3 - 8 bar)

Cylinder Holder 2 or 3 holders for 10Liters

Rotameter: 3 gases - 4 tubes

O₂ tube 0 - 1 l/min

0 - 10 l/min

N₂O tube 0 - 12 l/min Air 0 - 15 l/min

Vaporizer Flow and Temperature Compensated

Volume of CO₂ absorber: 1.5 litres

Quick change' canister system

Manometer gauges regulator: O₂ 0 - 250 bar

N₂O 0 - 100 bar

Mobile Trolley: 3 x Drawer unit incorporated,

Monitoring Shelf

For Ventilator Electronically Controlled, Pneumatically

Driven

Principle: Bag-in-bottle system

Tidal volume (CMV): 10 - 1600 ml

I:E ratio: 1:1, 1:1.5,1:2, 1:3, 1:4, 1:5, 1:6,

2:1, 3:1, 4:1

Plateau time: 0 - 50% Low oxygen alarm limit: 18 - 99 %

Measured parameters Expired/Inspired tidal volume, frequency,

Minute volume, PIP, Plateau pressure,

PEEP,

Mean pressure, Ratio, Patient Pressure

Battery backup: Minimal 3Hours when fully charge

Battery type: Sealed lead acid battery

Ventilation modes: CMV, PCV, SIMV, manual, spontaneous

Peak pressure (PCV): 5 - 70 mbar Peep (electronic): 0 - 20 mbar

Upper pressure alarm limit: 7 mbar to 99 mbar

Inspiratory Pause 0%-50%

Audible and visual Alarms: Low air/02/N20 input pressure

Apnea alarm, O2 alarms Upper/lower limit

alarm, leak or patient disconnection

Ventilation Frequency

Trigger

User and Technical alarms
4-80 breaths per minute
-2 to -20 mbar above PEEP

Lower Pressure Alarm Limit 2 mbar to 92 mbar (CMV)

2 mbar to 66 mbar (PCV)

Power Consumption < 100VA Storage Temperature 5-50°C

To be Supplied with Following Accessories

- 1. Breathing Circuit
- 2. 1 Vaporizer
- Re-breathing Bag
- CO2 Absorber
- 5. Operating Manual
- 6. Power Cord

Origin: Medec Benelux, Belgium

TERMS & CONDITIONS:

WARRANTY : 2 years
VALIDITY : 30 days.
DELIVERY : 6 to 8 Weeks.

INSTALLATION : By our qualified service engineers

PAYMENT : At the time of Order

Ps. One year free service without parts after completion of two years warranty

Class Representatives:

Shehzad Saeed

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