

**Amendment-1**

Date: 30.10.2009

**Subject:** Supply, installation, testing and commissioning of Equipment for Rehab-Gymnasium, Bio- Mechanical Lab., Hydrotherapy Unit and Physical Regeneration System for the Sports Injury Centre, Safdarjung Hospital, New Delhi.

**IFB No.:** HSCC/PUR/SIC-Safdarjung/Equip/2009/1 dated 25.9.2009.

**Reply to the Queries of the Prospective Bidders raised during the Pre- Bid Meeting held on 19.10.2009 at 3.00 pm and subsequently submitted till 3.00 pm on 20.10.2009:**

<b>S. No.</b>	<b>Queries of the Prospective Bidders</b>	<b>Reply to the Queries</b>
1.	<p>Isokinetic Dynamometer Based System and 3 D Motion Analysis System have been clubbed together and are require to be quoted together and for the purpose of evaluation of Prices the prices will be considered after adding the price of 2 units together.</p> <ul style="list-style-type: none"><li>• These 2 are non related items and as per our records there is no manufacturer in the world manufacturing both the equipments.</li><li>• Also the role of the 2 systems is independent and exclusive of each other.</li><li>• Because of this condition several potential suppliers/Manufacturers would be excluded limiting the choices available to your organization which might result in both or either limited features and higher prices.</li></ul> <p>Treat the 2 items as separate items or separate tenders.</p>	<p>The items covered under the Line Item No. II [i.e. Item II (1) &amp; Item II (2)] in Section-I &amp; VI at page no. 2 &amp; 46 of the Tender document stands separated and shall be treated as separate Line Items.</p> <p>The amended <b>Section-VI-List of Requirements Part-I</b> is given in the <b>Annexure-‘A’</b>. Accordingly the requirement indicated in <b>Section-I (Invitation for Bids)</b> also stands amended.</p> <p><b>Other terms &amp; conditions remain unchanged.</b></p>
2.	<p>Isokinetic system, point 7- Concentric speed up to 9400 deg/sec. Clarify about the concentric speed as 9400 deg/sec which seems to be typographical error.</p>	<p>Refer Technical Specifications of the Isokinetic Dynamometer Based System at <b>page 48-h</b> of the Tender Document- The Concentric Speed mentioned at point 7 is 400 deg/sec.</p>

<p>3.</p>	<p>Clarify whether the Hydrotherapy Pool will be installed on the ground or on the first floor.</p> <p>In the event of Hydrotherapy Pool being installed on the first floor, ensure through structural design engineer that it carries the load of 12000 Kgs divided over an area of 15'x 8'.</p>	<p>The hydrotherapy pool will be installed on the first floor.</p> <p>It will be ensured that the floor can carry the necessary load.</p>
<p>4.</p>	<p><b>Equipments for Rehab Gymnasium</b></p> <p><b>A. Aerobic Fitness:</b></p> <p><b>1. <u>Treadmill:</u></b> The elevation mentioned in Tender is 20%. As the facility is for Rehab mainly, would it not be advisable to have additional features at the cost of extra elevation.</p> <p>For e.g. the following additional features which could be standardized:</p> <ul style="list-style-type: none"> <li>(i) Decline – 3% to +12% elevation ideal for Rehab.</li> <li>(ii) Reverse running – again ideal for Rehab.</li> <li>(iii) Side rails for holding on by the user.</li> <li>(iv)</li> </ul> <p><b>2. <u>Ergometers Elliptical Trainer, Bikes, etc:</u></b> The power rating mentioned is 100 watts which is very less. Most medical machines may have upto 2500watts.</p>	<p>No change is required as this suffices rehab programme.</p>

<p>5.</p>	<p><b>Equipments for Hydrotherapy Unit</b>  <b>1. <u>Hydrotherapy Pool –</u></b></p> <p>a) <b>Size</b> - As per tender the size stated is 17' X 9'. We would like you to also allow a variation of <math>\pm 15\%</math> in size e.g. there could be standard models of size 16' X 5'; 16' X 9'; 15' X 7.6"; 15' X 9'; 14' X 10' etc also available.</p> <p>b) <b>Material of Construction</b> – MOC mentioned is Vinyl Liner with metal frame.  <u>Option 1</u> – there is a possibility of these pools in one piece in one Prefab shell also.  <u>Option 2</u> – The Pool can also be constructed in brick work and lined with hard Polystyrene foam walls made by manufacturers overseas and with Reliance Industries in India starting production shortly. These walls act as an insulation barrier and avoid loss of heat to the outside. These elements are in use all over Europe.</p> <p>c) <b>Propulsion Unit (Counter Current)</b> – This is stated as hydraulic unit. These are standard electrical units called Swimjets comprising pump, front fitting with water flow adjustments. These electric swimjets vary from pump ratings of 2hp</p>	<p>(a) Size cannot be changed as it is based on dimensions of room and two athletes training simultaneously.</p> <p>(b) No change in material of construction is acceptable.</p> <p>(c) Hydraulic unit suffices hence no change is acceptable.</p>
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	<p>to 5.5hp.</p> <p>d) <b>Benches</b> – Similarly, 4 benches or 4 grab bars can be customized but the flexibility of benches may not be constrained. Some standard models may have 2 benches only as it reduces the working area.</p> <p>e) The vendor may be allowed to provide a customized pool of size 17' X 9' in any construction viz civil construction with polystyrene hard walls and fit it with the following equipment of repute.</p> <p>i) Online filtration pumps with trap filter and cartridge/sand filter.</p> <p>ii) Online heating of approx 11kw.</p> <p>iii) Counter Swim Spa unit.</p> <p>iv) Disinfection system comprising Chlorination and Ozonation.</p> <p>v) All electrical equipments will be electrically isolated and operated by pneumatic controls.</p> <p><b>Note:</b> You will need one time quantity of warm water during winters as online heater of 11kw will</p>	<p>(d) Can be included but no advantage in terms of technical specifications or commercial bid.</p> <p>(e) Tender specifications for equipments cannot be changed in terms of structure, material. However method of cleanliness will depend on vendor whether they want to use chlorination and ozonation. All electrical fitments need to match safety standards whether they are electrically isolated/pneumatic control.</p>
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	<p>keep it warm and not allow it to cool but will not heat the pool to the desired temperature.</p> <p>2. <b><u>Chilled Shower</u></b> – We feel that minimum specs should be 150LPM with holding capacity of 150Lt. Also, the pressure system should comprise ½ hp pump, an electronic flow switch and a small minimum 2lt tank. Systems with pressure switches do not work very well due to frequent switching on/off.</p> <p>3. <b><u>Sauna Room</u></b> – Sauna wood paneling may be specified as knotless wood is mainly Aspen which is blondish. This does not have any knots. Sauna Bench boarding may also be Aspen.</p> <p><i>Sauna Heater-</i> The Sauna heaters may have <i>thermostat casing which is a safety feature</i>. The outer body temperature of Sauna Heater does not exceed 50<sup>0</sup>C even though the room temperature may be 100<sup>0</sup>C</p> <p><b>Sauna Room and Sauna Heater Electric Rating:</b>  <i>Suitable for 4 persons but with 12kw Sauna Heater as mentioned in the Tender - A Sauna room of size 1591 X 2029 is suitable for seating of 4 persons but requires only 6.6kw as against 12kw heater. We are enclosing a copy of</i></p>	<p>2. <b><u>Chilled Shower</u></b>  100 Litres shall suffice treatment. Any additional feature is the prerogative of vendor but no advantage shall be given to vendor.</p> <p>3. <b><u>Sauna Room</u></b>  Paneling is knotless and features of heater are suitable for room size.</p>
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	<p>catalogue showing a particular size with bench/seating arrangements and 6.6kw rating of Sauna heater mentioned.</p> <p>Increasing the size of the room i.e., by matching the electric heater of 12kw will add not only to the initial cost of heater and room but also recurring cost.</p> <p>It is prayed that the specs may be redefined.</p> <p>4. <b><u>Steam</u></b> – Steam Generator mentioned is 2 nos of 9kw each and suitable for seating of 6 persons, Please note that a room of size 1930 X 2120 suitable for seating of 6 persons requires only 9kw of steam generator. An attachment is enclosed showing a room size with seating of 6 persons and rating of 9kw. These units comes with additional features of Automatic flushing and drain modes which may or may not be specified</p> <p><b><u>Note:</u></b> You must provide feed water quality of TDS &lt; 500 and hardness Zero commercial and at a pressure of 0.5bar to 5 bar.</p>	<p><b>4 <u>Steam</u></b></p> <p>No alteration in specifications can be done as this suffices rehab. However vendor is free to add any additional features without any advantage to be given to vendor. Provision of feed water quality may be ascertained from architectural and structural engineer.</p>
<p>6.</p>	<p>Lay out of the area &amp; site visit is required.</p>	<p>Lay out of area is available at following address between 10.00 am to 4.00 pm on any working day:  Executive Director (P.G.-II)  HSCC (I) Ltd.,  Plot No.: 6(A), Sector-1,  NOIDA-201301.  Prospective bidders may visit site i.e.</p>

		Sports Injury Centre, Safdarjung Hospital, New Delhi at any time between 10.00 am to 4.00 pm on any working day.
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The tender document stands amended to this extent (i.e. Amendment-I). All other terms & conditions of the tender document remain unchanged.

**SECTION-VI****LIST OF REQUIREMENTS****Part I**

Line Item No.	Item Description	Quantity in Nos.	Bid Security (in Rupees)	Last Date & Time of Submission of Bids	
<b>Equipments for Rehab Gymnasium:</b>					
<b>I</b>	<b>A. AEROBIC FITNESS</b>			4 <sup>th</sup> November, 2009 up to 1500 hrs.	
	1. Motorized Treadmill	4	200000		
	2. Cycle Ergometer Upright	2			
	3. Elliptical Trainer	2			
	4. Recumbent Cycle Ergometer Upright	2			
	5. Upper Bodycycle Ergometer	2			
	<b>B. STRENGTH TRAINING EQUIPMENTS</b>				
	1. Selectorized Strength Training Cam Based Equipment	1 Set			
	2. Cable Cross Over Pulley	2			
	3. Free Weights with Dumbbells and Dumbbell Rack as per specifications	1 Set			
<b>Equipments for Bio-Mechanical Lab:</b>					
<b>II</b>	1. 3 D Motion Analysis System Utilizing High Speed Video Cameras	1	100000		
<b>III</b>	1. Isokinetic Dynamometer Based System	1	100000		
<b>IV</b>	1. Hydrotherapy Pool	1	300000		
	2. Chilled Shower	1			
	3. Sauna Room	1			
	4. Steam Room	1			
<b>V</b>	1. Physical Regeneration Accelerator System	1	200000		

**Consignee Address:**

The Head of Department,  
Sports Injury Centre, Safdarjung Hospital,  
Ministry of Health & Family Welfare,  
Government of India,  
New Delhi