

LOT 13 - PHARMACY

S/No.	LOT NO.	EXPECTED EQUIPMENT	QTY	Estimated Units Price	Estimated Total Price
1.	13-1	Pharmaceutical refrigerators	5		
2.	13-2	Balance precision)	1		
3.	13-3	Balance Heavy Duty	1		
4.	13-4	Tablet Counter	5		
5.	13-5	DDA cupboards- Pharmacy(drug) store	1		
6.	13-6	DDA cupboards- satellite pharmacies	5		
7.	13-7	Class II laminar flow system	2		
8.	13-8	Electronic weighing balance	1		
9.	13-9	Pestel & Motor	5		
10.	13-10	Magnetic Stirrer with Hot Plate	3		
11.	13-11	Measuring cylinder- large	5		
12.	13-12	Measuring cylinder- small	5		
13.	13-13	Beaker-large	5		
14.	13-14	Beaker- small	5		
15.	13-15	Pharmacy drug trolleys	5		
16.	10-16	Hand truck push/pull cart	3		
17.	10-17	Vaccine carrier	5		

LOT 13: PHARMACY**LOT 13-1 Pharmaceutical refrigerators**

Item Code No.	Department	Section	Item Description
LOT 13-1	Pharmacy	Pharmacy	Pharmaceutical refrigerators
1. General Description			
Pharmaceutical refrigerator with Freezer			
2. Composition			
2.1.	Main unit		
3. Technical Specifications 3.1. Should be ISO 9001, 13485 & 14001 certified product 3.2. Pharmaceutical Refrigerator with built in -20°C Deep Freezer 3.3. One unit with dual temperature zone 3.4. Refrigerator capacity should be >300L with temp. range from +2°C to +14°C 3.5. Freezer capacity should be >75L with temp. range from -50°C to -20°C 3.6. Should have overall dimensions approximate 75cmW x 55cmD x 175 cm 3.7. Exterior material: Galvanized steel with baked on finish 3.8. Interior material for Refrigerator: Stainless steel and Interior material for Freezer: Colored aluminum plate 3.9. Accurate temperature control by Microprocessor control system 3.10. Fan-forced air circulation system for fast recovery of temperature and better uniformity 3.11. Free from frost 3.12. Four-door design that reduces air loss during door opening 3.13. Triple-pane windows with heat reflection film to reduce condensation 3.14. It should have three sections of refrigerator and one section of freezer 3.15. Should have Quiet operation 3.16. Environment-friendly refrigerant: HFC 3.17. Shelves for Refrigerator - Large: 2 No., Small: 3 No., Shelves for Freezer – 1 No. 3.18. Rigid Polyurethane foamed in place Insulation 3.19. Should have 4 casters with 2 adjustable leveling feet 3.20. Should have safety features as Audio visual High/low temperature alarm and Door ajar alarm 3.21. Should have Door key lock for safety 3.22. Should have Memory back-up during power failure and Self diagnostics function 3.23. Should have Remote alarm contact for alarm acknowledgement			

LOT 13-2 Balance, Precision

Item Code No.		Department	Section	Item Description		
LOT 13-2		Pharmacy	Pharmacy	Balance, Precision		
1. General Description						
Analytical balance						
2. Composition						
2.1.	Main unit					
3. Detailed specifications						
3.1.	Maximum Capacity (or) Range of the balance		80-90 / 220 gm			
3.2.	Readability		0.01 mg (0.00001 gm) / 0.1 mg (0.0001 gm)			
3.3.	Tarring Range		0 – 220 gm			
3.4.	Display		Backlit graphics display/LCD with touch screen operation.			
3.5.	Repeatability (Standard deviation)		0.03 mg (small range)/ 0.10 mg (large range)			
3.6.	Linearity		±0.20 mg / ±0.10 mg			
3.7.	Eccentric Load		0.30 mg			
3.8.	Calibration		Adjustment with internal weights, fully automatic calibration technology with temperature controlled.			
3.9.	Data Memory Function		For keeping Weighing data & Calibration history data.			
3.10.	Sensitivity drift		±2ppm/°C (when automatic self-calibration is not used)			
3.11.	Stabilization (typical and fast)		Approx. 4.0 sec (0.1mg) / 15 sec (0.01mg)			
3.12.	Size of weighing pan		~ 80 - 90 mm			
3.13.	Shielding		Glass draft shield with flexible configuration Protective cover for the terminal, replaceable Feed through for weighing below the balance			
3.14.	Power Supply		To be operable with 230 V AC, 50 Hz power supply and on battery			
3.15.	Accessories		Power supply cable with all accessories for operation.			
3.16.	Operating & Service Manual		2 Sets (of Hard copies) with Calibration certificate of the balance. Soft copy of			

Item Code No.	Department	Section	Item Description
LOT 13-2	Pharmacy	Pharmacy	Balance, Precision
		Instrument Operating manual to be sent during the time of installation.	
3.17.	Interface	Standard bi-directional RS-232 interface.	
3.18.	Dust Cover	One	
General terms and remarks			
The above equipment has to be supplied (along with all its accessories), installed and commissioned (functional and performance testing) at MAPS chemistry control section by the supplier. Calibration certificate is to be supplied.			
Standard accessories shall be supplied with the main Instruments. A Dust cover to be provided along the instrument.			
Supplier must support maintenance of the instrument after warranty period of the instrument expired.			
The system should be installed and demonstrated for trouble free operation at MAPS laboratory by the supplier at their own cost.			
The equipment should be accompanied with two sets of OPERATION & MAINTANANCE MANUAL with full circuit DIAGRAM.			

LOT 13-3 Balance, Heavy duty

Item Code No.	Department	Section	Item Description
LOT 13-3	Pharmacy	Pharmacy	Balance, Heavy duty
1. General Description			
2. Composition			
2.1.	Main unit		
3. Detailed specifications			
3.1.	Maximum Capacity (or) Range of the balance	0.25- 50kg	
3.2.	Readability	0.01 g (0.00001kg) / 0.1 g (0.0001kg)	
3.3.	Tarring Range	0 – 50kg	
3.4.	Display	Backlit graphics display/LCD with touch screen operation.	

Item Code No.	Department	Section	Item Description
LOT 13-3	Pharmacy	Pharmacy	Balance, Heavy duty
3.5.	Repeatability (Standard deviation)	0.03 g (small range)/ 0.10 g (large range)	
3.6.	Linearity	±0.20 g / ±0.10 g	
3.7.	Eccentric Load	0.30 g	
3.8.	Calibration	Adjustment with internal weights, fully automatic calibration technology with temperature controlled.	
3.9.	Data Memory Function	For keeping Weighing data & Calibration history data.	
3.10.	Sensitivity drift	±2ppm/°C (when automatic self-calibration is not used)	
3.11.	Size of weighing pan	~ 60 - 80 cm	
3.12.	Shielding	Protective cover for the terminal, replaceable	
3.13.	Power Supply	To be operable with 230 -250V AC, 50 Hz power supply and on battery	
3.14.	Accessories	Power supply cable with all accessories for operation.	
3.15.	Operating & Service Manual	2 Sets (of Hard copies) with Calibration certificate of the balance. Soft copy of Instrument Operating manual to be sent during the time of installation.	
3.16.	Interface	Standard bi-directional RS-232 interface.	
3.17.	Dust Cover	One	
General terms and remarks			
<ul style="list-style-type: none">The above equipment has to be supplied (along with its all accessories), installed and commissioned (functional and performance testing) at MAPS chemistry control section by the supplier. Calibration certificate is to be supplied.			
<ul style="list-style-type: none">Standard accessories shall be supplied with the main Instruments. A Dust cover to be provided along the instrument.			
<ul style="list-style-type: none">Supplier must support maintenance of the instrument after warranty period of the instrument expired.			
<ul style="list-style-type: none">The system should be installed and demonstrated for trouble free operation at MAPS laboratory by the supplier at their own cost.			
<ul style="list-style-type: none">The equipment should be accompanied with two sets of OPERATION & MAINTANANCE MANUAL with full circuit DIAGRAM.			

LOT 13-4 Tablet Counter

Item Code No.		Department	Section	Item Description		
LOT 13-4		Pharmacy	Pharmacy	Tablet Counter		
1. General Description						
TABLET COUNTING MACHINE						
2. Composition						
2.1.	Main unit					
3. Detailed Specifications						
3.1. Tablet Counting Machine that must provide 3 counting options that is Single, Multiple and Inventory.						
3.2. The counting speed of up to 500 tablets per minute, providing an accuracy of 99.9% and must come with large LCD Colour display which must be easy to read.						
3.3. Its construction must be from FDA approved plastic and the machine must have counting sensor						
3.4. Dimensions: Approximate (H) 5½ inch *(W) 10½ inch* (D) 12½ inch.						
3.5. The machine must be portable weighs about 3-4Kg with voltage of about 110 -220 volt.						
3.6. Must come with at least two years warranty.						
3.7. Both user and technical training must be provided to staff on the Machine upon installation and commissioning						

LOT 13-5 DDA cupboards- Pharmacy (Drug) store

LOT 13-5 DDA cupboards Pharmacy (Drug) store					
Item Code No.	Department	Section	Item Description		
LOT 13-5	Pharmacy	Pharmacy	DDA cupboards		
1. General Description					
Wall mounted Lockable cupboard with audio/visual alarm for storage of Psychotropics and controlled substances in the drug store					
2. Composition					
2.1.	Main unit				
3. Detailed specifications					
Size:					
L(cm)- 80-120					
W(cm)-30-50					
H(cm)-120-140					
Steel sheet constructed					
Twin lockable doors					
Fixed sheet metal shelves					
Inner lockable compartment for storage of poison					
Audio buzzer (12W DC) activated when inner Compartment not closed					
Visual red pilot lamp (12W DC) activated when doors not closed					
Finishing: Epoxy powder coated					
Internal cabinet size:					
L(cm)- 40-60					
W(cm)- 30-50					
H(cm)- 80-100					
Transformer : AC/DC 230V-250V/ 12W DC					

LOT 13-6 DDA cupboards- satelite pharmacy

Item Code No.		Department	Section	Item Description		
LOT 13-6		Pharmacy	Pharmacy	DDA cupboards		
1. General Description						
2. Composition						
2.1.	Main unit					
3. Detailed specifications						
Size:						
L(cm)- 60-80						
W(cm)-30-50						
H(cm)-90-120						
Steel sheet constructed						
Fixed sheet metal shelves						
Security level 1 Compliant.						
Anti-pick levers and deadlock mechanism.						
Warning light and buzzer alarm.						
3 keys per lock						
3 shelves and 2 door trays.						
Lockable internal DDA cabinet.						
Epoxy coated.						
Internal cabinet size:						
L(cm)- 30-40						
W(cm)- 30-50						
H(cm)- 40-60						

LOT 13-7 Laminar Flow System

Item Code No.		Department	Section	Item Description		
LOT 13-7		Pharmacy	Pharmacy	Laminar Flow System		
1. General Description						
2. Composition						
2.1.	Main unit					
3. Detailed Technical Specifications						
Specification		Specification Name	Bid Requirement (Allowed Values)			
Certifications	Conformity to Certifications		CE European, US FDA, CE European and US FDA			
	Conformity to Manufacturing Standards		ISO 9001 & ISO 13485			
Technical Specifications	Type of configuration		Mobile			
	Type of air flow direction		Top out			
	Material used for the work bench		Stainless steel 304 grade			
	Material used for the front door		Acrylic transparent			
	Material used for the Side panels		Acrylic			
	Type of light		LED			
	Number of LED lamps		1			
	Availability of motorized sliding door		Yes			
	LCD display for velocity, time & lamp on/off		Yes			
	UV Hour meter		Yes			
	UV Germicidal lamp		Yes			
	DOP HEPA filter testing		Yes			
Digital Pressure		Yes				

Item Code No.	Department	Section	Item Description
LOT 13-7	Pharmacy	Pharmacy	Laminar Flow System
	Gauge with Alarm		
	Size of the working area(W×D×H) (feets)	3×2×2	
	Availability of display	Yes	
	Type of display	LCD	
Purchase Information	Warranty	At least 2 years	

LOT 13-8 Electronic weighing scale

Item Code No.		Department	Section	Item Description		
LOT 13-8		Pharmacy	Pharmacy	Electronic weighing scale		
1. General Description						
2. Composition						
2.1.	Main unit					
3.						
3.1.	Maximum Capacity (or) Range of the balance	80-90 / 220 gm				
3.2.	Readability	0.01 mg (0.00001 gm) / 0.1 mg (0.0001 gm)				
3.3.	Tarring Range	0 – 220 gm				
3.4.	Display	Backlit graphics display/LCD with touch screen operation.				
3.5.	Repeatability (Standard deviation)	0.03 mg (small range)/ 0.10 mg (large range)				
3.6.	Linearity	±0.20 mg / ±0.10 mg				
3.7.	Eccentric Load	0.30 mg				
3.8.	Calibration	Adjustment with internal weights, fully automatic calibration technology with temperature controlled.				
3.9.	Data Memory Function	For keeping Weighing data & Calibration history data.				
3.10.	Sensitivity drift	±2ppm/°C (when automatic self-calibration is not used)				
3.11.	Stabilization (typical and fast)	Approx. 4.0 sec (0.1mg) / 15 sec (0.01mg)				
3.12.	Size of weighing pan	~ 80 - 90 mm				
3.13.	Shielding	Protective cover for the terminal, replaceable				
3.14.	Power Supply	To be operable with 230 V-250V AC, 50 Hz power supply and on battery				
3.15.	Accessories	Power supply cable with all accessories for operation.				
3.16.	Operating & Service Manual	2 Sets (of Hard copies) with Calibration certificate of the balance. Soft copy of				

Item Code No.		Department	Section	Item Description
LOT 13-8		Pharmacy	Pharmacy	Electronic weighing scale
			Instrument Operating manual to be sent during the time of installation.	
3.17.	Interface		Standard bi-directional RS-232 interface.	
3.18.	Dust Cover		One	
General terms and remarks				
<ul style="list-style-type: none">The above equipment has to be supplied (along with its all accessories), installed and commissioned (functional and performance testing) at MAPS chemistry control section by the supplier. Calibration certificate is to be supplied.				
<ul style="list-style-type: none">Standard accessories shall be supplied with the main Instruments. A Dust cover to be provided along the instrument.				
<ul style="list-style-type: none">Supplier must support maintenance of the instrument after warranty period of the instrument expired.				
<ul style="list-style-type: none">The system should be installed and demonstrated for trouble free operation at MAPS laboratory by the supplier at their own cost.				
<ul style="list-style-type: none">The equipment should be accompanied with two sets of OPERATION & MAINTANANCE MANUAL with full circuit DIAGRAM.				

LOT 13-9 Pestle & Motor

Item Code No.		Department	Section	Item Description		
LOT 13-9		Pharmacy	Pharmacy	Pestle & Motor		
1. General Description						
2. Composition						
2.1.	Main unit					
3.						
S/No	Technical Description			Qty	Unit	
3.1.	Grey Agate mortar and pestle, Outer Dia (O.D) 3.5”(inch), Inner Dia (I.D) 3.0”(Inch), Depth 0.8” Inch (21 mm)			1	Sets	
	Grey Agate mortar and pestle, Outer Dia (O.D) 4.5”(inch), Inner Dia (I.D) 4.0”(Inch), Depth 1.1” Inch (27 mm)			1	Sets	
3.2.	Grey Agate mortar and pestle, Outer Dia (O.D) 5.5”(inch), Inner Dia (I.D) 5.0”(Inch), Depth 1.3” Inch (34 mm)			1	Sets	
3.3.	Grey Agate mortar and pestle, Outer Dia (O.D) 6.0”(inch), Inner Dia (I.D) 5.5”(Inch), Depth 1.4”Inch(36 mm)			1	Sets	
3.4.	Grey Agate mortar and pestle, Outer Dia (O.D) 6.5”(inch), Inner Dia (I.D) 6.0”(Inch), Depth 1.6”Inch(40mm)			1	Set	
Each set consists of one mortar and one pestle						
Note:						
<ul style="list-style-type: none">• Tolerance in above dimensions in inch is ± 0.2 inch (± 0.5 mm) maximum.• The mortar and pestle should be made of natural agate with highly polished grinding surfaces, excellent for preparing laboratory samples and high purity powders. The agate material is a special silicate with a main composition of SiO₂ (~ 97.3%). It should be resistant to detergent and should be resistant to abrasion. Thermal endurance should be up to 350°C (minimum). The material should have the following features;<ul style="list-style-type: none">a. Colour: Grey,b. Material: Silica (SiO₂),c. Crystal Habit: Cryptocrystalline silica,d. Crystal system: Rhombohedral Microcrystalline,e. Cleavage: None,f. Fracture: Conchoidal with sharp edges,g. Mohs scale hardness: ≥ 6.5h. Luster: Waxy,						

Item Code No.	Department	Section	Item Description
LOT 13-9	Pharmacy	Pharmacy	Pestle & Motor
i. Diaphaneity: Translucent, j. Density: ≥ 2.5 gm/cc			

LOT 13-10 Magnetic Stirrer with Hot plate

Item Code No.		Department	Section	Item Description		
LOT 13-10		Pharmacy	Pharmacy	Magnetic Stirrer with Hot Plate		
1. General Description						
2. Composition						
2.1.	Main unit					
3.						
S/No	Technical Description			Qty	Unit	
Maximum stirring speed – 100-1500 rpm with stepless speed control and good speed stability						
Maximum stirring quantity (Liters)- 5liters						
Heating capacity – 500W- 1000W						
Hotplate size – 150- 300 mm diameter						
Supply – 220V-250 V, 50Hz, A.C						
Temperature range- up to 340oC						
Speed/ Temperature display- LCD						
Speed display resolution(rpm)- 1						
Top plate material – stainless steel chemically resistant to acid and alkali						
Stirring paddle (PTFE coated) length- 25-50mm						
Stirring Unit – should be enclosed so that corrosive fumes do not enter it						
Controls for both hotplate and stirrer should be provided with suitable indicators						
Necessary electrical cables should be provided						
Warranty – 1 year						

LOT 13-11 Measuring Cylinder-Large

Item Code No.		Department	Section	Item Description		
LOT 13-11		Pharmacy	Pharmacy	Measuring cylinder- large		
1. General Description						
2. Composition						
2.1.	Main unit					
3. Detailed Specifications						
Capacity- 100-250ml						
Graduations(ml)- 1-2						
Tolerance(ml)- 1-2						
Height(mm)- 250-350						
Diameter Neck(mm) 25-50						
Diameter base (mm)- 70-100						
Material- Borosilicate glass highly resistant to chemicals, temperature changes and shock						

LOT 13-12 Measuring cylinder- small

Item Code No.		Department	Section	Item Description		
LOT 13-12		Pharmacy	Pharmacy	Measuring cylinder-small		
1. General Description						
2. Composition						
2.1.	Main unit					
3. Detailed Specifications						
Capacity (ml)- 25-50						
Graduations(ml)- 0.5-1						
Tolerance(ml)- 0.5-1						
Height(mm)- 180-220						
Diameter Neck(mm) 20-25						
Diameter base (mm)- 60-65						
Material- Borosilicate glass highly resistant to chemicals, temperature changes and shock						

LOT 13- 13 Beaker- large

Item Code No.		Department	Section	Item Description		
LOT 13-13		Pharmacy	Pharmacy	Beaker-large		
1. General Description						
2. Composition						
2.1.	Main unit					
3. Detailed Specifications						
Volume(ml)- 250ml						
Diameter(mm)- 50-70						
Height(mm)- 80-120						
Material- Borosilicate glass highly resistant to chemicals, temperature changes and shock						
Graduation interval-25ml						
Accuracy- ±5%						

LOT 13- 14 Beaker- small

Item Code No.		Department	Section	Item Description		
LOT 13-14		Pharmacy	Pharmacy	Beaker- small		
1. General Description						
2. Composition						
2.1.	Main unit					
3. Detailed Specifications						
Volume(ml)- 100ml						
Diameter(mm)- 40-60						
Height(mm)- 50-90						
Material- Borosilicate glass highly resistant to chemicals, temperature changes and shock						
Graduation interval-10ml						
Accuracy- ±5%						

LOT 13-15 Pharmacy drug trolleys

Item Code No.		Department	Section	Item Description		
LOT 13-15		Pharmacy	Pharmacy	Pharmacy drug trolley		
1. General Description						
2. Composition						
2.1.	Main unit					
3. Detailed Specifications						
Material: solid stainless steel mesh and round pipes						
Structure: wiremesh platform						
Mesh thickness: 4-6mm						
Castors: 4 (2 fixed, 2 swivel)						
Surface finishing: colour coated						
Corrosion resistance: Yes						
Carrying capacity: Max 850kg						
Dimensions:						
L(cm)-100-200						
W(cm)- 80-100						
H(cm)- 90-110						

LOT 13-16 Hand truck push/pull cart (Heavy duty)- drug store

LOT 13-16 Hand truck push/pull cart (heavy duty) drug store					
Item Code No.		Department	Section	Item Description	
LOT 13-16		Pharmacy	Pharmacy	Hand truck push/pull cart	
1. General Description					
2. Composition					
2.1.	Main unit				
3. Detailed Specifications					
Foldable steel frame					

Item Code No.	Department	Section	Item Description
LOT 13-16	Pharmacy	Pharmacy	Hand truck push/pull cart
Anti-slip/skip platform			
Height(cm): 80-100			
Folding height(cm) 25-35			
Castors: 4 (2 fixed, 2 swivel)			
Corrosion resistance: Yes			
Carrying capacity: Max 900kg			
Platform Dimensions:			
L(cm)-120-150			
W(cm)- 60-80			
H(cm)- 10-15			

LOT 13-17 Vaccine carrier

Item Code No.	Department	Section	Item Description
LOT 13-17	Pharmacy	Pharmacy	Vaccine carrier
1. General Description			
2. Composition			
2.1.	Main unit		
3. Detailed Specifications			
Vaccine storage capacity(L): 1.5-3			
Number of ice packs: 4 x 0.4L			
Cold life without opening (hrs at 43oC): 20-30			
Weight fully loaded(kg): 4-7			
Weight empty(kg): 2-3.5			
External surface material: High Density Polyethylene			
Internal lining material: High Impact Polyethylene			
Insulation material: CFC- free polyurethane			
Insulation thickness(mm): 30-40			

Item Code No.	Department	Section	Item Description
LOT 13-17	Pharmacy	Pharmacy	Vaccine carrier
External dimensions L(cm):30-30 W(cm):20-30 H(cm):30-35			
Lid type and fixing: Removable			

Drawn by:

Name: Signature Date:

Reviewed by:

Name..... Signature Date

Confirmed by:

1. Name: Signature..... Date

2. Name: Signature..... Date.....

3. Name..... Signature..... Date.....