



Republika ng Pilipinas

Lungsod Quezon

BIDS AND AWARDS COMMITTEE – GOODS AND SERVICES

Second Floor, Civic Center Building F, Quezon City Hall Complex, Elliptical Road, Quezon City
Tel. No. 8988-42-42 local 8709/8712



BID BULLETIN NO. 02-2023

Series of 2023

Notice is hereby given to all concerned bidders for the following Projects scheduled for Public Bidding on **January 30, 2023**, viz:

Project Title: SUPPLY AND DELIVERY OF VARIOUS NEWSPAPERS	
Project No.: QCPL-23-NEWSPAPERS-0107	
FROM	TO
Section VI. Schedule Of Requirements, and Section VII. Technical Specifications <ul style="list-style-type: none"> Item no. 9 - Balita Item no. 22 – Balita Mode of Payment: Quarterly 	Section VI. Schedule Of Requirements, and Section VII. Technical Specifications <ul style="list-style-type: none"> Item no. 9 – Abante Item no. 22 – Pilipino Star Ngayon Mode of Payment: Every two (2) months
Project Title: GANG CHAIR AND OTHERS	
Project No.: CTO-22-FURNITURE-1765	
FROM	TO
Section VI. Schedule of Requirements, and Section VII. Technical Specifications <ul style="list-style-type: none"> Item no. 1 - Gang Chair - 4 seater gang chair, 2,250mm (L) x 430mm (D) x 800mm (H); Backrest height: 520mm; Backrest width: 540mm. Item no. 7 – Executive Chair - executive high black leather chair, with tilt lock mechanism, 360 swivel function, pneumatic height adjustment, chrome steel 5 prong star base with nylon caster, black finish. 	Section VI. Schedule of Requirements, and Section VII. Technical Specifications <ul style="list-style-type: none"> Item no. 1 – Gang Chair - 4 seater steel gang chair, powder coated metal, 2,250mm (L) x 430mm (D) x 800mm (H); Backrest height: 520mm; Backrest width: 540mm. Item no. 7 - Executive Chair - executive high black genuine leather chair, with tilt lock mechanism, 360 swivel function, pneumatic height adjustment, chrome steel 5 prong star base with nylon caster, black finish.
Project Title: PROCUREMENT OF JANITORIAL SERVICES	
Project No.: CONSO-23-JS1-0115	
FROM	TO
COST DERIVATION I. LABOR COST <ul style="list-style-type: none"> D. Total Labor Cost (for all janitors for <u>12 months</u>) LINE 1: Janitorial Services for Various Health Centers, Lying-In Clinics and Laboratories Terms of Reference: 9.0 PROJECT STANDARDS & REQUIREMENTS) <ul style="list-style-type: none"> Keep designated service areas clean <u>twenty-four (24) hours a day five (5) days a week</u> for the project duration. LINE 2: Janitorial Services for Medical Facilities (HOPE 4) Located at Quezon City General Hospital	COST DERIVATION I. LABOR COST <ul style="list-style-type: none"> D. Total Labor Cost (for all janitors for <u>10 months</u>) LINE 1: Janitorial Services for Various Health Centers, Lying-In Clinics and Laboratories Terms of Reference: 9.0 PROJECT STANDARDS & REQUIREMENTS) <ul style="list-style-type: none"> Keep designated service areas clean <u>eight (8) hours a day five (5) days a week</u> for the project duration. LINE 2: Janitorial Services for Medical Facilities (HOPE 4) Located at Quezon City General Hospital



Section VII. Technical Specifications:

B.III.b RESOURCES

No. of janitors and supervisors

- Twenty two (22) janitors/janitress.

B.V.a OTHER FACTORS

- Filipino Citizen, between 18 and 55 years of age, for the twenty two (22) janitors and one (1) supervisor-not more than 50 years of age and at least a high school graduate.

LINE 3: Janitorial Services for Quezon City General Hospital

Section VI. Schedule Of Requirements, and Section VII. Technical Specifications

Item No.	Description	Unit of Issue	Quantity
	QUEZON CITY GENERAL HOSPITAL QCGH-23-JS1-0112		
1	PROVISION OF JANITORS/JANITRESS: Without night differential	person	41
2	With night differential	person	9
	CONSUMABLES		
	SEMI- ANNUALLY SUPPLIES		
3	Mop handle, with head screw type plastic handle	pc	40
4	Plastic dust pan with detachable head non-rigid	pc	40
5	Ceiling broom	pc	5
6	Hand brush, plastic	pc	20
7	Dust mop 5/24	pc	2
8	Plastic pail, 10 liters	pc	20
9	Push brush	pc	10
	QUARTERLY SUPPLIES		
10	Mop Head	pc	400
11	Soft Broom	pc	234
12	Stick Broom	pc	100
13	Toilet Bowl Cleaner, 100ml	pc	120
14	Hand Sprayer, 500ml	pc	120
15	Glass Squeegee	pc	80
16	Toilet Pump	pc	40
	MONTHLY SUPPLIES		
17	Powder soap	kilo	500
18	Round rug, 7" diameter	Kilo	60
19	Polymer Sealer Finish Wax	gal	100
20	Emulsion Wax	gal	40
21	Toilet Bowl Cleaner	gal	80
22	Disinfectant concentrate, anti-bacterial FDA approved	gal	60
23	Air Freshener	gal	50
24	Wax Stripper	gal	30
25	Forward general-purpose cleaner	gal	10
26	Carpet Stain Remover	gal	10
27	Glass and mirror cleaner	gal	10
28	Bleaching liquid	Cont.	10
29	Disposable Gloves	Pair	2,000
30	Deodorant Cake, 100 grams	Pcs	1800
31	Scrubbing pad nylon 95 x 150mm	pc	600
32	Scouring Pad	pc	400
33	Microfiber Cloth	pc	300
34	Steel Wool	Box	80
35	Stripping Pad 16"	pc	50
36	Polishing Pad #16	pc	50
37	Scrubbing Pad 16"	pc	50
38	Face Mask, 4-ply 50 pcs/ box	Box	30
39	Insect Killer, 500ml	can	100

Section VII. Technical Specifications:

B.III.b RESOURCES

No. of janitors and supervisors

- Eleven (11) janitors/janitress.

B.V.a OTHER FACTORS

- Filipino Citizen, between 18 and 55 years of age, for the eleven (11) janitors and one (1) supervisor-not more than 50 years of age and at least a high school graduate.

LINE 3: Janitorial Services for Quezon City General Hospital

Section VI. Schedule Of Requirements, and Section VII. Technical Specifications

Item No.	Description	Unit of Issue	Quantity
	QUEZON CITY GENERAL HOSPITAL QCGH-23-JS1-0112		
1	PROVISION OF JANITORS/JANITRESS: Without night differential	person	41
2	With night differential	person	9
	CONSUMABLES		
	SEMI- ANNUALLY SUPPLIES <u>(10 Months)</u>		
3	Mop handle, with head screw type plastic handle	pc	24
4	Plastic dust pan with detachable head non-rigid	pc	24
5	Ceiling broom	pc	3
6	Hand brush, plastic	pc	12
7	Dust mop 5/24	pc	1
8	Plastic pail, 10 liters	pc	12
9	Push brush	pc	6
	QUARTERLY SUPPLIES <u>(10 Months)</u>		
10	Mop Head	pc	120
11	Soft Broom	pc	70
12	Stick Broom	pc	30
13	Toilet Bowl Cleaner, 100ml	pc	36
14	Hand Sprayer, 500ml	pc	36
15	Glass Squeegee	pc	24
16	Toilet Pump	pc	12
	MONTHLY SUPPLIES <u>(10 Months)</u>		
17	Powder soap	kilo	50
18	Round rug, 7" diameter	Kilo	6
19	Polymer Sealer Finish Wax	gal	10
20	Emulsion Wax	gal	4
21	Toilet Bowl Cleaner	gal	8
22	Disinfectant concentrate, anti-bacterial FDA approved	gal	6
23	Air Freshener	gal	5
24	Wax Stripper	gal	3
25	Forward general-purpose cleaner	gal	1
26	Carpet Stain Remover	gal	1
27	Glass and mirror cleaner	gal	1
28	Bleaching liquid	Cont.	1
29	Disposable Gloves	Pair	200
30	Deodorant Cake, 100 grams	Pcs	180
31	Scrubbing pad nylon 95 x 150mm	pc	60
32	Scouring Pad	pc	40
33	Microfiber Cloth	pc	30
34	Steel Wool	Box	8
35	Stripping Pad 16"	pc	5
36	Polishing Pad #16	pc	5
37	Scrubbing Pad 16"	pc	5
38	Face Mask, 4-ply 50 pcs/ box	Box	3
39	Insect Killer, 500ml	can	10

40	Furniture Polish 330ml	can	30	40	Furniture Polish 330ml	can	3
41	Air Freshener 320ml	can	30	41	Air Freshener 320ml	can	3
42	Metal Polish	can	10	42	Metal Polish	can	1
43	Trash Bag 13 x 13 x 32 (Black)	pc	40,000	43	Trash Bag 13 x 13 x 32 (Black)	pc	4,000
44	Trash Bag 13 x 13 x 32 (Yellow)	pc	50,000	44	Trash Bag 13 x 13 x 32 (Yellow)	pc	5,000
45	Trash Bag 13 x 13 x 32 (Green)	pc	20,000	45	Trash Bag 13 x 13 x 32 (Green)	pc	2,000
46	Trash Bag 37 x 40 (Black)	pc	30,000	46	Trash Bag 37 x 40 (Black)	pc	3,000
47	Trash Bag 37 x 40 (Green)	pc	20,000	47	Trash Bag 37 x 40 (Green)	pc	2,000
48	Trash Bag 37 x 40 (Yellow)	pc	50,000	48	Trash Bag 37 x 40 (Yellow)	pc	5,000
(With attached Terms of Reference which will form as integral part of the contract)				(With attached Terms of Reference which will form as integral part of the contract)			

Project Title: SOLID WASTE CLEANUP, COLLECTION AND DISPOSAL PROJECT 2023									
Project No.: DSQC-23-SERVICES-0002									
FROM	TO								
COST DERIVATION FOR LINE 4: SOLID WASTE CLEANUP, COLLECTION AND DISPOSAL PROJECT 2023 FOR DISTRICT IV	COST DERIVATION FOR LINE 4: SOLID WASTE CLEANUP, COLLECTION AND DISPOSAL PROJECT 2023 FOR DISTRICT IV								
II. Maintenance of Staging Area and Transfer of Waste to MMDA Designated Waste Disposal Facility	II. Maintenance of Staging Area and Transfer of Waste to MMDA Designated Waste Disposal Facility								
A. Consumables, Maintenance and Other Costs	A. Consumables, Maintenance and Other Costs								
<table border="1"> <thead> <tr> <th>ITEM/DESCRIPTION</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>Diesel</td> <td>1,064</td> </tr> </tbody> </table>	ITEM/DESCRIPTION	QUANTITY	Diesel	1,064	<table border="1"> <thead> <tr> <th>ITEM/DESCRIPTION</th> <th>QUANTITY</th> </tr> </thead> <tbody> <tr> <td>Diesel</td> <td>1,176</td> </tr> </tbody> </table>	ITEM/DESCRIPTION	QUANTITY	Diesel	1,176
ITEM/DESCRIPTION	QUANTITY								
Diesel	1,064								
ITEM/DESCRIPTION	QUANTITY								
Diesel	1,176								

Project Title: PROCUREMENT OF THERMAL IMAGER	
Project No.: OCM(POPS)-22-SOP-997	
FROM	TO
Section VI. Schedule Of Requirements, and Section VII. Technical Specifications	Section VI. Schedule Of Requirements, and Section VII. Technical Specifications
<ul style="list-style-type: none"> Additional Specification 	<ul style="list-style-type: none"> Standard required: NFPA 1801-2021 edition

Project Title: PROCUREMENT OF FIREMAN'S SUIT	
Project No.: OCM(POPS)-22-SOP-996	
FROM	TO
Section VI. Schedule Of Requirements, and Section VII. Technical Specifications	Section VI. Schedule Of Requirements, and Section VII. Technical Specifications
<ul style="list-style-type: none"> Additional Specifications 	<ul style="list-style-type: none"> Standard requirements: <ul style="list-style-type: none"> Fire suit- NFPA 1971-2018 and/or EN 469:2005 Fire Helmet -NFPA 1971-2018 and/or EN 443:2008 Fire Gloves (short cuff) - NFPA 1971-2018 and/or EN 659 Fire Boots NFPA 1971-2018 and/or EN15090 <p>Certificate of EN and test result must be attached in compliance for the technical specifications of the item being offer.</p> <p>Fire Helmet Specifications: (COLOR RED: 31 PCS & COLOR WHITE: 192 PCS)</p>

GENERAL REQUIREMENT

- A. A brand new FIREFIGHTER'S HELMET made of a high impact, electrically insulated, puncture resistant, heat resistant, and chemical resistant materials.
- B. Its over-all design and construction features shall be guided by latest applicable standards such as, National Fire Protection Association (NFPA) and/or European Norms (EN) for structural firefighting purposes and passing the specified performance tests requirements in this specification.
- C. The helmet shall have no openings penetrating the shell other than those provided by the manufacturer for mounting energy absorbing systems, retention systems, and other accessories.
- D. It shall be adaptable for Self-Contained Breathing Apparatus (SCBA) application.
- E. The helmet shall consist of at least the following assembled components.
 - 1. A Shell
 - 2. Energy Absorbing System
 - 3. Retention System
 - 4. Retractable Visor
 - 5. Ears and Neck Cover
 - 6. Fluorescent and Retroreflective Trim.

A. SHELL (Outer Shell)

- 1. Shell Material - shall be made of composite material of either thermoplastic or heat resistant synthetic-fiber materials and of smoothed finish.
- 2. Trim - The helmet shall have fluorescent and retroreflective trim on the shell exterior.
 - a. The entire surface area of the trim shall be both fluorescent and retroreflective.
 - b. Shall be composed of a single or dashed horizontal strip with a total/aggregate surface area of at least 12,400 mm and a height of not less than 25 mm (1 in.).
 - c. It shall have a Coefficient of Retroreflection (Ra) of not less than 100 cd/lux/m² (100 cd/ft²/#2).
 - d. The color shall either be fluorescent yellow-green OR lime yellow.

NOTE: This requires submission of material certification and test certificates supported with test report/results issued by qualified third party testing laboratory or certifying body/agency covering the shell.

- 3. Brim - shall be ergonomically and circumferentially designed with the rear part being extended to a downward angle that is approximately 60-85 millimeters (mm) long and 260 mm wide \pm 10%.
- 4. Brim Guard - shall be composed of edge trim that will not melt, drip or burn at high temperature and providing extra durability to the helmet edge.
- 5. Visor Port or Attachment - shall be provided for holding/retaining the visor assembly,

B. ENERGY ABSORBING SYSTEM

- 1. Inner shell or Impact Liner - shall be made of heat resistant polycarbonate/thermoplastic/high strength nylon material designed to address the impact force.
- 2. Inner Liner / Comfort Liner - Removable, made of urethane foam located between the outer shell and Inner shell.

C. RETENTION OR HEAD SUSPENSION SYSTEM

- 1. Helmet Retention and Adjustment System
 - a. Head Band - shall be made of plastic designed to receive, retain head sizes from six (6) to eight (8) with liner made of standard flannel for ease and comfortable fit.
 - b. Nape Device - shall be provided as part of the headband and located below the "Bitragion Inion Arc" to aid in helmet retention and provided with padding for ease and comfort.

c. Ratchet Adjustment System - shall be provided and located at the nape device to allow proper adjustment for the headband to fit and prevents backing out or slipping during use.

2. Crown Strap - The crown strap assembly shall be made of 3/4 in. nylon woven straps connected to at least four attachment point to serve as impact cap's suspension.

3. Chin Strap - shall be made of high strength and flame-resistant fabric material with quick-release buckle and with easy adjustment feature for efficient performance, safety and fit. The chin strap shall have a minimum width of 19 mm.

D. VISOR

1. Visor configuration - shall be made of Polycarbonate material at least 110 mm ± 10% shapes molded, optically correct, designed to fit over breathing apparatus face masks with anti-scratch lens coating. The visor shall have a safety reference standard of NFPA 1971 or EN 166 or its acceptable equivalent and shall meet the respective requirements for visor in accordance with ANSI/ISEA Z87.1. Occupational and Educational Personal Eye and Face Protection Device

2. Retention System - shall be provided to safely secure on both sides the visor through a hardware made of a high impact, fire retardant material that will not corrode.

E. EAR AND NECK COVER/PROTECTION

1. Made of heat and flame-resistant fabric material with a temperature rating of not less than 180°C of full-sized design sufficient to cover the ears and neck portion with added two layers of fire-resistant cotton fabric (aluminium coated fabric is not acceptable).

2. Retention System - shall be provided to securely attach the cover to the main shell by snap type fasteners (e.g., nylon hook and loops).

H. MISCELLANEOUS

1. Helmet Hanger - shall be of a standard D-ring type made of stainless steel securely fastened at the center of the rear brim.

Fire Gloves Additional Technical Specifications:

GENERAL DESCRIPTION

A brand-new five-finger design FIREFIGHTER'S GLOVES or FIRE GLOVES made of high strength materials, heat, flame, cut, puncture, and water resistant. that is essentially composed of a fire-resistant fabric outer shell, moisture barrier and thermal lining that delivers protection without sacrificing dexterity.

The gloves shall remain soft and durable after repeated washing and stays supple, flexible, and provides comfort with even long periods of use. It shall be provided by a closely fitted wristlet that extends beyond the opening of the glove body to cover the wrist area.

Over-all design and construction features shall be guided by latest applicable standards such as National Fire Protection Association (NFPA) and/or European Norms (EN) and passing the specified performance tests requirements in this specification.

TECHNICAL REQUIREMENTS

A. MATERIALS

A.1 OUTER SHELL

The outer shell shall be of leather or of equivalent strength or alternate composite material duly certified and designed with flame. thermal and mechanical resistance properties. It shall be water repellent and firmly sewn together. The gloves when machine washed shall not lose its properties of good thermal insulation, resistance against abrasion and sharp edges.

		<p>A.2 INNER LINERS The Inner liners shall be composed of breathable thermal and breathable waterproof moisture barriers made of polyurethane or equivalent material and sewn to outer shell at finger tips with extra strong flame resistant thread.</p> <p>A.3 WRISTLET A flame-resistant close-fitting wristlet which shall extend circumferentially beyond the wrist crease not less than 50 mm (2 in] and of dark tone/shade knitted fabric to minimized dirt staining effect or of equivalent type shall be provided to restrict the entry of ember and other foreign materials.</p> <p>B. SEAMS All seams shall be fully lock-stitched or of equivalent method and treated for water proofing for better tactility.</p> <p>C. HANGER LOOP A glove hanger loop shall be provided for hanging and drying purposes.</p> <p>D. WEIGHT The average weight of a pair of medium size firefighter's gloves shall not weigh greater than 370 grams ±10%.</p> <p>E. SIZES Firefighter gloves shall be available in all of the ASIAN built sizes (Extra Small, Small, Medium, Large, Extra Large and Double Extra Large).</p> <p>F. COLOR Color shall be of Dark Blue or Black only and low-lading type.</p>
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<p>Project Title: PROCUREMENT OF BIO-WASTE CONVERTER TECHNOLOGY WITH LEACHATE TREATMENT SYSTEM AND OTHERS</p>	
<p>Project No.: OCM(POPS)-23-IME-0119</p>	
<p style="text-align: center;">FROM</p> <p>Section VI. Schedule of Requirements and Section VII. Technical Specifications</p> <p>Item No. 1. BIO-WASTE CONVERTER TECHNOLOGY WITH LEACHATE TREATMENT SYSTEM, LOADING CONVEYOR AND MIXER (RAPID COMPOSTING) Power Supply: 3-phase/220 volts Motor: 7.5 horsepower Dimension: Length 2,271 mm x Height 1,900 mm x Width 600 mm 5 mm C Channel 5 mm Strut Bar 2 mm Stainless Plate 2 pieces stainless steel 12 mm hinges 2 pieces stainless steel 6 mm hinges 70 pieces stainless steel Allen cap screw 4 heavy duty caster wheels, 2 steps ladder built-in heavy duty pressure washer Weight: 700kg Leachate Treatment System 756kw Ring Blower, .5hp submersible pump, 2 x .5hp transfer pump, 2 x 2 cum. Capacity tank</p>	<p style="text-align: center;">TO</p> <p>Section VI. Schedule of Requirements and Section VII. Technical Specifications</p> <p>Item No. 1. BIO-WASTE CONVERTER TECHNOLOGY WITH LEACHATE TREATMENT SYSTEM, LOADING CONVEYOR AND MIXER (RAPID COMPOSTING) Machine Components: BIO-SHREDDER Length 420 x Width 560 Hopper Stainless Steel: 600mm x 600mm MS Plate 210 mm 24 pieces Blade Hi-Tensile Steel 48 pieces Hi-tensile Bolts and Nuts 45 mm Cold Rolled shafting FAG Pillow Block Bearing 150 mm Double Pulley 230 mm Double Pulley 3 HP Heavy Duty Induction Motor 3PHS 2 Heavy Duty Industrial Belt SQUEEZER 650 mm Stainless Steel Shafting 200 mm Screw Plate 210 mm Screen Diameter</p>

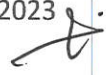
	446 mm Screen Length 3 Adjustable Screw 1 FAG Tapered Roller Bearing 1 FAG Groove Race Thrust Bearing Stainless Steel Diamond Billet Compression Spring 112 mm Diameter Special Screw 6018 Chain Coupling 3 HP 1:90 Gear Motors PHS CONTROL PANEL Weather Proof Metal Enclosure Magnetic Contactor Overload Relay Digital Phase Converter DPS Circuit Breaker Digital Volt Meter Digital Ampere Meter Case LOADING CONVEYOR 1.5 HP Single Phase / 220 volts Reduction Motor Belt Size: 20 inches Width Adjustable Vertical Height up to 10 feet 15 feet conveyor MIXER 1.5 HP Single Phase / 220 volts Speed Reduction Gearbox Horizontal ribbon type mixer
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Project Title: PROCUREMENT OF VARIOUS HOSPITAL EQUIPMENT – (FOR LINE 1)
Project No.: QCGH-22-HME-1753

FROM	TO
<p><u>LINE 1:</u> PROCUREMENT OF CT-SCAN MACHINE</p> <p>Section VI. Schedule of Requirements, and Section VII. Technical Specifications</p> <p>Gantry Aperture: at least 70 cm Tit range (degrees): +/- 30 or wider Rotation Speed at 360 0.35 seconds or faster Effective temporal resolution 29 ms or lower Distance focus to detectors not more than 96 cm Distance focus to scan plane 55 cm or less Slip Ring must be continuous rotation system SCAN FOV at least 50 cm Capable of remote tilt from operator's console</p> <p>With cardiac gating indicator light or equivalent With laser alignment lights Coronal light must remain perpendicular to axial light as gantry tilts with integrated gantry and LCD display</p> <p>Detector</p> <p>CT detector Single solid state CT detector capable of dual energy acquisition Number of slices: 256 slices capability per rotation or more Slice width/Detector aperture: 0.625 mm or thinner</p>	<p>Section VI. Schedule of Requirements, and Section VII. Technical Specifications</p> <p>Gantry Aperture: at least 70 cm Tit range (degrees): +/- 30 or wider Rotation Speed at 360 0.35 seconds or faster: <u>Physical</u> temporal resolution <u>83 ms</u> or lower Distance focus to detectors not more than <u>98 cm</u> Distance focus to scan plane 55 cm or less Slip Ring must be continuous rotation system SCAN FOV at least 50 cm Capable of remote tilt from operator's <u>or gantry</u> console</p> <p>With cardiac gating indicator light or equivalent With laser alignment lights <u>With three (3) laser light markers showing the isocenter position of the scan plane</u></p> <p>Detector</p> <p>CT detector Single solid state CT detector capable of dual energy acquisition Number of slices: <u>at least</u> 256 slices capability per rotation or more Slice width/Detector aperture: 0.625 mm or thinner</p>

<p>Detector configuration/effective length of detector elements in z-axis (at isocentre) (mm): capable of 64 x 0.625 mm</p> <p>Detector coverage, at least 40 mm DAS sampling rate of at least 7100 Hz or higher High contrast spatial resolution of at least 21.4 X-& ipfom at 0% MTF or higher Electronic noise: Less than 3 photons noise (3100 electrons) or better Scintillator speed: 0.03 uSec or faster</p> <p>Spatial resolution/sub-mm imaging 023 mm or better (lower)</p>	<p>Detector configuration/effective length of detector elements in z-axis (at isocentre) (mm): capable of 64 x 0.625 mm <u>or thinner slices/collimation</u></p> <p>Detector coverage, not more than 40 mm Remove (DAS sampling rate of at least 7100 Hz or higher) High contrast spatial resolution of <u>at least 15 lp/cm at least 2% MTF</u> Remove (Electronic noise: Less than 3 photons noise (3100 electrons) or better) Scintillator speed: 0.03 uSec or faster <u>or manufacturer's latest design and technology</u></p> <p>Spatial resolution/sub-mm imaging <u>033 mm</u> or better (lower)</p>
<p>X-RAY GENERATOR AND DOSE MANAGEMENT</p> <p>High frequency on-board generator or inverter type Single energy maximum power at least 100kW Dual energy maximum power: at least 105kW KVp selection at least 4 modes Minimum tube voltage 80kv or lower Maximum tube voltage: 140 kv or higher mA selection available at least 10 to 830 mA mA increment at least 5 mA Maximum Ma:830 Ma or higher</p>	<p>X-RAY GENERATOR AND DOSE MANAGEMENT</p> <p>High frequency on-board generator or inverter type Single energy maximum power <u>equivalent to</u> at least 100kW Dual energy maximum power: <u>equivalent to</u> at least 105kW KVp selection at least 4 modes Minimum tube voltage 80kv or lower Maximum tube voltage: 140 kv or higher mA selection available <u>equivalent at least 830 mA or higher</u> mA increment at least 5 mA or <u>automated mA selection</u> Maximum mA: <u>equivalent to</u> 830 mA or higher</p>
<p>XRAY TUBE</p> <p>Single Source X-Ray tube anode heat storage capacity (actual/physical): at least 8 MHU; with dual energy capability Anode heat dissipation: 2100 kHU/min or higher</p> <p>Must have at least 3 Focal spot sizes to enable dual energy acquisition: 1.0 x 0.7 mm or better, 1.6 x 1.2 mm or better, 2.0 x 1.2 mm or better</p>	<p>XRAY TUBE</p> <p>Single Source X-Ray tube anode heat storage capacity (actual/physical): <u>at least 7 MHU or equivalent to at least 16 MHU</u>; with dual energy capability Anode heat dissipation: <u>no more than</u> 2100 kHU/min or higher</p> <p>Must have <u>no more than</u> 3 Focal spot sizes to enable dual energy acquisition: 1.0 x 0.7 mm or better, 1.6 x 1.2 mm or better, 2.0 x 1.2 mm or better</p>
<p>DOSE MANAGEMENT</p> <p>Automatic current selection or similar technology With organ dose modulation or similar technology With KV assist Low kV scanning ECG dose modulation; automatic mA adjust: must be available Pediatric-specific dose control must be available With Dose computation, display and reporting</p>	<p>DOSE MANAGEMENT</p> <p>Automatic current selection or similar technology With organ dose modulation or similar technology With KV assist Low kV scanning ECG dose modulation; automatic mA adjust: must be available Pediatric-specific dose control must be available With Dose computation, display and reporting</p>
<p>RECONSTRUCTION</p> <p>Image reconstruction time: capable of 70 fps or higher With iterative reconstruction or similar technology Reconstruction matrix 512x512 or 102x1024 or higher display matrix 1024x1024 or higher prospective multiple reconstruction: atleast 10 sets of pre-programmed reconstruction</p>	<p>RECONSTRUCTION</p> <p>Image reconstruction time: capable of <u>29</u> fps or higher With iterative reconstruction or similar/<u>automatic</u> technology Reconstruction matrix 512x512 or 102x1024 or higher display matrix <u>no more than</u> 1024x1024 prospective multiple reconstruction: atleast 10 sets of pre-programmed reconstruction</p>
<p>SCANNER CONSOLE</p> <p>Console Computer CPU: Manufacturer's latest compatible standard Console computer RAM/Memory at least 96 gb Storage: at least (2) 1 TB HDD for system</p>	<p>SCANNER CONSOLE</p> <p>Console Computer CPU: Manufacturer's latest compatible standard Console computer RAM/Memory at least 96 gb Storage: at least (2) 1 TB HDD for system <u>or latest manufacturer's CPU standard</u></p>

<p>RAIDS: at least Four (4) 1 TB HDD for raw data with data redundancy capability Additional storage: DVD, CD, or any optical device, USB must be available Console monitors: Dual monitor configuration of at least 19" LCD or LED or manufacturer's equivalent latest compatible display</p> <p>INDEPENDENT POST- PROCESSING WORKSTATION - THREE(3) UNITS</p> <p>Must have the same interface as the Operator's console</p> <p>Console Computer CPU: Manufacturer's equivalent latest compatible technology/standard Console computer RAM/Memory: 64 GB</p> <p>Graphics card: at least 1024MB or equivalent latest compatible technology/standard Storage for OS and Applications: at least one (1) 256 GB SSD</p> <p>Image storage: at least two (2) 512GB HDD in RAID configuration for image protection and redundancy</p> <p>Archival storage: Internal DVD writer drive for read/write of DICOM CD/DVD media, read/write of Data Export CD/DVD data and service use (DVD install) Display monitor: Dual monitor configuration with at least 19" LCD or LED screen</p> <p>DICOM/IMAGE MANAGEMENT AND ARCHIVING DICOM Storage Service Class Service Class User (SCU) for image send Service Class Provider (SCP) for image receive Service Class User (SCU) for storage commitment DICOM Query/Retrieve Service Class DICOM Modality Worklist DICOM Modality Performed Procedure Step DICOM Print DICOM Storage Commitment Class Push</p> <p>APPLICATIONS AND SOFTWARE Workflow management software/Protocol Management System Records voice for patient instructions Bolus Tracking: Track contrast medium to trigger scanning using multiple ROI Emergency mode: Trauma Patient assist Multiple image analysis Low radiation dose system and Real time dose reduction software Dedicated pediatric imaging including specific pediatric protocols Automated organ-system voltage setting and planning of scan Metal artifact reduction Multi-organ/Whole Body Perfusion/CT Perfusion Analysis/CT Volume Perfusion Automatic Bone Removal: CT Cerebrovascular Auto Segmentation, CT Subtraction Automate Spine Labelling Software Advanced Neurology Application Software Advanced Brain Perfusion</p>	<p>RAIDS: at least Four (4) 1 TB HDD for raw data with data redundancy capability Additional storage: DVD, CD, or any optical device, USB must be available <u>or latest manufacturer's CPU standard</u> Console monitors: Dual monitor configuration of at least 19" LCD or LED or manufacturer's equivalent latest compatible display</p> <p>INDEPENDENT POST- PROCESSING WORKSTATION - THREE(3) UNITS</p> <p>Must have the same interface as the Operator's console <u>or latest manufacturer's workstation design/technology</u></p> <p>Console Computer CPU: Manufacturer's equivalent latest compatible technology/standard Console computer RAM/Memory: 64 GB <u>or Manufacturer's equivalent latest compatible technology/standard</u> Graphics card: at least 1024MB or equivalent latest compatible technology/standard Storage for OS and Applications: at least one (1) 256 GB SSD <u>or equivalent latest compatible technology/standard</u> Image storage: at least two (2) 512GB HDD in RAID configuration for image protection and redundancy <u>or manufacturer's equivalent latest compatible technology/standard</u> Archival storage: Internal DVD writer drive for read/write of DICOM CD/DVD media, read/write of Data Export CD/DVD data and service use (DVD install) Display monitor: Dual monitor configuration with at least 19" LCD or LED screen <u>or manufacturer's equivalent latest compatible display</u></p> <p>DICOM/IMAGE MANAGEMENT AND ARCHIVING DICOM Storage Service Class Service Class User (SCU) for image send Service Class Provider (SCP) for image receive Service Class User (SCU) for storage commitment DICOM Query/Retrieve Service Class DICOM Modality Worklist DICOM Modality Performed Procedure Step DICOM Print DICOM Storage Commitment Class Push</p> <p>APPLICATIONS AND SOFTWARE Workflow management software/Protocol Management System Records voice for patient instructions Bolus Tracking: Track contrast medium to trigger scanning using multiple ROI Emergency mode: Trauma Patient assist Multiple image analysis Low radiation dose system and Real time dose reduction software Dedicated pediatric imaging including specific pediatric protocols Automated organ-system voltage setting and planning of scan Metal artifact reduction Multi-organ/Whole Body Perfusion/CT Perfusion Analysis/CT Volume Perfusion Automatic Bone Removal: CT Cerebrovascular Auto Segmentation, CT Subtraction Automate Spine Labelling Software Advanced Neurology Application Software Advanced Brain Perfusion</p>
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<p>CT Renal Stone Analysis CT PA/PV Lung Auto Segmentation Pulmonary nodule detection Advanced Cardiac, Coronary and Vascular Application Software Cardiac Intelligent Motion Correction Algorithm Arrhythmia Management/Avoidance Scan Calcium Scoring Adaptive scanning for moderate/high heart rates and irregular rhythm or equivalent Advanced vessel analysis Advanced vessel analysis -stent planningTAVI planning Cardiac viewer and automatic comprehensive cardiac analysis Cardiac plaque assessment Myocardial perfusion Vessel analysis of coronary arteries Comprehensive cardiac function analysis Advanced oncology software Image fusion software (from other modalities) Automatic specific organ segmentation Advanced thoracic and lung nodule assessment CT Colon Analysis/Virtual Colonoscopy Software Automatic and/or manual detection of polyps CT Liver Analysis/Hepatic/Liver function CT Lesion Analysis Stroke Analysis Software Aneurysm Segmentation Software: Automate software on bleed/hematoma Multiphase CTA software for collaterals on ischemic stroke Dual Energy Software Dual Energy Viewer Dual Energy CT Renal Stone Analysis Dual Energy Fat Quantification Dual Energy Cardiac Dual Energy Pulmonary Perfusion Dental Software</p>	<p>CT Renal Stone Analysis CT PA/PV Lung Auto Segmentation Pulmonary nodule detection Advanced Cardiac, Coronary and Vascular Application Software Remove (Cardiac Intelligent Motion Correction Algorithm) Arrhythmia Management/Avoidance Scan Calcium Scoring Adaptive scanning for moderate/high heart rates and irregular rhythm or equivalent Advanced vessel analysis Advanced vessel analysis -stent planningTAVI planning Cardiac viewer and automatic comprehensive cardiac analysis Cardiac plaque assessment Myocardial perfusion Vessel analysis of coronary arteries Comprehensive cardiac function analysis Advanced oncology software Image fusion software (from other modalities) Automatic specific organ segmentation Advanced thoracic and lung nodule assessment CT Colon Analysis/Virtual Colonoscopy Software Automatic and/or manual detection of polyps CT Liver Analysis/Hepatic/Liver function CT Lesion Analysis Stroke Analysis Software Aneurysm Segmentation Software: Automate software on bleed/hematoma Multiphase CTA software for collaterals on ischemic stroke Dual Energy Software Dual Energy Viewer Dual Energy CT Renal Stone Analysis Dual Energy Fat Quantification Dual Energy Cardiac Dual Energy Pulmonary Perfusion Dental Software</p>
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By: **BIDS AND AWARDS COMMITTEE – GOODS AND SERVICES**


MS. MA. MARGARITA T. SANTOS
Chairperson