



**EMPLOYEES' STATE INSURANCE CORPORATION
HOSPITAL, PEENYA**

(Under Ministry of Labour & Employment, Govt. of India)
Sy.No. 11/55/1, Plot No.1, 5th Main (FTI Campus), Yeshwanthpur
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No. 492/U/16/30/2012/Central Stores

Dated: 31.07.2012

TENDER NOTIFICATION

Sealed and superscribed tenders are invited from reputed Manufacturers or their sole authorized dealers, in prescribed tender forms for “SUPPLY, INSTALLATION, COMMISSIONING & MAINTENANCE OF MEDICAL EQUIPMENTS TO VARIOUS DEPARTMENTS”. The list of medical equipment is as under:

LIST OF MEDICAL EQUIPMENTS						
Sl.No	Tender No.	Name of the Equipment	Qtt	EMD (In Rs.)	Perf. BG (In Rs.)	Tender opening dates
GROUP - 1		LABORATORY				GROUP - 1 Date of opening Technical bids - 05.09.2012. Date of demonstration of equipment by tenderers qualifying in Technical bids - 06.09.2012. Date of opening of Financial tenders of tenderers qualifying through technical bids & demonstration - 07.09.2012
1	NO.492/U/16/30/2012/A(1)/LAB	Digital Incubator	1	1250	2500	
2	NO.492/U/16/30/2012/A(2)/LAB	Trinocular microscope with photomicrography and facility for upgradation	1	14000	28000	
3	NO.492/U/16/30/2012/A(3)/LAB	Slide Cabinet (50000 capacity)	1	2500	5000	
4	NO.492/U/16/30/2012/A(4)/LAB	Binocular microscope with illumination	4	10000	20000	
5	NO.492/U/16/30/2012/A(5)/LAB	Hot Air oven	1	1000	2000	
6	NO.492/U/16/30/2012/A(6)/LAB	Centrifuge	3	4500	9000	
7	NO.492/U/16/30/2012/A(7)/LAB	Semi Automated coagulation Analyser	1	5000	10000	
GROUP - 1		GENERAL SURGERY				
1	NO.492/U/16/19//2012/B(1)/SURG	LED Mobile O.T Light	7	17500	35000	
2	NO.492/U/16/19/2012/B(2)/SURG	OT TABLE FOR MINOR OT	1	50000	100000	
GROUP - 1		PEDIATRICS				
1	NO.492/U/16/30//2012/F(1)/PED	Electronic digital weighing scales				
	NO.492/U/16/30/2012/F(1i)/PED	i) Neonate	2	2000	4000	
	NO.492/U/16/30/2012/F(1ii)/PED	ii) Infant & Child	2	2000	4000	
2	NO.492/U/16/30/2012/F(2)/PED	Ophthalmoscope	2	1500	3000	
3	NO.492/U/16/30/2012/F(3)/PED	Cutaneous bilirubinometer	1	8750	17500	
4	NO.492/U/16/30/2012/F(4)/PED	Double surface CFL Phototherapy	4	14000	28000	
5	NO.492/U/16/30/2012/F(5)/PED	Neonatal open care system	8	200000	400000	
6	NO.492/U/16/30/2012/F(6)/PED	Resuscitation warmer	2	6000	12000	
GROUP - 1		DERMATOLOGY				

1	NO.492/U/16/30/2012/H(1)/DERMA	Liquid nitrogen cryojet machine	1	2500	5000	
2	NO.492/U/16/30/2012/H(2)/DERMA	Graft spreader and dissector, double ended	1	2500	5000	
3	NO.492/U/16/30/2012/H(3)/DERMA	High frequency radio surgery unit – electro diathermy machine	1	1250	2500	
4	NO.492/U/16/30/2012/H(4)/DERMA	Dark field microscope	1	10000	20000	
5	NO.492/U/16/30/2012/H(5)/DERMA	Nail extractor & dissector	1	1000	2000	
6	NO.492/U/16/30/2012/H(6)/DERMA	Tattoo pencil set	1	1500	3000	
	GROUP - 2	E.N.T				
1	NO.492/U/16/30//2012/C(1)/ENT	E.N.T Operating Microscope with Zoom and 5 step magnification changer	1	25000	50000	
2	NO.492/U/16/30//2012/C(2)/ENT	Clinical Diagnostic Pure tone Audiometry	1	10000	20000	GROUP - 2 Date of opening Technical bids - 10.09.2012. Date of demonstration of equipment by tenderers qualifying in Technical bids - 11.09.2012. Date of opening of Financial tenders of tenderers qualifying through technical bids & demonstration - 12.09.2012.
	GROUP - 2	OPHTHALMOLOGY				
1	NO.492/U/16/30/2012/L(1)/OPHTH	Goldmann aplanation tonometer	1	4250	8500	
2	NO.492/U/16/30/2012/L(2)/OPHTH	A Scan	1	6250	12500	
3	NO.492/U/16/30/2012/L(3)/OPHTH	Automated Perimeter	1	45000	90000	
4	NO.492/U/16/30/2012/L(4)/OPHTH	Indirect Ophthalmoscopy	1	4000	8000	
5	NO.492/U/16/30/2012/L(5)/OPHTH	Automated Lensometer with printer	1	11250	22500	
6	NO.492/U/16/30/2012/L(6)/OPHTH	Operating Microscope (Ophthalmology)	1	60000	120000	
	GROUP - 3	CASUALTY				
1	NO.492/U/16/30/2012/I(1)/CAS	Multi parameter bedside monitor	12	120000	240000	
	GROUP - 3	MEDICINE				
1	NO.492/U/16/30/2012/K(1)/MED	Nebulizer	15	1500	7500	
	GROUP - 3	ANAESTHESIOLOGY				
1	NO.492/U/16/30//2012/M(1)/ANAS	Nerve Stimulator	1	7500	15000	
	GROUP - 3	ICU				GROUP - 3 Date of opening Technical bids - 13.09.2012. Date of demonstration of equipment by tenderers qualifying in Technical bids – 14.09.2012. Date of opening of Financial tenders of tenderers qualifying through technical bids & demonstration - 15.09.2012.
1	NO.492/U/16/30/2012/N(1)/ICU	Defibrillator	8	120000	240000	
2	NO.492/U/16/30/2012/N(2)/ICU	Syringe pump	8	24000	48000	
3	NO.492/U/16/30/2012/N(3)/ICU	Blood Gas Analyser	1	50000	100000	
4	NO.492/U/16/30/2012/N(4)/ICU	Fluid Warmers	4	18000	36000	
	GROUP - 4	OCCUPATIONAL THERAPY				
1	NO.492/U/16/30//2012/D(1)/OCC.TH	Dual channel E.M.G	1	2500	5000	
2	NO.492/U/16/30//2012/D(2)/OCC.TH	Finger Dexterity Testy	1	1000	2000	
3	NO.492/U/16/30//2012/D(3)/OCC.TH	cerebral palsy chair	1	750	1500	
4	NO.492/U/16/30//2012/D(4)/OCC.TH	Hand Dynamometer	1	1000	2000	
5	NO.492/U/16/30//2012/D(5)/OCC.TH	Hand Evaluvation kit (JAMER)	1	2500	5000	

6	NO.492/U/16/30//2012/D(6)/OCC.TH	Hand Tapper test board (Electric)	1set	750	1500	<p>GROUP - 4 Date of opening Technical bids - 20.09.2012. Date of demonstration of equipment by tenderers qualifying in Technical bids - 21.09.2012. Date of opening of Financial tenders of tenderers qualifying through technical bids & demonstration 22.09.2012.</p>
7	NO.492/U/16/30//2012/D(7)/OCC.TH	Hand Tool Test Frame	1	750	1500	
8	NO.492/U/16/30//2012/D(8)/OCC.TH	P.E.G Board Test (PURDUE PEG BOARD)	1	1500	3000	
9	NO.492/U/16/30//2012/D(9)/OCC.TH	Sensory Integration and praxis test (SIPT)	1	2500	5000	
10	NO.492/U/16/30//2012/D(10)/OCC.TH	Activity Mattress	1	750	1500	
11	NO.492/U/16/30//2012/D(11)/OCC.TH	Ankle Excerciser	1	750	1500	
12	NO.492/U/16/30//2012/D(12)/OCC.TH	Continous passive motion (UPPER EXTREMITY)	1	2000	4000	
13	NO.492/U/16/30//2012/D(13)/OCC.TH	Ergometer-MX-1	1	2000	4000	
14	NO.492/U/16/30//2012/D(14)/OCC.TH	Medicinal Balls (1-5kgs)	1each	2500	5000	
15	NO.492/U/16/30//2012/D(15)/OCC.TH	Nirmal Table For Hand Excerciser	1	1000	2000	
16	NO.492/U/16/30//2012/D(16)/OCC.TH	Peddo Cycle	1	1500	3000	
17	NO.492/U/16/30//2012/D(17)/OCC.TH	Sanding unit overhead with stand	1	750	1500	
18	NO.492/U/16/30//2012/D(18)/OCC.TH	Sanding unit vertical (wall mounting)	1	750	1500	
19	NO.492/U/16/30//2012/D(19)/OCC.TH	Sanding unit with adjustable incline for reciprocal exerciser	1	750	1500	
20	NO.492/U/16/30//2012/D(20)/OCC.TH	Tilt table (Electrically operated)	1	1250	2500	
21	NO.492/U/16/30//2012/D(21)/OCC.TH	Vestibulo proprioceptive equipments- a) Swing	1set	1500	3000	
22	NO.492/U/16/30//2012/D(22)/OCC.TH	Ramp with Curbs	1	1000	2000	
23	NO.492/U/16/30//2012/D(23)/OCC.TH	Bubble ball bath (with Balls)	1	1000	2000	
24	NO.492/U/16/30//2012/D(24)/OCC.TH	JUMP – 200 (Trampoline)	1	750	1500	
25	NO.492/U/16/30//2012/D(25)/OCC.TH	Thermoplast sheets (10 sheets)	10	3000	6000	
26	NO.492/U/16/30//2012/D(26)/OCC.TH	Splint thermal bath	1	1000	2000	
27	NO.492/U/16/30//2012/D(27)/OCC.TH	Foam pad (Ethaflex) 10 sheets	10	750	1500	
28	NO.492/U/16/30//2012/D(28)/OCC.TH	Wheel chair (adjustable)	1	1250	2500	
29	NO.492/U/16/30//2012/D(29)/OCC.TH	Multiactivity workstation	1	2500	5000	
	GROUP - 4	PHYSIOTHERAPY				
1	NO.492/U/16/30//2012/E(1)/PHY	Hand exerciser	1	1595	3190	
2	NO.492/U/16/30//2012/E(2)/PHY	Upright bi-directional bike	2	3160	6320	

Detailed information with all terms and conditions are given in the Tender Document. Application forms and the tender documents can be obtained in person from Central Stores of the office of the Medical Superintendent by giving a request letter on letter head of the tenderer along with a crossed **DD / Banker's Cheque for Rs.1,000/- (Rupees One thousand only)**, drawn in favour of ESIC a/c NO.1, payable at Bangalore. The application fee is non-refundable. Application & Tender document can be downloaded from our Website www.esickar.gov.in & www.eprocure.gov.in

**-Sd-
Medical Superintendent**

ANNEXURE - 1

IMPORTANT INSTRUCTIONS TO TENDERERS

Application forms & tender documents are non-transferable.

SIGNING OF TENDER:

Individuals signing tender or other documents connected with the contract specify:

- (i) Whether signing as a “Sole Proprietor” of the firm or his attorney.
- (ii) Whether signing as a “Registered Active Partner” of the firm or his attorney.
- (iii) Whether signing for the firm “Per Procurationem.”
- (iv) In the case of companies and firms registered under the Indian Partnership Act the - capacity in which signing, e.g. Secretary, Manager, Partner etc. or their attorney and produce copy of a document, empowering him to do so, if called upon to do so.

Note: In case of unregistered firms all the members or all attorneys duly authorized by all of them or the Manager of the firm should sign the tender and subsequent documents.

ADDRESSING THE TENDER:

The tender documents should be addressed to “The Medical Superintendent, ESIC Hospital, 5th Main Road (FTI Campus), Yeshwanthpur Industrial Sub-urb, Bengaluru – 560 022”.

PREPARATION OF TENDER:

- a) Tenders should be prepared in three separate covers for (i) Price bid (in triplicate) (ii) Technical bid (in triplicate) and (iii) Bid Guarantee, all three duly sealed, superscribed and addressed to the hospital.
- b) All the above referred three envelopes should be placed in a big envelope which will form the main cover. This main cover must be superscribed “Tender for _____ due on _____ at _____ Hrs.
- c) The technical bid should contain precise technical, operating & maintenance details. Any limitations or extension of the requirement should be clearly spelt out. Bids not giving the precise technical details are liable to be rejected. The operating and service manual of the equipment should accompany the technical bid.
- d) The Price bid should contain quotes both in figures & words. Bids not giving the quote in words are liable to be rejected.
- e) In addition to quoting for the equipment as per the format, the tenderer must also quote the charges and terms and conditions of CMC/AMC service for a period of 5 (five) years for maintaining the equipment at this hospital after the expiry of the period or warranty / guarantee. The service contract charges should be quoted only for labour (which will include the cost of the engineer’s / support staff’s time, travel, etc.) and excluding the cost of any replacements / components that may be required at the time of providing such service.

DELIVERY OF TENDER DOCUMENTS:

- a) The bids should be submitted to the office as detailed elsewhere in this document, within the stipulated date & time. No relaxations / exceptions will be permitted in this regard, under any circumstances.
- b) The price bid/Bid Guarantee should be kept valid for acceptance for a period of 180 days after opening of the tender.
- c) The purchaser will not be responsible for any postal delay or any other cause that may lead to delay in the receipt of the tender documents in this office beyond the stipulated date and time stated in the tender documents.

WHO CAN BID:

- a) Only manufacturers or their sole authorized distributors / sole agents are entitled to submit the bid documents.
- b) All offers other than from the manufacturers should be supported by an authority letter in original from the manufacturer/s authorizing the firm to submit bids on their behalf.
- c) Certificate to the effect that the bidder is the manufacturer of the equipment / authorised sole distributors or sole agents for manufacturer on whose behalf they are quoting, must be included in the documents. The said certificate should be duly attested & stamped by the authorized signatory of the manufacturer / sole authorised distributor or sole agent, as the case may be.
- d) **The firm should enclose a certificate that they are enrolled with the Directorate General of Supplies & stamped by the authorized signatory of the firm. The firm should enclose a certificate that they are enrolled with the Directorate General of Supplies & Disposals, Parliament Street, New Delhi to act as Indian Agent.**

IMPORTANT DATES FOR ISSUE & SUBMISSION OF TENDER DOCUMENTS:

- a) Tender documents can be obtained from the Central Stores of the Office of the Medical Superintendent from **6/08/2012 to 27/08/2012, between 1000 Hrs & 1500 Hrs on all working days**, on submitting an application in writing, enclosing a DD/BPO for an amount of Rs1000/- (Rupees One thousand only), drawn in favour of "ESIC A/c No.1", payable at Bengaluru & issued by any nationalised bank.
- b) **The last date for submission of duly filled in applications alongwith all enclosures as mentioned in this document is 4/09/2012, 1500 Hrs.** No applications submitted after the due date or time shall be accepted by the hospital under any circumstances. In the event of the day of submission and opening of the tender being a holiday for hospital then due date for submission of completed tenders / opening of the tender will be the immediately following working day at the same hour.
- c) Application & the tender document can also be downloaded from our web site www.esickar.gov.in. & www.eprocure.gov.in. In case of applications & documents downloaded from the web site, the same shall be submitted alongwith

the application fees, failing which the application is liable for rejection and no further communication shall be entertained in the matter.

TERMS & CONDITIONS:

- a) During the service contract period the firm shall provide preventive maintenance and in addition attend to all emergent and breakdown calls.
- b) During the currency of the Warranty/Guarantee period, all parts, replacements / components covered therein shall be replaced free of cost, including labour.
- c) During the CMC/AMC service period, charges / costs, as per the agreed terms, based on the bids submitted shall be paid by the hospital. However, the firm should complete all formalities of procuring / importing the parts / replacements / components etc., the cost of which shall be borne by the hospital, on submission of authenticated documentary evidence for all the expenses incurred thereon, after the satisfactory service, duly certified by the user department.
- d) The bidders are required to submit a certificate that they have satisfactory service arrangements and fully trained service staff to support the uptime guarantees. Details of the service centres alongwith the postal addresses & contact persons & telephone numbers should also be enclosed to the technical bid. Tenders not containing service contract details & charges are liable to be rejected.
- e) The bidders are required to undertake the repair / replacement / service / maintenance of the equipment supplied by them through CMC/AMC, till the operating life of the equipment. The bidders cannot opt out of the CMC/AMC service contract, except under the condition that their entity has become insolvent or liquidated or stops their operations completely.
- f) Bidders must attach, along with the Technical Bid a photocopy of the relevant document showing the constitution of the entity, with the details of all the stake holders of the entity.
- g) Foreign firms bidding directly should attach along with the technical bid, a certificate giving the name and address of their Indian agents or their representatives in position, in India for servicing the equipment.
- h) In case the bid is from other than manufacturers, then a certificate that the quantum of Commission charged by them is the same or lesser than that being charged to other departments / Institutions for similar/same items, must accompany the Technical Bid. A list detailing all places in India where the same/similar equipment has been provided/installed by the bidder should be attached. Documentary evidence wherever possible, in support of this list and also certificates of its satisfactory working from those mentioned in the list, should be enclosed.
- i) In case the offer is from other than manufacturers, then a letter of authority from the manufacturers authorizing the firm to tender on their behalf must accompany the technical bid, failing which the bid is liable to be rejected.
- j) Bidders must furnish along with the technical bid the latest, current, valid, Income Tax clearance Certificate and Sales Tax Certificate or attested photocopies thereof.
- k) Bidders must furnish along with their technical bid a certificate that the Agency Commission, if any payable, has been included and that no Agency Commission

other than that included in the bid price is payable by the manufacturers to the Agency.

- l) The tender must be accompanied with the stipulated Earnest Money as detailed elsewhere in this document.
- m) Bids not accompanied by Earnest money as stated above or less are liable to be rejected.
- n) Earnest money / security deposit / any other sums of the tenderers with the hospital in connection with any other tender / case will not be considered against this tender.
- o) The successful bidder shall be required to furnish a contract Performance Guarantee by way of a Bank Guarantee, issued by a nationalised bank for an amount as stipulated elsewhere in this document, at the time of execution of the Agreement.
- p) The Bank guarantee should be for a period covering the entire CMC/AMC service contract, including the warranty/guarantee period. The Bank guarantee should be submitted within a period of 15 days after the placement of the supply order or supply of the equipment, whichever is earlier, failing which the order is liable to be cancelled and the Earnest money forfeited.
- q) The Bank guarantee is returnable to the equipment supplier on completion of the normal operating life of the equipment.
- r) The hospital reserves their right to invoke the Bank guarantee, if any of the terms & conditions of the supply is not met by the supplier.
- s) The Earnest Money is returnable to both the successful and other bidders, after the submission of the Bank guarantee and within three months from the completion of the tendering process, respectively.
- t) The hospital does not pledge itself to accept the lowest or any other tender, and reserves it's right to accept the whole or any part of the tender or portion of the quantity offered and the bidder shall be required to supply the same at the rate quoted. The hospital reserves it's right to accept or reject any or all the tenders without assigning any reasons there of.
- u) **CUSTOMS CLEARANCE:** The equipment requiring import from abroad shall be done so under the OGL scheme, for which tenderer will ensure before shipment takes place, that the equipment in question can be imported under the said scheme.
- v) It will be the responsibility of the tenderer to get the customs clearance of the equipment with the assistance of the hospital, as required, by way of providing any letters / authorisations, etc. The tenderer will pursue any claims with the custom authorities / insurance company / cargo operators and transporters as may arise at any stage.
- w) The N.M.I.C (Not manufactured in India) Certificate, the duty exemption certificate and any other documents required for custom clearance will be provided by the hospital.
- x) **INSURANCE:** The tenderer will ensure that the equipment is properly insured for the full CIF value to cover the transit upto installation site & period.
- y) If the installation is delayed beyond the agreed date of satisfactory installation, commissioning and handing over of the equipment, then in that event any transit

- and storage damages which come to light after such delays, shall be at the sole risk, responsibility and cost of the tenderers.
- z) The tenderer shall provide to the hospital after the inspection, a detailed list of any loss or damage to the equipment that may have occurred so as to enable the hospital to file appropriate claims with the Insurance Company. However, it shall be the responsibility of the hospital to prepare, lodge and pursue any claims that may arise with the Insurance Company.
 - aa) The tenderer shall provide all assistance in pursuing any such insurance claims expeditiously. The tenderer shall make free replacement, if required, in lieu of damaged / lost items etc., irrespective of any settlement by the insurers.
 - bb) The tenderer's liability shall be restricted to making free replacement / rectification and any local expenses such as custom duty, Octroi, clearance, etc. connected with such replacements shall be borne by the hospital.
 - cc) If, in consideration or offer of earlier delivery, the contract is placed with higher tenderer on preference to the lowest offer, the tenderer will be liable to pay to the hospital the difference between the contract rate and that of the lowest acceptable tenders on the basis of the final price CIF destination, including all elements of freight, sales tax, local taxes, duties and other incidentals, in case of failure to complete supplies in terms of such contract within the date of delivery specified and incorporated in the contract. This is in addition to compensating the hospital on all other losses and damages resulting from delayed supplies and cancellation and risk purchase in case of failure to supply the equipment.
 - dd) **GUARANTEE / WARRANTY:** The tenderer will be required to furnish guarantee / warranty from the manufacturers as under against defects of manufacture / workmanship and poor quality components for the entire equipment shall be for a period of 24 months with spares, and 36 months without spares starting from the date of satisfactory installation / commissioning and handing over of the equipment in working order.
 - ee) During the guarantee / warranty period, the replacement of any part(s) / components of the equipment or rectification of defects of works will be free of cost. In case of any replacement during guarantee / warranty period, all formalities connected with such import of replacement shall be completed by the tenderer with the assistance of the hospital, as required. Further, the defective parts / equipment shall be returned by the hospital to the supplier, after replacement.
 - ff) If there are any parts that are consumable in nature which are not covered under the above said guarantee / warranty clause, then details of same with nomenclature etc. must be furnished.
 - gg) The tenderer should submit a certificate that the equipment being offered is the latest model as per specifications and that spares for the equipment will be available for a period of at least 10 years after the warranty period. The tenderer should also certify that they will keep the hospital informed of any update of the equipment over a period of next 5 years and undertake to provide the same to the hospital at no extra cost.
 - hh) The tenderer will guarantee that they will regularly supply any items of spare parts requisitioned by the hospital for satisfactory operation of the equipment till

- the completion of the normal life span of the equipment, as and when required, on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price or an agreed percentage of profit on the landed cost.
- ii) The tenderer will further guarantee that the hospital will be given advance notice, before the parts / components, etc. of an equipment goes out of production so that the hospital will be in a position to procure the required quantity of these parts / components to ensure that the equipment completes its normal life span without any irreparable break downs.
- jj) The tenderer should guarantee that they will make available to the hospital the blue – prints and drawings of the spare parts if and when required in connection with the equipment.
- kk) **UNDERTAKING:** The tenderer shall furnish the undertaking, alongwith the tender document to the effect that the goods / stores / articles supplied to the hospital under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained / mentioned in the clause here of and the tenderer hereby guarantee that the said goods / stores / articles conform to the description and quality aforesaid. The hospital will be entitled to reject the said goods / stores / articles or such portion there of as may be discovered not to conform to the said description and quality. And on such eventuality, the goods / stores / articles will be at the tenderer's risk & responsibility and all the provisions here in contained relating to rejection of goods etc. shall apply. The tenderer shall, if called upon to do so, replace within a period of fourteen days or such time as may be stipulated by the hospital at their discretion, the goods / stores / articles or such portion there of as rejected by the hospital and in such an event the above mentioned warranty period shall apply to the goods / stores / articles replaced from the date of the replacement there of, otherwise the tenderer shall pay to the hospital such damage as may arise by reason of breach of the conditions here in contained. Nothing herein contained shall prejudice any other right of the hospital in this regard.
- ll) **MODE OF DESPATCH, DELIVERY AND COMMISSIONING OF EQUIPEMENT:** The equipment with all its accessories should be dispatched duly insured, freight, insurance and all incidental charges prepaid. The tenderer is required to undertake to deliver, install and commission the equipment within a period of 15 days or as expressly stipulated in the supply order.
- mm) **DELAY IN SUPPLIES / INSTALLATION (LIQUIDATED DAMAGE):** In the event of delays in supply, installation and commissioning of the equipment to the satisfaction of the hospital beyond the stipulated date / time, the hospital shall have full rights to recover damages at the rate of 1% of the CIF value of the equipment (including components, spares, accessories and optional items) per each day of delay or part there of, till the actual supply, installation & commissioning of the equipment to the satisfaction of the hospital, subject to a maximum of 10% of the CIF value, beyond which the supply order shall stand automatically cancelled, the EMD forfeited & the Bank Guarantee is liable to be invoked.
- nn) **OPENING OF BIDS:** The Technical bids shall be opened first on the dates stipulated elsewhere in this document. The tenderers are also required to give a

- demonstration of their equipment vis-à-vis the specifications offered, before the Technical Evaluation Committee (TEC). The space, electric power & such normal facilities that are available with the hospital will be provided for the technical demonstration. However, all the required materials and other paraphernalia required for the demonstration shall be carried by the tenderers themselves. The decision of the TEC is final and binding on the tenderer with regard to the acceptance of the technical bids and final technical evaluation through demonstrations and no communication in this regard will be entertained. The Financial bids of only those tenderers whose technical bids have been accepted and have also qualified in the demonstrations will be opened on the dates / times mentioned elsewhere in this document.
- oo) **TIME & PLACE OF OPENING BIDS:** All bids, whether technical or financial shall be opened in the Conference Hall of the hospital at 1100 Hrs, on the dates stipulated elsewhere in this document. The time of demonstration of the equipment shall be at 1000 Hrs., at the place as stipulated by the competent authority, based on the requirements of demonstrations and other related issues. However, the dates of demonstrations remain the same as mentioned elsewhere in this document.
- pp) **SIGNING OF CONTRACT:** The successful bidder will be required to enter into an agreement with the hospital on a non-judicial stamped paper for the supply and satisfactory installation and commissioning of the equipment as per specifications and terms and conditions listed in this tender document and agreed upon. The tenderer shall bear the cost of agreement and registration as required.
- qq) **TRAINING:** The tenderer shall, after the satisfactory installation and commissioning of the equipment, adequate training to the staff of the hospital at site at no extra cost.
- rr) **OPERATING MANUALS:** The tenderer shall provide the complete operating manuals in English or Hindi or Kannada languages for the equipment supplied by them. (Atleast English is a must)
- ss) **Warranty / Guarantee:** The tenderer shall provide duly signed, dated, stamped and authenticated Warranty/Guarantee cards/documents, which shall come into effect from the date of successful commissioning of the equipment to the satisfaction of the hospital.
- tt) **UPTIME GUARANTEE:** At the end of the warranty / guarantee period the hospital shall enter into a CMC/AMC service contract with the tenderer. The tenderer shall ensure during and after the warranty/guarantee/CMC or AMC service contract that the equipment will be maintained in good working condition for a period of 347 days out of a period of 365 days (i.e 95% Uptime). Non-functioning of the equipment for a period of 8 (eight) hours shall be considered as one day down time. Essential period to shut down the equipment fully or partially shall also be included in the down time while calculating the 95% guaranteed uptime. No deduction or advantage of any kind on account of Sundays, half days on Saturdays, public / Govt. holidays observed by the hospital shall be allowed from the total down time permissible as defined above except that such of Sundays, half days on Saturday, Public / Govt. holidays on which the hospital is not able to provide facilities for service / repairs of the equipment shall be

- excluded for counting the downtime. This guaranteed uptime shall be calculated for each block of 365 days. The firm will be required to pay a penalty of Rs1,000/- (Rupees One thousand only) per day in case the number of days of downtime in each period of 365 days is more than the downtime permissible which is to be calculated as defined above and the delay for not bringing the equipment in functioning order is in any way directly or even partially attributable to the tenderer. Further, the penalty will apply only for the number of days the permissible down time as defined above is exceeded. For the purpose of calculation of down time, any downtime period less than 8 hours shall be excluded. During the CMC/AMC service contract period the time taken by the hospital in providing to the firm the spare parts shall not count towards the downtime. During the guarantee period the time taken by the hospital to provide the custom's duty exemption certificate, Not Manufactured in India certificate, Import License etc. for enabling the tenderer to import any spare part, shall not count towards the downtime.
- uu) **TIME OF OPENING OF TENDER:** The process of opening the technical and financial bids and the times thereon are as stipulated elsewhere in this document. The tenderer is at liberty to be present, in person or through their authorized representative at the opening of the tender. In the event of the day of receipt and opening of the tender being a holiday for hospital then due date for receipt of completed tenders / opening of the tender will be the immediately following working day at the same hour.
- vv) **VALIDITY OF TENDERS:** The tenderers shall make their offers valid for acceptance for a period of 180 days from the date of opening of the bids.
- ww) **PAYMENT:** The hospital will pay 90% of the CIF value excluding the Agency Commission of the equipments to the tenderer through an irrevocable Letter of Credit (LOC) against negotiable shipping documents or cheque drawn in favour of the tenderer, as the case may be. The balance 10% of the payment will be made after 3 months of satisfactory performance of the equipment.
- xx) In case of imported equipment the country of origin will be only one. Any single equipment having more than one country of origin will not be accepted by the hospital. The cost of release of LOC by the foreign firm will be borne by the tenderers. No amendment in LOC will be allowed, in deviation from the conditions contained in the original tender.
- yy) **PAYMENT OF COMMISSION TO INDIAN AGENCIES FOR IMPORTED EQUIPMENTS:** The hospital shall make all reasonable and due efforts to pay the Indian Agency Commission at the earliest possible date after 3 months of satisfactory installation / commissioning & handing over of the equipment in good working condition, besides training of the staff in operating the equipment. The rate of exchange applicable for converting agency commission into equivalent Indian Rupees shall be the T.T selling rate prevalent on the date of releasing the documents by the Bankers. The Indian Agency Commission will be paid in Indian Currency (Rupees) to the Indian Agents.
- zz) **PACKING & MARKING:** Best in trade packing practices suitable for safe Rail / Road / Air transit shall be used subject to packing and marking being acceptable to the Inspecting Authority. The tenderer shall provide such packing of the goods

as is required to prevent their damage or deterioration during transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand without limitation, rough handling during transit and exposure to extreme temperature, humidity, mechanical shocks & vibrations, salt and precipitation during transit and open storage, etc. The Packing case, size and weights shall duly take into consideration, the remoteness of the equipment's final destination and absence of heavy handling facilities at all points in transit. The packing marking shall show the description of the equipment/s, quantity, contents, the name of the consignee and address, the gross weight, a distinctive number of mark sufficient for the purpose of identification. Besides, each package shall contain - the number and date of order, nomenclature of the goods, Schedule of parts for each complete equipment giving part number with reference to assembly, a packing note quoting the name of the purchaser.

- aaa) Not withstanding anything stated in the relevant clauses, the tenderer shall be entirely responsible for any loss, damage, deterioration, depreciation of the goods due to faulty packing.
- bbb) **ARBITRATION:** If at any time, any question, dispute or difference, whatsoever, shall arise between the two parties (hospital on the one hand and tenderer on the other hand) in relation to the purchase either of the parties may give to the other a notice in writing of the existence of such a question, dispute or difference and the same shall be referred to two arbitrators, one to be nominated by the hospital and the other to be nominated by the tenderer. Such a notice of the existence of any question, dispute or difference in connection with this purchase shall be served by either party within 30 days of the beginning of such dispute failing which all rights and claims shall be deemed to have been forfeited and absolutely barred.
- ccc) Before proceeding with the reference/s of arbitration, the arbitrators shall appoint / nominate an Authority, who shall be the Medical Superintendent of the hospital. In the event the arbitrators do not agree among themselves on their findings, the authority so nominated / appointed shall enter upon the reference and his award shall be binding on both the parties. The venue of the arbitration shall be at ESIC Hospital, 5th Main Road (FTI Campus) Yeshwanthpur Industrial Suburb, Bengaluru – 560 022
- ddd) The provisions of the Indian Arbitration and Reconciliation Act 1996 and of rules framed thereon, and any statutory modification thereof shall be deemed to apply and be incorporated for the supply, installation and commissioning etc.
- eee) Upon every or any such reference, the cost incidental to the reference and award (s) shall be at the discretion of the arbitrators or in the event of their not agreeing, of the authority appointed by them, respectively, who may determine the amount thereof and direct the same to be fixed as between solicitors and client or as between parties and shall direct by whom and in what manner the same shall be borne and be paid.
- fff) **JURISDICTION:** The courts at Bengaluru alone will have the jurisdiction to try any matter, dispute on reference between the parties arising out of the contract. It is specifically agreed that no court outside shall have jurisdiction in the matter.

- ggg) **FORCE MAJEURE:** Any failure of omission or commission to carry out the provisions of the contract by the tenderer shall not give rise to any claim by any party, one against the other, if such failure of omission or commission arises from an act of God, which shall include all acts of natural calamities such as fire, flood, earthquake, hurricane or any pestilence or from civil strikes, compliance with any statute and / or regulation of the Government, lockouts, strikes, riots, embargo or from any political or other reasons beyond the tenderer's control including war (whether declared or not), civil war or state of insurrection, provided that notice of the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to Force Majeure conditions.
- hhh) **TERMINATION FOR INSOLVENCY:** The hospital may at any time terminate the contract by giving written notice to the tenderer, without compensation to them, if they became bankrupt or otherwise insolvent (which events shall of themselves be a breach of the contract on the part of the tenderer), provided such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.
- iii) **TERMINATION FOR CONVENIENCE:** The purchaser, may by written notice sent to the tenderer, terminate the contract, in whole or in part, at any time for his convenience. The notice of termination shall specify that termination is for the hospital's convenience in public interest. However, the equipment that are ready for shipment within 30 days after the tenderer's receipt of notice of termination shall be purchased by the hospital at the contract terms and prices. For remaining equipment, the hospital may choose to have any portion completed and delivered at the contract terms and prices; and / or to cancel the remainder of the supply order.
- jjj) **GOVERNMENT LANGUAGE:** The contract shall be written in the language of the Bid (English Language) as specified by the hospital. All correspondence and other documents pertaining to the contract shall be in English or Hindi or Kannada.

Medical Superintendent

ANNEXURE- 2

DETAILS OF THE TENDERER

SL.N o.	Particulars	TO BE FILLED BY THE TENDERER
1	Name of the Firm/Supplier	
2	Postal Address with Telephone No./Fax No./Mobile No./E.Mail Address	
3	Annual Turnover for the last three years a. 2008-2009 b. 2009-2010 c. 2010-2011	
4	CST/KST/VAT/PAN No.	
5	a. Factory License No. b. Shops & Estt. License	

	No. c. Municipal/Local authority License No. (copy to be enclosed)	
6	Details of EMD a. DD/Bankers' Cheque No. b. Name of the Bank c. Branch d. Amount	
7	Whether Assessed under IT Act. If so, enclose IT returns for the last three years	
8	Names & addresses of other hospitals, etc., to whom linen is supplied	
9	Whether service is provided for 24 hours and on all days	
10	Any other information relevant to the subject	

Declaration: I/We, hereby declare that the information as provided above is correct & true to the best of my knowledge.

Place:

Name, Signature & Seal of the tenderer

Date:

UNDERTAKING

I/We, the undersigned tenderers / duly authorized signatory/ies
Shri/Smt. _____
of M/s _____

hereby undertake that the goods / stores / articles supplied to the hospital under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained / mentioned in the clause here of and I/We hereby guarantee that the said goods / stores / articles conform to the description and quality aforesaid. The hospital will be entitled to reject the said goods / stores / articles or such portion there of as may be discovered not to conform to the said description and quality. And on such eventuality, the goods / stores / articles will be at my/our own risk & responsibility and all the provisions here in contained relating to rejection of goods etc. shall apply. I/we shall, if called upon to do so, replace within a period of fourteen days or such time as may be stipulated by the hospital at their discretion, the goods / stores / articles or such portion there of as rejected by the hospital and in such an event the above mentioned warranty/guarantee period shall apply to the goods / stores / articles replaced from the date of the replacement there of failing which, I/we shall pay to the hospital such damage as may arise by reason of breach of the conditions here in contained. Nothing herein contained shall prejudice any other right of the hospital in this regard.

**Name, Signature, Designation,
Stamp of the tenderer /
Authorised Signatory**

TO BE FILLED IN BY TENDERER AND RETURNED WITH THE TENDER

To:
The Medical Superintendent,
ESIC Hospital,
Sy.No.11-55-1, Plot No.1, 5th Main Road (FTI Campus),
Yeshwanthapur Industrial Sub-urb,
BANGALORE - 560 022.

Dear Sir,

Sub: Your advertised tender enquiry
No....., dated , for
medical equipment – Reg.

We submit herewith our quote against your advertised tender enquiry, bearing No....., dated:....., for linen items. We have carefully perused the Terms and Conditions as stipulated therein and accept the same unconditionally.

(Firm's Name & Address)
(Signature of Authorised Signatory)

WITNESS:

Signed in my presence.

Name :

Designation:

Seal:
Notary Public/Gazetted Officer
(with name & Complete Address)

Place:

Date:



EMPLOYEES' STATE INSURANCE CORPORATION HOSPITAL
(Under Ministry of Labour & Employment, Govt. of India)

Sy.No. 11/55/1, Plot No.1, 5th Main (FTI Campus), Yeshwanthpur Industrial Suburb, Bengaluru – 560 022

Telefax: No.080-23579467

e-mail:esichpeenya@gmail.com

No. 492/U/16/30/2012/Central Stores

Dated:31. 07.2012

To:

Application Cost
Rs1000/- (Non-refundable)

Dear Sir,

Sub: Your requisition for issue of tender documents for supply, installation, commissioning & maintenance of Medical Equipment of various departments – Reg.

Ref: 1. Our advertised tender enquiry of even no., dated.....
2. Your request letter bearing No....., dated
.....

* * *

With reference to above, please find enclosed a set of tender documents alongwith all annexures.


Yours faithfully,

Stores Manager

Received:

A set of tender documents with all enclosures.

Name, Seal & Signature of the tenderer.

	<p>EMPLOYEES' STATE INSURANCE CORPORATION HOSPITAL (Under Ministry of Labour & Employment, Govt. of India)</p> <p>Sy.No. 11/55/1, Plot No.1, 5th Main (FTI Campus), Yeshwanthpur Industrial Suburb, Bengaluru – 560 022</p> <p>Telefax: No.080-23579467 e-mail:esichpeenya@gmail.com</p>
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No. 492/U/16/30/2012/Central Stores

Dated:31.07.2012

TECHNICAL SPECIFICATIONS OF MEDICAL EQUIPMENT

LABORATORY

No.492/U/16/30/2012/A(1)LAB

DIGITAL INCUBATOR

- Temperature ranges from 5 degree C ambient to 80 degree C.
- Outside to be made up of mild steel duly powder coated 2.5 thick glass wool insulation.
- Double walled inside to be made up to stainless steel.
- Digital temperature control with an accuracy of +/- 1 degree C.
- Should include all circulating fan.
- Perforated Adjustable shelves.
- Digital Display of temperature.
- Heating Element to be placed is ribs that the bottom and sides 13 size mating element.
- To work with 230 V AC with on/off switch cord and plug.
- Size 450X450X450 mm of chamber 2 (95 L).
- Warranty for 2 Years.
- Original Instrument not refurbished.
- AMC to be provided and calibration to be given every year.
- After sale service should be best in the industry with service Engineer/ Applications Specialist based in Bangalore.

TRINOCULAR MICROSCOPE

No.492/U/16/30/2012/A(2)LAB

- Universal Infinity Corrected Optical System.
- Wide Field 10 X Plan eye pieces with Acromatic Objectives 2X,5X,10X,40X and100X.
- Built in transmitted Kochler illuminater/LED type white light illumination.
- X-Y Stage with double slide holder.

- Focus control with course and fine focus facility.
- Scratch Resistance Stage.
- Trinocular, 30-35 degree viewing angle with inter pupillary adjustment.
- Should be upgradable with facility for florescents, polarizer, phase contrast, dark field condenser.
- Digital Camera Attachment up to 10 Mega pixel live resolution CCD Sensor Size of 8.1 X 6.64 mm.
- Universal Condenser.
- Warranty for 2 years.
- Original Instrument not refurbished.
- User certificate to be given.
- AMC to be provided.

SLIDE CABINET

No.492/U/16/30/2012/A(3)LAB

- Stainless steel, rust proof.
- Capacity 50,000 Slides.
- Sturdy.
- To be provided with lock and key.

BINOCULAR MICROSCOPE SPECIFICATION

No.492/U/16/30/2012/A(4)LAB

- Infinity plan objectives 4X,10X,40X (SL) 100X (SL) Oil.
- Eye piece WF 10X(FOV 22mm) Focusable type.
- Anti-fungal treat, head free HEA Coated optic.
- Single mould study ergonomic design stand.
- Universal infinity optical system, quadruple reverse Non-piece.
- Binocular head inclined at 30 degree scaled inter Papillary distance.
- Illumination: LED/Halogen with controls and built in battery backups of approximately 2 hours.
- Packed in styrofoam moulded box.
- Smooth CAM technology co-axial control coarse and fine focusing.
- Rackles X axis double plate stage, double slide holder.
- X/4 to travel range 76x50 mm.
- Abbe condenser NA 1.25 with aspheric lens and aperture iris diaphragm.
- After sale service should be best in the industry with service engineer based in Bangalore
- AMC to be provided and calibration to be given every six months.
- CMC for 5 years and Warranty for 2 years.

HOT AIR OVEN

No.492/U/16/30/2012/A(5)LAB

- **Internal size 45cm X45cm.**
- Door Single door.
- No of shelves two adjustable at any Height.
- Door filter on heavy brass heat and Chrome-plated hinges and brass west Chrome-plated spring type lock handle.
- Cabin: Inside made up of stainless steel.
- Outside mild steel only powder coated to 2 1/2 “ filled by glass wool insulation.
- Temperature ranges from 50 degree C to 150 degree C.
- Temperature controlled by Hydraulic types.
- Thermostat Knobs of which is graduated 50 degree C to 250 degree C.
- Unit working on 220 V AC and control Panel have on/off.
- Temperature display by mercury manometer on dial type thermometer and above digital display.
- Switch high/low switches indicator lamp and thermostat.
- Heating elements in 3 sides.
- Digital temperature controller and air circulation fan.
- Instrument should not be refurbished.
- After sale service should be best in the industry with service Engineer/ Applications Specialist based in Bangalore.
- AMC to be provided and calibration to be given every year.

CENTRIFUGE

NO.492/U/16/30/2012/A/(6)/LAB

- 24 Bucket capacity.
- Stepless speed regulator.
- Safety lid interlock to prevent cover opening during centrifugation.
- Digital speedometer, 0-60 " digital countdown timing.
- Brushless induction motor with frequency device.
- Stable speed output even under unstable Voltage condition.
- 7 segment LED Display of speed.
- Digital Countdown times.
- Dynamic brake for quick acceleration.
- Imbalance and Inverters fault detection with Auto shutdown.
- Selection of 3 acceleration and deceleration profiles.
- Recall of last set parameter. Useful for repetitive analysis.
- Alpha, Numeric LCD display of speed.
- Automatic door opening through gas hinges.
- The Maximum rpm is 6000 rpm.
- Capacity maximum 400 ml Max and 5070 g.
- Warranty 2 years.
- Instrument should not be refurbished.
- After sales service should be the best in Industry with service Engineer/Application

- specialist based in Bangalore.
- AMC should be available, calibration certificates to be given every 6 months.
- CMC for 5 years.

NO 492/U/16/30/2012/A/(7)/LAB

Semiautomated coagulation analyser

- Should be able to perform PT/APTT/TT/fibrinogen assay, clot based assay, D-dimer
- Measuring system must be optomechanical
- Measuring channels – dual channels
- Mixing with magnetic stirrer motor
- Tungsten light source
- Two incubation block, incubation block temperature controlled at 37degree +/-1 degree
- Reagent position 4, cuvette position 12
- Back illuminate liquid crystal display (LCD)
- Should have built in thermal printer
- Should be able to detect even the smallest fibrin clot
- Should provide certainty and uniformity in the INR values
- After sales service should be the best in industry with service engineer/application specialist based in Bangalore
- AMC should be available, calibration certificate to be given every 6 months
- To be supplied with UPS
- CMC for 5 years
- Demo kit reagents to be provided
- PM kit every 6 months as per instrument requirement

B. GENERAL SURGERY

L.E.D Mobile Operation theater Light

No.492/U/16/19/2012/B(1)SURGERY

- Illumination intensity at 1m /1Lakh.
- Field size of 1m distance 20cm-25cm.
- Working distance -120cm.
- Focus adjustable by sterilizable handle.
- L.E.D. Life time 50,000 hours.
- Light rotation 360 Degree.
- No of light modules-6.
- Emergency Battery backup - 4hrs at least

- I S O CERTIFIED

OT TABLE for MINOR O T

No.492/U/16/19/2012/B(2)SURGERY

SPECIFICATION:

- **Should be mobile, modular operating table for any surgery, electro hydraulic drive, with corded hand control, with upper back plate, with leg plates, with head rest, with SFC padding of 80 mm.**
- **Electro mechanical adjustments**
- **Height 760mm to 960 mm.**
- **Trendlenberg/reverse trendlenberg,25/25 degree**
- **Lateral tilt: 15 degree**
- **Manual adjustments**
 - a) **standard back plate: + 90°/-45°**
 - b) **standard head rest : + 45°/ -45°**
- **back rest with gas spring up/down – 65°/75°**
- **head rest detachable**
- **leg rest detachable**
- **standard four section mattress- one set**
- **Accessories**
 - a) **arm board- two**
 - b) **anaesthesia screen - one**
 - c) **body strap - one**
 - d) **radial setting clamp- three**
 - e) **goepel knee crutches- two**
 - f) **perineal cut out filter – one**
- **Base braking (lock/unlocking)**
- **Shall meet IEC -60601- 1-2: 2001 or equivalent safety.**
- **General requirement of safety for electro magnetic compatibility or should comply with 89/ 366/EEC: E M C- directive.**
- **Manufacturer should have ISO certification. Should be FDA, CE, UL or BIS approved.**

F.PEDIATRICS

NO.492/U/16/30/2012/F(1)/PED

ELECTRONIC DIGITAL WEIGHING SCALES

(i) Neonate

- Electronic digital scale with a large pan with stable base. Capacity Upto 10 kg with provision for measuring height (Upto 50 cm) on the side.
- Accuracy +/-1 gm. Large LCD display for reading. Easy to Clean.
- Note for all scale weighing ,caliberation check should be done once half yearly at least

(ii) Infant and Child

- Capacity – Upto 120 kg
- Resolution 10 gm.
- Accuracy + 1to 10 gm.
- Measuring position supine, sitting and standing.
- Large LCD Display.
- Note for all scale weighing ,caliberation check should be done once half yearly at least

OPHTHALMOSCOPE

NO.492/U/16/30/2012/F(2)/PED

Big handle with 2 big size cells with box case.

CUTANEOUS BILIRUBINOMETER

NO.492/U/16/30/2012/F(3)/PED

- Measuring range 0.0 mg/dl to 20mg/dl
- Standard error + or – 1 mg/dl, based on clinical data
- hand held, light weight.
- Should have internal rechargeable battery, lasting upto 500 measurements / charge
- preferably nil consumables
- easy to ready display mg/dl, μ mol/ L
- Should confirm to IEC, CE standards

DOUBLE SURFACE CFL PHOTOTHERAPY UNIT

NO.492/U/16/30/2012)/ F(4)/PED

Unit should have CFL Lamp source in both upper and lower sides

(a) Upper surface

- Microprocessor controlled with up, down side tilt facility and height adjustable.
- 6 CFL unit, 4 blue light & 2 white light.
- Should have an irradiance level of more than 18μ w/em²/nm.
- Chronometer to measure lamp usage.
- Should have a wide base for rigidity.
- Should have internal and external reflectors to avoid wastage of light rays by sending uniform rays to the bed surface.

(b) Under Surface unit

- Microprocessor controlled.
- Irradiance 18μ w/em²/nm.
- Energy efficient 6 CFL blue light.
- Should have convenient baby bed with transparent acrylic fiber body leak proof with transparent acrylic side railings.
- Up& down tilt facility of bed should be available upto 30degree.
- The lower surface should be detachable from the main unit so as to use under radiant warmers.
- One unit should be on movable wheels with brakes.
- Should have internal & external reflectors designed to avoid wastage of light rays.

Microprocessor control for

1.Lamp usage. 2. Dose time 3. Feeding alarm 4.Display of set time.

5. Auto cut off. 6. Automate facility.

System should confirm to CE/IE standards and should be ISO certified.

NEONATAL OPEN CARE SYSTEM

NO.492/U/16/30/2012)/ F(5)/PED

Unit consisting of Warmer, n-CPAP (Optional), Pulse Oxymeter, Baby Weighing Scale (Optional) and Motorized Height Adjustment.

EV Specifications

- Operating temperature range 20° – 38 ° C.
- Operating Humidity range 0 – 100% RH.

Power requirements

- Voltage rating – 230 V.

Should have self setting microprocessor based servo control system. Skin temperature probe should have

- Range 26.4° C – 40° C.
- Accuracy $\pm 0.2^\circ$ C.
- Resolution 0.1° C.
- Probe interchangeability $\pm 0.2^\circ$ C (Servo).
- Infant required Temperature range (servo) 32° C – 38° C.
- Should have following alarms:
- Audio & Visual alarms.
- High infant temperature.
- Low infant temperature
- Probe failure.
- Heat failure.
- Power failure.
- Spo2 High and Low alarm, 1.
- Battery Low alarm.
- System failure with automatic heater cut off.

Heater Element

- Single element quartz infrared heating element placed in a parabolic reflector.
- Heater output control range (Manual) 0 – 100%.
- Suction control should be provided.
- Internal weighing scale (Optional).
- Range 0 – 10 kg.
- Accuracy 10 gm.
- Should be provided with integrated Pulse Oxymeter (optional).
- Oxygen saturation range: 1 – 100%.
- Pulse rate range: 25- 250 BPM.
- Should have an integral n-CPAP (Optional) with following features.

- Should be supplied with bonnet and cap for correct fixation of nasal prongs.
- Should be supplied with 3 sizes of prongs (Small, Medium and Large) at least one each. Should be supplied with proper air and Oxygen blender and not air and oxygen flow meter to mix gas.
- Should be provided with PEEP Generator near baby to ease respiratory effort by baby and reduce dead space.
- Should be provided with digital manometer 0 -99 cm of H₂O.
- Should have I.V stand (Both side), Myo tray- 2 nos on same side Oxygen cylinder index – optional.
- Should have an oval shaped bed for greater accessibility and without crevices for ease in cleaning.
- Should have a firm antibacterial matters.
- Should have LCD Graphical Display.
- Should have the provision to take X rays with help of portable X-ray machine without shifting the baby.
- Equipment should confirm CE/IEC Standards and ISO certified.
- Equipment should be movable with wheels and brakes.

RESUSCITATION WARMER

NO.492/U/16/30/2012)/ F(6)/PED

- The unit is used for resuscitation of babies in labour ward/operation theater.
- Should be a mobile unit mounted on at least 100mm castor.
- Base of the unit should be built such that it allows the caregiver leg to move freely below the bed of the unit without any hindrance.
- The pillar supporting the control panel and heated unit should be on 1 corner of the bed to allow free access on all four sides of the baby bed.
- Should be able to swivel the heated unit to accommodate X-ray unit.
- Infant bed should have provision for X-ray cassette holder the sides of bed should have marking to enable easy positioning of X-ray cassette.
- Should have integrated Halogen examination lamps.
- Should have I.V pole.
- Should have swivel able monitor tray.
- Should have three different positions on the pillar to mount monitor tray.

The bed of the unit should be at least of following dimensions

- Mattress size: 800X500X45mm.
- Bed size: 830X520X210mm.
- Side panel covering the bed should at least 110 mm above mattress.
- Side panel should be easily removable for cleaning.
- Should be able to tilt bed on either side max. 8 degrees and should be able to position at any tilt as per the caregiver requirement
- The wheels should be atleast four inches and with at least two lockable wheels.
- Should have a tray and a draw for keeping essential of the baby, below the infant bed.
- Should have a APGAR timer that alerts every minute.
- Should have a warmer controller with pre-warm and manual mode of operation.

Should indicate infant temperature with following specification

- Range: 20 to 45 degree Celsius.
- Accuracy: $\pm 0.2^{\circ}$ C.
- Resolution: $\pm 0.1^{\circ}$ C.
- Interchangeability: $\pm 0.1^{\circ}$ C between sensors.
- Manual mode of operation should be limited to 15 min at power above 80% to the heater.
- The unit should cut off heated to a safe level and trigger an alarm on elapse of 15 min in manual mode with power above 80%.

Should have a resuscitation unit with following specification

- Oxygen outlet: 1 No.
- Flow meter: 0 -12 lpm with 0.5lpm graduations.
- Oxygen tube of 2 m length
- Slow suction: 0 -200 mm Hg.
- Adjustable with vacuum gauge indication
- Poly carbonate jar with 600ml capacity.
- Should work on venturi principle.
- Autoclavable tubing to be provided.

- Should be supplied with 1 No. patients skin temperature probe.
- The mattress should be easily removable for cleaning and made of anti-bacterial and flame retardant cover.
- **The manufacturer should have ISO 9001:2000 and ISO 13485 certification.**

H.DERMATOLOGY

LIQUID NITROGEN CRYOJET MACHINE

NO.492/U/16/30/2012/H(1)/DERMA

- LIGHT WEIGHT
- HIGH QUALITY DEWAR FLASK
- ACCESSORIES=DIFFERENT PROBES=SHARP=BEWEL EDGE=FLAT=STRAIGHT
- Acne spray.=contact adopter with tips.
- Liquid nitrogen storage tank.
- Liquid nitrogen (-196 degree c) supply from local vendors.
- Regular maintenance.

GRAFT SPREADER AND DISSECTOR, DOUBLE ENDED

NO.492/U/16/30/2012/H(2)/DERMA

- Double ended

HIGH FREQUENCY RADIO – SURGERY UNIT - ELECTRO DIATHERMY MACHINE

NO.492/U/16/30/2012/H(3)/DERMA

- Power required = 230V / 50Hz
- Dimensions (mm = 260 x 300 x 150)
- weight = 7 Kg
- Electrodes = Insulated
- Frequency = .20 – 2.93 μ Hz
- Cut = 70 % Cut, 30 % Loag
- Loag = 60 % Loag, 40 % Cut
- Fulgration = should be availabe
- Intensity Control = linear
- Standard accessories
- Monopolar handle = 1
- patient plate = 1
- Electrodes set = 1 (extra set for replacement to be given complimentary)
- Foot Switch = 1
- Carrying Case = 1
- Hand Switch = 1
- Bipolar cable and forceps = 1 no each

- Maintenance to be done once / year

DARK FIELD MICROSCOPE

NO.492/U/16/30/2012/H(4)/DERMA

- Binocular microscope
- Dry dark field condenser
- 30° inclined, 360 ° swiveling ,compensation free binocular head
- 3-D mechanical stage
- Intensity variable halogen illumination system
- 40X – 2000X

NAIL EXTRACTOR AND DISSECTOR

NO.492/U/16/30/2012/H(5)/DERMA

- 14 cm long
- Concave blades

ELECTRICAL TATTOO PENCIL MACHINE SET

NO.492/U/16/30/2012/H(6)/DERMA

- Very light weight
- Single/ double pin needle arrangement
- Battery backup facility
- Hand switch control
- Both press and do/auto switch available
- Pigments set

C. E.N.T

E.N.T Operating Microscope with Zoom and 5 step magnification changer

NO.492/U/16/30/2012/C(1)/ENT.

- Focusing system – internal, manual, continuously adjustable from 200mm to 415mm
- Continuously adjustable via hand grip or foot control panel
- Working length – 200mm to 415mm
- Magnification – manual Galilean 1:6 in 5 steps
- Optics – Apochromatic.
- Main binocular tube – straight tube (0 degree) with 12.5 x or 10 x wide field eye pieces
- Main illumination and back up xenon lamp fast action changer
- Filters – UV/IR
- Automatic lamp changer
- Stand – floor stand
- Voltage – 115V/230V
- Frequency – 50 to 60 Hz
- Power consumption - -115v max 10A, 230 V max 8 A
- Automatic circuit breaker
- Accessories
- Stereo co – observation tube
- Camera – suitable 3 chip CCTV camera
- UPS 1000VA 6Amp / 1500 10 Amp
- Desktop computer (branded) with 21” LCD medical grade monitor
- Intel C2D 2.66 GHZ – 2GB RAM -/500 GB Hard disk DVD RW/n VIDIA 9300 GE,
- 512 MB dedicated Graphics/ LAN/Card reader/2.1 speaker / mike/ In built TV
- Tuner card / Vista Home Premium/Multi Media key board/ mouse, wireless LAN / Desktop trolley.

CLINICAL DIAGNOSTIC PURE TONE AUDIOMETRY

NO.492/U/16/30/2012/C(2)/ENT

- Two channel audiometer
- Pure tone ; channel 1 and 2
- Frequency range
- Air conduction :125 Hz to 12000Hz
- Bone conduction :125 Hz to 12000 Hz
- Speech:Channels 1 and 2
- Microphone intensity range

- Masking intensity range
- Signal format
- Special test for cognition
- Communications & monitoring
- Automatic and manual tests
- Print and store test automatically
- Internal memory stores up to 250 tests & above
- Test head set (TDH39P), bone vibrator, subject response hand switch, , free field speaker,
- Accessories
- Very good quality table with drawer to keep audiometer & accessories.
- Revolving chair with back rest for audiologist.
- Desktop Computer (Intel dual core 3.2GHz, intel mother board 9.75x, LCD monitor 17",
- HDD – 320 SATA, RAM 4GB, ATX cabinet, DVD rewriter, mouse, multimedia keyboard,
- 2.1 speaker, card reader, mike, antivirus, windows 7 OS with compatible software).
- Laser printer cum copier Large print out results (color printer) Fast print (less than 20 seconds)
- UPS

L.OPHTHALMOLOGY

NO.492/U/16/31/2012/L(1)/OPHAL

GOLDMANN APPLANATION TONOMETER

- It should be Original Goldmann standard in IOP measurement
- Must have Best reproducibility and accuracy
- Should be having Measuring range from 0- 80mmHg
- Measurement Divergence of the force impingement on the measuring prism over a measuring range from 0-58.84Mn
- Reverse Span $\leq 0.49\text{mN}$,
- Net Weight should be 0.500kg or less
- Should be compatible with Haag Streit/Type Slit Lamps
- Reliable and durable,
- Reusable Tonometers Prism should be supplied along with one extra prism

TECHNICAL SPECIFICATION OF A SCAN BIOMETER

NO.492/U/16/30/2012/L(2)/OPHAL

- | | | |
|---------------------------|------------------------|---|
| • Transducer Probe | | • IOL power Calculation formulas |
| • Frequency : | • 10mhz \pm 10% | • SRK T Haigis |
| • Fixation | • Internal LED | • SRK II Hoffer Q |
| • Sampling Frequency : | • 15.625 MHz \pm 10% | • Holladay Binkhorst I |

- Bandwidth :
 - >6mhz at -6db
- **Accuracy :**
- Electronic :
 - ± 0.02mm
- **Sound Velocity/phakic status functions**
- Anterior Chamber :
 - 1533m/s
- Normal lens:
 - 1641m/s
- Vitreous :
 - 1532m/s
- Aphakic :
 - 1532m/s
- Cataract :
 - 1629 m/s
- **IOL**
- PMMA :
 - 2718m/s
- Silicone :
 - 1486m/s
- Acrylic :
 - 2200m/s
- **Measurement modes**
- Automatic
 -
- Continuous
 -
- Manual
 -
- Calibration
 -
- **Software Memory**
- Scan Memory is 10 per eye with Standard Deviation of Axial Length & Anterior:
 - Chamber Depth
- **User Memory :**
- Surgeon
 - 6 Profiles
- IOL styles
 - 10/surgeon
- **Patient Memory**
- Analysis
 - <100
 - 10

• **Print Out**

- Through External Thermal Printer (Optional)
- **Power**
- Voltage
 - 100-240VAC
- Frequency:
 - 50-60Hz
- Consumption :
 - 26VAC
- **Size :**
- Height :
 - 12 cm/5”
- Width :
 - 30 cm /12”
- Depth :
 - 28 cm/11”
- Weight :
 - 2.6 Kgs.
- **Standard Accessories :**
- Solid tip transducer with fixation light
- User Manual
- 2 spare fuses
- RS 232 Port

AUTOMATED PERIMETRY

NO.492/U/16/30/2012/L(3)/OPHTHAL

Peripheral Range 90°

Static Perimetry, DS, NS

Fixation Control & Pupil Measure

Head position recognition

Ethernet connection

Stimulus Sizes 111, V

Stimulus Sizes 1 – V

Expert Opinion (Esterman test)

Kinetic Disability test

Automated Lens Holder

Lens Distance Control

EyeSuite Perimetry Lite

Standard white/white perimetry SAP

Dynamic (Adaptive step size, 5-8 min)

Normal (4-2-1 bracketing, 8-12 min)

BT, BG, FG, Esterman

Country dependent static expert opinion Test

Country dependent automatic kinetic test

Custom Test (individual test patterns)

Features:

Fixation (Real time fixation & Blink Control)

Automatic Averaging pupil measurement

Non contact head recognition sensors

Ethernet access and PC software

One click testing (follow up button)

Lens distance control

LVS (Low Vision Goldmann V) 2-LT, 1-LT

Test Library:

G - Physiological Glaucoma Test

M- Physiological Macular Test 5°/12° /30°

32, ST, LVC, 07, LVP, D1, N1, 30-2, 24-2, 10-2

Electrical & Mechanical Specifications

Power Requirements	100-120VAC/220-240VAC 50/60 Hz
Operating Temperature	+ 15° C ... + 40° C
Light Source life span	>20'000 hrs for stimulus, background and fixation
Conformity	CE:93/42/EEC, 89/336/EEC, conformity module A CSA C & US
Measures (W x L x H)	648mm x 519mm x 796mm
Weight	25 Kg

LED WIRELESS BINOCULAR INDIRECT OPHTHALMOSCOPE

NO.492/U/16/30/2012/L(4)/OPHTHAL

IPD : Adjustable 47-75mm

- d. Light Output : Rheostat control for illumination
- e. Standard Accessories: Cobalt Blue, UV Filters green filter, teaching mirror, sclera depressor, rechargeable battery pack , charger for battery, branded original case for IDO Detachment charts, colour pencils 2 spare bulbs(LED/Halogen)

AUTOMATED LENSOMETER WITH PRINTER

NO.492/U/16/30/2012/L(5)/OPHTHAL

Measurement range

Sphere

Spectacle lenses 0 to ± 25 D (0,10/0,12/0,25D steps)

Contact lenses 0 to ± 25 D(0.01/0.06/0.12/0.25D increment

Cylinder 0 to ± 10 D (0,10/0,12/0,25D steps)

Axis 1° to 180° (1° step)

Prism 0 to ± 20Δ (0,01/0,12/0,25Δ steps)

Addition 0 to + 10 D (0,10/0,12/0,25D steps)

Cylinder mode Mix / - / +

Prism mode X-Y (Orthogonal coordinates),

P-B (Polarcoordinates)	No display
Lens detection	Single / Progressive / Auto
Wavelength criterion	e-lined / d-line with ABBE compensation
Lens Diameter	Ø 5 to 100 mm
Screen	5, 7 inch/320x240 dots colour
Data display	S, C, A, P, Add, R/L Bar-meter, distance Rx, add power
PD-Measurement range(on PD model only)	50-90 mm
External interface	RS232Cx2, USB(2.0)x1
Power supply	100-240V/50 VA (Auto shut-off in 10 minutes)
Dimensions	194(W)x 220(D)x408(H) mm
Weight	Approx.4kg
Drop-in fast printer	Thermal printer with auto cutter
Standard accessories	Power cord, Dust cover, Nosepiece for contact lenses,Printer paper, Measuring progressive power lenses explanation sheet
Optional accessories	Eye care card, RS-232C communication cable, USB Cable (with special USB driver), foot switch,

OPERATING MICROSCOPE(OPHTHALMOLOGY)

NO.492/U/16/30/2012/L(6)/OPHTHAL

Magnification changer	APO-chromatic 5-step-changer, motorized
Focusing	Motorized, 40mm, adjustable speed
Objective	f = 200mm OPTIONS: 175mm, 225mm, or WD = 175mm, 200mm APO
Eyepieces	10× / 21 B wide-field eyepieces for eye-glasses wearers Diopter adjustment +/- 5 with adjustable eyecup
illumination	Halogen Homogenous, coaxial, integrated Red Reflex illumination, Sterile adjustment of light intensity by surgeon Long-lasting -illumination free of UV and IR 2 free openings for selectable filters dia 32mm Inclining mechanism +/- 15° manual fine adjustment Adjustable speed for drives

Foot switch
XY-unit
8-Function foot switch, waterproof
upgradeable XY-unit
Positioning range 40 × 40mm with reset, adjustable
speed

Stand

Type
Base
Base dimension
Maximum load
Maximum reach
Minimum ight
Weight approx.
Compact floor stand
Compact foot with 4 movable rollers, 4 foot brakes
608 × 608mm
3.5kg accessories on the microscope
1068mm
1680mm
100 kg minimum equipment

Accessories

Assistant's attachment
Beam splitter
TV/photo
Stereo co-viewer, Monocular co-viewer
50/50% or 70/30%
2D video system, Zoom Video Adapter f = 35–100mm
Photo/TV dual attachment f = 60/85/107mm for TV, f =
250/350mm for 35-mm camera
TV attachment f = 107mm, Photo attachment f =
250/350mm

Asepsis
Sterilisable components for all controls

Electrical data

Supply
Protection class
100–240 VAC, +/- 10%, 50/60 Hz/100 VA
Class I

I.CASUALTY

NO.492/U/16/30/2012/I(1)/Casualty

MULTIPARA METER BEDSIDE MONITOR

- **Should have TFT/LCD display 10.4” to 12” with wave form & numeric display. The waveform should be user selectable.**
- **Should be able to monitor ECG, SPO₂,NIBP,,Temperature simultaneously,**
- **Should be portable with carrying handle and weight not more than 5 K G with battery,**
- **Monitor should have built in lithium ion type battery for 4 hrs continous operation in case of power failure.**
- **Should have key for quick access to main functions.**
- **Five lead ECG monitoring with lethal arrrthmia recognition and capability for ST analysis.**
- **Should have respiration and apnea alarm.**
- **Manual, auto & stat modes for NIBP monitoring and range should be 2 to 230 mm Hg.**
- **Should have separate volume control for beep sound QRS and alarm sound.**
- **Facility for last 24 hours critical alarm review and facility for patient data entry.**
- **Equipment performance should not be affected by electromagnetic fields or that conducted through power lines from other devices.**
- **Should work on 220 to 240 Volts/50Hz with in-built re-chargeable battery.**
- **Should provide following accessories**
 - a) **Re-usable adult, pediatric SPO₂ finger probes- one pair each at least.**

- b) **Adult and pediatric NIBP cuff's of different sizes - one pair each at least.**
- **Should have safety certificate from a competent Indian authority or CE/FDA or valid detailed and functional safety test report from ERTL, as the case may be. Copy of the certificate / test report should be submitted along with the technical bid.**

K.MEDICINE

NO.492/U/16/30/2012/K(1)/MED

NEBULIZER

- Compact and heavy duty for hospital use
- Must be able to run continuously for 1 hour uninterrupted
- Must be easily portable
- Must be compressor type
- Electrical requirements : 220-240 VAC ,50 Hz
- Sound level not less than 60 db
- Air flow= 9 lpm
- Nebulization rate=0.15ml/min
- Nebulizer aerosol size=5 microns
- Compressor pressure =2 to 2.5 bar
- Operating temperature =+5 to +40 degree c
- Operating humidity = upto 95%
- Nebulizer capacity=6 ml
- Mode of operation =continuous
- Should comply with I EC 60601-1-2 or BIS equivalent
- Should work with Indian plug pin
- Should be supplied with English instruction guide

Warranty period must be 5 years.

M. ANAESTHESIOLOGY

NERVE STIMULATOR

NO.492/U/16/31/2012/M(1)/ANAS

Standby: A Standby switch maintains power to the instrument without generating stimulus pulses.

Twitch: 1 s (1 pulses/S); 2 Hz (2 pulses/S); 10s (1 pulse/10s).

Tetanus: 50 Hz (50 pulses/S); 100 Hz (100 pulses/s).

Stimulus Pulse: Square Wave Monophasic pulses (200 – U.S. Duration)

Stimulus Pulse: 22 milliseconds, square wave monophasic

Pulse Width: .30 millisecc

Current: 0-35 millisecc

Indicators: Battery LED indicator.

Power Source: 9-V alkaline battery (access door on rear panel)

Power Consumption: Approximately 15.5 Ma

Power Source: One 9-Volt battery

Voltage: 0-450 volts (open circuit)

Output Voltage: 450V \pm 10%

Output: Adjustable with rotating potentiometer

Case: High – impact ABS plastic with lexan overlay on membrane touch-switches 1.0” H x 2.42” W x 3.88” D

Train of Four: (4 pulses/2 s); repeats every 10 secs

Output Current: 0 – 70 Ma, Adjustable in 0.1 – mA increments (HI Range

0-6.0 mA, ADJUSTABLE IN 0.1mA increments (LO Ranges).

Display Resolutions: 0.1 mA.

Dimensions: 5.5” long x 1.5”wide & 1” thick

Size: 2.09” Hx 3.60” W x 5.75” D.

Weight: 11 oz, including battery.

Warranty : 1 year, parts and labor.

1. Should have a current range from 0.1 to 5 mA.
2. Should have a resolution of 0.01 Ma
3. Should have a digital display for current.
4. Should have short stimulus pulse duration of 0.1 ms.
5. Should have a frequency range from 0.1 to 99 Hz.
6. Should be able to monitor single twitch, Train of four, PTC and DBC.
7. Should have integrated electrode cable with lead.
8. Should be battery operated.
9. Should be supplied with 5 sets of insulated needles in varied length.
10. Should have safety certificate from a competent authority CE / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.

N. ICU

NO.492/U/16/30/2012/N(1)/ICU

BIPHASIC DEFIBRILLATOR

- Biphasic (fully automatic)
- Waveform display
- External energy from 2J TO 200J ,biphasic
- changing time less than 8 seconds @ 200J (with a changed battery)
- Synchronizer and cardioversion
- Unique disarm button(in addition to automatic time delay)
- Should come with higher resolution monitor
- Should come with 3 lead ECG that can be measured from cables, adult external paddles, pediatric paddles
- Heart rate:20 to 300 bpm with user selectable alarms
- Should come with extended pacing, demand and asynchronous modes
- Should display cpr in real time
- Should have large memory that stores and prints 25 ECG events
- Battery to last not more than 2 hrs of continuous ECG monitoring or 30 full energy discharges.
- Battery indicator on display and self test on battery.
- Accessories needed:
 - a .Paddle with remote energy selection ,charge and discharge buttons on paddles.
 - b .Paediatric paddles adaptors(set of 2)
 - c .A/C 240 V TO 50 HZ charger and main power source, adult paddles and test paddles.
 - d.3 lead patient cable.
 - e.One spare battery
 - f. Roll of 50mm recording paper x 10 rolls
 - g .5 oz tube of defibrillator gel x 5 tubes
 - h.External disposable pacing pads 2 sets.
 - I.Operation manual , service manual complete.

SYRING PUMP

NO.492/U/16/30/2012/N/(2)/ICU

- Accept all standard syringe of 10ml,20ml and 50ml.
- Built in double CPU.
- Powerful alarm system with both Audible and Visible alarms.
- Water proof, Moisture proof, Anti-interference, Anti-high and low temperatures.
- Injection rate 10 ml syringe-0.1/hour to 100 ml/hour. (incrant 0.1ml/hr)
20 ml syring-0.1ml/hr to 200 ml/hr.

50 ml syringe -0.1 ml/hr to 500ml/hr.

- Bolus Rate 10 ml-100 ml /hr.
20 ml -200 ml/hr.

50 ml – 500 ml/hr.

- Battery: Type – Lithium Polymel battery.
Life – > 2 hours continous running.

BLOOD GAS ANALYSER

NO.492/U/16/30/2012/N/(3)/ICU

- Fully automatic, fast & latest blood gas analyzer for the analyses of blood gases.
- Measures pH, pCO₂, pO₂, Hct, & Barometric pressure
- Upgradable to measure Na⁺, K⁺, Cl⁻, Ca⁺⁺.
- Calculated parameters which includes pH, pCO₂, pO₂ at patient temperature, BE, BE_{act}, BE_{ecf}, BB, HCO₃⁻, CtCO₂, stHCO₃⁻, stpH, ctO₂, aH⁺, AaDO₂, P50, Qs/Qt, a/Ao₂, avDo₂, AG, OER, PAO₂, Respiratory index, etc.
- Direct aspiration of samples from syringe, capillaries, QC ampoules, Cups, Test tubes with out the use of any adapters.
- Sample volume – 75 ul max s
- Sample throughput – 30 samples/hour
- Fast analysis time – maximum 50 sec to results
- Maintenance free electrodes including reference electrode with individual electrode ON/OFF facility
- Fully automatic liquid calibration of all parameters at user defined intervals without the use of external gases, tanks & regulators.
- Continuos reagent level monitoring with graphic display.
- Automatic sample device recognition.
- Data display on well illuminated LCD color touch screen display
- Data printout on built in graphic printer with cutter.
- Storage facility of measured data in case of power failure.
- Built in data storage facility for at least 1000 patient & QC results and provision for optional PCMCIA card.
- Built in QC analysis software for Levy Jennings, West guard rule etc.
- Built in barcode scanner.

FLUID/BLOOD WARMER

NO.492/U/16/30/2012/N/(4)/ICU

- Numerical display for real time temperature/setting temperature.
- Accuracy +/- 0.50° degree C.
- Temperature setting : 33 degree to 42 degree C (adjustable at rate 0.1degree C)
- High temperature cut – off :setting temperature +1 degree C/43 degree C/48 degree C+/- 3 degree C.
- Low temperature alarm : Setting temperature – 1 degree C.
- Uses normal transfusion/infusion tubing.
- Recommended flow rate : 0 to 16 ml/min

D.OCCUPATIONAL THERAPY

DUAL-CHANNEL EMG

NO.492/U/16/30/2012/D(1)OCC.TH

- Should be easy-to-use and portable
- Surface EMG for single site, dual site and ratio (A/B) monitoring.
- Should provide both easy-to-understand patient feedback and statistical information.

Audio: Patients should easily hear the changes in their EMG activity. Feedback should be provided continuously, above threshold or below threshold.

Visual: Should provide easy-to-see visual feedback for each channel with bright LED numerical.

EMG SPECIFICATIONS

Channels	
Two Independent Channel	A Only, B only, A/B (ratio), A+B simultaneously
Visual Feedback-per channel	
Display options	Numerical LED+lightbar,lightbar only,Numerical LED only.
Settings	0.5,1.0,2.0,4.0,6.0,10.0,60.0 seconds
LVA(last vaule attained)	Continuous,maximum,minimum

Light bar range	15 segments,logarithmic scale corresponding to threshold setting.
Audio Feedback -per channel	
Tones	Piano,continuous,clicks,Raw
Volume	Levels 0 TO 7
Audio provided	Continuously,Above or below threshold,after 3 or 5 seconds
Statistics-per channel	
Statistics aquired (summary)	Min,Min,Mean,SD,%SD,%time>or<threshold
Statistics aquired(intra-stats)	Choice of Min,Max,Mean,SD,%SD,%time>or<Threshold
Sampling Capacity	30 to 300 minutes of data(depending on the sampling rate)
Intra-session data collection rate	0.5,1.0,2.5,or5.0 minutes.
Data Display Rate	2.5 seconds
4 Hz (every 0.25 seconds)of V-RMS	
Electrical-per channel	
Resolution	0.10µV
Bandpass	24-425
Bandpass Rolloff	18 dB per octave
Common mode Rejection	120 dB
Notch Filter	60 Hz,25dB,(50 Hz option)
Differtial Input Impedence& input noise	>1,000,000 megohms;0.3µV
Leakage Current	In compliance with UL2601 specifications
Audio output	3.5 mm stereo earphone jack(mono output)
Analog output	Linear 0-3 volt DC signal,compatible with most computer interfaces
Line power Input	120 volt,60 HZ,220V,50/60 Hz
Battery Longitivity Rating	10 to 12 hours continuous use
Battery Recharge	16 hours maximum with built-in overcharge protection.

STANDARD ACCESSORIES

- UL listed isolation adapter
- Installed Ni-Cad rechargeable batteries
- 6-foot EMG sensor cable
- Leather strap for ambulatory use
- Quick-Stick pre-gelled, disposable EMG electrode sets
- Top cover instruction label
- Carrying case
- User manual

FINGER DEXTERITY TEST

NO.492/U/16/30//2012/D(2)/OCC.TH

- Light weight, portable, durable and storable after use.
- Wooden material, should be laminated
- Cabinets for Tweezer S.S. Plain pins S.S.Screws, washers and nuts
Set should consist:
- Laminated board has 100 holes to place in pegs & covered recess to store parts.
- Tweezer S.S.
- Plain pins S.S.
Screws, washers and nuts.

CEREBRAL PALSY CHAIR

NO.492/U/16/30//2012/D(3)/OCC.TH

- Cerebral Palsy chair should be made up of wooden material and polished.
- Foam padded for seat, back rest, leg and foot rest and for forearm support.
- Straps should be provided for chest, hip, forearm, leg and foot.
- Seat height, width and back rest should be adjustable.
- Should be provided with caster wheels with lock for mobility and stability

HAND DYNAMOMETER (ELECTRONIC, WALL MOUNTED)

NO.492/U/16/30/2012/D(4)OCC.TH

- Hand-Grip Digital Dynamometer with electronic Strain-gauge
- Should be suitable for routine screening work & evaluating max strength of subjects grip.

- Unit should be wall mounted.
- The sealed system should be with peak hold facility, register force in 1kg graduation from 0 to 9kg, ensuring a high degree of accuracy.

HAND EVALUATION KIT (JAMER)

NO.492/U/16/30/2012/D(5)/OCC.TH

Hands-On-Hand Evaluation Set should include

- JAMAR Hydraulic Hand Dynamometer
- B & L Pinch Gauge (0-60 lbs.; 0-27 kg)
- Small Joint Goniometer
- 6¾" E-Z Read Goniometer
- Flexible Tape Measure
- Finger Circumference Gauge (centimeters)
- Semmes-Weinstein Monofilaments (Set of Five: 2.83, 3.61, 4.31, 4.56, 6.65)
- DISCRIM-A-GON

HAND TAPPER TEST BOARD (ELECTRIC)

NO.492/U/16/30/2012/D/(6)OCC.TH

- Should be in wooden material, laminated & durable.
- Should have digital counter & timer to record the progress.
- Heavy duty for hospital use.
- Should be supplied with English instruction guide.

HAND TOOL TEST FRAME

NO.492/U/16/30/2012/D/(7)OCC.TH

- The test should consist of tools & two uprights with bolts.
- Container (Drawer) should be provide to store tools
- Test should measure proficiency in using ordinary mechanics tools.
- Should be in wooden material, should be laminated
- Should be durable & portable.

PEG BOARD TEST (PURDUE PEG BOARD)

NO.492/U/16/30/2012/D/(8)OCC.TH

Measures gross movement of hands, fingers and arms and finger dexterity.

Should Include

- Manual with instructions.
- Normative data.
- Record blanks.
- A stopwatch.
- Pins, Washers, and Collars.
- Laminated & durable Pegboard.

SENSORY INTEGRATION AND PRAXIS TEST (SIPT)

NO.492/U/16/30/2012/D/(9)OCC.TH

Composed of the following 17 brief tests

- Space Visualization
- Figure-Ground Perception
- Standing/Walking Balance
- Design Copying
- Postural Praxis
- Bilateral Motor Coordination
- Praxis on Verbal Command
- Constructional Praxis
- Postrotary Nystagmus
- Motor Accuracy
- Sequencing Praxis
- Oral Praxis
- Manual Form Perception
- Kinesthesia
- Finger Identification
- Graphesthesia
- Localization of Tactile Stimuli.

ACTIVITY MATTRESS

NO.492/U/16/30/2012/D/(10)OCC.TH

Foam material covered with dark colour rexin with zip lock at one side.

- 1 extra rexin cover.
- l X b X h = 190 X100 X 10 cms.
- Durable for heavy use.

ANKLE EXERCISER

NO.492/U/16/30/2012/D/(11)OCC.TH

- Should hold the foot in a foot moulde
- Straps to hold foot in place

- Mounted on a laminated base with stainless steel sheet bracket having two springs for ankle exercises
- The resistance of these units can be increased further by tightening spring's nut.

CONTINUOUS PASSIVE MOTION (UPPER EXTREMITY)

NO.492/U/16/30/2012/D/(12)/OCC.TH

- CPM for MCP, PIP & DIP joints of index, middle, ring & little fingers.
- Should be light weighted & user friendly
- Forearm & wrist straps to secure the CPM while in action
- Intermittent & continuous movement option to be provided
- Should be rechargeable and comply with 240 V AC & Indian plug pin
- Supplied with English instruction guide
- Should be provided with guarantee & warranty

ERGOMETER –MX-1

NO.492/U/16/30/2012/D/(13)OCC.TH

Compact & heavy duty for hospital use

- Must have training programs
Should have
- Electronically controlled brake
- Seat filled with gel, vertically and horizontally adjustable
- Deep entrance
- Load control independent of rotational speed
- Transport rollers-at the front
Training computer with following features
- Graphic representation of the load profile-
- Training evaluation-
- Performance into watts-
- Chronometry-
- Energy consumption-
- Training distance-
- Speed-

Technical data

Performance: 25 to 400 watt

- Loading capacity: 150 kg

MEDICINAL BALLS (1 – 5 KG)

NO.492/U/16/30/2012/D/(14)/OCC.TH

- Must have wooden cabinet with shelf to hold five balls.
- Should have out ward swing doors with glass panel and handles.
- Balls must be made out of leather, securely stitched with strong leather cord.
- Set of 5 balls in different sizes with 1, 2, 3, 4, 5 kgs each.

NIRMAL TABLE FOR HAND EXERCISER

NO.492/U/16/30/2012/L(15)OCC.TH

Hand exerciser must be

- Hard-wood table with laminated top, size 24"x 30"x 30" high fitted with 6 pulleys in a steel frame.
- Leather loops and nylon cord passing through the pulleys with hanging weight underneath for fingers hand, wrist and forearm exercises.
- Supinator/pronator and wrist circumduction wheel for wrist exercises. Five sets of weights, each set consists of 5 weights of one each of 100, 200, 300, 400 and 500 gms.

PEDDO CYCLE

NO.492/U/16/30/2012/D/(16)/OCC.TH

- A motorized pedo cycle should have digital meter to display the workout.
- Should be designed to improve movement range, muscle power and coordination ability of limb joints.
- Should come with resistance control mechanism
- Should be compact and withstand for heavy duty
- Light weight and portable
- Should be provided with English user manual.
- Should comply with Indian power standards- 220V Ac

SANDING UNIT OVERHEAD WITH STAND

NO.492/U/16/30/2012/D/(17)/OCC.TH

- Should have heavy & wide based stand adjustable in height
- Semi circulator wooden plank with 6" wide should be fitted in the stand.
- Roller should be covered with emery cloth for resistance.
- Seat with back rest should be provided
- Whole assembly and chair should be fitted over a platform which should be non slippery

SANDING UNIT VERTICAL (WALL MOUNTING)

NO.492/U/16/30/2012/D/(18)OCC.TH

- Wooden, wall mounting sanding unit with 20cm width x 100cm length fitted on an angular metal frame for angle adjustment and should have six weight plates (1kg each)

- for resistance and one sanding block.
- Block should be covered with felt for resistance

SANDING UNIT WITH ADJUSTABLE INCLINE FOR RECIPROCAL EXERCISER
NO.492/U/16/30/2012/D/(19)/OCC.TH

Consists two wooden hinged planks

- Upper plank's angle of inclination should be adjusted from horizontal to vertical position.
 - Two pulleys fitted at the top of 30cm wide upper plank for reciprocal hand-shoulder exercises three sets of sanding hand blocks with different grasp holds to be provided with the unit
 - Unit should be made of wood & polished
specifications
 - Upper plank. : 30cm x 100cm high with center divider with measuring tape.
 - Lower plank. : 30cm wide with 6 slots to hold upper plank for angle adjustment.
- Sand# blocks. : 3 pairs, with different grasp holds & clips to fix sandpaper

TILT TABLE (ELECTRICALLY OPERATED)

NO.492/U/16/30/2012/D/(20)/OCC.TH

- Electrically operated to tilt the table.
- Foam padded top.
- Straps to hold the patient.
- Heavy duty motor for silent and smooth lifting action with easy to operate control switches.
- Range: adjustable between 0 to 85 degrees.
- Table top: 61cm wide x 198cm long x 80cm high.
- Fitted on a heavy duty tubular steel frame with four locking wheels of 10 cm dia. for easy mobility.
- Work on 220V AC.

SWING VESTIBULO PROPRIOCEPTIVE EQUIPMENTS

NO.492/U/16/30/2012/D/(21)/OCC.TH

Large frame of iron railing for suspension of swings over it.

Net swing- 5 ft L x 2 ft W, strong nylon net. Edges having piping of canvas cloth. ½” diameter 4 nylon ropes, and 1” diameter 2 hooks for suspending swing. Weight bearing capacity up to 55 kg.

Platform swing- 32” L x 17” W, 1” thick platform covered with Rexene/nylon. Platform to be suspended to the ceiling with ½” diameter 4 nylon ropes, 1” diameter 2 C-hooks. Weight bearing capacity up to 55 kg.

Bolster swing – 8” diameter coir material cylindrical piece covered with nylon/Rexene. 1” diameter circular hooks at each end. ½” diameter 2 nylon ropes and 1”

diameter 2 C-hooks, for suspending the bolster to the ceiling. Weight bearing capacity up to 55 kg.

Hanging ladder – 1½” diameter 2 ropes, 16” L x 1” diameter wood sticks /steel rods. 12” gap between each step of ladder. 6ft ladder hanging at least 4 ft above ground. Weight bearing capacity up to 55 kg.

Trapeze swing – 4 ft L, 2” diameter, wood stick /steel rod suspended to ceiling by 1½” diameter nylon ropes and 1” diameter C-hooks. Weight bearing capacity up to 55 kg.

Crash mat – 6 ft L x 4 ft W coir material mat, covered with nylon.

RAMP WITH CURBS

NO.492/U/16/30/2012/D/(22))/OCC.TH

- Ramp should be of wooden material.
- Upper surface of the ramp should be non slippery.
- Angle of inclination: 2 inch raise for 1 foot length.
- Length x Breadth: 7 ft x 2.5 ft.
- Curbs are designed to be nested below the ramp at right angle.

BUBBLE BALL BATH

NO.492/U/16/30/2012/D/(23)OCC.TH

- The round pool should be 120cm in diameter x 50cm high, & has 10cm thick padded sides.
- The pool must contain 500 multi colour balls of 7cm or 8cm diameter.
- Pool side and bottom is covered with durable rexin that easily wipes clean and foam padded.

JUMP- 200 (TRAMPOLINE)

NO.492/U/16/30/2012/D/(24)OCC.TH

- Large trampoline with stand to hold while jumping.
- With heavy duty frame and springs, 38” D x 9” H trampoline should be covered in vinyl with reinforced stitching.
- Stands should be unscrewed during storage.
- Rubber feet for secure grip and protect floor.
- Handle 36” W x 44”H. Weight bearing capacity up to 140 kg.

THERMOPLAST SHEETS –10 SHEETS

NO.492/U/16/30/2012/D/(25)OCC.TH

- Thermoplastic sheets of 5mm thickness perforated type – 10 sheets of standard

size.

- Degree of perforations: 38%.
- Should have 100 percentage plastic memory.
- Should be light/skin coloured.

SPLINT THERMAL BATH

NO.492/U/16/31/2012/D/(26)OCC.TH

- Stainless steel splint thermal bath with split cover should hold an 18" x 24" sheet of thermoplastic material.
- Should be Water-resistant, illuminated on-off switch and digital LED temperature controller.
- Temperature adjustments from 140°F-180°F with preset temperature facility.
- Internally insulated with microprocessor controls to ensure correct and constant temperature.
- Durable plastic handle to minimize contact with warm lid surface.
- Drain valve, fuses and power cord should located at rear of appliance.
- Should comply with Indian power standards- 220V Ac.
- Should be supplied with max guarantee & warranty period.
- Insulated & comply high standards.

FOAM PAD (ETHA FLEX) –10 SHEETS

NO.492/U/16/31/2012/D/(27)OCC.TH

- 3mm thick flex sheet – 10 sheets/1 roll of standard size.
- Light or skin coloured.
- Soft & durable to with stand constant pressure.
- Supplied with one side pre adhesive & ready to use.
- Compatible with thermoplastic material for binding with adhesive.

WHEEL CHAIR

NO.492/U/16/31/2012/D/(28)OCC.TH

- Should be light weight, folding type with removable armrests and swinging foot-rests.
- Should be fitted with push breaks, which needs minimal effort by patient to stop the wheel chair.
- Removable armrests should be fitted with S.S. guard and P.U. rubber foamed.
- Foldable and swinging footrests must be separately detachable and fitted with leg supporting belt.
- Multi directional caster wheels should be free to move and turn 180 degrees.
- Hand rim should be non slippery to ensure better grip.

MULTI ACTIVITY WORKSTATION

NO.492/U/16/31/2012/D/(29)OCC.TH

- 6 ft L x 4 ft W x 4 ft H teak wood box, with in-built shelves for storage.
- 3 hinged work surfaces- 2 at sides, 1 at front which can be closed back after use.
- Work surfaces at sides should be 2 ft L x 4 ft W and 1½” gauge (thick).
- Work surface at front should be 6 ft Lx 1½ ft W and 1½” gauge (thick).
- Finely polished surfaces and rounded edges and corners.
- Freely rotating ball wheels at each corner of box base.
- It should contain- pinch tree, PVC pipe tree, 25 hole peg board, multi-shaped peg board, bolt board assembly, finger dexterity board, door latch board, dressing board, shoulder ladder, hand exercise board (Velcro), hand gym board activities

E. PHYSIOTHERAPY

HAND EXERCISER

NO.492/U/16/30/2012/E(1)PHY

Digi–flex hand exerciser develops isolated finger strength, flexibility and co-ordination while building hand and forearm strength, 5 different resistance levels

UPRIGHT BI-DIRECTIONAL BIKE

NO.492/U/16/30/2012/E(2)PHY

- Display of no. minimum pedal RPM
- ISO-Strength program
- an accommodating resistance program should be there
- adjustable seat (hight + front back)
- Durable, maximum user weight 200 Kg

Display of energy expenditure in particular time and speed of exercise with user manual

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