

ARMY PUBLIC SCHOOL SUKNA

QUOTATIONS/TENDERS ARE INVITED FOR MODIFICATION & UPGRADATION OF PHYSICS LABORATORY

1. Quotations/tenders are invited from the vendors/dealers/contractors for the under mentioned works/items required to carry out for modification and upgradation of physics Lab of the school. The specifications of the works to be undertaken and required items are enumerated below:-

FURNITURE WORK

<u>S/N</u>	<u>Particulars</u>	<u>A/U</u>	<u>Qty. Reqd</u>	<u>Remarks</u>
1.	<u>Existing in Physics Lab:</u> Three Student working table s(wooden) Size: 12' x 3' x 3' is there in Lab <u>Required:</u> Modification of Students working table (wooden) covering it with new mica sheets and new channels and drawers to be attached . New shelves to be included. Middle section of the table to be converted into a small cupboard with doors.	Nos	03	Each working table can accomodate 12 students easily to perform practicals and drawers to keep their files and stationary during class/ period. The selves can be used to store equipments which will protect them from dust.
2.	<u>Existing in Physics Lab (Delivery/Reception counter):</u> One wooden window of Delivery counter size 4' length x 4' breadth. <u>Required:</u> To be replaced with new one with mica sheets and with the locks.	Nos	01	The door does not closes properly. It is difficult to operate with this problem. It should be replaced. Mica sheets should be attached.
3.	<u>Required:</u> Cupboard of size 6'5" height x 3' breadth x 18" depth lower half closed wooden doors and upper half with glass door with lock and keys at the three corners of the room.	Nos.	03	To store Electronics Instruments/ Equipments / models .
4.	<u>Existing in Physics Lab:</u> Wall mounted cupboard of size 6'5" height x 3' breadth x 18" depth. <u>Required :</u> Lower half closed wooden doors and upper half with glass door with lock and keys	Nos.	01	To display models and students project work.
5.	<u>Existing in Physics Lab (Delivery/Reception counter):</u> One Slab of size 13'length x 1'5" breadth x 2' Height. <u>Required:</u> Lower empty space need to be covered by wooden shelf and cabinet with lock and keys.	Nos	01	To store Glassware Equipment for issue to students during practical classes
6.	<u>Existing in Physics Lab:</u> One Slab of size 11'5" length x 1'3" breadth x 2'2" Height. <u>Required:</u> Lower empty space need to be covered by wooden shelf and cabinet with lock and keys.	Nos	01	To store Glassware Equipment for issue to students during practical classes
7.	<u>Required:</u> Wall mounted cabinet of size 5' length x 1'6" height x 8 " depth with 1 self made of 19 mm thick ply 0.8 mm laminate pasted with doors and lock.	Nos	02	To display models and students project work.

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CIVIL WORK

<u>S/ No</u>	<u>Particulars</u>	<u>A/U</u>	<u>Qty.</u> <u>Reqd</u>	<u>Remarks</u>
1.	<p>Existing in Physics Lab :Old window side wall inside lab and teachers room damaged by seepage of water.</p> <p><u>Required:</u>34' x 8' wall inside and outside removing old plaster and also same area newly plastered by damp proof chemical and two 25' x 4" drain pipe between roof to outside drain clear and replaced with new pipe fixing the seepage.</p>	Nos	01	The wall is in very bad condition. Every picture , chart , curtains are damaged by the leakage. Modification is necessary.
2.	<p><u>Required:</u> Distemper painting inside the lab , 4 walls and roof and teachers room and also store room and outside wall.</p>	Nos	03 x rooms	For beautification.
3.	<p><u>Required:</u> Curtains with steel pipe with bracket of size 4' x 4' (16 curtains)</p>	Nos	8 x Windo ws	For beautification and complete renovation.
4.	<p><u>Required:</u> Ceiling fan hook , windows and door painting by enamel paint.</p>	Nos	10	To remove rust.
5.	<p><u>Required:</u> Repairing work of electric wiring.</p>	Nos	05	For safety of students.

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TEACHING MODELS

<u>S/No</u>	<u>Teaching models</u>	<u>A/U</u>	<u>Qty. Reqd</u>	<u>Remarks</u>
1	Newton's cradle	Nos.	1	To study effect of force , damping.
2	Newton's disc	Nos.	1	To learn about colours.
3	Euler's disc	Nos.	1	To study motion.
4	Plasma ball	Nos.	1	To study electrostatics.
5	Generator model	Nos.	1	To study electromagnetic induction.
6	Motor model	Nos.	1	To study the mechanism of a motor.
7	Optical fibre	Nos.	1	To understand the function and uses of optical fibre.
8	Wave machine	Nos.	1	To study longitudinal and transverse wave.
9	Pulley	Nos.	1	To utilize Newton's laws.
10	Inclined plane for friction	Nos.	1	To understand friction.