

ADVERTISEMENT

Army Public School Mamun invites bids in sealed envelope from authorized firms with five years experience for purchase of items for Physics Lab, Chemistry Lab, Biology Lab, Mathematics park, Mathematics Lab & computers, provision of synthetic volleyball court, acrylic basketball synthetic court, provision & laying of non skid tiles etc.

Interested firms may visit our school website www.apsmamun.in for details of projects and submit bids by 31 Jul 2021.

Note : Vendors to submit following authorized documents along with bids :-

- (a) Copy of PAN card
- (b) Copy of Aadhar card
- (c) Valid GST registration No./ certificate
- (d) Passport size photo affixed
- (e) EPF No. of firm
- (f) Latest IT return certificate
- (g) Copy of firm`s bank passbook with latest entry details

PURCHASE OF ITEMS FOR PHYSICS LAB

Ser No	Nomenclature	A/U	Rate (Rs.)	Remarks
1.	Van-De-Graff Generator kit	Nos		
2.	Capacity Demonstration kit	Nos		
3.	Diode laser kit	Nos		
4.	Demonstration Meter kit	Nos		
5.	Transformer kit	Nos		
6.	Digital Meter	Nos		
7.	Westminster Kit	Nos		
8.	Newton`s Second Law Apparatus	Nos		
9.	Hydraulic Press	Nos		
10.	Projectile Launcher	Nos		
11.	Magnetizing/Demagnetizing Coil	Nos		
12.	Electrostatic kit	Nos		
13.	Dia-Para and Ferromagnetism	Nos		
14.	Force Table	Nos		
15.	Ring Launcher	Nos		
16.	Compact Water Tank	Nos		
17.	Rays Optics kit	Nos		
18.	Laser Ray Kit	Nos		
19.	Bell Experiment	Nos		
20.	Law of Resistance Board	Nos		
21.	Optics kit	Nos		
22.	Melting Point Apparatus	Nos		
23.	Kit for Magnetism Experiments	Nos		
24.	Mechanics Kit	Nos		
25.	Free Fall Apparatus	Nos		
26.	Linear Air Track with timer	Nos		
27.	Electricity kit	Nos		
28.	Heat and Thermometer kit	Nos		
29.	Basic Electricity kit	Nos		
30.	Law of Motion kit	Nos		
31.	Chart hanging laminated for class XI (CBSE) practical No 1 to 10	Each		
32.	Chart hanging laminated for class XII (CBSE) practical No 1 to 10	Each		
33.	Do and Don'ts for Physics lab	Each		

PURCHASE OF ITEMS FOR CHEMISTRY LAB

Ser No	Nomenclature	A/U	Rate	Remarks
1.	HP Desktop Computer i3, 4GB, 1TB HDD, Window 10 Genuine, 10 th Gen	Nos		
2.	Computer Table made out of laminated Plywood with lock & key `Daraz` 03 Nos.	Nos		
3.	Visualizer with wooden table	Nos		
4.	Notice board with green blazer cloth size 6` x 4`	Nos		
5.	Hot Air oven Havells	Nos		
6.	Mini Fridge `Whirlpool`	Nos		
7.	Laboratory Hot Plate	Nos		
8.	Magnetic stirrer	Nos		
9.	Digital PH Meter	Nos		
10.	Digital Balance	Nos		
11.	Electrophoresis Unit	Nos		
12.	MS Rack Glassware Standard quality	Nos		
13.	Electrical Chimney with accessories and fitting	Nos		
14.	Lab Table with 4 lock & Key drawers 11 ft x 4 ft	Nos		

LIST OF ITEMS REQUIRED FOR BIOLOGY LAB

Ser No	Nomenclature	A/U	Qty	Rate	Remarks
1.	Projection Microscope	Nos	01		
2.	Digital PH meter	Nos	01		
3.	Digital balance	Nos	01		
4.	Electrophoresis unit	Nos	01		
5.	Biology lab model	Nos	01		
6.	Full human body Torso	Nos	01		
7.	Binocular Microscope	Nos	01		
8.	Portable Microscope	Nos	01		

LIST OF ITEMS REQUIRED FOR MATHEMATICS PARK AT SENIOR WING

Ser No	Name of items	A/U	Rate	Remarks
1.	Gate (Pie, Theta, Zero etc.)	Nos		
2.	Manual Clock	Nos		
3.	Cubed block	Nos		
4.	Round with cone	Nos		
5.	Cube with hemisphere	Nos		
6.	Clinometers	Nos		
7.	Factor Tree	Nos		
8.	Formula cubed	Nos		
9.	Hexagonal Pyramid	Nos		
10.	Pentagonal Pyramid	Nos		
11.	Square Pyramid	Nos		
12.	Pythagoras Theorem	Nos		
13.	Comparison of scales	Nos		
14.	Theorems of circles	Nos		
15.	X-Y Axis	Nos		
16.	Number Chart	Nos		
17.	Arrow Mark	Nos		

ITEMS OF MATHEMATICS LAB

Ser No	Nomenclature	A/U	Rate (Rs.)	Remarks
1.	Game of place value 54 bead as with 6 wire	Nos		
2.	Decimal Abacus 70 beads with 7 wire	Nos		
3.	Teacher Geometry Box	Nos		
4.	Stencils	Nos		
5.	Volume Relationship set	Nos		
6.	Transparent Geoboard 11cmx11cm	Nos		
7.	Polyhedron & There Nets	Nos		
8.	Geo Geometry Stick (Set of 24 Pcs).	Nos		
9.	Hollow Cylinder	Nos		
10.	Area of Circle-Same as derivation of Pie	Nos		
11.	Junior Pythagoras Theorem	Nos		
12.	Angle Sum Property of Quadrilateral	Nos		
13.	Angle Sum property of Triangle	Nos		
14.	Ratio of area of similar Triangle	Nos		
15.	Parallelogram kit	Nos		
16.	Pascal triangle kit	Nos		
17.	Case 1: $(a+b+c)^2$	Nos		
18.	Case 2: $(a+b)^2 - (a-b)^2 = 4 ab$	Nos		
19.	3D Solid set 10cm. (Set of 12 Pcs Trans)	Nos		
20.	Vertex wonder (Set of 330 Pcs)	Nos		
21.	Conic Section with standard equation kit	Nos		
22.	Octant 3D	Nos		
23.	Set Theory by Venn Diagram kit	Nos		
24.	Working model of Pythagoras Theorem	Nos		
25.	Math kit senior 2	Nos		

PROVISION AND LAYING NON-SKID TILES IN CLASSROOM

Ser No	Description of Work	A/U	Rate	Remarks
1.	Provision of 2`x2` nonskid premium tiles Make `SOMANY` and fixing the same in room on mortar (1Cement bag & 4 Sand bag)	Sqft		
2.	Labour Charges	Sqft		

Note :

- (a) The existing surface of room is made out of cemented tiles.
- (b) No advance payment will be made. Complete payment after completion of work.
- (c) 5 years guarantee is desirable.
- (d) Vendors having valid GST No. and authorized in this field may submit bids.

PROVISION OF ACRYLIC BASKETBALL SYNTHETIC COURT

1. One Paved surface basketball court of 2007 vintage is already existing which requires reformations (If meet the technical requirements).
2. Asphalt Base, Synthetic surface, Lightening & Basketball Poles.
3. **Technical Details.** Technical specifications for construction of Basketball Court with Synthetic Surface, Poles, Lightning Arrangements and Allied Accessories.

Ser No	Items	A/U	Qty	Rate	Remarks
(a)	Asphalt base for Outdoor Synthetic Court (110ft x 60ft=6600 Sqft) with details mentioned Below	Nos	01		
	(i) <u>Soil Dressing</u>	Sqft			
	→ Treatment of Top Surface layer by means of scratching				
	→ Compaction of the sub base by 8-10 ton roller				
	→ Carry out anti termite and weedicide on the total area by making 9" deep holes spaced 12" apart and injecting the chemicals and also spraying.				
	(ii) <u>Water Bound Macadam</u>	Sqft			
	→ Lay a layer of stone aggregate (40-60mm) compacted Water Bound Macadam (WBM) (4")				
	→ WBM to be densely compacted by keying and inter locking the stones to ensure that settlement takes place				
	(iii) <u>Asphalt Work</u>	Sqft			
	→ Lay a 30 mm compacted thick hot mix Asphalt BM course with 19mm stone aggregate. Grade of Bitumen will be VG (10-30)				
	→ Lay a 20 mm compacted thick hot mix Asphalt course with 6-10 mm stone aggregate. Grade of Bitumen will be VG (10-30)				
	→ Seal coat with stone dust				
	(iv) <u>Drain</u> An open surface drains at lower end of length of side	Ft			
	(v) <u>Retaining Wall</u> 6" retaining or edge wall for support with running sides	Ft			
(b)	Synthetic All-Weather Surface for Basketball Court (8 Layers Cushion) with details mentioned below:-	Sqft			
	(i) Primer Course :- Providing and laying one coat of Acrylic Primer				
	(ii) Filler Course :- Providing and laying two coats of Acrylic Resurface blended with approved silica sand				
	(iii) Cushion Course:- Providing and laying three coats creates a smooth cushioned finish in preparation for the texture and finish courses				
	(iv) Texture Course:- Providing and laying one coat of Pace Coat which will provide a uniform surface texture and determines the speed of play and traction on the court.				

Ser No	Items	A/U	Qty	Rate	Remarks
	(v) Finish Course: - Providing and laying one coat of Pace Coat will create a vibrant, durable finish highly resistant to weather and ultraviolet degradation. Finish (Colour)	Sqft			
	(vi) Lines: - Providing and laying coat of heavy bodied acrylic latex white striping paint, covers in one application.				
(c)	LED Flood Light System 400W fixtures with the following: -	Set			
	(i) MS Pole of 20 ft height placed on the sides				
	(ii) 06 LED Flood light fixtures on two poles (03 on each pole)				
	(iii) One double door weather proof distribution board with MS sheet.				
	(iv) Full wiring from control to poles and fixtures.				
(d)	Complete Basketball accessories with supply and fixing the following: -				
	(i) Basketball Poles 8" MS Pipe				
	(ii) Acrylic Board 25 mm size 1.80m x 1.05 m				
	(iii) Dunk Rings Spring action slam dunk rink				
	(iv) Net Indian Standard				

Note:-

1. Vendors having 5 years' experience and valid GST No. may submit their bids.
2. No Adv payment will be made. Complete payment will be made on completion of work.
3. Guarantee – 5 years guarantee is desirable.
4. Time Period: 70 - 90 days from date of confirmed order.

PROVISION OF SYNTHETIC VOLLEYBALL COURT

1. Asphalt Base, Synthetic surface, Poles (No. of court :01)
2. **Technical Details.** Technical specifications for construction of Volleyball Court with Asphalt base, Synthetic Surface & Poles.

Ser No	Items	A/U	Qty	Rate	Remarks
(a)	Asphalt base for Outdoor Volleyball Synthetic Court (83ft x 53ft=4400 Sqft) with details mentioned Below	Nos	01		
	(i) Soil Dressing	Sqft			
	→ Dressing of soil after removing existing grass and weeds				
	→ Compaction of the sub base by 8-10 ton roller				
	→ Carry out anti termite and weedicide on the total area by making 9" deep holes spaced 12" apart and injecting the chemicals and also spraying.				
	(ii) Water Bound Macadam	Sqft			
	→ Lay a layer of stone aggregate (40-60mm) compacted Water Bound Macadam (WBM) (4")				
	→ WBM to be densely compacted by keying and inter locking the stones to ensure that settlement takes place				
	(iii) Asphalt Work	Sqft			
	→ Lay a 30 mm compacted thick hot mix Asphalt BM course with 19mm stone aggregate. Grade of Bitumen will be VG (10-30)				
	→ Lay a 20 mm compacted thick hot mix Asphalt course with 6-10 mm stone aggregate. Grade of Bitumen will be VG (10-30)				
	→ Seal coat with stone dust				
	(iv) Drain An open surface drains at lower end of length of side	Ft			
	(v) Retaining Wall 6" retaining or edge wall for support with running sides	Ft			
(b)	Synthetic All-Weather Turf Surface for Basketball Court 50 mm with details mentioned below:-	Sqft			
	(i) Material / Dtex: PE12000				
	(ii) Structure: Monofilament Yarn				
	(iii) Pile Height (mm) :50				
	(iv) Stitch Rate -Per 10cm :15				
	(v) Gauge (inch) :5/8				
	(vi) Stitches/m2 :9450				
	(vii) Roll (Mtr) Width x Length: 4 or 2 x 25				
	(viii) Backing: Triple layers				
	(ix) High wear resistance & perfect ball roll properties				
	(x) Economical System & UV Resistance				

Ser No	Items	A/U	Qty	Rate	Remarks
(c)	Complete Volleyball accessories with supply and fixing the under mentioned:-				
	(i) Volleyball poles 4" MS Pipe	Nos			
	(ii) Net Indian Standard	Nos			

Note:-

1. Vendors having 5 years' experience and valid GST No. may submit their bids.
2. No Adv payment will be made. Complete payment will be made on completion of work.
3. Guarantee – 5 years guarantee is desirable.
4. Time Period: 70 - 90 days from date of confirmed order.

PURCHASE OF DESKTOP COMPUTERS

Ser No	Description of Work	A/U	Rate	Remarks
1.	HPP Desktop Computer i3, 4GB, 1TB HDD, 64 bit cache, Window 10 Genuine, 10 th Gen, Key board & Mouse	Nos		
2.	UPS Microtek single battery 600 VA	Nos		

Note:-

1. Vendors having 5 years' experience and valid GST No. may submit their bids.
2. No Adv payment will be made. Complete payment will be made on completion supply.
3. Guarantee/Warranty
4. Time Period: 15-20 days from date of confirmed order.