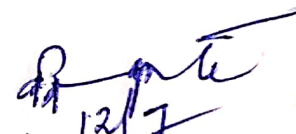


**MAHAVIR CANCER SANSTHAN AND RESEARCH CENTRE: PATNA**

**TENDER NOTIFICATION**

Quotations are invited from the reputed suppliers/manufactures for the Medical / Surgical Equipment items. Interested parties may send quotations by Regd. Post or Courier, in a sealed envelope, mentioning therein the terms & conditions, within 10 days, from the date of issue of this advertisement, addressed to The Director, Mahavir Cancer Sansthan, Phulwarisharif, Patna – 801 505. Tender No. (MCS/02/2021-22) should be mentioned on the envelope.

For more details, please visit hospital's website  
: [www.mahavircancersansthan.com](http://www.mahavircancersansthan.com)

  
12/7  
Addl. Director

1	FLOW CYTO METER (Technical specification attached in a separate sheet)
2	AUTOMAED BLOOD CULTURE TUBE (Technical specification attached in a separate sheet)
3	C.T. SCAN MACHINE(Technical specification attached in a separate sheet)
4	FULL ROOM CATH LAB SYSTEM (Technical specification attached in a separate sheet)
5	DIGITAL X-RAY MACHINE (Technical specification attached in a separate sheet)



**TECHNICAL SPECIFICATION FOR BENCH TOP MULTICOLOUR  
FLOW CYTOMETER.**

1	Lazer : Atleast 3 solid state Lazer 488nm Blue, 638nm red & 405nm violet, with atleast 50mw power.
2	Fluorescence channel - atleast 13 colour
3	Scatter resolution : Scatter parameters - FSC & SSC should detect and resolve atleast 200nm particles.
4	Sensitivity: The system should provide sensitivity of atleast <30MESF - FITC, <10 MESF - PE
5	Sample flow rate:: Adjustable between atleast 10ul & 200ul per minute.
6	Automated QC : System should have Automated quality. Control procedure and automatically output reports on the instruments
7	Automated maintenance: System should be capable of doing Automated Maintenance by doing individual tube Vortex, daily clean, deep clean, etc.
8	Sampling automation : Inbuilt multiple tube CAROUSAL for atleast 30 tubes with capability to individually Vortex each tube separaately before acquisition.
9	Software: Intutive, user friendly, shoud automaely modify compensation following gain setting changes and set the threshold based on population scaling in order to easily fined target population and allow Off-line compensation and Automatic compensation adjustment.
10	A separate Off-line Analysis software capable of managing multiple data sets and having automatic plot organization, auto lay-out, data merging, of different files. It should performs plots like tree, 3D radar, and over-lay histogram, as well as, standard scatter, histogramme and contour plots.
11	A separate Off-line analysis, workstation : i5 processor or heigher 32 GB RAM, NVIDIA - Quadro P5000 Graphics card, 23" monitor, Windows 10 should be provided.

12	System should be capable of accepting INVITRO Diagnostic certified - Dry reagents, Wet reagent, Cocktails, and individual colour Antibody.
13	Window 7 professional 64 with operating system, 23" monitor, 4GB RAM, 256 GB storage or higher.
14	Minimum 7 decade digital resolution with minimum 24 bit, Electronic bit and with a nominal acquisition speed at least 20,000 events per second, with CV less than 3% and preferably less than 2%. Digital sampling rate should be higher than 10 mhz.
15	Suitable On-line UPS with 30 minutes back-up and colour laser printer.
16	System software and reagents should be CE-IVD/US-FDA & ISO certified. For all 13 colours or INVITRO Diagnostics use latest model should be quoted.
17	Warranty should be minimum 5 years
18	Installation in India should be listed.
19	Reagents like SHEATH, cleaning reagents, tube, Instruments QC for minimum 300 tests should be supplied with the instruments.

	TECHNICAL SPECIFICATION OF BLOOD CULTURE SYSTEM - Should be have -
1	Automated
2	Continuous monitoring of samples
3	Shorter detection time
4	Reduce rate of contamination
5	Low processing time



## TECHNICAL SPECIFICATION FOR -

### C.T. SCAN MACHINE :

- |   |   |
|---|---|
| a | 34 ROWS OF DETECTOR OR ABOVE FOR NON-CARDIAC USE. |
| b | BRAIN PERFUSION                                   |
| c | WHOLE BODY ANGIOGRAPHY                            |
| d | WIDE BORE DIA METER                               |
| e | WORK STATION                                      |
| f | ONCOLOGY RELATED SOFTWARES AND BIOPSY GUIDE TOOLS |
| g | POWER INJECTOR DOUBLE SYRINGE                     |
| h | ADVANCE POST PROCESSING SOFTWARE                  |
|   |   |

### FULL ROOM CATH-LAB

- |   |   |
|---|---|
| a | FIXED FLOOR MOUNTED SYSTEM  |
| b | MORE THAN 50 KW GENERATOR   |
| c | FLAT FINAL WIDE DETECTOR (Above 20 X 20 cms)  |
| d | MOTORISED TABLE & "C"-ARM   |
| e | RADIATION PROTECTION EQUIPMENTS AND SOFTWARE AS PER STANDARED                               |
| f | POWER INJECTOR  |
| g | WORK STATION FOR POST PROCESSING  |
| h | WIDE EXAM. ROOM MONITOR, MULTI PANEL  |
| i | ALL BASIC SOFTWARE LIKE ROAD MAP  |
|   | <b>Note:</b> Re-furbished company certified system may also be considered, if found optimal |
|   |   |

### DIGITAL RADIOGRAPHY :

- |   |   |
|---|---|
| a | FLAT PANEL RETRO-FEED TYPE DETECTOR WITH WIFI CONNECTIVITY AND LARGE STORAGE CAPACITY FOR PRE-EXISTING RADIOGRAPHY SYSTEM |
| b | FULL ROOM NEW DIGITAL RADIOGRAPHY SYSTEM  |

S.N O.	NAME OF MACHINES/EQUIPMENTS
-----------	-----------------------------


1	THYROID UPTAKE SYSTEM
2	"0" ENDOSCOPE
3	"C" Arm
4	B.P. CUFF
5	B.P. HANDLE - NO. 3
6	BED-SIDE LOCKER
7	BED-SIDE SANITIZER STAND
8	BITE GUARD
9	BLATELY NASAL FORCEPS
10	BONE HOLDER
11	BRONCHOSCHOPY
12	CANON/EPSON COLOUR PRINTER
13	CARDIAC MONITOR
14	CAULTRY with APC
15	CHEMO PORT
16	CHISEL & MALLET
17	CLIP REMOVER
18	CONFERENCE TABLE FOR DOCTOR'S CHAMBER
19	CRASH CRAFT TROLLY
20	CYTOLOGY BRUSH
21	E.C.G. MACHINE
22	ELECTRO CAUTERY MACHINE
23	ELEECTRIC OSCILLATORY SAW - To cut Mandible.
24	EVS - EVME 2 premium bur

25	FIBRE OPTIC BRANCHOSCOPE - with light source & digital monitor screen
26	FUMIGATION MACHINE
27	HAND HELD COLOUR DOPPLER WITH PROBE plus MONITOR
28	HARMONIC (H.P. BLUE HAND PIECE
29	HARMONIC FOCUS - Long - 17 cm
30	HEMO CLIP
31	HENO GEL SPRAY
32	I.V. STAND
33	INDO LOOP
34	KIDNEY TRAY
35	LAMINAR AIR FLOW
36	LARRYNGOSCOPE LARRYNGAL BIOPSY FORCEPS - 18 cm.
37	LARYNGOSCOPE - Adult size
38	LIGASURE (Ref LF 1212)
39	LIGHT CABLE FOR HEAD LIGHT
40	LIGHT SOURCE
41	MICRO KNIFE
42	MOSQUITO FORCEP - CURVED
43	MOSQUITO FORCEP - PLAIN
44	NASAL SUCTION CANULA
45	NEBULIZER MACHINE
46	NEEDLE HOLDER
47	ON-LINE U.P.S. - 6 KVA
48	P I C C
49	PATIENT'S BED - Semi Fowler
50	PLASTIC CUSHION CHAIR
51	PLOTING KIT
52	PULSE OXYMETER
53	SALINE INFUSION PUMP
54	SCISSOR - BLUNT/SUTURE CUTTERY
55	SCISSOR - FINE
56	SCISSOR - STRAIGHT
57	SCLEROTHERAPY NEEDLE
58	STAPPLER REMOVER
59	STRECTCHER
60	SUCTION MACHINE
61	SYRINGE PUMP

62	TELEVISION
63	TOOTH FORCEP - PLAIN
64	ULTRATOME
65	VEIN FINDER
66	VISIGLIDE
67	WALL FAN
68	WATER PURIFIER - R.O.
69	WELL COUNTER
70	WHEEL CHAIR
71	XENON HEAD LIGHT
72	XENON LIGHT SOURCE WITH OUTLET FOR STANDARD LIGHT CABLE
73	
74	LAPAROSCOPIC SCISSOR - STRAIGHT
75	LAPAROSCOPIC SCISSOR - CURVED
76	LAPAROSCOPIC BOWEL GRASPERS - CURVED
77	LAPAROSCOPIC BOWEL GRASPERS - STRAIGHT
78	MARY LAND GRASPER
79	ALLIGATOR GRASPER
80	LAPAROSCOPIC LIGACLIP APPLICATOR - 5mm
81	LAPAROSCOPIC LIGACLIP APPLICATOR - 10mm
82	HEM-O-LOCK CLIP APPLICATOR - Purple
83	HEM-O-LOCK CLIP APPLICATOR - green
84	LAPAROSCOPIC SUCTION IRRIGATION SYSTEM
85	HOOK COUTERY



86	SPATULLA COUTERY - Curved
87	SPATULLA COUTERY - Straight
88	LAPAROSCOPIC NEEDLE HOLDER
89	LAPAROSCOPIC TROCARS - Plastic - 5mm
90	LAPAROSCOPIC TROCARS - Plastic - 10mm
91	LAPAROSCOPIC TROCARS - Plastic - 12mm
92	ALEXIS WOUND RETRACTOR PART - Small
93	ALEXIS WOUND RETRACTOR PART - Medium
94	ALEXIS WOUND RETRACTOR PART - Large
95	FAN RETRACTOR
96	LIGASURE LAPAROSCOPIC HAND PIECE
97	ECHOLON 60mm STAPLER (gm) + CARTRIDGE
98	LONE STAR RETRACTOR
99	FINE VASCULAR FORCEPS - Medium
100	FINE VASCULAR FORCEPS - Long
101	VASCULAR NEEDLE HOLDER - Medium
102	VASCULAR NEEDLE HOLDER - Large
103	FINE ROBERT'S FORCEPS - Large
104	VASCULAR BAB COCK - Medium
105	VASCULAR BAB COCK - Large
106	LUNG RETRACTOR
107	STERNAL WIRE CUTTER
108	STERNAL WIRE NEEDLE HOLDER & TWISTER
109	STRAPS FOR O.T. TABLE
110	GENERAL SURGICAL INSTRUMENTS (As per the list attached)
111	ORTHOPEDIC INSTRUMENTS (As per the list attached)

  
 12/7/21  
 Additional Director

**Nomenclature of items**

Mosquito Artery Forceps 4" GI

Artery Forceps 6" Str/Cvd GI

Dissecting Tooth/Plain Forceps 7" GI

Allice Forceps 6" GI

Babcock Forceps 6" GI

Towel Clip A/F Type 5"

Sicessor Mauos Str/Cvd TC Tip GI

Sicessor Fine Str/Cvd TC Tip GI

Needle Holder TC Tip rider GI 8,6,5 inch

Legenback Retractor Small/Medium

Cat Paw Retractor

Sponge Holder 10" GI

Tooth Forceps 6" GI

Plain Forceps 6" GI

Debekey Forceps 7" GI

Adson Forceps 7" GI

Gigli Saw wire Handle

BP Handle 3-4 No. GI (Different size)

Bone Holder

Bone Nibbler

Percussion Hammer (Small)

Aestrodum Straight/Curved

Suction Tip SS Fine

Skin Hook

Kidney Tray 10" S S

Bowel SS Small

Bowel SS Big

Bone Currette

Vein Loop lid Retractor Mallable

Bull Dog Clam GI

Check Retractor

Tooth Extractor

Bite Block

Elevator Coopland

Micro Motor Set

Micro Motor Hand Piece

Perio Steel Elevator Long

Mouth Gag

## **ORTHOPEDIC INSTRUMENTS REQUIRED FOR MODULAR O.T.**

1	TOOTH AND PLAIN FORCEPS (FOR GENERAL SURGERY)
2	OSTEOTOMES - 0.5", 1", 1.5" & 2"
3	DEEP RETRACTORS - RT. ANGLE - SMALL, MEDIUM, LARGE
4	PERIOSTEUM ELEVATORS
5	BONE SPIKES & LEVERS - SMALL, MEDIUM, LARGE
6	BONE HOLDERS -
7	HAND REAME & POWER REAMER
8	BONE AWL
9	BONE CURETTES - CURVED GAUZES
0	BONE GAUZES - STRAIGHT - 4 SIZES
1	BONE CHISELS
2	BONE RASP, SAW
3	BONE AMPUTATION SAW
4	BONE CUTTERS - ANGLED, STRAIGHT
5	BONE HAMMERS - DIFF. SIZES
6	BIOPSY NEEDLES - JAMSHIDI
7	K WIRES - ALL SIZES, 1,2,3
8	STEINMAN PINNS - 4.0mm - Length 150mm
9	HAND DRILLS
0	OSTEOTOMY SAW I DIFF. SIZE
1	<b>SCREW DRIVERS - DIFF. SIZES</b>
2	<b>DRILL BITS - DIFF. SIZES</b>
3	DAMAGED SCREW HEAD REMOVABLES
4	HAND DRILL MACHINE
5	BONE SPATULLA
6	NERVE RETRACTORS
7	CHARLEY'S WOUND RETRACTOR
8	POWER BURR FOR TUMOUR
9	ELECTRIC BEAM COAGULATOR
30	ST. STEEL WIRE ROLL
31	ARM FOR ORTHO O.T. ONLY - .....
32	C- ARM - SIEMEN
33	A.O. POWER DRILL WIPE - DIFF. SIZE (MULTI PURPOSE)
34	SPECIAL SPINE INSTRUMENTS (COMPLETE SET)
35	SPINE INSTRUMENTS (COMPLETE SET)
36	SELF RETAINING RETRACTOR (LOCKING TYPE) - DIFF. SIZES
37	DOUBLE ANGLE CUTTERS (BONE) - TWO DIFF. SIZES
38	NIBBLERS - ALL SIZES
39	BROAD OSTEOTOMES
40	NERVE HOOK & RETRACTORS
41	UP & DOWN CUTTERS-UP & DOWN CUTTERS
42	DISC FORCEPS
43	FRACTURE TABLE (C-ARM USABLE RADIO LUCENT)
44	C-ARM USABLE RADIO LUCENT
45	KNEEL HOLDERS
46	MICRO MOTOR in hand piece & cable only