

**GOVERNMENT OF MADHYA PRADESH
DEPARTMENT OF MEDICAL EDUCATION**

**NATIONAL COMPETITIVE BIDDING FOR THE SUPPLY OF EQUIPMENTS
FOR GOVERNMENT / AUTONOMOUS MEDICAL COLLEGES, DENTAL
COLLEGE & ASSOCIATED HOSPITALS UNDER MEDICAL EDUCATION
DEPARTMENT, BHOPAL, M.P. UNDER RATE CONTRACT**

BID REFERENCE : CPC/EQUIPMENTS/13-14/12
PRE BID MEETING : 11.06.2013

Key Dates : Single Submission MultiOpening With Prequalification

Seq No	DME Stage	Contractor Stage	Start Date & Time	Expiry Date & Time
1	Tender Preparation and Release of NIT	-	20-05-2013 10:00	28-05-2013 17:30
2	-	Tender Purchase - Online	28-05-2013 17:31	13-07-2013 17:00
3	-	Tender Download	28-05-2013 17:31	14-07-2013 17:00
4	-	Submit Bid - Hash Online	28-05-2013 17:31	16-07-2013 16:00
5	Close for Bidding - Generation of Super Hash	-	16-07-2013 16:01	16-07-2013 17:30
6	-	Submit Bids Online - Re-encryption	16-07-2013 17:31	19-07-2013 17:00
7	Open EMD & Technical / PQ bid	-	23-07-2013 10:00	20-08-2013 17:00
8	Open Financial / Price-Bid	-	22-08-2013 10:00	31-08-2013 17:00

Last date for submission of original EMD and other relevant documents is 22.07.2013 upto 17:30 pm. All key dates are tentative and subject to be changed as per procurer requirement, all the information regarding this will be floated only on <http://dme.mpeprocurement.gov.in> portal.

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
ANAESTHESIA DEPARTMENT			
ANS1	Advanced anaesthesia machine	Page no. 82 line no. 10 -must have vaporizer for halothane.	Page no. 82 line no. 10 Would be read as -must have vaporizer for halothane/ Iso flurane/ sevo flurane
		Page no. 82	Page no. 82 Following Specification added in present specification. 1. Hypoxic guard should be available 2. Low flow < 1 lit combined gas
ANS2	Anaesthesia ventilator	Page no. 82-83	Page no. 82-83 Item code ANS2 is deleted.
ANS3	C-pap unit	Page no. 84	Page no. 84 Following Specification added in present specification. With sleep apnea detection alarm and with humidifier.
ANS4	Bi-pap unit	Page no. 84	Page no. 84 Following Specification added in present specification. With sleep apnea detection alarm and with humidifier.
ANS9	Isoflurane	Page no. 87 line no. 5	Page no. 87 line no. 5

AA *Abdullah* *II*

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
	vaporizer	-selecta tee compatible -should have a local technical support engineers for 24 hours backup.	Word "selecta tee" deleted.
ANS10	Sevoflurane vaporizer	Page no. 87 line no. 5 selecta tec compatible	Page no. 87 line no. 5 Word "selecta tec" deleted.
		Page no. 87 line no. 9 Selecta tec vaporizer (sevoflurane)- 1 no	Page no. 87 line no. 9 Word "selecta tec" deleted.
ANS11	Desflurane vaporizer	Page no. 87 line no. 5 -selecta tec compatible	Page no. 87 line no. 5 Word "selecta tec" deleted.
		Page no. 87 line no. 9 1. Selecta tec vaporiser (sevoflurane)- 1 no	Page no. 87 line no. 9 Word "selecta tec" deleted.
ANS17	Anaesthesia workstation	Page no. 89 line no. 22 50 to 1500 ml tv, 4 to 80 bpm, 2:1 to 1:2 i: e ratio, inspiratory pause 5% to 60 % of inspiratory time.	Page no. 89 line no. 22 Would be read as 20 to 1500 ml tv, ratio 4:1 to 1:4
		Page no. 89 - 90	Page no. 90 Following Specification added in present specification. 1. ISO/ European CE/ US FDA Approved 2. Multichannel monitor should be present with following parameters- ECG, SPO ₂ , NIBP, Respiration, Temperature, EtCO ₂ , IBP, AGM, BIS & NMT.
ANS23	Multipara monitor	Page no. 91 line no. 3 24 hours trends of all the parameters with digital recording.	Page no. 91 line no. 3 Would be read as 72 hours trends of all the parameters with digital recording.

AA *Abdullah* *II*

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
ANS24	Biphasic defibrillator with monitor	Page no. 92 point no 5 Defibrillator with energy levels paddles : 2, 4, 8, 15, 30, 50, 70, 90, 120, 150, 200, 300 j with both non- synchronized and synchronized defibrillation mode	Page no. 92 point no 5 Word "300 j" deleted.
ANS25	Anaesthesia pendent in O.T.	Page no. 92	Page no. 92 Following Specification added in present specification. 1. No of outlets 6 [2 for oxygen, 2 for vacuum, 1 for nitrous oxide & 1 for air (4 bar)] 2. Range 2 meter
ANS28	100 ma medical mobile x-ray machine for ICU	Page no. 93 Page no. 93 line no. 1 100 ma machine with multiple flexible arms for easy maneuverability.	Page no. 93 line no. 1 Item code ans28 should be read as :- Medical mobile x-ray machine for ICU. Page no. 93 line no. 1 : should be read as :- 70-150 mA machine with multiple flexible arms for easy maneuverability.
ANS29	Icu ventilator	Page no. 93	Page no. 93 Following Specification added in present specification. 1. Should be compatible with mode for adult & pediatrics ventilation both. 2. Tidal volume (20-2000 ml) used

3

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
Anatomy Department			
ANT18	300 ma X-ray digital	Page no. 95 point - II II. Image reading (CR Reader/digitizer) ,should process 80 imaging plates/hr, resolution of 6pixl/mm, 10 pixl/mm, 20 pixl/mm for mammography	Page no. 95 point - II Word "digitizer" deleted.
Department of Biochemistry			
BIO1	Deep freezer	Page no, 97 line no. 1 1. Capacity 170 litres & required temperature lowest -20 ° c	Page no, 97 line no. 1 Would be read as 1. Capacity 170 liter & required temperature lowest - 20 to - 80 ° c
BIO10	Incubator electric with thermostats	Page no, 98	Page no, 98 Following Specification added in present specification Temp. Range 0-100°C. Volume (Variable as per requirement) 100 to 550 ltr
BIO26	Specification of PCR Apparatus	Page no. 103 point no. 13 Optimum reaction volumes for each application - 5 to 100 µl. The vendor should specify minimum working volume if lower than 5 µl. Preference would be given to those platforms that minimize reaction volumes to 2 µl or less.	Page no. 103 point no. 13 Line below is deleted "Preference would be given to those platforms that minimize reaction volumes to 2 µl or less."

4

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
BIO27	HPLC unit with inbuilt operating modules	Page no, 104 line no. 1 I. Binary Pump for Semiprep work	Page no, 104 line no. 1 Would be read as Binary Pump/Analytical
		Page no, 104 point no. I line no. 4 Programmable flow rate range: 001 - 20.0 ml/min in 0.001 ml/min increments.	Page no, 104 point no. I line no. 4 Would be read as Programmable flow rate range: 001 - 10.0 ml/min in 0.001 ml/min increments.
		Page no, 104 point no. IV line no. 3 Light source: Prealigned, Deuterium lamp	Page no, 104 point no. IV line no. 3 Would be read as Light source: Prealigned, Deuterium, tungstion lamp
BIO28	Flow cytometer	Page no, 105 line no. 8 • Sensitivity of the system should be less than 100 MESF for both FITC and PE channels.	Page no, 105 line no. 8 Would be read as Sensitivity of the system should be less than 112 MESF for both FITC and PE channels.
		Page no, 105 line no. 13 Signal processing 24-bit A/D conversion	Page no, 105 line no. 13 Would be read as Signal processing 18-24 bit A/D conversion.
		Page no, 105 line no. 11 The system should have octagon shaped collection optics for enhanced sensitivity.	Page no, 105 line no. 11 Would be read as The system should have efficient shaped collection optics for enhanced sensitivity.

5

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
Blood Bank			
BLB30	Cell Counter	Page no 118-119 specification Features Fully automatic, hematology analyser with laboratory computer and built in printer/external printer. Parameters RBC, Hb, WBC, Hct (Haematocrit) and Platelet Sample Size 30-40 micro litre with automatic cleaning internal and external Complete cycle time (a) Auto start up-120 seconds approx. (b) Run: 60 second (c) Daily shutdown: 120 seconds. Data display with printing facility LCD/LED terminal with printing facility Power supply 220/240 volts, 50 cycles, single phase, with inbuilt FIE safety against high load voltage. Equipment with standard accessories, reagents for at least 3000 blood samples and One line voltage corrector of appropriate rating as per standard configuration Line voltage	Page no 118-119 specification Specification should be read as Fully automatic, hematology analyser with laboratory computer and built in printer/external printer. Parameters: Report & print all 18 parameter : RBC, WBC, PLT, Hb, Hct, MCV, MCH, MCHC, PCT, MPV, PDW, RDW, LYM% & #, MON%#, GRAN%&#, WITH WBC, RBC, & PLT HISTOGRAM & CRP. Sample Size : Range 10-40 micro litre with automatic cleaning internal and external. Data display with printing facility LCD/LED terminal with printing facility. Must have 2 discrete mode i.e. CBC with CRP and CBC alone. (Quantitative CRP parameter). Automatic cleaning of sample probe.

6

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		<p>Copper wound single phase automatic line voltage corrector conforming to IS:9815/89 with latest amendment fitted with a voltmeter and switch to indicate output/input voltage as under Capacity rating (KVA) As per the requirement of the equipment Input voltage 160 to 260 volts , 50 cycles Output voltage 220 volts to 240 volts adjustable The equipment should be supplied with 2 meter chord at input and fitted with plugs of appropriate rating (15 amp) Make of line voltage corrector shall be indicated Manufacturers shall submit the manufacturer's test certificate of each LVC as per BIS to be supplied along with the equipment. However type test certificate for one number of LVC of conducting trials at the time of inspection installation, commissioning and trial run will be the responsibility of the supplier</p>	<p>Lower linearity should start with zero for RBC, WBC, platelets & Hb. Should use cyanide free reagents for Hb estimation. UPS as per the requirement of the equipment.</p>

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition																																								
CASUALTY UPGRADATION DEPARTMENT																																											
CUP 3	Shadowless lights	<p>Page no. 133 line no. 3</p> <ul style="list-style-type: none"> Ceiling LED operating light double lamphead should have more than 110 LED in major lamp head and more than 70 in satellite lamphead should offer excellent luminous efficiency light source and incredibly long life LED <p>Page no. 133 line no. 18</p> <ul style="list-style-type: none"> Single halogen bulb 24 V 150 W with one backup bulb <p>Page no. 133 line no. 22</p> <table border="1"> <thead> <tr> <th colspan="2">TECHNICAL SPECIFICATION</th> </tr> </thead> <tbody> <tr> <td>Lamphead</td> <td>700mm dia 1 bulb</td> </tr> <tr> <td>Light intensity</td> <td>130000 Lux</td> </tr> <tr> <td>Power requirement</td> <td>150 W</td> </tr> <tr> <td>Color temperature</td> <td>4250 K</td> </tr> <tr> <td>Average life for halogen bulb</td> <td>1000 working hrs</td> </tr> <tr> <th colspan="2">SATELLITE LIGHT HEAD</th> </tr> <tr> <td>Power requirement</td> <td>80000 Lux</td> </tr> <tr> <td>Color temperature</td> <td>150 W</td> </tr> <tr> <td>Average life for halogen bulb</td> <td>2000 working hrs.</td> </tr> </tbody> </table>	TECHNICAL SPECIFICATION		Lamphead	700mm dia 1 bulb	Light intensity	130000 Lux	Power requirement	150 W	Color temperature	4250 K	Average life for halogen bulb	1000 working hrs	SATELLITE LIGHT HEAD		Power requirement	80000 Lux	Color temperature	150 W	Average life for halogen bulb	2000 working hrs.	<p>Page no. 133 line no. 3 should be read as</p> <ul style="list-style-type: none"> Ceiling LED operating light double lamphead should have more than 70 LED in major lamp head and more than 50 in satellite lamphead should offer excellent luminous efficiency light source and incredibly long life LED <p>Page no. 133 line no. 18 Line no. 18 is deleted.</p> <p>Page no. 133 line no. 22 should be read as</p> <table border="1"> <thead> <tr> <th colspan="2">TECHNICAL SPECIFICATION</th> </tr> </thead> <tbody> <tr> <td>Lamphead</td> <td>700 mm dia 1 bulb</td> </tr> <tr> <td>Light intensity</td> <td>150000 Lux</td> </tr> <tr> <td>Power requirement</td> <td>150 W</td> </tr> <tr> <td>Color temperature</td> <td>4250 K</td> </tr> <tr> <td>Average life of LED</td> <td>35000 hours</td> </tr> <tr> <th colspan="2">SATELLITE LIGHT HEAD</th> </tr> <tr> <td>Power requirement</td> <td>90000 Lux</td> </tr> <tr> <td>Color temperature</td> <td>150 W</td> </tr> <tr> <td>Average life of LED</td> <td>35000 hours</td> </tr> </tbody> </table>	TECHNICAL SPECIFICATION		Lamphead	700 mm dia 1 bulb	Light intensity	150000 Lux	Power requirement	150 W	Color temperature	4250 K	Average life of LED	35000 hours	SATELLITE LIGHT HEAD		Power requirement	90000 Lux	Color temperature	150 W	Average life of LED	35000 hours
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Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
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GENERAL MEDICINE DEPARTMENT

MED1	Defibrillator	Page no. 167 point 7 It should have ability that all CPR data can be recorded and reviewed by using software specially designed for doing this (if needed).	Page no. 167 point 7 Point no. 7 deleted
MED2	Multipara Monitor	Page no. 164 line no. 11 Size : 6.4" (Diagonally)	Page no. 164 line no. 11 Would be read as Size : 17" (Diagonally)
			Page no. 164 Following Specification added in present specification Should records 72 hours trends.
MED4	Invasive bedside monitor	Page no. 168 point no. 3 Clear large screen (> 19") medical grade resolution (> 1600X1200) TFT/LCD display with a swivel base provided by the original manufacturer, allowing rotation and viewing from any angle. Page no. 169 point no. 9 Wireless monitoring of the patient i.e patients should be able to move around freely and still	Page no. 168 point no. 3 Should be read as Clear large screen (> 17") medical grade resolution (> 1600X1200) TFT/LCD display with a swivel base provided by the original manufacturer, allowing rotation and viewing from any angle. Page no. 169 point no. 9 Should be read as monitoring of the patient should be on console.

9

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
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		monitoring ECG , NIBP and oxygen saturation	
MED5	Vascular Doppler Recorder	Page no. 169 Hand held vascular Doppler with portal probe	Page no. 169 Would be read as Hand held vascular Doppler with portal probe 8 Mhz, should have bi-directional flow recording, inbuilt speaker and inbuilt display for blood velocity.
MED8	Ventilator	Page no. 170 Fast response time combined with high peak flow up to 250 l/min, offer amazing performance. Very sensitive inspiratory & expiratory triggers, allow effective and effortless breathing Amazing sensitive pressure flow sensors and fast response time make it very gentle and synchronized ventilation despite of very efforts by patients. Patented " Flow by technology " makes at virtually effortless triggering in tracheostomized patients. Real time display of curves and loops with unique software. Display Pressure / time. Flow /time. Compliance loop (volume / pressure). Flow volume loop. Measured parameters, calculated parameters, trends, Alarms, Remote control	Page no. 170 Present specification deleted and Would be read as :- Should have the following modes volume control (flow adapted volume control or equivalent) pressure control,ps/cpap,simv pressure control+ps,niv,prvc or equivalent,bivent and lung mechanics.facility for suction support. Should be compatible with mode for adult & peditrics ventilation both. Tidal volume (20-2000 ml).

10

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
MED17	Tread mill Stress test Data acquisition unit	Page no. 177	Page no. 177 Following Specification added in present specification US FDA approved
		Page no. 179 line no. 1-3 Facility to view on line display of Name of protocol, Stage, TM Grade, TM speed, current stage time, total test time & B.P Systolic /diastolic & BMI.	Page no. 179 line no. 1-3 Facility to view on line display of Name of protocol, Stage, TM Grade, TM speed, current stage time, total test time and BP systolic / diastolic recorded during both stress and resting condition.

MICROBIOLOGY DEPARTMENT

Item code	Item name	Present Specification	Modification / Amendment / Addition
MIC4	Fully automated blood culture system	Page no, 189 line no, 14 Additional identification and sensitivity (with wide range of antibiotics) to be provided with the equipment.	Page no, 189 line no, 14 Line no. 14 is deleted.
MIC10	Carbon dioxide incubator	Page no, 191 line no. 1 Inner chamber made of stainless steel and outer body of M/steel painted with white stoving enamel.	Page no, 191 line no. 1 Would be read as Inner chamber is made of 1 piece stainless steel and outer body of M/steel painted with white stoving enamel.
MIC31	HPLC -UV detection (Reverse phase)	Page no, 196-197 Integrated Solvent Delivery Pump, Operating flow range :- 0.001 to 10.0 ml / min.,	Page no, 196-197 Present specification deleted.

11

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		Solvent delivery Module :- Ultra stable dual reciprocating parallel, piston, .Flow Accuracy :- < +/- 1%,.Operating Pressure :- 0- 6000 psi,Flow Path material :- SUS 316, PTFE, Sapphire, Zirconium.Semi Auto Prime/Purge,Plunger: zirconium,Check valve: cartridge type, Automatic rinsing every 3 minutes standard,Compressibility compensation: automatic Manual Sample Injection with Switch Injection loop :- 5 ul and 20 ul.,Auto start :- By Position Sensing Switch, Type :- 6 Port Flat Injector with Built in Needle port. Vacuum Degasser & Mixer Number of channel : 4 Channels,Maximum flow rate : 10 ml/min per channel > 0 ~ 2.0ml/min per channel for 70% Gas Removed from Methanol,Internal volume per channel : 925 ul per channel,Materials in contact with solvent : Teflon AF, PEEK and Glass-filled PTFE Photo Diode Array Detector Noise Level: < ± 2x10 ⁻⁵ AU,Drift : < ± 2x10 ⁻⁴ AU/hr,Slit Bandwidth : 1.7nm (Std), 2nm, 4nm, 8nm,Wavelength Accuracy: < 1nm GLP Compliance : -Photometric Accuracy, Linearity, Noise Level, Drift,Wavelength : 190 ~ 950,Analog Output : 4 Channel,Valve Output : 2ch, Sampling	Following specification will be read in place of present specification. Integrated solvent delivery pump, high pressure binary gradient with mixture, operating flow range – 0.001 to 10 ml/minute, solvent delivery module : ultra stable dual reciprocating parallel piston. Flow accuracy <± 1% or better, maximum operating pressure 0 – 6000 PSI, flow path material – SUS 316, PTFE, sapphire, zirconium. Semi-auto prime / purge plunger. Check wall cartridge type, automatic rinsing every 3 minutes standard. Compressibility compensation, Manual sample injection with switch injection loop : 5µ and 20 µl. Photo diode array detector, wavelength 190 – 800 number of photo diode 512 or better, optical resolution 1.2 nm. Moise level <0.5 x10 ⁻⁴ AU or better drift <2 x 10 ⁻⁴ AU / hour, lamp optimization software built in. column oven temperature range 4 degree centigrade to 60 degree centigrade. Temperature stability ±0.05 centigrade. Temperature accuracy ± 0.5 degree celcius, total three columns maximum 2EA of 25 EA of 15 cm column. Heat up time : 156 minutes

12

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		<p>Programmable,Filtering : Bassel, RC, AVER. 0.01 ~ 10Hz,Linearity: < 5%, < 1% ,16bit AD Resolution, Cell : 1cm pathlegh, 14ul Auto sampler, 96 standard 2ml vials (32mm x 12mm) or well plates (96 or 384 capacity, deep or shallow) can be used. Sample capacity : 2 Micro Well Plates according to SBS standards, Sample capacity : 2 Micro Well Plates, Reproducibility :i)RSD ≤ 0.3% for full loop injections ii)RSD ≤ 0.5% for partial loop fill injections iii)RSD ≤ 1.0% for µl pickup injections ,Carryover : < 0.05 % Column Ove, Temperature range: 4°C (Cooling) - 90°C, Temperature stability : ±0.05°C,Temperature accuracy : ±0.5°C,Temperature programs : 40 Steps, Column capacity : Total 3 columns (max. 2ea of 25cm column +1ea of 15cm column),Heat-up time : 16 minutes from 4°C to 90°C,Cool-down time : 13 minutes from 90°C to 4°C,Line frequency : 50/60Hz, ±5%,Column switching : max. Two automatic 6-port valve, Fraction Collector, Collection modes:- Manual time, peak & time, peak & drop, Programmable time unit :- 0.001 -99.99 per tube , ,Multicycle operation :- Max 99 cycles, "Multiple column collection : Simultaneous</p>	<p>from 4 degree. Column reverses C-18 (250 x 4.6 mm) and analytical C-18. Mandatory pre-installation requirement : Ultra sonic bath, capacity 1.5 lts, Tank size : 240 L x 135B x 65 H(mm), solvent filtration kit, solvent filtration assembly glass / SS, nylon 66 membrane filter, vaccum pump for above model PCI-15. i) Max, flow – 15 LMP, vaccum – 22" Hg (554mm) ii) Max. pressure – 25 PSIG, 1/20 HP, sample filtration kit, 13 mm SS. Filter holder, Rheodyne needle, 5 ml glas tight suringe (imported), nylon 66 membrane filter. Recommended accessories : computer system and printer with latest configuration, UPS (uninterrupted power supply), minimum 2 KVA or above.</p>



CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		<p>collection from up to 8 columns with installation of column adapter." Fully System Controlled Software, GLP & GMP Compliance 21 CFR Audit trial & LIMS compliance, Multichannel & Multitasking, with Leak Sensor, Ultra Speed data processing (LAN) – Network, Simultaneous data acquisition up to 4 system Mandatory pre-installation requirement: Ultra Sonic Bath, Capacity:- 1.5 liters, Tank Size :- 240L x 135B x 65H (mm), Solvent Filtration Kit, Solvent Filtration Assembly Glass / SS,Nylon 66 Membrane Filter,Vaccum Pump for above Model PCI-15 i)Max. Flow- 15LPM, Vacuum-22" Hg (554mm),ii)Max. Pressure- 25 Psig, 1/20 HP, Sample Filtration Kit, Ø 13mm S.S. Filter Holder, Rheodyne Needle,5ml Glass Syringe (Indian),5ml Gas Tight Syringe (Indian),5ml Gas Tight syringe (imported),nylon 66 membrane filter, Recommended accessories: Computer System& Printer :-With Latest Configuration, UPS (Uninterrupt Power Supply):- Minimum 2 KVA or above Note:- All the item like UPS, Computer should be branded</p>	



CORRIGENDUM

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Item code	Item name	Present Specification	Modification / Amendment / Addition
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Obst. & Gynae. Department

Item code	Item name	Present Specification	Modification / Amendment / Addition
OBG11	ETCO2 Monitor	Page no. 232 line no. 1 The Monitor system should be US approved for quality Assurance	Page no. 232 line no. 1 Would be read as The Monitor system should be US FDA approved for quality Assurance
OBG12	LED ceiling light with cover(white light)	Page no. 232 line no. 2 Reflector system 4 Page no. 232	Page no. 232 line no. 2 Line 2 deleted Following points added in the present specification. More than 70 LED No. of domes - 2
OBG27	IVF Instrument	Page no. 236 line no. 1 1- Binder Air Jacked CO2 Incubator with IR Sensor Special : Page no. 236 line no. 11 Hot Air auto sterilization (187.5C) Page no. 238	Page no. 236 line no. 1 Word "Binder " deleted. Page no. 236 line no. 11 Will be read as Hot Air auto sterilization (180 C) Page no. 238

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
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			Following points added in the present specification. HEPA filter
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Ophthalmology Department

Item code	Item name	Present Specification	Modification / Amendment / Addition
OPH1	Spectral domain OCT	Page no. 240 line no. 13 Model 4000	Page no. 240 line no. 13 Line no. 13 Deleted
OPH13	Double Frequency Nd Yag LASER (532nm)	Page no. 249-250	Page no. 250 Point added in the last in present specification. It should be US FDA / CE.
OPH20	IOL master	Page no. 253	Page no. 253 The name of item code OPH20 would be read as Optical Biometer

Orthopaedics Department

Item code	Item name	Present Specification	Modification / Amendment / Addition
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Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition																				
ORT34	OT Light Shadowless Cold light LED lamp, ceiling mounted compatible with laminar air flow, double dome.	<p>Page no. 286</p> <p>1 set includes :</p> <p>1. No of dome- Double Dome</p> <p>a. Major Dome- 1,60,000 Lux at 1 m</p> <p>b. Satellite Dome- 90,000 lux at 1 m</p> <p>2 Single bulb Technology with switch over to reserve bulb automatically when main bulb fails (operating bulb should be in center).</p> <p>3. Colour Temperature should be 4200 K</p> <p>4. Colour Rendering Index should be min 93</p> <p>5. Light field Diameter</p> <p>a. Major Dome- 155 mm to 270mm</p> <p>b. Satellite Dome- 130 mm to 205mm</p> <p>6. Depth of Illumination (L1 + L2) should be minimum 1350mm</p> <p>7. Irradiance / illumination intensity should be min 3.5mW/m²lx.</p> <p>8. working column with homogeneous light distribution should be min 700mm</p> <p>9. Switch on intensity should be 71% of max intensity automatically</p> <p>10. average life cycle of illuminant should be min 1000 hrs</p> <p>11. Parabolic reflector with min 3000 facets</p> <p>12. Light should have completely shadow less</p> <p>13. Possibility to field upgrade to wall control</p>	<p>Page no. 286</p> <p>Present specification deleted.</p> <p>Following specification will be read in place of present specification.</p> <table border="1"> <tr> <td>Technical Data</td> <td></td> </tr> <tr> <td>Reflector System</td> <td>4</td> </tr> <tr> <td>Illumination Intensity :</td> <td>140000 Lux.</td> </tr> <tr> <td>LED Service Life</td> <td>50000 Hours.</td> </tr> <tr> <td>Colour Temperature</td> <td>5500 K.</td> </tr> <tr> <td>Colour Rendering Index</td> <td>90 Ra</td> </tr> <tr> <td>Temperature increase in Surgeon's head area</td> <td>< 2 ° C</td> </tr> <tr> <td>Index Light Spot</td> <td>200 - 250 mm</td> </tr> <tr> <td>Brightness Adjustment</td> <td>Nearly 0%- 100% From Panel or Remote Control.</td> </tr> <tr> <td>Power</td> <td>230 VAC/ 50/60 Hz.</td> </tr> </table>	Technical Data		Reflector System	4	Illumination Intensity :	140000 Lux.	LED Service Life	50000 Hours.	Colour Temperature	5500 K.	Colour Rendering Index	90 Ra	Temperature increase in Surgeon's head area	< 2 ° C	Index Light Spot	200 - 250 mm	Brightness Adjustment	Nearly 0%- 100% From Panel or Remote Control.	Power	230 VAC/ 50/60 Hz.
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Power	230 VAC/ 50/60 Hz.																						

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17

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		<p>panel in future</p> <p>14. Integration of the surgical light to central OR control systems possible via RS232 port.</p> <p>15. Designed according to relevant safety standards EN 60601-1, EN 60601-1-2, EN 60601-2-41 as well to European Medical Device Directive 93/42/EEG</p>	

PAEDIATRICS SURGERY DEPARTMENT

Item code	Item name	Present Specification	Modification / Amendment / Addition
PDS 3	Infant Warmer For precise environmental control effective isolation, adequate, oxygenation of surgical neonate and for continuous monitoring of respiratory assessment of new born	Page no. 298	<p>Page no. 298</p> <p>Following Specification added in present specification.</p> <p>Quality assurance: European CE / USFDA.</p>

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18

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
PDS 4	Cardiac Monitor For continuous monitoring of pre and post operative surgical neonate	Page No. 299 line no. 8 ETCO2 function module (Respironics-main stream/side stream)-plug&play; Page no. 301 line no. 21 Cardiac output Hemodynamics calculation	Page No. 299 line no. 8 Words "Respironics" deleted Page no. 301 line no. 21 Line 21 deleted.
PDS12	XENON LIGHT SOURCE AND LIGHT CABLE	Page no. 306 – 307	Page no. 306 – 307 Following Specification added in present specification. Quality assurance certification should be mentioned. European CE / USFDA.
PDS15	LED Light (Light Source)	Page no. 307 line no. 1 • Description: Dual Dome LED Surgical Lighting System with one dedicated Spring-Arm Suspension for Progressive Scan HD Flat Panel with an Integrated In-Light Camera System.	Page no. 307 line no. 1 Would be read as Description: Dual Dome LED Surgical Lighting System with one dedicated Spring-Arm Suspension for Progressive Scan HD Flat Panel minimum 24' with an Integrated In-Light High Definition Camera System with minimum 10 x digital Zoom 360 Degree rotation with USB Stick.
PDS20	Neonate Transfer Incubator	Page no. 311 Line no. 23 TECHNICAL SPECIFICATIONS DRÄGER ISOLETTE® T1500 INCUBATOR	Page no. 311 Line no. 23 Word "DRÄGER ISOLETTE® T1500" deleted.
PAEDIATRICS MEDICINE Department			
PED 4	Neonatal ventilator	Page no. 316 line no. 4	Page no. 316 line no. 4 would be read as

19

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		The ventilator should be supplied with heated servo controlled humidifier with suitable hoses and chambers for neonatal patients.	The ventilator should be supplied with heated wire circuit servo controlled humidifier with suitable hoses and chambers for neonatal patients.
		Page no. 316 line no. 6 Should have standard Air Compressor .	Page no. 316 line no. 6 would be read as Should have standard Air Compressor of same make (no local substitute would be accepted).
		Page no. 316 line no. 9 The flow sensor should be of higher accuracy.	Page no. 316 line no. 9 would be read as The flow sensor should be of higher accuracy and reusable.
		Page no. 317 line no. 12 Silicon heated Hose set for use for neonatal patients	Page no. 317 line no. 12 would be read as Silicon reusable wire heated Hose / tubing set for neonatal patients (required 2 sets).
		Page no. 317 line no. 13 Standard Servo controlled humidifier with reusable chamber	Page no. 317 line no. 13 would be read as Heated wire standard Servo controlled humidifier with reusable chamber.
		Page no. 316 line no. 15 CPAP	Page no. 316 line no. 15 would be read as ET CPAP & nasal CPAP
		Page no. 317 line no. 22 Neonatal test lung with variable compliance and resistance	Page no. 317 line no. 22 would be read as Neonatal test lung with variable compliance and resistance (required 2 test lungs)
		Page no. 317	Page no. 317 Following Specification added in present specification. • Loops and waveforms colored screen required.

20

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
			<ul style="list-style-type: none"> Volume guarantee and pressure support mode are also required. Battery back up for minimum two hour. In case of low backup supplier should supply compatible UPS with ventilator. Voltage stabilizer ISI marked for the above machine required.
PED5	Pediatric Ventilator	Page no. 318 line no. 2 CPAP/PEEP	Page no. 318 line no. 2 Would be read as:- CPAP/PEEP/nasal CPAP
		Page no-318 line no – 25 g) Advanced mode like pressure controlled volume guaranteed	Page no-318 line no – 25 Would be read as :-g) Advanced mode like pressure controlled volume guaranteed and volume control pressure limited.
		Page no. 318 line no. 34 Standard Medical Air Compressor.	Page no. 318 line no. 34 Would be read as:- Standard Medical Air Compressor of same make (no local compressor would be accepted)
		Page no. 318	Page no. 318 Following Specification added in present specification. <ul style="list-style-type: none"> Loops and waveforms coloured screen required. Volume guarantee and pressure support mode are also required. Voltage stabilizer ISI marked for the above
			<ul style="list-style-type: none"> Silicon reusable wire heated Hose / tubing set for neonatal patients (required 2 sets).





21

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
			<ul style="list-style-type: none"> Test lung with variable compliance and resistance (required 2 test lungs)
PED 6	Bubble CPAP machine	Page no-319 line no – 8 Heavy duty Air Compressor unit along with micro filters provides continuous clean air.	Page no-319 line no – 8 Would be read as :-Heavy duty Air Compressor unit along with micro filters provides continuous clean air of same make(no local compressor would be accepted)
		Page no. 319	Page no. 319 Following Specification added in present specification. <ul style="list-style-type: none"> Voltage stabilizer ISI marked for the above Silicon reusable Hose / tubing set for neonatal patients (required 2 sets). Test lung with variable compliance and resistance (required 2 test lungs)
PED 7	High frequency ventilator	Page no-319 line no – 39 Should have in built rechargeable battery back up for 45-60 minutes operation; Battery life-10 years.	Page no-319 line no – 39 Should have in built rechargeable battery back up for 45-60 minutes operation.
		Page no-319 line no – 39 One Re-usable patient Circuit and two disposable circuits to be supplied. - Please quote the prices of both types of Patient Circuits separately.	Page no-319 line no – 39 Would be read as :-Two Re-usable patient Circuit. Following Specification added in present specification. <ul style="list-style-type: none"> Voltage stabilizer ISI marked for the above





22

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
Pathology Department			
PAT3	Flow cytometer-	Page no 325-326 point 9 The system should have octagon shaped collection optics for enhanced sensitivity.	Page no 325-326 point 9 Above point deleted.
		Page no 325-326 point 11 Signal processing 24-bit A/D conversion	Page no 325-326 point 11 Would be read as Signal processing 18-24-bit A/D conversion system should be for in vitro diagnostic use.
PAT 9	Genetic lab set up	Page no 327-328 point 13 13.Optimum reaction volumes for each application – 5 to 100 µl. The vendor should specify minimum working volume if lower than 5 µl. Preference would be given to those platforms that minimize reaction volumes to 2 µl or less.	Page no 327-328 point 13 would be read as Optimum reaction volume for each application 5 – 100 µl.
PAT 11	A compact HPLC unit with inbuilt operating modules	Page no 328-329 point - I line no. 8	Page no 328-329 point - I line no. 8
		Flow extendable to 45.00 ml/min along with extended flow kit	Above point deleted.
		Page no 328-329 point - I line no. 9 Option for use under extended flow rate.	Page no 328-329 point - I line no. 9 Above point deleted.

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CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
PAT 29	Research microscope with Epi-fluorescence attachment with microscopic digital camera	Page no 334-335 point no. 12 • Mercury Lamp socket for HBO 100 W, Starter unit HBO 100W.	Page no 334-335 point no. 12 Point should be read as LED lamp
PHARMACOLOGY DEPARTMENT			
PHR 6	UV spectrophotometer	PAGE NO. 350 LINE 1 "Band pass – 2 nm "	PAGE NO. 350 Line 1 Would be read as "Band pass-1nm"
		PAGE NO. 350	PAGE NO. 350 Following Specification added in present specification Added :- Stray light 0.01% torr
PHR 3	Noninvasive BP measurement assembly	PAGE NO. 347 Line 1 Data LCD Display	PAGE NO. 347 Line 1 "Data LCD Display" deleted
Physiology Department			
PHY12	Vibratory Perception Threshold (VPT) analysis System	Page no. 359	Following point added in the present specification Temperature transducer for small fibers hot & cold perception. Transducer range : 0 to 50° C
PHY17	Audio & Visual, GSR Bio feedback device	Page no. 360 Display : 17 Light steps on screen (green 11,yellow 1,red 5),GSR balanced Value and	Page no. 360 Present specification deleted and the specification should be read as :-

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CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		also the changes in the GSR value in K-ohm is displayed on LCD panel meter SOUND: Melodic variation in 17 steps SENSITIVITY : 3 steps 2%,5%&10% POWER: 220 V AC, 50Hz DIMENSIONS: 420X210X125mm OUTPUT: provided for Recorder, Oscilloscope Computer etc. ACCESSORIES: Set of silver electrodes Headphones	Pc based biofeedback apparatus should be able to record following parameters Heart rate, GSR, Temperature, EEG, EMG, HRV, protocol therapy to ADHD, depression, relax, alpha, muscle relaxing etc. It should have two displays support one for trainer and other for trainee.
PHY18	Physiograph 3 channel Physiograph	Page no. 360 line no. - 1 Digital Student Physiograph III Chnl. (II+I) with Time & Event Channel and Stimulator. (9 speed chart drive) Page no. 360-61 line no. 7 Jelly, Straps, III pin Junction Box, EMG Leeds, EEG Page no. 360-61 line no. 9-10 Potential, Ink writing pen and Chart Paper Z fold 250 folds (10 packets) with Data Acquisition system (Digital Interface to convert Physiograph recordings to a computer) and without computer	Page no. 360 line no. 1 Word "(9 speed chart drive)" deleted. Page no. 360-61 line no. 7 Words " III pin Junction Box" deleted. Page no. 360-61 line no. 9-10 Line 9 -10 deleted. Following points added in the present specification.



CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
			<ul style="list-style-type: none"> Software controlled variable sampling rate above 300 Khz with 24 bit ADC resolution. Online ECG, cardiac axis & wireless HRV analysis. Constant - current stimulatyor with output current : 0 - 20 mA in 0.1 mA steps and pulse duration : 50 - 200 µs (software - selectable). Date acquisition software should have step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications. Also should have sample data for human & animal experiments for demonstrating to the students. Compatible PC.
PHY29	Pulmonary Function Test Unit	Page no. 362 line no. 6 Complete Integration with all COSMED PFT/CPET Products	Page no. 362 line no. 6 Word "COSMED" deleted.
PHY30	Polygraph with digital output with printer and monitor.	Page no. 364 (1) DC Amplifier with facility to record GSR (2) AC Amplifier recording ECG, phonocardiography, pulse, and respiration (Free channel with DC amplifier record from strain gauze Transducer, pressured gauze transducer, volume transducer ,drop	Page no. 364 Following points added in the present specification. <ul style="list-style-type: none"> Four input channel with ability to record and analyze up to 32 channel Software controlled variable sampling rate of 400KHz with 24 bit ADC resolution Online and offline analysis for ECG, cardiac



CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		counters, one free channel to record time & stimulation markers .Electronic squire web & pulse stimulation for Galvanic & faradic stimulation one channel AC to record EMG.)	axis, HRV, Peak Analysis, Stiffness index etc <ul style="list-style-type: none"> • Wireless Heart rate kit for Human • Reflex kit with goniometer for human tendon jerk, reflex and nerve stimulation experiments • Data export options like, IGOR, MATLAB, Excel, PPT, Graph pad prism, QuickTime, Wav, Text etc
Physiotherapy			
PHT 20	Pneumatic compression therapy system	Page no. 369 Working pressure range : 20 ~ 200mmHg, Time range (Digital type) : 0 ~ 89minutes ,Display : Graphic LCD Compression modes : 4 modes ,Massage compression mode, Squeezing compression mode, Whole compression mode etc .Hold time range: 0 ~ 6 seconds, Interval time range: 0 ~ 19second 6 chamber-digital pressure gauge, 3 operating modes., 1Arm cuff and 1 leg cuff standard, pressure range 25 to 200 mm Hg, time range 0 to 99 mins, pressing speed 0.8 RPM to 3 RPM, Pressure air sensor : Built in Speed control range: 1 level ~ 5 level, IEC standard : International standard ,Protection class : International standard	Page no. 369 Item code PHT 20 with specification deleted





27

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
Pulmonary medicine Department			
PUL 8	Arterial Blood gas machine	Page no. 381 line no. 2 Sample Size Syringe:95 µL Capillary:70 µL	Page no. 381 line no. 2 would be read as Sample size : 70 µL, should be upto 100 µL Page no. 381 Added in the present specification. Parameters provided should include pH, pCO ₂ , pO ₂ , HCO ₃ , Base Excess, Na ⁺ , K ⁺ , Cl ⁻ , SaO ₂ , PaO ₂ /FiO ₂ ratio hemoglobin.
SURGERY DEPARTMENT			
SUR11	General laparotomy set	Page no. 387-388	Page no. 387-388 Following Specification added in present specification
SUR24	LED CEILING LIGHT WITH COVER (WHITE LIGHT) with camera for recording	Page no. 391 line no. 4 LED Service Life 50000 Hours.	Quality assurance CE certified Page no. 391 line no. 4 Would be read as LED Service life: > 30,000 hours
		Page no. 391 line no. 3 Illumination Intensity 140000 Lux.	Page no. 391 line no. 3 Would be read as Illumination intensity: It should be 1,40,000 to





28

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
			1,60,000
		Page no. 391 line no. 6 Colour Rendering Index 90 Ra	Page no. 391 line no. 6 Would be read as Colour Rendering Index : It should 90 Ra or greater than 90 Ra.
		Page no. 391	Following Specification added in present specification No. of domes (2)
SUR26	Surgical staplers and reloads	Page no.392	Page no. 392 SUR 26 with specification deleted.
SUR28	Holmium lasers Watts	Page no. 393 line 4 It should have power output of 20 watts.	Page no. 393 line 4 would be read as It should have power output of 15-20 watts.
SUR35	Laparoscopic set	Page no. 397 line no. 6	Page no. 397 line no. 6
		HARMONIC SCALPEL	HARMONIC SCALPEL is deleted
SUR39	Plasma sterilizer	Page no. 404 line no. 12 Should be CE Marked, ISO: 9001, FDA approved.	Page no. 404 line no. 12 Would be read as :- Should be CE Marked / ISO: 9001/ FDA approved.
		Page no. 404 line no. 14 Capacity of chamber not more than 33 liters	Page no. 404 line no. 14 Would be read as :- Capacity of chamber should be less than 30 liters

29

CORRIGENDUM

Tender no- CPC/EQUIPMENTS/13-14/12 SUPPLY OF EQUIPMENTS

Item code	Item name	Present Specification	Modification / Amendment / Addition
		Page no. 404-405 line no. 27 Dimensions: 500mm (W) x 700mm (H) x 780mm (L)	Page no. 404-405 line no. 27 Would be read as:- Dimensions: (L). It should be minimum 500mm (W) x 700mm (H) x 780mm
		Page no. 404-405 line no. 28 Weight not more than 140kg	Page no. 404-405 line no. 28 Weight not more than 140kg is deleted

30