



**SOCIETY FOR TRIPURA MEDICAL COLLEGE &  
Dr. B R AMBEDKAR MEMORIAL TEACHING HOSPITAL**  
(Registered under Societies Registration Act, 1860 having Registration No.5770 of 2009)  
Hapania, West Tripura

No.F.5 (PUR-105)/SFTMC/2016-17/Charts& Models/194

Date: 25 February, 2016

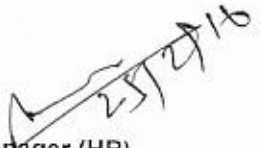
**NOTICE INVITIND TENDER**

Sealed quotation is hereby invited in separate plain paper for supply of following Charts (Thick Laminated on both side with Loop for Wall Hanging, size – 26" x 20") & Models from the Reputed Manufacturer/ Authorized Dealer/ Authorized Distributor for use in different Department of Society for TMC & Dr. BRAM Teaching Hospital. The sealed quotations will be received in the chamber of the General Manager (HR) up to 3.0 PM of 14<sup>th</sup> March, 2016. For details the interested quotationers may contact purchase section of the Society. They may also visit [www.tmc.nic.in](http://www.tmc.nic.in)

Charts & Models of different Department as mentioned in Annexure I

**Terms & Conditions**

1. Copies of income a) Tax Certificate or copy of PAN Card, b) Certificate for sole ownership/ partnership, c) Authorization of dealership in case of distributor (Attested Copy), d) Trade License e) Vat Registration Certificate f) PTC Certificate are to be submitted along with Tender.
2. Rs. 10,000/- is to be deposited as an Earnest Money Deposit in the form of Demand Draft on any Nationalized Bank in the name of SFTMC & Dr. BRAM Teaching Hospital, Hapania along with quotation. This Earnest Money will be kept as security deposit for successful bidder and for unsuccessful bidder this EMD will be released as soon as rate is finalized.
3. Rate should be clearly typed both in words & figures against each item & should be quoted in currency. Brand name should be mentioned in the quotation, if any.
4. F.O.R Door Delivery & Delivery period should be mentioned.
5. 1% penalty will be charged for every week of delay or a part thereof for maximum a period of 15 (fifteen) days after stipulated date of supply.
6. No Price hike will be entertained.
7. Society reserves the right to cancel any quotation even of the lowest one without showing any reason.
8. A firm may quote rates for all items or any of the items.

  
General Manager (HR)  
Society for TMC & Dr. BRAM Teaching Hospital  
Hapania, Agartala, Tripura (west)

The department wise lists of charts are mentioned below which are required for taking necessary action for procurement.

Sl.No.	Name of Department	Charts required depicting	Requirement of Model
1.	<b>Dermatology</b>	<ul style="list-style-type: none"> <li>i) The Lymphatic system</li> <li>ii) The skin</li> <li>iii) The Female reproductive system.</li> <li>iv) The Male reproductive system</li> <li>v) Female Reproductive system(Anterior&amp; Posterior)</li> <li>vi) The female external Genitiles (Anterior &amp; Posterior)</li> </ul>	
2.	<b>ENT</b>	<ul style="list-style-type: none"> <li>i) The Ear, Nose &amp; Throat.</li> <li>ii) The Ear Organ of hearing &amp; Balance.</li> <li>iii) Pharynx &amp; Larynx</li> <li>iv) Anatomy of the inner ear</li> <li>v) Temporomandibular joint (TMJ)</li> <li>vi) Understanding Middle Ear Condition.</li> </ul>	
3.	<b>Dentistry</b>	<ul style="list-style-type: none"> <li>i) The Teeth</li> <li>ii) The disorder of the Teeth and Jaw</li> <li>iii) The Anatomy of the Teeth.</li> <li>iv) A. Estimation of Age-Age of Eruption of Teeth. B. International System of Numbering Teeth.</li> <li>v) Landmark of the oral cavity.</li> <li>vi) Landmark of the Tongue and variants of normal</li> <li>vii) Landmark of the Periodontium</li> <li>viii) Oral conditions affecting infants &amp; Child Part 1 &amp; 2.</li> <li>ix) Alternations in tooth Morphology.</li> </ul>	
4.	<b>Radiology</b>	<ul style="list-style-type: none"> <li>i)Fetal Circulation</li> </ul>	
5.	<b>Pathology</b>	<ul style="list-style-type: none"> <li>i) Ventricular septal defect: Membranous Type.</li> <li>ii) Patent Ductus Arteriosus</li> <li>iii) Atrial Septal Defects.</li> <li>iv) Atrioventricular Septal Defects.</li> <li>v) Tetralogy of fallot.</li> <li>vi) Transposition great vessels.</li> <li>vii) Cell adaptation of stress</li> <li>viii) Thrombosis, embolism</li> <li>ix) Shock</li> <li>x) Carcinogenesis</li> <li>xi) Oedema</li> <li>xii) Mechanism of Genetics</li> <li>xiii) Hypersensitive reaction.</li> <li>xiv) Neoplasia</li> <li>xv) Anticoagulation</li> <li>xvi) Practical Procedures</li>   <li>xvii) Haemopoiesis-physiology &amp; Pathgology.</li> <li>xviii) Normal Blood Cell I-Red Cells.</li> <li>xix) Normal Blood Cell II-Granulocytes, Monocytes &amp; the Reticuloendothelial system.</li> <li>xx) Normal Blood Cell III-Lymphocytes</li> <li>xxi) Lymph Nodes, the Lymphatic System &amp; the Spleen</li> </ul>	

		<ul style="list-style-type: none"> <li>xxii) Megaloblastic Anaemia I-vitamin B<sub>12</sub> &amp; Folate Deficiency Biochemical Basis, Causes</li> <li>xxiii) Disorder of coagulation I-inherited.</li> <li>xxiv) Haematological Malignancy-Basic Mechanism.</li> <li>xxv) Multiple Myelomma.</li> <li>xxvi) Metastatic Heart Tumors</li> <li>xxvii) Diseases of Pericardium</li> <li>xxviii) Adhesive Pericarditis.</li> <li>xxix) Nonpenetrating and penetrating Heart wounds.</li> <li>xxx) Chronic Obstructive pulmonary Disease.</li> <li>xxxi) Emphysema.</li> <li>xxxii) Asthma</li> <li>xxxiii) Adult Respiratory Distress Syndrome.</li> <li>xxxiv) Pulmonary Embolism</li> <li>xxxv) Lung Cancer</li> <li>xxxvi) Metastatic Malignancy to the lung</li> <li>xxxvii) Esophageal Cancer: Squamous cell Carcinoma</li> <li>xxxviii) Carcinomas of the stomach</li> <li>xxxix) Diverticulosis of the Colon</li> <li>xl) Obstructive Uropathy.</li> <li>xli) Tuberculosis of Urinary Tract</li> <li>xliv) Hermaphroditism</li> </ul>	
6	<b>Surgery</b>	<ul style="list-style-type: none"> <li>i) Udyphagia.</li> <li>ii) Breast Lump</li> <li>iii) Nipple Discharge</li> <li>iv) Rectal Bleeding</li> <li>v) Groin Swelling</li> <li>vi) Acute Warm Painfull Leg.</li> <li>vii) Acute 'Cold' leg</li> <li>viii) Gallstone.</li> <li>ix) Congenital Anomalies-Congenital Valves, Epispadia &amp; Hypospasia</li> </ul>	
7.	<b>Microbiology</b>	<ul style="list-style-type: none"> <li>i) The Laboratory Investigation of infection.</li> <li>ii) Resistance of Antivectrial Agents.</li> <li>iii) Hospital Acquired Infection.</li> <li>iv) Control of Infection in Hospital.</li> <li>v) Control of infection in the Community.</li> <li>vi) Emerging Infection.</li> <li>vii) Bacterial Cell wall</li> <li>viii) Arrangement of Flagella &amp; Capsule</li> <li>ix) Morphological Events in Sporulation</li> <li>x) Streptococcal Infection.</li> <li>xi) Mycobacteria</li> <li>xii) Non-sporing anaerobic infection.</li> <li>xiii) Vibrio, camphylobacter helicobacter. Environmental pathogens Pseudomonas, Burkholderia &amp; Legionella</li> <li>xv) Chlamydia, Mycoplasma &amp; Rickettsia</li> <li>xvi) Classification &amp; Morphology of different fungi.</li> <li>xvii) Yeast infection.</li> </ul>	
8.	<b>Anatomy</b>	<ul style="list-style-type: none"> <li>i) The Trigeminal Nerve &amp; its Central Connection.</li> <li>ii) The Automatic Nervous System</li> <li>iii) Peripheral Nervous System Somatis Versus Splanchnic Nerves.</li> </ul>	i)Foetal skull = 03(three) Nos.

		<ul style="list-style-type: none"> <li>iv) Fetal Circulation</li> <li>v) The Muscular System</li> <li>vi) The Skeletal System</li> <li>vii) The vertebral system</li> <li>viii) The Nervous system</li> <li>ix) The Vascular System &amp; Viscera</li> <li>x) The Lymphatic System</li> <li>xi) The Human skull</li> <li>xii) The Respiratory System</li> <li>xiii) The Ear-Organ of the Hearing &amp; Balance</li> <li>xiv) Anatomy of the inner ear.</li> <li>xv) Temporomandibular joint</li> </ul>	
9.	<b>Orthopaedics</b>	<ul style="list-style-type: none"> <li>i) The Human Spine Disorders</li> <li>ii) Knee Injuries</li> <li>iii) Anatomy &amp; Injuries of Foot &amp; Ankle</li> <li>iv) Anatomy &amp; Injuries of Hand &amp; Wrist</li> <li>v) Anatomy &amp; Injuries of Hip</li> <li>vi) Classification of Fractures of Long Bones – Malleolar Segments</li> </ul>	
10.	<b>Immunology</b>	<ul style="list-style-type: none"> <li>i) Evolution of Immune Mechanism</li> <li>ii) Complement</li> <li>iii) Phagocytosis</li> <li>iv) Evolution of Recognition of Molecules – the Immunoglobulin superfamily</li> <li>v) Immune Complexes Complement &amp; Disease</li> <li>vi) Cell-mediated Immune Responses</li> <li>vii) Allergy &amp; Anaphylaxis</li> </ul>	
11.	<b>Ophthalmology</b>	<ul style="list-style-type: none"> <li>i) Taking the History &amp; Recording the Findings</li> <li>ii) Visual Acuity in Adults</li> <li>iii) Examination of Visual Fields</li> <li>iv) Other Visual Functions</li> <li>v) Glasses, contact Lenses &amp; Low vision Aids</li> <li>vi) Visual Acuity in Children</li> </ul>	
12.	<b>Neuroscience</b>	<ul style="list-style-type: none"> <li>i) Anatomy of Brainstem</li> <li>ii) Cranial Nerves</li> <li>iii) The Organization of Cerebral Cortex</li> <li>iv) Blood Supply of Central Nervous Systems</li> <li>v) The Visual System I: the Eye &amp; Retina</li> <li>vi) The Visual System II: The Visual Pathways &amp; Subcortical Visual areas</li> <li>vii) The Visual System III: The Visual Cortical areas</li> <li>viii) Eye movement</li> <li>ix) The Hypothalamus</li> <li>x) The Reticular formation &amp; Sleep</li> <li>xi) The limbic System, Long Term Potentiation &amp; Memory</li> <li>xii) Examination of Nervous System</li> </ul>	
13.	<b>Psychiatry</b>	<ul style="list-style-type: none"> <li>i) Diagnosis &amp; Classification of Psychiatry</li> <li>ii) Schizophrenia: Phenomenology &amp; Aetiology</li> <li>iii) Depression</li> <li>iv) Suicide &amp; Deliberate Self – Harm (DSH)</li> <li>v) Stress Reaction (Including bereavement)</li> <li>vi) Substance Misuse</li> <li>vii) Alcohol Abuse &amp; Dependence</li> <li>viii) Acute Confusional States (Delirium)</li> </ul>	

		ix) Learning Disability (Mental retardation)	
14.	<b>Medicine</b>	<ul style="list-style-type: none"> <li>i) Cardiovascular Disease</li> <li>ii) Heart Disease</li> <li>iii) Understanding HIV &amp; AIDS</li> <li>iv) Understanding Hypertension</li> <li>v) Danger of Smoking</li>   <li>vi) Understanding Diabetes</li> <li>vii) Understanding Cholesterol</li> <li>viii) Understanding Stroke</li> <li>ix) Understanding Asthma</li> <li>x) Understanding Epilepsy</li> <li>xi) Management of Hypertension</li> <li>xii) Understanding Hepatitis</li> <li>xiii) Heart Failure</li> <li>xiv) Therapy of selected Diseases. Angina pectoris</li> <li>xv) Chronic Obstructive Pulmonary Diseases</li> <li>xvi) Erythropoietin &amp; Anemia in Renal Disease</li> <li>xvii) Acute renal failure: Pathophysiology</li> <li>xviii) Chronic renal failure: clinical complication &amp; their management</li> <li>xix) Urinary tract infection</li> <li>xx) Cirrhosis &amp; chronic liver disease</li> </ul>	
15.	<b>Respiratory</b>	<ul style="list-style-type: none"> <li>i) Structure of the respiratory system: Lungs, Airways &amp; Dead space</li> <li>ii) The Thoracic cage &amp; respiratory muscles</li> <li>iii) Pulmonary circulation and anatomical right – to – left shunts</li> <li>iv) Development of the respiratory system and birth</li> <li>v) Carriage of oxygen</li> <li>vi) Control of breathing I: neural mechanism</li> <li>vii) Control of breathing II: Chemical mechanism</li> <li>viii) Venous thromboembolism &amp; pulmonary embolism</li> <li>ix) Interstitial lungs disease</li> <li>x) Pleural disease</li> <li>xi) Pneumothorax</li> <li>xii) Lung defense mechanism and immunology</li> <li>xiii) Chest imaging and bronchoscopy</li> <li>xiv) Asthma : Pathophysiology</li> <li>xv) Asthma : Treatment</li> <li>xvi) Chronic obstructive pulmonary disease</li> <li>xvii) Pneumonia</li> <li>xviii) Pulmonary tuberculosis</li> <li>xix) Acute respiratory distress syndrome (ARDS)</li> <li>xx) Lung cancer</li> <li>xxi) Sleep – disordered breathing</li> <li>xxii) Mechanical ventilation</li> </ul>	
16	<b>Obsestetric &amp; Gynaecology</b>	<ul style="list-style-type: none"> <li>i) The female reproductive system</li> <li>ii) Body surface area, body weight</li> <li>iii) Height of fundus of the uterus at different periods of pregnancy</li> <li>iv) Placenta praevia different stages</li> <li>v) Breast feeding and human lactation (part 1 &amp; 2)</li> <li>vi) Self breast examination</li> </ul>	<ul style="list-style-type: none"> <li>1. Foetal skull (Model :- ZX-1201)</li> <li>2. Articulated pelvis ( Male)</li> <li>3. Articulated pelvis (Female)</li> <li>4. Dummy foetus (New</li> </ul>

		Feeding schedule of pre-term infants and thumb rules for growth viii) Stages of labour ( First, Second & Third stage) ix) Congenital anomalies x) Placenta previa and abruptio placentae	Born Baby) Birth demonstration model (Model :- = Each 1(one) No.
17.	<b>Human Physiology</b>	i) Swallowing Each ii) Resting potential iii) The action potential iv) Propagation of the nerve impulse v) Juxtaglomerular apparatus Each vi) Urine formation vii) Cardiac cycle viii) Haemostasis and blood coagulation  ix) Pituitary, Ovarian and Endometrial x) Stretch reflexes xi) The muscles spindle	i)Eye with orbit (Model :- XC-316B) = 1(one) No.
18.	<b>Biochemistry</b>	i) Chemical bond ii) Molecular structure iii) Bio molecules iv) Glycoproteins & glycosaminoglycans v) Phospholipids & glycolipids vi) Enzymes classification vii) Enzymes catalysis viii) Protein folding ix) Molecular model : DNA, tRNA x) Hormonal control xi) Photosynthesis : light reaction xii) Photosynthesis : dark reaction xiii) Degradation of fatty acid: $\beta$ -oxidation xiv) Transamination and demination xv) Diabetes mellitus xvi) Structure of cells xvii) Lipoproteins xviii) Antibody biosynthesis Each 1100/- xix) Collagens Protein folding	
19	<b>Forensic Medicine &amp; Toxicology</b>	i) Difference between coroner's court and judicial magistrate's court ii) Difference between professional negligence and professional misconduct iii) Methods for determining the extent of a burn iv) Symptoms and signs of acute alcohol poisoning v) Treatment of some common poisons (Part 1,2,3,4,5...Set) vi) Differences between bruise and congestion vii) Difference between true insanity and feigned insanity viii) Racial difference in skull ix) Difference between hanging and strangulation x) <b>Forensic Pictures on Board</b> a. Bruise b. Abrasion c. Gun shot d. Post mortem staining e. Physiology of rigor mortis f. Fire arm injury g. Strychnos nux vomica h. Fracture skull i. Subarachnoid hematoma j. Subdural hematoma	

20.	<b>Community Medicine</b>	<ul style="list-style-type: none"> <li>i) Rabies</li> <li>ii) Japanese encephalitis</li> <li>iii) Tetanus</li> <li>iv) Balance diet and receipts for normal</li> <li>v) Pregnant and lactating women Part 1 &amp; 2</li> <li>vi) Immunization schedule</li> <li>vii) Tuberculosis Part 1 &amp; 2</li> <li>viii) Breast feeding Part 1 &amp; 2</li> <li>ix) Nutrition during pregnancy</li> <li>x) Anemia</li> <li>xi) Diabetes mellitus</li> <li>xii) Obesity .... Part 1 &amp; 2</li> <li>xiii) Protein, energy malnutrition</li> <li>xiv) Excreta / Sewage disposal</li> <li>xv) Hospital waste management ..... Part 1 &amp; 2</li> <li>xvi) Revised national tuberculosis control programme</li> <li>xvii) Sexuality transmitted disease</li> <li>xviii) Hospital acquired infection</li> <li>xix) Biomedical waste (Handling &amp; Management)</li>   <li>xx) Diagnostic algorithm of TB in RNTCP (by quality sputum microscope)</li> <li>xxi) National programme for prevention and control of diabetes</li> <li>xxii) National aids control programme</li> <li>xxiii) National programme for control of blindness</li> <li>xxiv) Iodine deficiency disorders programmes</li> <li>xxv) National rural health mission</li> <li>xxvi) Reproductive and child health programme</li> <li>xxvii) Integrated disease surveillance project</li> <li>xxviii) Integrated child development programme</li> <li>xxix) AIDS symptoms and prevention</li> <li>xxx) Calorie Values of common Food</li> <li>xxxi) Vitamins Function, source &amp; Deficiency Part 1 &amp; 2</li> <li>xxxii) Recommended Dietary Allowances</li> <li>xxxiii) Food values of principal Indian types of Food &amp; Vegetable</li> <li>xxxiv) Immunization Schedule According to Age of the Child</li> <li>xxxv) Feeding Schedule of pre-term infants</li> <li>xxxvi) Balance Diets &amp; Recipes for Pre-School Children ( 1-3 Yrs &amp; 4-6 Years)</li> <li>xxxvii) ( High Cost, Moderate cost &amp; low cost)</li> <li>xxxviii) Balance Diets for Children &amp; Adolescents (7-18 Years)</li> <li>xxxix) ( High Cost, Moderate cost &amp; low cost)</li> <li>xl) Normal Height – Weight Table (Indian)</li> </ul>	i) Food pyramid = 1(one) No.
21.	<b>Microbiology</b>	<ul style="list-style-type: none"> <li>i) HIV &amp; AIDS</li> <li>ii) Life Cycle of Bacteriophage</li> <li>iii) Malaria Leishmaniaiasis &amp; Trypanosomiasis</li> <li>iv) Gut Helminthes</li> <li>v) Tissue Helminthes</li> </ul>	
22.	<b>Pharmacology</b>	<ul style="list-style-type: none"> <li>i) Anti hypertensive drugs and site of action.</li> <li>ii) Autonomous nervous system</li> <li>iii) Site of action of sympathomimetic drugs.</li> <li>iv) Site of action of parasympathomimetic drugs.</li> <li>v) α Anti muscarinic drugs.</li> </ul>	<ul style="list-style-type: none"> <li>i) Responses of effectors organs to autonomic nervous system = 1(one) No.</li> <li>ii) Giant eye model</li> </ul>

	<ul style="list-style-type: none"><li>vi) <math>\beta</math> Adrenergic blocking agents.</li><li>vii) Drugs acting on heart.</li><li>viii) Responses of effectors organs autonomic nervous system</li><li>ix) Site of action of diuretics</li><li>x) Neural pathways of vomiting and site of action of emetic agents.</li><li>xi) Mechanism of vomiting and site of action of antimetic agents.</li><li>xii) Site of action of oral contraceptives</li><li>xiii) Mechanism and site of action of chermotherapeutic agents for neoplastic diseases.</li></ul>	(Model :- XC-316) =1(one) No.
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