



**COMPOSITE REGIONAL CENTRE FOR SKILL DEVELOPMENT, REHABILITATION & EMPOWERMENT OF PERSONS WITH DISABILITIES [CRC – KOZHIKODE]**

(Under the administrative control of NIEPMD, Chennai)

Department of Empowerment of Persons with Disabilities (Divyangjan)

**Ministry of Social Justice & Empowerment, Government of India**

CRC Campus, Chevayoor PO, Kozhikode, Kerala – 673 017



**Date: 25.09.2023**

**Ref No. CRCK/Purchase/Prosthetic & Orthotic/2023-24/02**

**TENDER NOTICE**

Sealed Tenders are invited for supply/contract of the following articles as per given technical specification from the original Manufacturers/ Authorized Dealers.

Sr. No.	Reference No.	Particulars	Required Quantity	EMD
1	CRCK/Purchase/Prosthetic & Orthotic/2023-24/02	Prosthetic & Orthotic Therapy Materials ( Detailed Specification Attached)	List attached	8,000/-

Note

1. Tender documents may please be downloaded from the CRC-K website [crckozhikode.gov.in](http://crckozhikode.gov.in)
2. Dealers should produce valid authorization certificate from the manufacturer, failing which tender will not be evaluated.
3. Tenders will be evaluated based on the contents on the tender itself without recourse to extrinsic evidence.

Earnest Money Deposit (EMD) in form of DD should be drawn in favour of the Director, CRC-Kozhikode and made payable at State Bank of India, Vellimadukunnu and should be send along with bid. The Tender to be send to the address mentioned below duly superscribing the supply/work name and reference number/Tender id on the envelop and same must reach before opening of the bid and if not received within due date the bid will be rejected summarily.

Sr. No.	Description	Date	Time
1.	Tender Publication Date and time	25.09.2023	11.00 AM
2.	Tender Documents download start date and time	25.09.2023	11.15 AM
4	Bid Submission end date and time	16.10.2023	11.00 AM
5	Tender Opening date and time	16.10.2023	11.30 AM

The Director reserves the right to accept or reject the tenders without assigning any reason there of.

-Sd

Director

The tender documents and bid declaration form should be send to:  
The Director CRC-Kozhikode  
CRC Campus, Golf Link Road, Chevayur P.O.,  
Kozhikode,Kerala - 673017



## **GENERAL CONDITIONS OF THE TENDER/QUOTATION**

### **Definition**

- a) The term purchaser shall mean the Director CRC-K.
- b) The term contractor shall mean the person, firm or company with whom or with which the order for the supply of stores is placed and shall be deemed to include the contractors successors, representatives, heirs, executors and administrators unless excluded by the contract.
- c) The term Purchase Order shall mean the communication signed on behalf of the terms and condition mentioned or referred to in the set communication accepting the tender or offer of the contractor for the supply of goods and services, plant, equipment or part thereof.
- d) The term stores shall mean what the contractor agrees to supply under the contract as specified in the purchase order.

Sealed tenders are invited for the supply of equipment/furniture and machinery as per schedules supplied herewith.

- 1. The tenderer may offer the Tender/Quotation in their own letter heads giving full specifications and reference to the serial number of the item and schedule.
- 2. Bids should be accompanied by Demand Draft towards payment of Earnest Money @ 2% of the bid amount to the credit of the Director CRC-K. The provisions contained under GFR 2017 regarding submission /exemption of EMD is only applicable for the purchase to this Institute. In cases vendors are falling under MSME procurement policy issued by Department of MSME and would like to avail exemption of EMD only applicable for the purchase to this Institute. In case vendors are falling under MSME procurement policy issued by Department of MSME and would like to avail exemption for EMD, necessary certificate shall be enclosed. EMD should be send to the address mentioned in the tender/quotation notice duly superscribing the supply/work name and reference number/tender/quotation id on the envelop and same must reach before opening of the bids, and bids not accompanied by earnest money will not be considered and will be summarily rejected. The earnest money deposit in respect of all un-selected tenders will be refunded after the award of contract.
- 3. Any Bidder from a country which shares a land border with India will be eligible to bid in tender only if the bidder is registered with Competent Authority as specified in order (Public procurement No.1)F.No. 6/18/2019-PPD dt 23. 07.2020 of Ministry of Finance, Public Procurement Division of Government of India. The vendor should enclosed copy of valid registration by competent authority or a certificate regarding compliance with this order should be submitted by the bidder in the below format.

“I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I Certify that this bidder is not from such a country or if from such a country has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached]”

4. The acceptance or rejection of tenders is left entirely to the discretion of the Director and no tenderer can demand the reason for the rejection of his offer. The Director does not bind himself to accept the lowest or any tender and reserves the right to split the tenders and place orders for the equipment covered by the lists on one or more tenders.
5. The supplier, immediately on intimation, shall furnish Performance Security Deposit as follows: Subject to a minimum of 5% of the basic cost and enter into agreement with the Director, CRC-K (herein after referred to as THE DIRECTOR) for the due fulfilment of the contract. This security shall be in the form of DD, FD (lien to Director) or Bank guarantee valid for a period of 60 days beyond the date of completion of all contractual obligations including warranty. The amount of Earnest Money paid shall be also be taken into account in fixing the amount of security. Failure on the part of the supplier to fulfil the contract shall constitute a breach of the terms and conditions of the tender and will entail forfeiture of the security money deposit.
6. In case the supplier fails to deposit the required security and execute the contract bond on stamped paper of GOI or Govt. of Kerala worth Rs.200 (Specimen enclosed) by the due date, the contract is liable to be cancelled without prejudice to taking any further action to recover damages for any loss sustained by THE DIRECTOR as a result of the supplier's refusal to abide by the terms of the contract.
7. Upon the complete fulfilment of the contract by the supplier to the satisfaction of THE DIRECTOR, the amount of the Security Deposit shall be returned to him less the amount, if any due by him to the Director.
8. No interest will be allowed on the earnest money or security deposits so remitted and no claim shall be entertained against the DIRECTOR in respect of the same.
9. **Prices:** The Prices quoted should be firm in all respects and destination at CRC-K. Prices should be inclusive of all charges towards loading, unloading, transportation and installation at specified location of CRC-K.

10. **Validity of rates:** Quoted rates must be valid for 90 days from the last date of submission of quotation.
11. **Genuine Pricing:** Vendor is to ensure that quoted price is not more than the price offered to any other customer in India to whom this particular item has been sold, particularly to other autonomous bodies and other Government organization. Copy of the latest price list for the quoted item, application in India, must be enclosed with the offer.
12. **Period of Supply:** If the bidder/supplier after accepting the purchase order for supply of goods/services fails to deliver the goods/services within the period specified in the Purchase Order CRC-K shall without prejudices to its other remedies under the rules of purchase proceed to cancel the order or agree to accept the delayed delivery on the condition of payment of liquidated damages by the bidder/supplier a sum equivalent to 0.5% of the total cost as indicated in the purchase order (which will be deemed as agreed price ) for each week or part thereof delay until actual delivery or performance is completed and such penal charges shall be limited to a maximum of 5% of the agreed price. Once the maximum is reached CRC-K may proceed on its own to consider the termination/cancellation of the order and may inform the bidder about the cancellation of the purchase order.
13. **GST:** GST Registration Certificate indicating also the GSTIN number of the firm must be clearly mentioned in the quotation. Certificates must be uploaded. GST Deduction at source as per Order/notification of the Govt. of India will be applicable. HSN/SAC No. of the items must be clearly mentioned in the quotation along with GST No.
14. **Enquiry during the course of evaluation not allowed.** No enquiry shall be made by the bidder(s). However, the Purchase Committee or its authorized representative (CRC-K) can make any enquiry/seek clarification from the bidders. In such a situation, the agency shall extend full co-operation. The bidders may also be asked to arrange demonstration of the offered items, in short period notice, as such the bidders have to be ready for the same.
15. **Force Majeure:** If the performance of the obligation of either party is rendered commercially impossible by any of the events hereafter mentioned that party shall be under no obligation to perform the agreement under order after giving notice of 15 days from the date of such an event in writing to other party, and the events referred to are as follows: i) Any law, statute or ordinance, order action or regulations of Government of India. ii) Any kind of nature disaster, and iii) Strikes acts of the Public enemy, war, insurrections, riots, lockouts, sabotage.

- 16. Termination for default:** Default is said to have occurred i) if the equipment or any of its component is found having poor workmanship, faculty designs, poor performance and bad quality of materials used, ii) If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by CRC-K. iii) If the supplier fails to perform any other obligation(s) under the contract and iv) Under the above circumstances CRC-K may terminate the contract/purchase order in whole or in part and forfeit the EMD/PBG as applicable. In addition to above, CRC-K may at its discretion also take the following actions: CRC-K may procure, up on such terms and in such manner, as it deems appropriate, goods similar to the undelivered items /products and the defaulting supplier shall be liable to compensate CRC-K for any extra expenditure involved towards goods and services obtained. Besides, the Director, CRC-K, reserves the right to impose any other form of penalty as deemed fit including blacklisting of the vendor.
- 17. Terms of payment:** Being a Central autonomous body the normal term of payments are by sight draft (within 45 days from the date of successful delivery, Installation and commissioning/acceptance of goods at CRC-K).
- 18. Invoices in triplicate must have the following mandatory fields:**
- Invoice number and date
  - Customer name
  - Shipping and billing address
  - Customer and taxpayer's GSTIN (if registered)
  - Place of supply.
  - HSN code/SAC code
  - Item details, ie description, quantity (number), unit (meter, kg, etc), total value.
  - Taxable value and discounts.
  - Rate and amount of taxes ie. CGST/SGST/IGST.
  - Whether GST is payable on reverse charge basis.
  - Signature of the supplier.
  - PAN number should be indicated.
- 19. The payment shall be made online after supply and successful installation of Goods and effective completion of Service as the case may be. For this the supplier has to furnish two copies on the prescribed format provided along with the purchase order incorporating details of Name of the Firm, Registered address of the firm, Nature of the account, Name of Bank, Bank Account No., IFSC Code, GSTIN etc.in Firms letter head with signature and seal of Authorized signatory.**
- 20. Conditional supplies and bills in contravention to the terms contained herein and in purchase order shall not be accepted.**

## **STANDARD TERMS AND CONDITIONS**

1. The Tenderer should submit quotations complete in all respect with technical specifications including pamphlets and catalogues. Preparation of the tender shall be in the format available in the tender. All the relevant information and compliance of the specification have to be attached.
2. Detailed schedule of activities to be carried out by the vendor while submitting the bids is indicated in the tender document.
3. The valid bids received before the deadline shall be opened in the presence of attending tenderer / their authorised representatives as indicated in the tender schedule. The person attending the tender shall have to carry authorization letter from the tenderer and identification proof which may be produced on demand.
4. In the event of any date indicated above is declare as holiday the tender schedule shall be postponed accordingly.
5. In the case the tender cannot be opened on the days indicated in schedule due to technical difficulties tender will be opened on next working day or on the day the technical snag is set to right.
6. No request for extension for the due date for submission of tender will be entertained.
7. The authority of the person signing the tender if called for shall be produced.
8. Instructions/Operation manual containing all assembly details including wiring diagrams should be sent where ever necessary in duplicate. All documents/ correspondences must contain English language. Bidder are also requested to furnish any additional information regarding technical specification if required by the institute on technical evaluation process.
9. The purchaser reserves the right to accept or reject the lowest or any offer in whole or part without assigning any reason.
10. Inspection/test certificate should be provided.
11. Where erection or assembly or commissioning is a part of the contract it should be done immediately on notification. The contractor shall be responsible for any loss/damage sustained due to delay in fulfilling the responsibility.
12. The bidder must not have been blacklisted by any Organisation, certificate in this regard should be submit.

## List of Procurement of Prosthetic & Orthotic Therapy Materials for CRC-K

### I. Lists of Common Tools and Material.

Sl. No.	Name of Equipment/tool	Requirement
1	Aluminium Flat File 10" & 12"	02 no. each
2	Anvil	01 no.
3	Caliper inside/outside 200 mm	01 no. each
4	Cold chisel 12 mm, 20mm	01 no. each
5	Cross pein hammer	01 no.
6	Die set 3,4,5,6,7mm	01 no.each
7	Flat chisel 12mm,20mm,25mm	01 no.each
8	Flat file 10"round 2 <sup>nd</sup> cut	02 no.each
9	Flat file bastard 2 <sup>nd</sup> cut 10", 2 <sup>nd</sup> cut 12"	01 no.each
10	Grip plier	01 no.
11	Hacksaw blades 300mm	20 pc
12	Hacksaw Frame 300mm	02 no.
13	Half round chisel 12mm, 20mm	01 no.each
14	Half round leather Knife (Rapi)	01 no.
15	Hammer ball peen 500 gms, 250 gms	01 no.each
16	Hammer seaming plier (pincer) 10", 12"	01 no.each
17	Hole punch 2mm, 3mm,6mm	01 no.each
18	Hole punch set	01 no
19	Leather knife	2 no.
20	Long nose plier 150 mm	01 no.each
21	Mallet hammer with handle	01 no.each
22	Measuring tape	02 no.
23	Nipper 150mm,200mm	01 no.each
24	Nipper shoe maker 8"	01 no.
25	Plier 200mm	02 no.each
26	Rasp file flat 10",12"	02 no.each
27	Rasp file half round 10",12",8"	02 no.each
28	Rasp file round 6",10"	02 no.each
29	Revolving Hole punch 250 gms	01 no.each
30	Round file 6", 8", 2 <sup>nd</sup> cut	01 no.each
31	Ruler steel 600mm, 300mm	01 no.each
32	Scissor 10" & 12"	02 no.each
33	Screw driver 150x6mm, 200x8mm, 250x8mm	01 no.each
34	Shoe maker hammer	01 no.
35	Steel square with leg 200mm	01 no.each
36	Tap handle	2 no.each

37	Tap set 3,4,5,6,7 mm	01 no.each
38	Triangular file 6",10" 2 <sup>nd</sup> cut	01 no.each
39	Wire cutter	01 no.
40	Bender brace 5.5 mm	1 no.
41	Bender brace 6.5 mm	1 no
42	Cone sander fine, medium, coarse	01 no.each
43	Plaster knife 150x200mm,2000x750x350mm	01 no.
44	Vice limb maker (modified)	1 no
45	Bending fork (Set of two pieces)	2 no.
46	Caliper A-P measurement above knee	2 no.
47	Ear Protector	02.no
48	Nut replacement tool 7 mm, 9mm	01 no.each
49	Heat proof gloves	02 pairs
50	Copper rivets ¼", ½"	Kg
51	Aluminium rivets ¼" ½"	Kg
52	Eyelet punch	01 no.
53	Rivet head finishing punch	01 no.
54	Plastic D-rings 1", 1 ½", & 2"	Pkt
55	Buckles 1", 1 ½" & 2"	Pkt
56	Micrometer	01 no
57	Ritz scale for M-L diameter/ALIMCO B.K. Caliper	01 no.
58	Allen keys/T-handheld Allen keys (1mm-10mm)	02 set
59	Press button	Consumable
60	Evathene foam 4mm, 6mm, 8mm thickness	5 sheets each
61	Polypropylene and co polymer sheets (white) 3mm, 4mm & 5mm thickness	5 sheets each
62	Dendrite solution	5 ltr (5 tin)
63	Velcro straps (hook & loop) ¾", 1" and 2"	2 roll each
64	Nappa leather	Consumable
65	Low temperature thermo plastic sheets 3.2mm/4.2mm thickness	5 sheets each
66	Aluminium strips (4mm) thickness	5 kg.
67	Aluminium sheet (4mm thickness), 1 mm=18 gauge (BSW)	2 sheet
68	Drill bits, Full Set Max diameter (7/64", 1/8", 9/64", 5/32", 3/16", 11/64", ¼", 3/8", ½")	1 set
69	Different modular system for lower limb prostheses	
70	Torque wrench	01
71	Bench Vice	02
72	V-BOX	01



73	Protecting Glass	02
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## **II. LIST OF TOOLS AND EQUIPMENT REQUIRED FOR PATIENT EXAMINATION AND CASTING ROOM**


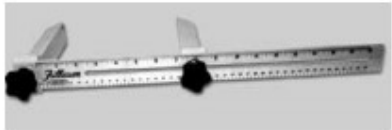



S.No.	Name of Equipment	Requirement
1.	MEASURING TAPE	01
2.	FLEXIBLE STEEL RULE	01/02
3	ALUMINIUM TRIPOD	02
4	CASTING APPARATUS FOR ABOVE KNEE AMPUTEE	01
5	PLASTER BANDAGE TROLLEY	01
6	OSCILLATING SAW - MULTIMASTER	01
7	HOOK KNIFE	01
8	PLASTER CUTTING SCISSORS	02
9	GONIOMETER	01
10	PEDOBAROGRAPHY MACHINE	01
11	ADJUSTABLE CASTING TABLE	01






## **III. PLASTER MODIFICATION AREA/ROOM**

S.No.	Name of Equipment	Minimum Requirement
1..	PLASTER WORK TABLE	01
2.	PLASTER CAST SHELF	01
3.	PIPE VICE	02
4.	PLASTER BUCKET	02
5.	MIXING BOWL	03
6.	PLASTER STIRRER	01
7.	SURFORM FILE FLAT	06
8.	SURFORM FILE ROUND (Blade only)	06
9.	SURFORM FILE HALF ROUND (Blade only)	06
10.	PLASTER SPATULA	03
11.	TAPE MEASURE	01
12.	GONIOMETER	01
13.	SPECIAL PLASTER KNIFE	01
14.	DRAW KNIFE	02
15.	PLASTER CUTTING SCISSORS	01
16.	MANDRILLS	04
17.	PLASTER SEPARATION SINK	01
18.	WALL FRAME	01
19.	CAST TAPPER MANDRIL	01
20.	CAST TAPPER HOLDER	01


## DETAILS OF PROSTHETIC & ORTHOTIC MATERIALS TO BE PROCURED


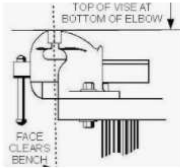

### List of Common Tools and Materials

S.No.	Name of Equipment / tool	Specification	Picture
1.	Aluminum Flat File 10" & 12"	Aluminum Flat File 10" & 12"	
2.	Anvil.	50 Kg OR Weight 70lbs, Face 3-1/2" x 11", Heel 9", Horn 4" x 8" Height 8-3/4", Base 10" x 9"	
3.	Caliper inside/outside 200mm	To Measure A-P, ML Gauge To measure Transtibial stump length, Transtibial Measuring caliper	  
4.	Cold chisel 12mm, 20mm	Cold chisel 12mm, 20mm	
5.	Cross pein hammer	Used to set small nails and pins	
6.	Die set 3,4,5,6,7 mm	Die set 3,4,5,6,7 mm	
7.	Flat chisel 12mm,20mm,25mm	Flat chisel 12mm,20mm,25mm	
8.	Flat file 10" round 2 <sup>nd</sup> cut	Flat file 10" round 2 <sup>nd</sup> cut	
9.	Flat file bastard 2 <sup>nd</sup> cut 10", 2 <sup>nd</sup> cut 12"	Flat file bastard 2 <sup>nd</sup> cut 10", 2 <sup>nd</sup> cut 12"	





10.	Grip plier	<ul style="list-style-type: none"> <li>Curved Jaw Locking Pliers with four pressure points and cutting surface</li> <li>Non-slip ergonomic handle is easy to use.</li> <li>Micro adjusting screw and pressure release lever</li> <li>Item Dimensions 28 x 7 LxWxH</li> </ul>	
11.	Hacksaw blades 300mm	Hacksaw blades 300mm	
12.	Hacksaw Frame 300mm	Hacksaw Frame 300mm	
13.	Half round chisel 12mm, 20mm	Half round chisel 12mm, 20mm	
14.	Half round leather Knife (Rapi)	Half round leather Knife (Rapi)	
15.	Hammer ball peen 500 gms, 250gms	Hammer ball peen 500 gms, 250gms	
16.	Hammer seaming plier (pincer) 10", 12"	Hammer seaming plier (pincer) 10", 12"	
17.	Hole punch 2mm, 3mm,6mm	Hole punch 2mm, 3mm,6mm	
18.	Hole punch set	<ul style="list-style-type: none"> <li>Used for or making clean accurate holes in Leather, Rubber, Plastic, Vinyl, Gaskets, Paper and Other Types of Material.</li> <li>Heavy duty precision cutting edges and flutes.</li> </ul>	
19.	Leather knife	<ul style="list-style-type: none"> <li>High-quality steel with wooden handle.   Length: approx. 6.7 inch; Knife Head Size: 3.5cm x 7cm (1.38"x 2.75")   The leather semicircular knife have the suitable cutting edges, which can cut many types of material.</li> </ul>	
20.	Long nose plier 150 mm	Long nose plier 150 mm	
21.	Mallet hammer with handle	Nylon Mallet hammer with handle	
22.	Measuring tape	<ul style="list-style-type: none"> <li>Inch/metric, retractable plastic-coated cloth</li> <li>60"</li> <li>Used in Prosthetic and Orthotic Industry ( Standard Precision</li> </ul>	

		Measurement )	
23.	Nipper 150mm, 200mm	Nipper 150mm, 200mm	
24.	Nipper shoe maker 8"	Nipper shoe maker 8"	
25.	Plier 200mm	Plier 200mm	
26.	Rasp file flat 10", 12"	Rasp file flat 10", 12"	
27.	Rasp file half round 10", 12", 8"	Rasp file half round 10", 12", 8"	
28.	Rasp file round 6", 10"	Rasp file round 6", 10"	
29.	Revolving Hole punch 250gms	Revolving Hole punch 250gms	
30.	Round file 6", 8", 2 <sup>nd</sup> cut	Round file 6", 8", 2 <sup>nd</sup> cut	
31.	Ruler steel 600mm, 300mm	Ruler steel 600mm, 300mm	
32.	Scissor 10" & 12 "	Scissor 10" & 12 "	
33.	Screw driver 150x6mm, 200x8mm, 250x8mm	Screw driver 150x6mm, 200x8mm, 250x8mm	
34.	Shoe maker hammer	Shoe maker hammer	
35.	Steel square with leg 200mm	Steel square with leg 200mm	
36.	Tap handle	To create internal threading .	
37.	Tap set 3, 4,5,6,7 mm	Tap set 3, 4,5,6,7 mm	
38.	Triangular file 6", 10" 2 <sup>nd</sup> cut	Triangular file 6", 10" 2 <sup>nd</sup> cut	
39.	wire cutter	wire cutter	
40.	Bender brace 5.5 mm	Bender brace 5.5 mm	
41.	Bender brace 6.5 mm	Bender brace 6.5 mm	
42.	cone sander fine, medium, coarse	cone sander fine, medium, coarse	
43.	Plaster knife 150x200mm, 2000x750x350mm	Plaster knife 150x200mm, 2000x750x350mm	
44.	Vice limb maker (modified)	Vice limb maker (modified)	
45.	Bending fork (Set of two pieces)	Used in P&O Lab for bending and Setting the uprights. 1. (4-6) 265 mm 2. (6.5 to 8) 265 mm 3. (7-9) 265 mm	
46.	Caliper A-P measurement above knee	Caliper A-P measurement above knee	
47.	Ear Protector	Ear Protector	
48.	Nut replacement tool 7mm, 9mm	Nut replacement tool 7mm, 9mm	

49.	Heat proof gloves	<p>Gives heat protection up to 350 F</p> <p>Soft,flexible and machine washable “one size fits all”</p> <p>Made with 100% Kevlar cotton with standard paremeters</p>	
50.	Copper rivets ¼”, ½”		
51.	Aluminium rivets ¼”, ½”		
52.	Eyelet punch	To punch small brass eyelets into Prosthesis and Orthosis accessories.	
53.	Rivet head finishing punch	The hand <i>punch</i> tool for flat <i>head rivets</i> . Set of 3-14mm.	
54.	Plastic D-rings 1”, 1½”,&2”		
55.	Buckles 1” , 1 ½” & 2”		
56.	Micrometer	<ul style="list-style-type: none"> <li>Used for accurate measurement of components</li> </ul>	
57.	Ritz scale for M-L diameter/ALIMCO B.K. caliper	Ritz scale for M-L diameter/ALIMCO B.K. caliper	
58.	Allen keys / T-handheld Allen keys ( 1mm-10mm)	Allen keys / T-handheld Allen keys ( 1mm-10mm)	
59.	Press button		
60.	Evathane foam 4mm,6mm,8mm thickness		
61.	Polypropylene and co polymer sheets (white) 3mm, 4mm & 5mm thickness		
62.	Dendrite solution		
63.	Velcro straps (hook & loop) ¾”, 1” and 2”		
64.	Nappa leather		
65.	Low temperature thermo plastic sheets 3.2mm/4.2mm thickness		
66.	Aluminium strips (4mm) thickness		

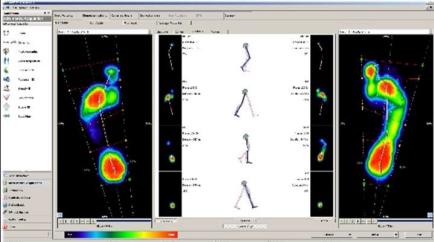

67.	Aluminium sheet (4mm thickness), 1mm=18 gauge (BSW)		
68.	Drill bits, Full Set Max diameter (7/64", 1/8", 9/64", 5/32", 3/16", 11/64", 1/4", 3/8", 1/2")	Drill bits, Full Set Max diameter (7/64", 1/8", 9/64", 5/32", 3/16", 11/64", 1/4", 3/8", 1/2")	
69.	Different modular system for lower limb prostheses		
70.	Torque wrench	<p>Equipment Numeric torque value display, click signal Adjustable and readable torque value, includes calibration certificate Measurement range 0,3 - 1,2 Nm 1 - 25 Nm 2-12 Nm 20 - 100 Nm Total wrench length 155 mm 291 mm 211 mm 405 mm With hexagon bits and all attachments Exclusively made for use in prosthetic and orthotic lab.</p>	
71.	Bench Vice	Used in Prosthetic and orthotic lab	 
72.	V-BOX		
73.	Protecting Glass	For use in prosthetic & Orthotic Department	


**List of tools and equipment for patient examination and casting room.**

S.No.	Name of Equipment	Added Specification	Picture
1.	MEASURING TAPE	<ul style="list-style-type: none"> <li>Inch/metric, retractable plastic-coated cloth</li> <li>60"</li> <li>Used in Prosthetic and Orthotic Industry ( Standard Precision Measurement )</li> </ul>	
2.	FLEXIBLE STEEL RULE	300mm,600 mm ( Stainless Steel)	
3.	ALUMINIUM TRIPOD	ALUMINIUM TRIPOD	
4.	CASTING APPARATUS FOR ABOVE KNEE AMPUTEE	APPARATUS FOR ABOVE KNEE (SET)	
5.	PLASTER BANDAGE TROLLEY	Mobile steel cabinet with 2 drawers, 2 swing doors and 1 adjustable built-in shelf, push handle 4 guide rollers Ø 125 mm, 4 rubber wall bumpers and seamless table top with 3-sided gallery	
6.	OSCILLATING SAW – MULTIMASTER	Single Phase Power Supply:220 V/5Amprs Fitted with depth control gauge RPM: 25,000(approx.) Ergonomically design with easy handling Effective for synthetic plasters as well as POP( to use in P&O Lab) With all accessories.	
7.	HOOK KNIFE	Used in Prosthetic & Orthotic Lab	
8.	PLASTER CUTTING SCISSORS	For Prosthetic and Orthotic Use	







9.	GONIOMETER	<p>3-in-1: Angle Horizontal and Vertical measurement. Wide Range: making different measuring range by locking at four different locking holes. Angle Gauge: absolute measuring and relative measuring converts. Level Bubble: for measuring horizontal level easily. Data Hold: with data hold function for easy reading of measurement data. Locking Knob: fixing the angle by locking the knob as you need. Auto-off: 5 minutes auto power power saving. LCD Screen: 2.6 LCD screen display data clearly. Easy calibration and zero setting. Convenient to measure all kinds of angle and draw lines. Specifications: Material: Stainless steel Accuracy: 0.15 Resolution: 0.05 Measuring Range: 0~360 Working Temperature: 0~50? / 32~122? Working Humidity: 85% Power Supply: 1 * 3V CR2032 button battery (NOT included) LCD Size: 64 * 15mm / 2.52 * 0.59in Item Size: 267 * 50 * 25mm / 10.51 * 1.97 * 0.98in Item Weight: 340g / 11.99oz Package Weight: 402g / 14.20oz Package Size: 32.5 * 13 * 4cm / 12.79 * 5.12 * 1.57in Package List: 1 * Angle Ruler 1 * Manual (English)</p>	
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10.	Pedobarography machine	<p><b><u>Hardware</u></b></p> <p>Having a platforms for detecting patient's foot loads and their posture during standing and walking and for balance evaluation (stabilometry). Embedded with sensors, coated in 24k gold with conductive foam to ensure extreme reliability and repeatability. Basic specifications:</p> <ul style="list-style-type: none"> <li>- Sensorized platform should be highly durable and made of at least Aluminum material.</li> <li>- sampling frequency of 200-400Hz in real time.</li> <li>- Resistive sensors of 24K gold coated with conductive foam to ensures extreme reliability and repeatability.</li> <li>- Minimum sensor areas of 40X40 to 50X60 cms.</li> <li>- Equipped with passive walkways (atleast two numbers), to make a total length of minimum seven feet.</li> <li>- To be equipped with Software to analyse both Static &amp; Dynamic acquisitions.</li> <li>- Absorption rate of minimum 50mA</li> <li>- Resolution of XY axis of 2.5dpi &amp; Z axis of 8 bit.</li> <li>- Interface of USB 2.0</li> <li>- Least one million work cycle.</li> <li>- Possibility to have a maximum pressure 150N/cm<sup>2</sup>.</li> <li>- Minimum 3yrs of warranty.</li> </ul> <p><b><u>Software requirements for Analysis</u></b></p> <ul style="list-style-type: none"> <li>- Able to study the baropodometry, stabilometry and biomechanics in motion.</li> <li>- Able to analyse both Static &amp; Dynamic motion to evaluate the pressure loads without shoes in three-dimensional,</li> </ul>	 
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		<p>isobaric, high resolution visualisation at various points.</p> <ul style="list-style-type: none"> <li>- Can also measure the load with shoe and with shoe and insole to compare the effects with different interfaces.</li> <li>- Can be able to analyse pressure with patients wearing Prosthesis or Orthosis systems.</li> <li>- Ability to analyse atleast 200-250 frames in 5 seconds.</li> <li>- Having numerical information on foot pressure distribution, surfaces, rear/front percentage, centre of gravity and left/right centres of pressure.</li> <li>- Having acquisition in real time of walking and running over 400Hz.</li> <li>- Able to save and analyse each single footprint Curves and graphs, foot geometry, gait cycle, numeric values, force lines and synchronized video acquisitions.</li> <li>- Also be able to produce automatic analysis report and comparison.</li> </ul>	
11.	ADJUSTABLE CASTING TABLE	<p>With foot platform, step and lateral armrest either to left or to right seat and backrest covered with syntetic material steel frame and plastic coated foot platform paintable in desired colour washable syntetic material seat cover and backrest, colour is arbitrary height of foot platform: 460 mm, total height incl. backrest: 1250 mm, total width incl. step: 870 mm,width without step: 600 mm, total depth: 1000 mm</p>	

## Plaster Modification Area/Room

S.N o.	Name of Equipment		Picture
1.	PLASTER WORK TABLE	<b>Equipment</b> Tabletop with stainless steel cover (rust-proof), bevelled on the sides, base frame made of square tubing, galvanised storage racks <b>Dimensions WxDxH</b> 1,800 x 900 x 850 mm <b>Material</b> Rust-proof stainless steel	
2.	PLASTER CAST SHELF	width without step: 600 mm, total depth: 1000 mm connectors. 4 bearers with diagonal tie bars. 1 base level. 1 cover level. 3 levels with steel shelving. 2 levels with grates. dimensions H x W x D: 2171 x 1055 x 500 mm. shelf depth: 500 mm	
3.	PIPE VICE	<ul style="list-style-type: none"> <li>Made up of steel and can resist the high temperature.</li> <li>Replaceable jaw which works effectively between two steel bars</li> </ul> <b>feaatures:</b> <ul style="list-style-type: none"> <li>The moveable jaw is running in two square steel bars</li> </ul> <b>construction:</b> <ul style="list-style-type: none"> <li>All steel body replaceable accurately machined hardened &amp; tempered jaws</li> </ul>	
4.	PLASTER BUCKET	Uesd in Prosthetic & Orthotic Lab	
5.	MIXING BOWL	Good quality rubber material used in Prosthetic & Orthotic use	
6.	PLASTER STIRRER	Used in Mixing POP Powder in P&O Lab.	
7.	SURFORM FILE FLAT	<ul style="list-style-type: none"> <li>Frame Made of metal, Useful for smoothing curved surfaces, High-impact polymer handle with thumb support holds up to heavy use.</li> </ul>	

8.	SURFORM FILE ROUND (Blade only)	<ul style="list-style-type: none"> <li>Mild Steel</li> <li>Durable Quality</li> <li>With Frame Made of metal, Useful for smoothing curved surfaces, High-impact polymer handle with thumb support holds up to heavy use.</li> </ul>	
9.	SURFORM FILE HALF ROUND (Blade only)	<ul style="list-style-type: none"> <li>Mild Steel</li> <li>Durable Quality with</li> <li>Frame Made of metal, Useful for smoothing curved surfaces, High-impact polymer handle with thumb support holds up to heavy use.</li> </ul>	
10.	PLASTER SPATULA	Metallic with Polymer Handle	
11.	TAPE MEASURE	<ul style="list-style-type: none"> <li>Inch/metric, retractable plastic-coated cloth</li> <li>60"</li> <li>Used in Prosthetic and Orthotic Industry ( Standard Precision Measurement )</li> </ul>	
12.	GONIOMETER		
13.	SPECIAL PLASTER KNIFE	Used for POP Plaster Cutting (Manually)	
14.	DRAW KNIFE	<p>*Should flex around contours where large amounts of stock need to be removed quickly. The tool should be flexed to accommodate concave or convex surfaces.</p> <p>*Tools used in plaster cast modification.</p>	
15.	Plaster Cutting Scissors	Tool used to cut the plaster cast.	
16.	MANDRILLS	Used in Prosthetic and orthotic modifications ,suction lamination and draping (Removable)	
17.	PLASTER SEPARATION SINK	<ul style="list-style-type: none"> <li>4-chamber purification system</li> <li>Easy to clean with film insert</li> <li>Visual inspection of the height of the slurry</li> <li>Transparent container,closed system, no overflow, 2 inch diameter discharge connection</li> </ul> <p><b>Dimensions Ø x H 13 3/8 x 12 5/8 inch</b></p>	

		<p>1 supply hose, straight, length 19 5/8 inch, 1 1/2" 1 flexible drain hose, length 19 5/8 inch, outflow 2 - 1 5/8 inch</p> <p>•</p>	
18.	WALL FRAME	<p>.The product are using in Prosthetics&amp; Orthotics Lab for plaster cast alignment.</p> <p>.Made of M.S. material</p>	
19.	CAST TAPPER MANDRIL	<p>The product are using in Prosthetics &amp; Orthotics Lab for plaster alignment.</p> <p>Cast support taper for plaster banch</p>	
20.	CAST TAPPER HOLDER	<p>Use for hold the cast holder</p> <p>Made of Stainless Steel</p>	