

Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words "*or at least equivalent.*" References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

Technical Specifications

Item No.	Specification	Statement of Compliance
		<p><i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
1	<p>Prepared Slides – Parasitology WITH HARD PLASTIC CASE (properly labeled slides)</p> <p>- INCLUDES:</p> <ul style="list-style-type: none"> o Entamoeba coli, cyst, wm o Entamoeba coli, troph, wm o Endolimax nana, cysts, wm o Entamoeba histolytica, cyst,wm o Giardia lamblia, cysts, wm o Trichomonas vaginalis, sm o Trypanosoma cruzi, blood, wm o Leishmania tropica major, sm o Balantidium coli, cysts, wm o Balantidium coli, trophs, wm o Plasmodium falciparum, smear o Ascaris lumbricoides ova, wm o Enterobius vermicularis, wm o Ancylostoma caninum female wm o Necator americanus ova, wm o Trichinella spiralis, female, wm 	

male

<ul style="list-style-type: none"> <input type="checkbox"/> Diphylobothrium ova, wm <input type="checkbox"/> Taenia saginata, mature, cs <input type="checkbox"/> Dipylidium caninum, comp, wm <input type="checkbox"/> Trichuris trichiura – adult worm (female) <input type="checkbox"/> Trichuris trichiura – ovum <input type="checkbox"/> Trichinella spiralis – ova <input type="checkbox"/> Enterobius vermicularis – ova <input type="checkbox"/> Fasciolopsis buski ova <input type="checkbox"/> Clonorchis sinensis ova <input type="checkbox"/> Schistosoma mansoni, male <input type="checkbox"/> Schistosoma mansoni female <input type="checkbox"/> Diphylobothrium latum ova <input type="checkbox"/> Taenia saginata ova <input type="checkbox"/> Taenia pisiformis <input type="checkbox"/> Iodamoeba butschlii, trophozoite <input type="checkbox"/> Chilomastix mesnili, Trophozoite <input type="checkbox"/> Giardia lamblia, Trophozoite <input type="checkbox"/> Trypanosoma cruzi <input type="checkbox"/> Leishmania (donovani), Trypomastigote <input type="checkbox"/> Ceratium <input type="checkbox"/> Section of the liver infected with Schistosoma OR Leishmania donovani, promastigotes, smear <input type="checkbox"/> Section of the lung infected with Schistosoma OR Leishmania donovani, amastigote, causes kala-azar, smear <input type="checkbox"/> Trichomonas vaginalis, smear <input type="checkbox"/> Entamoeba histolytica cyst w.m. <input type="checkbox"/> Entamoeba histolytica trophozoites smear <input type="checkbox"/> Plasmodium vivax blood smear <input type="checkbox"/> Toxoplasma gondii smear with parasites <input type="checkbox"/> Eggs of schistosoma japonicum w.m. <input type="checkbox"/> Cercaria of schistosoma japonicum w.m. <input type="checkbox"/> Miracidium of schistosoma japonicum w.m. <input type="checkbox"/> Schistosoma japonicum, adult male w.m. <input type="checkbox"/> Schistosoma japonicum, adult female w.m. <input type="checkbox"/> Schistosoma japonicum, adult female in copula w.m. <input type="checkbox"/> Taenia solium, ova in faeces w.m. <input type="checkbox"/> Taenia solium, scolex w.m. 	
<p>Prepared Slides – Histology WITH HARD PLASTIC CASE (properly labeled slides)</p> <p>-INCLUDES:</p> <p>2 <input type="checkbox"/> A. Epithelial tissue</p> <ul style="list-style-type: none"> <input type="checkbox"/> Simple columnar epithelium of Human sec. <input type="checkbox"/> Simple cuboidal epithelium of Human sec. <input type="checkbox"/> Pseudostratified ciliated columnar epithelium of Human sec. <input type="checkbox"/> Simple columnar ciliated epithelium of Human sec. 	

- o Stratified squamous epithelium of Human sec.
- o Epithelium cells of cavitas oris of Human W.M.

B. Connective tissue

- o Blood of Human smear (HE)
- o Blood of Human smear (stained with Giemsa)
- o Blood of Human A.B.O. smear
- o Loose connective tissue of Human sec.
- o Dense connective tissue of Human sec.
- o Adipose tissue of Human sec.
- o Hyaline cartilage of Human sec.
- o Fibrous cartilage of Human sec.
- o Elastic cartilage of Human sec.
- o Finger of Human L.S.
- o Human bone grinding W.M.
- o Hard bone of Human T.S. (thionin-picric acid staining)
- o Hard bone of Human L.S. (thionin-picric acid staining)
- o Human toe bone l.s.
- o Human red bone marrow smear.

C. Muscular tissue

- o Smooth muscle isolated of Human W.M.
- o Skeletal muscle of Human T.S. and L.S. (hematoxylin staining)
- o Skeletal muscle of Human T.S. and L.S. (H.E. Staining)
- o Skeletal muscle isolated of Human W.M.
- o Cardiac muscle of Human sec. (hematoxylin staining)

D. Nervous system ✓

- o Spinal cord of Human T.S.
- o Spinal ganglion of Human sec.
- o Tactile corpuscle of Human sec.
- o Lamellar corpuscle of Human sec.
- o Cerebrum of Human sec. (silver staining)
- o Cerebrum of Human sec. (HE)
- o Cerebellum of Human sec. (silver staining)
- o Cerebellum of Human sec. (HE)

E. Circulation system

- o Heart of Human sec.
- o Cardiac muscle of Human sec.
- o Cardiac valve of Human sec.
- o Human Medium-sized artery and vein sec.
- o Large artery of Human sec.
- o Large vein of Human sec.

<p>o Human Heart sec. (showing Purkinje cell)</p> <p>F. Immune system</p> <ul style="list-style-type: none"> o Lymphoid node of Human sec. o Spleen of Human sec. o Thymus of Human sec. o Palatine tonsil of Human sec. <p>G. Endocrine system</p> <ul style="list-style-type: none"> o Thyroid gland of Human sec. o Parathyroid gland of Human sec. o Adrenal gland of Human sec. o Human Pituitary sec. <p>H. Digestive system</p> <ul style="list-style-type: none"> o Liver of Human sec. (show bile canaliculus of liver) o Human tooth l.s. o Tongue of Human L.S. (show internal structure) o Oesophagus of Human T.S. o Stomach of Human T.S. o Gastric section of stomach of Human sec. o Small intestine of Human T.S. o Small intestine of Human L.S. o Jejunum of Human sec. o Duodenum of Human sec. o Ileum of Human sec. o Colon of Human sec. o Vermiform appendix of Human sec. o Large intestinal of Human L.S. o Large intestinal of Human T.S. o Parotid gland of Human sec. o Submandibular gland of Human sec. o Salivary gland of Human sec. o Sublingual gland of Human sec. o Liver of Human sec. o Gall Bladder of Human sec. <p>I. Respiratory system</p> <ul style="list-style-type: none"> o Trachea of Human T.S. o Trachea of Human L.S. o Human Lung sec. o Epiglottic cartilage of Human sagittal section <p>J. Urinary system</p> <ul style="list-style-type: none"> o Urinary bladder of Human o Kidney of Human sec. o Ureter of Human T.S. o Kidney of Human through renal cortex T.S. 	
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<p>K. Genital system ✓</p> <ul style="list-style-type: none"> o Testis of Human sec. ✓ o Spermatozoon of Human smear. o Epididymis of Human sec. o Prostate of Human sec. o Ductus deferens of Human T.S. o Glandula vesiculosa of Human sec. o Penis of Human sec. (infant) o Human Uterus (proliferative phase) sec. o Human Uterus (secretory phase) sec. o Uterine cervix of Human sec. o Oviduct of Human T.S. o Ampulla of uterine tube of Human T.S. o Vagina of Human sec. o Human mammary gland (active phase) sec. o Placenta of Human sec. o Umbilical cord of Fetus T.S. o Human Corpus luteum sec. <p>L. Sensory organs</p> <ul style="list-style-type: none"> o Skin of Human (show hair follicle) sec. o Human Eyelid sec. o Human Eyeball sec. o Skin of Human (show stratum corneum) sec. o Hair of Human W.M. 	
<p>***** Nothing Follows*****</p>	

Additional Requirements:

The technical specification that shall be submitted by the Bidder shall include, among others:

1. *product specifications as supported by brochures or catalogues;*
2. *bidder's certification that it has after-sales;*
3. *bidder's certification for three (3) years warranty; and*
4. *certification from manufacturer/distributor that bidder is authorized dealer.*