



Date: - 13<sup>th</sup> February 2019

## Corrigendum For Spine Stimulator for the Department of Orthopaedics

NIT Issue Date	: 30 <sup>th</sup> October, 2018
NIT No.	: Admn/Tender/120/2018-AIIMS.JDH
Pre-Bid Meeting	: 12 <sup>th</sup> November, 2018 at 05:45 PM
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The following revised and additional specification will be added:-

1. **Page No. 10, Heading: “SPINE Mentor Simulation Platform”**: The simulator should be a table top platform that should include the following components:

1. Main console (simulates the spine)
2. Electronic box (includes PC)
3. 22” Monitor
4. 2 Customized Needles
5. 4 Customized leads
6. Standard syringe and LOR sensor
7. 2 realistic puncture pads (1 spare)
8. Foot pedal

**Read:**

The 3D Lumbar Spine Trainer Should be applicable for the training of minimal invasive and open surgical interventions in the lumbar spine region.

It should provide a perfect orientation by the use of the integrated navigation system and indicates injuries using a proximity detection.

It should consist of the following:

1. Laptop with navigation software to identify all anatomy - 1 Nos
2. Base system with electronic and camera-01 Nos
3. Fabricated spine with soft tissue layer, skin, fat and muscle - 01 Nos
4. Lumbar spine patient back having properties vertebrae L3 and L4 made of bone like material, specially develop for realistic haptic with possibility of true-to-life drilling. Limitation of natural bone properties of the vertebra with cortical and cancellous bone. Elastic disc with elastic connection of the intervertebral joints - 01 nos
5. Lumbar spine Schumann made of bone like material specially developed for realistic haptic with facility to true to life drilling having limitation of natural bone properties of the vertebra with cortical and cancellous bone with elastic discs with nucleus pulposus and anulus fibrosus having elastic connection of the intervertebral joints.
6. Instrument tracker set. -01
7. Monitor 32 inch with trolley.

**2. Page No. 10, Heading: “Practice Opportunities” , Bullet No. 2 ,3,4 :**  
**For**

**Bullet No. 2**

- Should have 4 hands-on training cases for practicing SCS procedure on different patients, such as scoliosis, spinal fusion hardware and spinal cord obstacles.

**Bullet No. 3**

- Each case should enable to perform a complete SCS procedure differently, according to the user's choice (using up to 2 needles and 4 leads simultaneously).

**Bullet No. 4**

- Should have Virtual reality educational aids, such as performance records of tools maneuvers, 3D anatomical map and labels, and indicators of needle angle and penetration depth

**Read:**

**Bullet No. 2**

Should have hands on training case for planning of special accesses and operative strategies, Training skill of use of surgical instruments, decompression, ablation of bone, treatment of fractures with ventral osteosynthesis with leg screws, insertion of surgical screws and removal of disc tissue.

**Bullet No. 3**

Each case may preferably enable to perform a complete SCS procedure differently, according to the user's choice (using up to 2 needles and 4 leads simultaneously).

**Bullet No. 4**

Preferably may have Virtual reality educational aids, such as performance records of tools maneuvers, 3D anatomical map and labels, and indicators of needle angle and penetration depth.