

**BIDDER MUST HAVE TO SUBMITTED PART-III TECH BID PHYSICALLY IN TENDER ALONG WITH SIGN AND STAMPED. FAILING IN WHICH, WILL BE STRAIGHTWAY REJECTED.**

<b>(INST) (PART-III)</b> <b>PART III: TECHNICAL BID</b>			
NAME OF EQUIPMENT : <b>CPM MACHINE FOR KNEE</b>			TENDER NO: <b>2526 S-33</b>
DEPARTMENT: <b>PHYSIOTHERAPY DEPARTMENT</b>			
MANUFACTURER :		BRAND :	MODEL :
BIDDER NAME :			EMD : <b>6,000/-</b>
QTY: <b>1 NOS.</b>		TENDER FEE: <b>600/-</b>	TOTAL ESTIMATED VALUE FOR 1 UNIT (RS.): <b>2,00,000/-</b>
	<b>REQUIRED SPECIFICATION</b>	<b>SPECIFICATIONS AVAILABLE IN OFFERED MODEL</b>	<b>MENTION REMARK, IF ANY DEVIATION</b>
	<b>KNEE CONTINUOUS PASSIVE MOTION (CPM) MACHINE</b>		
<b>A.</b>	<b>GENERAL SPECIFICATIONS</b>		
1.	The unit should be designed for post-operative rehabilitation of the knee joint with smooth and silent operation.		
2.	Should provide controlled flexion and extension movements of the knee joint in continuous passive motion.		
3.	Should have a digital display for time, angle, and speed parameters.		
4.	The machine should include inbuilt safety features for patient protection.		
5.	Should allow customizable treatment programs and include preset protocols		
6.	Unit should be maintenance-free, durable, and ergonomically designed.		
<b>B.</b>	<b>TECHNICAL SPECIFICATIONS</b>		
1.	Universal left/right design		
2.	<b>Range of Motion (ROM):</b>		

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	<ul style="list-style-type: none"> <li>• Extension: 0° to –10°</li> <li>• Flexion: 0° to 120° or more</li> </ul>		
3.	<b>Speed Range:</b> <ul style="list-style-type: none"> <li>• Adjustable between 25°/min to 150°/min</li> </ul>		
4.	<b>Force / Load Safety:</b> <ul style="list-style-type: none"> <li>• Auto-reverse function if abnormal resistance is encountered</li> <li>• Safety stop button for patient/operator</li> </ul>		
5.	<b>Timer:</b> <ul style="list-style-type: none"> <li>• Adjustable treatment time from 0 to 120 minutes</li> </ul>		
6.	<b>Modes of Operation:</b> <ul style="list-style-type: none"> <li>• Continuous mode</li> <li>• Intermittent mode (pause at extreme flexion/extension)</li> </ul>		
7.	<b>Control Unit:</b> <ul style="list-style-type: none"> <li>• Digital remote control with start/stop and parameter adjustments</li> <li>• Large LCD/LED display showing angle, speed, and time</li> </ul>		
8.	<b>Power Supply:</b> <ul style="list-style-type: none"> <li>• Operates on 90 – 250 V AC, 50/60 Hz</li> </ul>		
9.	<b>Length Range:</b> <ul style="list-style-type: none"> <li>• Calf: 32 to 54 cm</li> </ul>		

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	<ul style="list-style-type: none"> <li>• Thigh: 34 to 50 cm</li> <li>• Max patient weight: 160 kg</li> </ul>		
10.	<b>Construction:</b> <ul style="list-style-type: none"> <li>• Lightweight aluminum/steel frame with patient comfort padding</li> <li>• Smooth, low-noise motor drive system</li> </ul>		
11.	<b>Portability:</b> <ul style="list-style-type: none"> <li>• Easy to carry with wheels/handle</li> </ul>		
<b>C.</b>	<b>ACCESSORIES TO BE SUPPLIED</b>		
1.	Soft patient leg support pads – 1 set		
2.	Remote control unit – 1 no.		
3.	Power cord – 1 no. (Convenient 4 to 4.5 m long)		
4.	Patient straps – 1 set		
5.	User manual & service manual – 1 set		