

कार्यालय जिला शिक्षा पदाधिकारी, बक्सर

पत्रांक :- SSA/1090

दिनांक :- 08.06.2026

प्रेषक,

जिला कार्यक्रम पदाधिकारी,
माध्यमिक शिक्षा, बक्सर

सेवा में,

जिला सूचना विज्ञान पदाधिकारी,
बक्सर

विषय :- अल्पकालिन निविदा आमंत्रण के प्रकाशन के संबंध में।

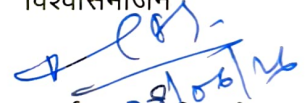
महाशय,

उपर्युक्त विषयक कहना है कि राज्य सरकार के सात निश्चय 3.0 के तहत राज्य के सभी प्रखंडों में डिग्री कॉलेज के स्थापना हेतु कार्रवाई की जानी है। इसी क्रम में बक्सर जिला अन्तर्गत चार प्रखंडों में डिग्री कॉलेज हेतु आवश्यक वस्तुएं और सेवाओं के अधिप्राप्ति हेतु अल्पकालिन निविदा आमंत्रण सूचना का एक प्रति आपको भेजी जा रही है।

अतः इसे जिला के पोर्टल पर अपलोड करने की कृपा की जाए।

अनुमोदन: यथोक्त।

विश्वासभाजन



जिला कार्यक्रम पदाधिकारी,
माध्यमिक शिक्षा, बक्सर

समाहरणालय, बक्सर

अल्पकालीन निविदा आमंत्रण सूचना

राज्य सरकार के सात निश्चय 3.0 के तहत राज्य के सभी प्रखण्डों में डिग्री कॉलेज की स्थापना हेतु कार्रवाई की जानी है। इसी क्रम में बक्सर जिला अन्तर्गत 04 प्रखण्डों में डिग्री कॉलेज हेतु आवश्यक वस्तुएं और सेवाओं की अधिप्राप्ति की जानी है।

इच्छुक आपूर्तिकर्ता निविदा समर्पित करने की अंतिम निर्धारित तिथि दिनांक 15.06.2026 के अपराह्न 03:00 बजे तक जिला शिक्षा पदाधिकारी, बक्सर के कार्यालय में निविदा दाखिल कर सकते हैं। प्राप्त निविदा उसी दिन अपराह्न 04:00 बजे अपर समाहर्ता –सह– जिला लोक शिकायत निवारण पदाधिकारी, बक्सर की अध्यक्षता में उनके कार्यालय प्रकोष्ठ में इस अधिप्राप्ति के लिए गठित क्रय समिति के समक्ष खोली जाएगी। उक्त प्राप्त निविदा खोलते समय निविदाकर्ता स्वयं या उनके प्रतिनिधि उपस्थित रह सकते हैं। विशेष जानकारी के लिए बक्सर जिला की वेबसाईट <http://buxar.nic.in> में Tender section पर देखा जा सकता है।

सीलबंद द्वि-बोली प्रणाली (तकनीकी एवं वित्तीय) के अन्तर्गत योग्य एवं अनुभवी आपूर्तिकर्ताओं/फर्मों से निम्नलिखित वस्तुओं की आपूर्ति एवं स्थापना हेतु निविदाएं आमंत्रित की जाती हैं।

निविदा की महत्वपूर्ण तिथियाँ

विवरण	तिथि
निविदा जारी होने की तिथि	08.06.2026
निविदा अंतिम तिथि	15.06.2026
तकनीकी निविदा खोलना	15.06.2026
वित्तीय निविदा खोलना	15.06.2026

क्रय किए जाने वाले सामग्रियों का विवरण (संक्षेप में)

क्रम सं०	वस्तु का नाम	वस्तु का विवरण	मात्रा
<u>शिक्षण सामग्री</u>			

1	ग्रीन/व्हाइट बोर्ड	अनुलग्नक B(A.1) के अनुसार	6*4
2	डस्टलेस चॉक	अनुलग्नक B(A.2) के अनुसार	26*4
3	डस्टर	अनुलग्नक B(A.3) के अनुसार	10*4
4	डस्टबिन	अनुलग्नक B(A.4) के अनुसार	10*4
5	नोटिस बोर्ड	अनुलग्नक B(A.5) के अनुसार	5*4
6	व्हाइटबोर्ड मार्कर	अनुलग्नक B(A.6) के अनुसार	50*4
7	लेक्चर पोडियम	अनुलग्नक B(A.7) के अनुसार	6*4

फर्नीचर

8	फैकल्टी	अनुलग्नक B(B.1) के अनुसार	6*4
9	कंप्यूटर टेबल	अनुलग्नक B(B.2) के अनुसार	3*4
10	कुर्सियाँ	अनुलग्नक B(B.3) के अनुसार	15*4
11	स्टूडेंट डेस्क-बेंच	अनुलग्नक B(B.4) के अनुसार	75*4

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12	कॉन्फेंस टेबल	अनुलग्नक B(B.5) के अनुसार	1*4
13	टेबल क्लॉथ	अनुलग्नक B(B.6) के अनुसार	10*4
14	सोफा सेट	अनुलग्नक B(B.7) के अनुसार	1*4
15	एग्जीक्यूटिव चेयर	अनुलग्नक B(B.8) के अनुसार	6*4
16	स्टील अलमारी	अनुलग्नक B(B.9) के अनुसार	6*4
17	लाइब्रेरी बुक शेल्फ	अनुलग्नक B(B.10) के अनुसार	7*4

आईटी उपकरण

18	डेस्कटॉप कंप्यूटर+UPS	अनुलग्नक B(C.1) के अनुसार	3*4
19	प्रिंटर कम स्कैनर	अनुलग्नक B(C.2) के अनुसार	2*4
20	कैपस वाई-फाई	अनुलग्नक B(C.3) के अनुसार	1*4
21	पोर्टेबल PA सिस्टम	अनुलग्नक B(C.4) के अनुसार	1*4
22	बायोमैट्रिक मशीन	अनुलग्नक B(C.5) के अनुसार	3*4

विद्युत एवं उपकरण

23	एयर कंडीशनर	अनुलग्नक B(D.1) के अनुसार	2*4
24	रेफ्रिजरेटर	अनुलग्नक B(D.2) के अनुसार	1*4
25	वाटर कूलर+RO सिस्टम	अनुलग्नक B(D.3) के अनुसार	2*4
26	इन्वर्टर+बैटरी	अनुलग्नक B(D.5) के अनुसार	2*4
27	CCTV सिस्टम	अनुलग्नक B(D.6) के अनुसार	1*4
28	वॉल माउंट फैन	अनुलग्नक B(D.7) के अनुसार	12*4
29	LED बल्ब	अनुलग्नक B(D.8) के अनुसार	22*4
30	LED tube light	अनुलग्नक B(D.9) के अनुसार	10*4

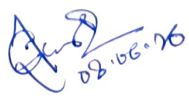
कार्यालय सामग्री (Administrative Consumables)

31	Registers	अनुलग्नक B(E.1) के अनुसार	50*4
32	Files	अनुलग्नक B(E.2) के अनुसार	10*4
33	Stationery Items	अनुलग्नक B(E.3) के अनुसार	1*4
34	Paper Products	अनुलग्नक B(E.4) के अनुसार	1*4
35	Printing and office Supplies	अनुलग्नक B(E.5) के अनुसार	1*4

अन्य सामग्री (Student Facilities)

36	SS वाटर बॉटल	अनुलग्नक B(F.1) के अनुसार	10*4
37	SS ग्लास	अनुलग्नक B(F.2) के अनुसार	20*4
38	मग	अनुलग्नक B(F.3) के अनुसार	10*4
39	रसिंग चेयर	अनुलग्नक B(F.4) के अनुसार	2*4
40	सेनेटरी वैंडिंग मशीन with Incinerator	अनुलग्नक B(F.5) के अनुसार	1*4
41	फर्स्ट एड बॉक्स	अनुलग्नक B(F.6) के अनुसार	1*4
42	कैरम एवं चेस सेट	अनुलग्नक B(F.7) के अनुसार	2*4




 by Lalalalal
 08/06/26




तकनीकी विनिर्देश

सभी वस्तुएँ पूर्व में निर्धारित न्यूनतम तकनीकी विनिर्देशों (ANNEXURE-B) के अनुसार होनी चाहिए।

तकनीकी पात्रता शर्तें

- निविदा के साथ माल एवं सेवाकर अधिनियम (GST) का निबंधन प्रमाण पत्र संलग्न करना अनिवार्य है।
- विगत 02 (दो) वर्षों का आयकर रिटर्न संबंधी कागजात एवं PAN कार्ड का स्वभिप्रमाणित छायाप्रति संलग्न करना अनिवार्य है।
- निविदादाता को उनके फर्म/प्रतिष्ठान के किसी सरकारी अथवा गैर सरकार संस्थान द्वारा काली सूची में दर्ज नहीं किए जाने संबंधी शपथ-पत्र संलग्न करना होगा।
- निविदादाता/आपूर्तिकर्ता का विगत तीन आकलन वित्तीय वर्षों से कम से कम 02 (दो) वित्तीय वर्षों में (प्रति वित्तीय वर्ष) सकल वित्तीय आवर्त राशि (turn over) ₹ 10000000 (एक करोड़ रुपये मात्र) का profit Loss Account and Balance Sheet जो Chartered Accountant द्वारा प्रमाणित होगा।
- निविदादाता/आपूर्तिकर्ता को इस आशय का स्वघोषण पत्र संलग्न करना होगा कि उन्हें निविदा की सभी शर्तें मान्य हैं।
- सरकारी अथवा गैर सरकारी क्षेत्र में सामग्रियों की आपूर्ति का प्रमाण-पत्र की प्रमाणित प्रति संलग्न होना आवश्यक है। एक वित्तीय वर्ष में कुल एक करोड़ रुपये मूल्य की सामग्री आपूर्ति का अनुभव होना चाहिए।
- प्रत्येक सामग्री का स्पेसिफिकेशन और सांकेतिक चित्र संलग्न होना चाहिए।

निविदा शुल्क एवं EMD:- निविदादाता को निविदा शुल्क एवं EMD का अलग-अलग बैंक ड्राफ्ट मूल रूप से तकनीकी निविदा के साथ जमा करना होगा जो कि जिला शिक्षा पदाधिकारी, बक्सर के पदनाम से होगा।

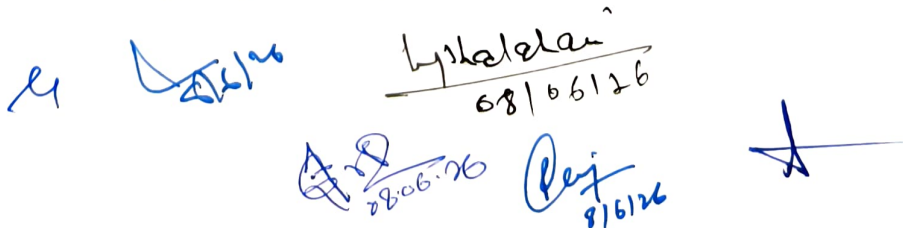
- निविदा शुल्क: 10000 (दस हजार रुपये मात्र)
- Earnest Money Deposit (EMD) 2,00,000 (दो लाख रुपये मात्र)

निविदा प्रक्रिया

- दो-बोली प्रमाणी (Technical & Financial Bid)
- तकनीकी योग्यता प्राप्त बोलीदाताओं की वित्तीय बोली ही खोली जाएगी।

वित्तीय निविदा शर्तें

- तकनीकी निविदा योग्य पाये जानेवाले निविदादाताओं को ही वित्तीय निविदा खोली जाएगी।
- वित्तीय निविदा में सामग्रियों का दर सभी कर/अधिभार एवं अनुलग्नक-A में वर्णित स्थानों पर पहुँचने के लिए परिवहन व्यय आदि सहित अंकित करना आवश्यक होगा।
- निविदादाता/आपूर्तिकर्ता द्वारा सामग्रियों का दर रूप में अंकित करना होगा MRP शब्द मात्र अथवा संकेतिक दर पर उस सामग्री के दर पर विचार नहीं किया जाएगा।

The bottom section of the document contains several handwritten signatures and dates. On the left, there is a signature in blue ink. In the center, there is a signature in blue ink with the date '28.06.26' written below it. To the right of this, there is a signature in blue ink with the date '08/06/26' written below it. Further right, there is a signature in blue ink with the date '08/06/26' written below it. On the far right, there is a signature in blue ink.

- सामग्री पर अंकित अधिकतम खुदरा मूल्य (MRP) राशि का सामग्री के अनुमोदित दर से कम रहने पर अधिकतम खुदरा मूल्य (MRP) राशि के अनुसार ही भुगतान किया जाएगा।
- निविदा में आपूर्ति किए जाने वाले सामग्रियों की गुणवत्ता/मानक स्पष्ट रूप से अंकित होना चाहिए। मानक से किसी प्रकार का समझौता नहीं किया जायेगा।
- वित्तीय निविदा प्रारूप में अंकित कुल दर के आधार पर ही L1 निविदादाता का निर्धारण किया जायेगा।

अन्य सामान्य शर्तें

- सामग्री आपूर्ति के लिए तकनीकी एवं वित्तीय निविदा अलग-अलग सील/मुहरबंद लिफाफे में होगी, जिसे एक बड़े लिफाफे में बंद कर सील किया हुआ होना चाहिए।
- स्वीकृति निविदा के आलोक में निविदादाताओं को एकरारनामा करना होगा, जिसमें अन्य शर्तों के साथ यह शर्त भी उल्लेखित होगा कि आपूर्ति सामग्री की गुणवत्ता एवं मात्रा के अनुसार ससमय आपूर्ति कर देंगे।
- स्वीकृत निविदाकर्ता द्वारा ससमय सामग्रियों की आपूर्ति नहीं किये जाने की स्थिति में आपूर्तिकर्ता के विरुद्ध कानूनी कार्रवाई करते हुए आपूर्ति की गई सामग्री का भुगतान/अग्रधन की राशि जप्त कर ली जायेगी।
- सामग्रियों की आपूर्ति के उपरान्त गुणवत्ता की संतुष्टि होने पर आपूर्तिकर्ता के विपत्र का भुगतान संबंधित डिग्री कॉलेज के माध्यम से किया जायेगा।
- विशिष्टियों व गुणवत्ता के अनुसार सामग्री नहीं पाए जाने पर आपूर्तिकर्ता को स्वयं के खर्च पर अपना सामान वापस ले जाना होगा।
- अधोहस्ताक्षरी को बिना कारण एक अथवा सभी निविदाओं को अस्वीकृत करने अथवा शर्तों में यथा आवश्यक सशोधन करने का अधिकार सुरक्षित होगा।
- निविदा के साथ संलग्न सभी कागजातों का सभी पृष्ठ निविदादाता/आपूर्तिकर्ता द्वारा स्व अभिप्रमाणित एवं पृष्ठांकित करना होगा।
- निर्धारित समय सीमा के अन्दर कार्य निष्पादित/आपूर्ति नहीं करने पर सुरक्षित जामा राशि जब्त कर ली जाएगी तथा निविदादाता/आपूर्तिकर्ता पर सुसंगत धाराओं के तहत कानूनी कार्रवाई की जा सकती है तथा अन्य निविदादाता/आपूर्तिकर्ता से निर्धारित न्यूनतम दर पर सामग्री प्राप्त की जा सकती है।

आपूर्ति एवं स्थापना

- आपूर्ति आदेश के 10 दिनों के भीतर Supply installation testing and commissioning की कार्यवाही पूर्ण करनी होगी।

08/06/26

08/06/26

08/06/26

08/06/26

8/6/26

अपर समाहर्ता-सह-
जिला लोक शिकायत निवारण पदाधिकारी
बक्सर।

अनुलग्नक:-A आपूर्ति हेतु डिग्री कॉलेज की सूची।

क्रम सं०	जिले का नाम	प्रखण्ड	डिग्री कॉलेज का नाम	डिग्री कॉलेज का पता	विद्यालय का डायस कोड	अक्षांश	देशान्तर
1	बक्सर	ब्रह्मपुर	राजकीय डिग्री महाविद्यालय, ब्रह्मपुर	उच्च विद्यालय निमेज, ब्रह्मपुर	10302001106	25.61629	84.28821
2	बक्सर	चक्की	राजकीय डिग्री महाविद्यालय, चक्की	उच्च माध्यमिक विद्यालय लिलाधरपुर, चक्की	10302300905	25.6213	84.2509
3	बक्सर	चौगाई	राजकीय डिग्री महाविद्यालय, चौगाई	प्राथमिक विद्यालय बेलहरी, चौगाई	10302402501	25.5362	84.24421
4	बक्सर	केसठ	राजकीय डिग्री महाविद्यालय, केसठ	उच्च विद्यालय रघुनाथपुर, केसठ	10302200803	25.43853	84.24006

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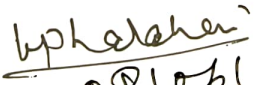
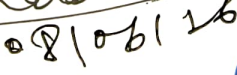
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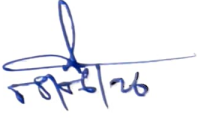
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अनुलग्नक:-C तकनीकी निविदा प्रारूप
जॉच सूची

क्रम सं०	मांग किये गए प्रमाण-पत्रों की सूची	निविदादाता द्वारा दिए गए दस्तावेज
1	फर्म की कानूनी स्थिति:- ● स्वामित्व ● मालिकाना हक ● साझेदारी ● कंपनी ● कोई अन्य	
2	MSME पंजीकरण यदि उपलब्ध हो	
3	निविदादाता PAN कार्ड	
4	निविदादाता जीएसटी (GST) पंजीकरण	
5	पिछले 2 तिमाहियों का जीएसटी रिटर्न	
6	पिछले 3 वर्षों का आयकर रिटर्न	
7	ब्लैक लिस्ट न होने का शपथ पत्र	
8	हस्तांतरण का प्रमाण (चार्टर्ड अकाउंटेंट द्वारा प्रमाणित, यूडीआईएन नंबर अनिवार्य है)	
9	पुलिस अधीक्षक द्वारा जारी चरित्र प्रमाण-पत्र	
10	सरकारी आपूर्ति के अनुभव का प्रमाण	





अनुलग्नक D:- वित्तीय निविदा प्रारूप

1. निविदा का शीर्षक:-

शैक्षणिक संस्थान हेतु सामग्री/उपकरण आपूर्ति के लिए वित्तीय बोली

2. निविदादाता का विवरण:-

फर्म/कंपनी का नाम:-
पता:-
संपर्क व्यक्ति:-
मोबाईल नं०/फोन नं०
ईमेल
जीएसटी नं०

3. वित्तीय बोली तालिका:-

श्रेणी	आइटम कोड	वस्तु का नाम	मात्रा	इकाई दर (₹)	कुल राशि (₹)
शिक्षण सामग्री	A.1	ग्रीन/ब्लैक बोर्ड	24		
शिक्षण सामग्री	A.2	डस्टलेस चॉक	104		
शिक्षण सामग्री	A.3	डस्टर	40		
शिक्षण सामग्री	A.4	डस्टबिन	40		
शिक्षण सामग्री	A.5	नोटिस बोर्ड	20		
शिक्षण सामग्री	A.6	व्हाइटबोर्ड मार्कर	200		
शिक्षण सामग्री	A.7	लेक्चर पोडियम	24		
फर्नीचर	B.1	फैकल्टी टेबल	24		
फर्नीचर	B.2	कंप्यूटर टेबल	12		
फर्नीचर	B.3	कुर्सियाँ	60		
फर्नीचर	B.4	स्टूडेंट डेस्क-बेंच	300		
फर्नीचर	B.5	कॉन्फ्रेंस टेबल	4		
फर्नीचर	B.6	टेबल क्लॉथ	40		
फर्नीचर	B.7	सोफा सेट	4		
फर्नीचर	B.8	एग्जीक्यूटिव चेयर	24		
फर्नीचर	B.9	स्टील अलमारी	24		
फर्नीचर	B.10	लाइब्रेरी बुक शेल्फ	28		
आईटी उपकरण	C.1	डेस्कटॉप कंप्यूटर + UPS	12		

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आईटी उपकरण	C.2	प्रिंटर-कम-स्कैनर	8		
आईटी उपकरण	C.3	कैम्पस वाई-फाई	4		
आईटी उपकरण	C.4	पोर्टेबल PA सिस्टम	4		
आईटी उपकरण	C.5	बायोमेट्रिक मशीन	12		
विद्युत उपकरण	D.1	एयर कंडीशनर	8		
विद्युत उपकरण	D.2	रेफ्रिजरेटर	4		
विद्युत उपकरण	D.3	वाटर कूलर एवं RO सिस्टम	8		
विद्युत उपकरण	D.5	इन्वर्टर + बैटरी	8		
विद्युत उपकरण	D.6	CCTV सिस्टम	4		
विद्युत उपकरण	D.7	वॉल माउंटेड फैन	48		
विद्युत उपकरण	D.8	LED बल्ब	88		
विद्युत उपकरण	D.9	LED Tube Light	40		
Consumable Items	E.1	Registers	200		
Consumable Items	E.2	Files	40		
Consumable Items	E.3	Stationery Items	4		
Consumable Items	E.4	Paper Products	4		
Consumable Items	E.5	Printing and Office Supplies	4		
Student Facilities	F.1	SS Water Bottles	40		
Student Facilities	F.2	SS Glasses	80		
Student Facilities	F.3	Mugs	40		
Student Facilities	F.4	Resting Chair	8		
Student Facilities	F.5	Sanitary Vending Machine with Incinerator	4		
Student Facilities	F.6	First Aid Box	4		
Student Facilities	F.7	Carrom Board & Chess Sets	8		
Total (Including all Taxes)					

5. घोषणा :-

मैं/हम यह प्रमाणित करते हैं कि उपरोक्त दरें सही हैं और हम निविदा की सभी शर्तों से सहमत हैं।

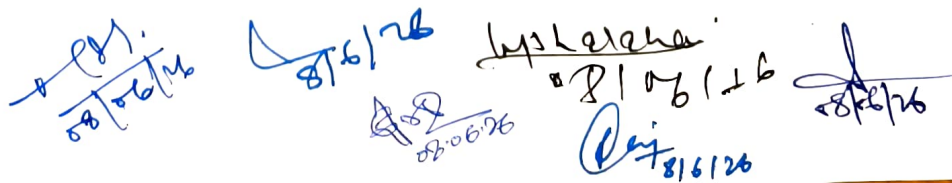
हस्ताक्षर

अधिकृत हस्ताक्षरकर्ता का नाम

पदनाम

दिनांक

मुहर:-



 8/6/26
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अनुलग्नक B

Details technical specification of items

Specifications for item A.1 Green White/ Board

- **General Description:**
 - Supply, installation, and commissioning of **wall-mounted magnetic ceramic steel writing board** with aluminium frame, suitable for intensive use in classrooms, meeting rooms, and offices.
- **Size & Dimensions:**
 - **Overall board size:** 8 ft (Width) × 4 ft (Height)
(Approx. 2400 mm × 1200 mm)
 - **Writing surface tolerance:** ±10 mm
- **Writing Surface:**
 - **Material:** Ceramic coated steel (Porcelain enamel fused on steel)
 - **Surface properties:**
 - Smooth, non-porous, and scratch-resistant
 - Compatible with whiteboard markers (dry erase)
 - Ghosting and stain resistant
 - Anti-glare matte finish for good visibility
 - Magnetic property:
 - Surface must support magnets for attaching papers or accessories
 - **Surface color:** White (standard), unless otherwise specified
- **Backing Material:**
 - High-density resin impregnated particle board / MDF / plywood (minimum 8–10 mm thick)
 - Moisture-resistant and warp-proof
 - Bonded with writing surface using high-pressure lamination or adhesive process
- **Frame:**
 - **Material:** Anodized aluminium
 - **Finish:** Silver matte / satin anodized finish
 - **Thickness:** Minimum 18–22 gauge equivalent
 - **Design:**
 - Rounded or safety corners
 - Rigid construction to prevent bending
 - Corner joints
 - ABS/plastic corner caps (impact resistant) or mitred aluminium joints
- **Tray / Marker Holder**
 - Continuous pen tray (minimum 30 cm, preferably full-length)
 - Material: Aluminium or high-quality plastic
 - Removable or fixed securely to the frame
- **Mounting System**
 - **Type:** Wall-mounted
 - **Mounting hardware:** Included (screws, rawl plugs, brackets)
- **Performance Requirements**
 - Easy erasability without ghosting or shadowing
 - Resistant to
 - Scratches and dents
 - Chemicals (standard cleaning agents)

- Moisture and humidity
- Suitable for heavy daily usage (schools/offices)

Specifications for item A.2 Dustless Chalk

- **Type**
 - Dustless Writing Chalk for Blackboard Use.
- **Material Composition:**
 - High-purity Calcium Carbonate (CaCO_3) with non-toxic binding agents
 - Free from harmful chemicals and heavy metals
- **Color**
 - Colored variants may be supplied if specified
- **Packaging**
 - 100 sticks per box
 - Securely packed to minimize breakage during storage and transport
- **Features**
 - Low-dust formulation for cleaner classroom environment
 - Smooth writing performance
 - High visibility and readability on blackboards
 - Easy to erase without leaving excessive residue
 - Break-resistant and durable
 - Non-toxic and safe for educational use
- **Quality Requirements**
 - Uniform size, shape, and finish
 - Free from cracks, chips, and manufacturing defects
 - Produces clear, consistent markings
- **Pack Size:**
 - 100 Dustless Chalk Sticks per Box..

Specifications for item A.3 Duster

- **General Specification**
 - A wooden-body duster with a replaceable felt pad features a durable, sustainable hardwood handle and a dense, absorbent cleaning surface. Designed for classrooms and offices, this eco-friendly eraser efficiently traps dry-erase marker residue and chalk dust without spreading it.
- **Body Material**
 - Typically crafted from lightweight, polished, and moisture-resistant natural woods like pine
- **Cleaning Pad**
 - Dense, high-absorption wool or synthetic felt
- **Dimensions**
 - Standard sizes range from (10 cm to 15 cm) in length, (5cm to 7cm) in width, and 2 cm to 3cm) in thickness
- **Compatibility**
 - Designed to work smoothly on traditional chalkboards and modern non-magnetic whiteboards without causing scratches.

Specifications for item A.4 Dustbin

- **General Description**
 - Supply of **60-litre capacity High-Density Polyethylene (HDPE) dustbin** with swing-type lid, suitable for indoor/outdoor use in offices, institutions, hospitals, and public areas.
- **Capacity & Dimensions:**
 - **Capacity:** 60 Litres (±5%)
 - **Typical dimensions**
 - Height: 600–750 mm
 - Diameter/Width: 350–450 mm
 - Tolerance: ±5%
- **Material:**
 - **Body material:** Virgin High-Density Polyethylene (HDPE)
 - **Lid material:** HDPE (same or compatible grade)
 - Material properties
 - UV stabilized (for outdoor durability)
 - Non-toxic and eco-friendly
 - Resistant to corrosion, chemicals, and weathering
- **Design & Construction:**
 - **Shape:** Cylindrical / rectangular (as specified)
 - **Construction:** One-piece molded body (preferably injection molded)
 - **Edges:** Smooth, rounded edges for safety
 - **Surface:** Glossy/matte finish, easy to clean
- **Swing-Top Lid:**
 - **Type:** Detachable swing lid (flap type)
 - **Operation:** Free-moving, balanced hinge for easy use
 - **Fit:** Properly seated to prevent odor leakage and insect entry
 - **Color:** Matching or contrasting with body
- **Color Coding:**
 - Available colors (as per solid waste management norms):
 - Green – Biodegradable waste
 - Blue – Dry/recyclable waste
 - Yellow/Red – Biomedical/hazardous (if required)
 - Color must be **uniform, fade-resistant**

Specifications for item A.5 Notice Board

- **Specification:**
 - 4' x 3' Aluminium Framed Felt/Cork Notice Board
- **Product Name:**
 - Aluminium Framed Felt/Cork Notice Board
- **Size:**
 - 4 ft × 3 ft (1200 mm × 900 mm)
- **Board Surface:**
 - High-quality felt fabric or natural cork surface.
 - Suitable for displaying notices, charts, memos, and announcements.
 - Compatible with push pins and thumb tacks.



- **Backing Material**
 - Soft board/cork sheet mounted on rigid MDF or fiberboard backing.
 - Durable construction to prevent warping.
- **Frame**
 - Anodized aluminium frame with smooth finish.
 - Rust-resistant and corrosion-resistant.
 - Rounded plastic corner caps for safety and aesthetics.
- **Mounting**
 - Wall-mountable in portrait or landscape orientation.
 - Supplied with mounting hardware and fixing accessories.
- **Thickness:** Overall board thickness: Approximately 15–20 mm.

Specifications for item A.6 Whiteboard Markers

- **General Description:**
 - Supply of **dry erase whiteboard markers** suitable for writing on non-porous surfaces such as ceramic steel boards, glass boards, and laminate boards.
- **Ink:**
 - Type: **Dry erase, alcohol-based or low-odor solvent-based ink**
 - Properties
 - Quick drying
 - Easy erasability (no ghosting or staining)
 - Non-toxic
 - Color options: **Black, Blue, Red, Green** (standard)
- **Tip / Nib:**
 - Type: **Bullet tip or chisel tip**
 - Tip size
 - Bullet: approx. 2–3 mm line width
 - Chisel: 1–5 mm variable line width
 - Material: Durable fiber tip resistant to fraying
- **Marker Body:**
 - Material: **Plastic (PP/HDPE)**
 - Design
 - Lightweight and comfortable grip
 - Cylindrical or ergonomic shape
 - Barrel color: Same as ink color (preferred)
- **Cap:**
 - Type: Tight-fitting cap to prevent drying
 - Safety: Ventilated cap (as per safety norms)
 - Clip: Pocket clip (optional)

Specifications for item A.7 Lecture Podium

- **General Description:**
 - Lecture Podium (Wooden) with Mic Mount, Reading Light & Storage Cabinet
- **Product Name:**

- Wooden Lecture Podium with Microphone Mount, Reading Light and Storage Cabinet
- **Type:**
 - Floor-Standing Lecture Podium / Speaker's Podium
- **Dimensions (Approx.)**
 - Height: 1200 mm
 - Width: 600–700 mm
 - Depth: 450–550 mm
- **Material**
 - Made from high-quality engineered wood/MDF with laminate finish.
 - Scratch-resistant and moisture-resistant surface.
 - Durable construction suitable for educational and conference environments.
- **Finish**
 - Premium laminate or veneer finish.
 - Available in teak, walnut, oak, or customized colors.
- **Top Reading Surface**
 - Slanted reading desk for comfortable document placement.
 - Raised edge/lip to prevent papers or books from slipping.
 - Smooth, easy-to-clean surface.
- **Microphone Mount**
 - Integrated microphone mounting provision.
 - Suitable for gooseneck microphones.
 - Cable management opening provided for neat wiring.
- **Reading Light**
 - Built-in LED reading light.
 - Adjustable neck for focused illumination.
 - Low power consumption and glare-free operation.
- **Storage Cabinet**
 - Lockable storage compartment with hinged or sliding door.
 - Internal shelf for storing documents, books, laptops, and accessories.
 - Easy access from rear or side panel.
- **Additional Features**
 - Cable management system for microphone and power cables.
 - Ventilation openings for electronic equipment (if required).
 - Stable base design to prevent tipping.
 - Rounded edges for user safety.

Specifications for item B.1 Faculty Table

- **Type**
 - Institutional-grade faculty table suitable for college classrooms, faculty rooms, administrative offices, and academic departments.
- **Dimensions**
 - Length: 1500 mm
 - Width: 900 mm
 - Height: 900 mm
- **Table Top**



- Made of minimum 25 mm thick pre-laminated particle board/MDF board of approved quality.
- Scratch-resistant, stain-resistant, and moisture-resistant surface finish.
- All exposed edges sealed with minimum 2 mm PVC edge banding.
- **Structure**
 - Constructed from high-quality pre-laminated board with suitable internal reinforcement.
 - Strong and stable design suitable for regular institutional use.
 - Smooth finish with no visible joints, cracks, or surface defects.
- **Storage Drawers**
 - Minimum 3 drawers provided on one side.
 - Smooth sliding channels/runners for easy operation.
 - Central locking arrangement for secure storage of documents and personal belongings.
- **Modesty Panel**
 - Full-length modesty panel provided below the tabletop for privacy and structural strength.
- **Storage Cabinet (Optional)**
 - Side storage unit with hinged door and adjustable shelf.
- **Finish**
 - High-quality decorative laminate finish on all exposed surfaces.
 - Moisture-resistant and easy-to-clean surface.
 - Matching edge banding for enhanced durability and appearance.
- **Colour**
 - Powder coated Standard shades such as Walnut, Teak, Beech, Maple, Grey, or approved equivalent.
- **Load Capacity**
 - Designed to support computers, books, files, and normal office equipment without deformation.
- **Design Features**
 - Ergonomic design with adequate legroom.
 - Rounded corners and smooth edges for safety.
 - Professional appearance suitable for academic and administrative environments.
- **Quality Requirements**
 - All materials shall be free from warping, cracks, delamination, and manufacturing defects.
 - Suitable for continuous institutional use.
 - Manufacturer preferably ISO 9001 certified.

- **Warranty**
 - Minimum 3 years warranty against manufacturing defects, structural failure, drawer mechanism defects, and laminate delamination.

Specifications for item B.2 Computer Table

- **Type**
 - Institutional-grade modular computer workstation suitable for college computer laboratories, offices, libraries, and administrative sections.
- **Dimensions**
 - Length: 1200 mm
 - Width: 750 mm
 - Height: 750 mm
- **Table Top**
 - Made of minimum 25 mm thick pre-laminated particle board/MDF board of approved quality.
 - Scratch-resistant, stain-resistant, and moisture-resistant laminate finish.
 - All exposed edges sealed with minimum 2 mm PVC edge banding.
- **Structure & Frame**
 - Heavy-duty MS (Mild Steel) frame or engineered wood structure.
 - Rigid and stable construction suitable for continuous institutional use.
 - Frame fabricated from MS tubular sections with anti-rust treatment.
- **Cable Management**
 - Integrated cable management system with cable ports/grommets.
 - Provision for routing power, network, and peripheral cables neatly and safely.
 - Concealed cable channel/tray wherever applicable.
- **Storage Drawers**
 - Minimum 3-drawer pedestal unit or equivalent storage arrangement.
 - Smooth sliding mechanism with locking provision.
 - Suitable for storage of files, stationery, and accessories.
- **CPU/Peripheral Provision**
 - Dedicated CPU compartment or storage space for computer hardware.
 - Adequate clearance for ventilation and maintenance.
- **Keyboard Provision**
 - Sliding keyboard tray made of pre-laminated board with smooth runners (optional as per requirement).
- **Finish**
 - Laminated surfaces shall be smooth, durable, and easy to clean.
 - MS frame shall be finished with epoxy polyester powder coating.
 - Powder coating thickness: Minimum 50 microns.



- **Colour**
 - Powder coated Standard office shades such as Grey, Maple, Teak, Walnut, Beech, or approved equivalent.
- **Load Capacity**
 - Designed to support desktop computer, monitor, peripherals, and normal office equipment without deformation.
- **Design Features**
 - Ergonomic design suitable for prolonged computer use.
 - Rounded corners and smooth edges for safety.
 - Stable and wobble-free construction.
- **Quality Requirements**
 - All materials shall be free from defects, cracks, warping, and sharp edges.
 - Suitable for continuous institutional and laboratory use.
 - Manufacturer preferably ISO 9001 certified.
- **Warranty**
 - Minimum 3 years warranty against manufacturing defects, structural failure, drawer mechanism defects, and delamination.

Specifications for item B.3 Visitor/Faculty Chairs

- **Type**
 - Institutional-grade visitor/faculty chair suitable for classrooms, faculty rooms, administrative offices, meeting rooms, and reception areas.
- **Design**
 - Ergonomically designed chair with cushioned seat and backrest for enhanced comfort during prolonged sitting.
 - Fixed-type visitor chair with stable four-leg structure.
- **Frame Material**
 - Fabricated from a heavy-duty MS (Mild Steel) tubular frame.
 - Minimum tube thickness: 1.2 mm.
 - Strong welded construction for durability and long service life.
- **Seat & Backrest**
 - High-density polyurethane (PU) foam cushioning.
 - Upholstered with premium-quality fabric, leatherette, or synthetic leather.
 - Adequate padding for comfort and support.
- **Armrests**
 - Fixed armrests made of molded polypropylene, PU, or metal with protective finish (where applicable).
- **Dimensions (Approximate)**



- Overall Height: 800–900 mm
- Seat Width: 450–500 mm
- Seat Depth: 400–450 mm
- Seat Height: 430–480 mm
- **Load Capacity**
 - Minimum load-bearing capacity of 100 kg per chair.
- **Finish**
 - Steel frame shall undergo anti-rust treatment and be finished with epoxy polyester powder coating.
 - Powder coating thickness: Minimum 50 microns.
 - Upholstery shall be wear-resistant and easy to maintain.
- **Colour**
 - Frame: Black, Grey, or approved equivalent.
 - Upholstery: Black, Brown, Blue, Grey, or approved institutional colour powder coated.
- **Design Features**
 - Ergonomic back support for comfortable seating.
 - Rounded edges and smooth finish for user safety.
 - Non-marking anti-skid leg caps provided to protect flooring.
- **Quality Requirements**
 - Suitable for continuous institutional use.
 - Free from defects, sharp edges, cracks, and surface imperfections.
 - Manufacturer preferably ISO 9001 certified.
- **Warranty**
 - Minimum 1-year warranty against manufacturing defects, frame failure, and upholstery defects.

Specifications for item B.4 Student Bench & Desk

- **Type**
 - Institutional-grade 3-seater desk-bench suitable for classrooms, lecture halls, and training rooms in colleges and educational institutions.
- **Seating Capacity**
 - Designed to accommodate 3 students comfortably.
- **Desk Top**
 - Made of minimum **18 mm** thick pre-laminated particle board/MDF board of approved quality.
 - Smooth, scratch-resistant, and stain-resistant laminate finish.
 - All exposed edges sealed with minimum **2 mm PVC edge** banding.
- **Bench Seat**
 - Made of minimum **18 mm thick** pre-laminated board matching the desk finish.
 - Smooth surface with rounded edges for user safety and comfort.

- **Frame Material**
 - Fabricated from heavy-duty MS (Mild Steel) square/rectangular tubular sections.
 - Minimum tube thickness: **1.2 mm**.
 - Rigid welded construction for long service life.
- **Dimensions (Approximate)**
 - Desk Length: **1800 mm**
 - Desk Width: **350–450 mm**
 - Desk Height: **750 mm**
 - Bench Length: 1800 mm
 - Bench Width: **300–350 mm**
 - Bench Height: **450 mm**
- **Storage Provision**
 - Open book shelf/rack beneath the desk made of MS sheet or steel rods for storing books and study materials.
- **Finish**
 - MS frame shall undergo anti-rust treatment and be finished with epoxy polyester powder coating.
 - Powder coating thickness: Minimum **50 microns**.
 - Laminated surfaces shall be moisture-resistant and easy to clean.
- **Colour**
 - Powder coated Standard educational institution colours for frame and laminate, as approved by the purchaser.
- **Design Features**
 - Ergonomically designed for comfortable seating and writing.
 - Rounded corners and smooth edges for safety.
 - Stable, wobble-free construction suitable for intensive classroom use.
- **Load Capacity**
 - Adequate strength to support three adult students and normal classroom usage without deformation.
- **Quality Requirements**
 - All materials shall be free from defects, cracks, warping, and sharp edges.
 - Suitable for continuous institutional use.
 - Manufacturer preferably ISO 9001 certified.
- **Warranty**
 - Minimum 3 years warranty against manufacturing defects, structural failure, and powder coating defects.

Specifications for item B.5 Conference Table

- **Type**
 - Institutional-grade conference/meeting table suitable for college board rooms, conference halls, meeting rooms, and administrative offices.
- **Capacity**

- Designed to comfortably accommodate 8–10 persons.
- Rectangular configuration suitable for meetings, discussions, and presentations.
- **Dimensions**
 - Length: **2400** mm
 - Width: **1200** mm
 - Height: **750** mm
- **Table Top**
 - Made of minimum 25 mm thick pre-laminated particle board/MDF board of approved quality.
 - Scratch-resistant, stain-resistant, and moisture-resistant surface finish.
 - Smooth edges finished with PVC edge banding of minimum 2 mm thickness.
- **Structure & Frame**
 - Heavy-duty frame constructed from powder-coated mild steel (MS) or engineered wood structure.
 - Rigid and stable construction designed for continuous institutional use.
 - Adequate reinforcement provided to prevent sagging or deformation.
- **Legs/Support System**
 - Strong support legs with cross-members or modesty panel for structural stability.
 - Powder-coated steel or laminated panel legs.
 - Adjustable leveling feet for uneven floor surfaces.
- **Finish**
 - Wooden surfaces finished with high-quality laminate.
 - Metal components finished with anti-rust treatment and epoxy polyester powder coating.
- **Modesty Panel**
 - Full or partial modesty panel provided below the tabletop for enhanced aesthetics and privacy.
- **Cable Management**
 - Provision for cable routing/grommets for power, data, and communication cables, wherever required.
- **Load Capacity**
 - Designed to withstand normal institutional usage and meeting equipment load without structural deformation.
- **Colour**
 - Powder coated Standard office shades such as Walnut, Teak, Beech, Maple, Grey, or approved equivalent.
- **Quality Requirements**
 - All materials shall be free from defects, warping, cracks, and surface imperfections.

- Suitable for educational institutions and office environments.
- Manufacturer preferably ISO 9001 certified.

- **Warranty**

- Minimum 3 years warranty against manufacturing defects, delamination, structural failure, and workmanship defects.

Specifications for item B.6 Table Cloth

- **Type**

- Heavy-duty washable table cloth suitable for college conference tables, office tables, seminar halls, meeting rooms, and institutional functions.

- **Material**

- Made from premium-quality heavy-duty fabric.
- Durable, wrinkle-resistant, and suitable for regular institutional use.
- Fabric shall be washable and reusable without significant shrinkage or color fading.

- **Standard Size Table Cloth**

- Dimensions: 60 inches × 90 inches (1525 mm × 2285 mm).
- Suitable for standard office and meeting tables.

- **Large Size Table Cloth**

- Dimensions: 72 inches × 144 inches (1830 mm × 3660 mm).
- Suitable for conference tables, seminar tables, and large institutional tables.

- **Construction**

- Uniform fabric thickness throughout.
- Double-stitched or reinforced hems on all sides to prevent fraying.
- Smooth finish without visible defects, stains, or loose threads.

- **Colour**

- White, Cream, Beige, Blue, Maroon, or other approved institutional colours.
- Colour shall be uniform throughout the fabric.
- Powder coated

Specifications for item B.7 Sofa Set

- **Type**

- Premium institutional-grade sofa set comprising one 3-seater sofa and two 1-seater sofas (total seating capacity: 5 persons).

- **Configuration**

- 1 No. Three-seater sofa.
- 2 Nos. Single-seater sofas.
- Complete set designed for use in college offices, reception areas, meeting rooms, and VIP lounges.

- **Frame Construction**
 - Heavy-duty internal frame made of seasoned hardwood, engineered wood, or powder-coated MS steel structure.
 - Robust construction suitable for continuous institutional use.
 - Anti-warping and termite-resistant materials where applicable.
- **Seat & Back Cushioning**
 - High-density polyurethane (PU) foam cushions.
 - Ergonomically designed seat and backrest for enhanced comfort.
 - Uniform cushioning with long-term shape retention.
- **Upholstery**
 - Premium-quality fabric, leatherette, or synthetic leather upholstery.
 - Wear-resistant, stain-resistant, and easy-to-clean finish.
 - Neatly stitched and wrinkle-free upholstery.
- **Armrests**
 - Padded armrests integrated with sofa frames.
 - Ergonomically designed for user comfort.
- **Dimensions (Approximate)**
 - 3-Seater Sofa: 1800–2100 mm (L) × 750–900 mm (D) × 800–950 mm (H)
 - Single-Seater Sofa: 800–1000 mm (L) × 750–900 mm (D) × 800–950 mm (H)
- **Legs/Base**
 - Heavy-duty wooden, metallic, or powder-coated steel legs.
 - Anti-skid floor protectors provided.
 - Stable and durable base construction.
- **Finish**
 - Exposed metal parts, if any, shall be powder-coated or corrosion-resistant.
 - Wooden components, if any, shall have a smooth protective finish.
- **Load Capacity**
 - Designed to withstand regular institutional usage.
 - Minimum load capacity of 100 kg per seating position
- **Colour**
 - Standard professional shades such as Black, Brown, Grey, Beige, or approved equivalent.
- **Quality Standards**
 - Manufactured using commercial/institutional-grade materials.
 - Suitable for educational institutions, administrative offices, and reception areas.
 - Manufacturer preferably ISO 9001 certified.
- **Warranty**

- Minimum 1-year warranty against manufacturing defects in frame, foam, and upholstery.

Specifications for item B.8 Executive Chair

- **Type**
 - Executive high-back revolving office chair suitable for college administrative offices, faculty rooms, and conference areas.
- **Design**
 - Ergonomically designed high-back chair with integrated lumbar support for enhanced comfort during prolonged use.
- **Seat & Backrest**
 - High-density molded polyurethane (PU) foam cushioning.
 - Contoured seat and backrest for proper posture support.
 - Upholstered in premium-quality fabric, leatherette, or mesh-fabric combination.
 - Water-resistant and easy-to-clean upholstery.
- **Lumbar Support**
 - Built-in ergonomic lumbar support to provide adequate lower back support.
 - Designed to reduce fatigue during extended sitting periods.
- **Armrests**
 - Fixed or adjustable armrests made of durable nylon, polypropylene, or PU material.
 - Ergonomically shaped for comfortable arm support.
- **Revolving Mechanism**
 - 360-degree swivel mechanism for smooth rotation.
 - Heavy-duty synchronized tilt or center-tilt mechanism with locking facility.
- **Height**
 - Pneumatic gas-lift mechanism for seat height adjustment.
 - Smooth and easy operation with adjustment lever.
- **Base**
 - Five-star heavy-duty nylon, fiber-reinforced nylon, or chrome-plated metal base.
 - Stable design suitable for continuous institutional use.
- **Castors**
 - Five twin-wheel nylon castors for smooth mobility.
 - Suitable for tiled, wooden, or carpeted floors.
- **Frame Construction**
 - Strong internal metal frame for durability and long service life.
 - Corrosion-resistant components.
- **Dimensions (Approximate)**

- Height: 1100–1250 mm
- Seat Width: 480–550 mm
- Seat DepthOverall : 450–500 mm
- Adjustable Seat Height: 450–550 mm
- **Load Capacity**
 - Minimum load-bearing capacity of 100–120 kg.
- **Finish**
 - All exposed metal components shall be powder-coated, chrome-plated, or otherwise corrosion-resistant.
- **Quality Standards**
 - Manufactured using commercial-grade materials suitable for institutional use.
 - Manufacturer preferably ISO 9001 certified.
- **Warranty**
 - Minimum 1 year comprehensive warranty against manufacturing defects, gas-lift failure, and mechanism defects.

Specifications for item B.9 Steel Almirah

- **Type**
 - Heavy-duty steel storage almirah suitable for educational institutions, offices, and libraries.
- **Dimensions**
 - Approx. **1855 mm (H) × 910 mm (W) × 480 mm (D)**.
- **Material**
 - Manufactured from prime quality **18-gauge CRCA steel sheet** for body, doors, shelves, and locker.
- **Construction**
 - Rigid welded construction with reinforced frame.
 - Smooth edges and corners for user safety.
 - Double-door design with full-height opening.
- **Shelves**
 - Minimum 4 adjustable steel shelves.
 - Shelves capable of supporting books, files, records, and office materials.
 - Shelf height adjustable to accommodate materials of different sizes.
- **Locker**
 - One built-in locker compartment located inside the almirah.
 - Separate locking arrangement for secure storage of valuables and confidential documents.
- **Locking Arrangement**



- Three-way locking mechanism with handle.
- High-quality built-in lock supplied with at least two keys.
- Doors shall be fitted with suitable locking rods for enhanced security.
- **Finish**
 - Complete anti-rust surface treatment through chemical cleaning and phosphating process.
 - Epoxy polyester powder-coated finish.
 - Powder coating thickness: Minimum 50 microns.
- **Colour**
 - Standard Grey / Ivory Grey or approved equivalent shade powder coated.
- **Ventilation**
 - Suitable ventilation louvers/slots where required for air circulation.
- **Load Capacity**
 - Shelves shall be adequately reinforced to withstand normal institutional usage without deformation.
- **Accessories**
 - Adjustable shelf supports.
 - Handles, hinges, locks, keys, and all necessary fittings.
- **Quality Standards**
 - Steel shall conform to relevant BIS specifications.

Specifications for item B.10 Library Book Shelf

- **General Description**
 - Double-sided free-standing library book rack fabricated from high-quality CRCA steel sheets, designed for systematic storage and display of books in a college library. The unit shall be sturdy, durable, rust-resistant, and powder-coated for long service life.
- **Dimensions**
 - Height: **2100 mm ± 50 mm**
 - Width: **1000 mm ± 25 mm**
 - Depth: **450 mm ± 25 mm**
 - Double-sided configuration with shelves accessible from both sides
- **Material**
 - Made from prime quality CRCA (Cold Rolled Close Annealed) steel sheets.
 - Side panels: Minimum 1.0 mm thick.
 - Shelves: Minimum 0.8 mm thick.
 - Base panel: Minimum 1.2 mm thick.
 - Back support/channel: Minimum 1.2 mm thick.
- **Shelf Arrangement**
 - The rack shall be provided with 5 adjustable shelves in total, excluding the base shelf.

- Shelves shall be adjustable at intervals of 25 mm to 50 mm.
- Each shelf shall have a minimum uniformly distributed load-bearing capacity of 80–100 kg.
- Shelf edges shall be folded and reinforced to prevent bending and improve durability.
- **Construction**
 - Knock-down (KD) or modular construction for easy transportation and installation.
 - Heavy-duty steel uprights with slotted design for shelf adjustment.
 - Central divider panel provided for rigidity and separation of both sides.
 - Smooth edges and corners for user safety.
 - Anti-tilt stable design.
- **Surface Finish**
 - Seven-tank anti-rust chemical treatment process.
 - Epoxy polyester powder coating.
 - Powder coating thickness: 50–70 microns minimum.
 - Scratch-resistant, corrosion-resistant finish.
- **Color**
 - Standard Grey / Light Grey / Ivory Grey powder-coated finish.
 - Other colors may be supplied as approved by the institution.
- **Accessories**
 - Book stopper/book support on shelves.
 - Shelf label holders.
 - Adjustable leveling feet.
 - All necessary nuts, bolts, and fasteners.
- **Load Capacity**
 - Minimum total load capacity: 800–1000 kg per rack.
 - Shelf shall not deform under normal library usage conditions.
- **Quality Requirements**
 - ISO 9001 certified manufacturer preferred.
 - Steel conforming to relevant BIS standards.
 - Powder coating and fabrication workmanship of commercial library-grade quality.
- **Warranty**
 - Minimum 3 years comprehensive warranty against manufacturing defects, rusting, and structural failure.

Specifications for item C.1 Desktop Computer with UPS

- **General Description:** Supply, installation, and commissioning of **branded desktop computer systems with UPS backup**, suitable for office applications such as documentation, internet usage, and standard software operations.
- **Desktop Computer Specification**

- **Processor:** Minimum: **Intel Core i3 (13th Gen or higher)**
- **Motherboard:** Compatible OEM motherboard, Integrated audio, LAN, and graphics support
- **Memory (RAM):** Minimum: **8 GB DDR4 RAM**, Expandable up to **16 GB or more**
- **Storage:** Primary: **1 TB SSD (minimum)**, Optional: Additional **1 TB HDD** (if required)
- **Graphics:** Integrated graphics (suitable for office applications)
- **Monitor:** Size-21.5" LED monitor (minimum), Resolution: HD / Full HD (1366×768 or higher), Anti-glare screen, Matching brand with CPU preferred
- **Keyboard & Mouse:** USB wired keyboard (104 keys standard), USB optical mouse, Same brand as OEM (preferred)
- **Connectivity:** LAN: Integrated **10/100/1000 Ethernet port**, Wireless: Wi-Fi enabled (built-in or adapter), Ports: Minimum 4 × USB ports, HDMI/VGA output, Audio in/out
- **Cabinet:** OEM branded tower cabinet, Adequate ventilation and cooling
- **Operating System:** Pre-installed Genuine OS (Windows 10/11 Professional or latest), Licensed version with activation
- **Software (Minimum):** Basic drivers and utilities, Optional: MS Office / antivirus (if specified)
- **UPS Specification**
 - **Capacity:** Minimum: **600 VA / 360 Watts or higher**
 - **Backup Time:** Minimum: **15–30 minutes** for one desktop system
 - **Battery**
 - Maintenance-free sealed lead-acid battery
 - Recharge time: 4–8 hours (approx.)
 - **Input / Output**
 - Input Voltage: 140–300V AC range
 - Output Voltage: 230V ±10%
 - Frequency: 50 Hz
 - **Protection Features**
 - Overload protection
 - Short circuit protection
 - Surge protection
 - Battery deep discharge protection
 - **Indicators:** LED indicators / audible alarms for:
 - Power status
 - Battery status
 - Low battery warning
- **Performance Requirements**
 - Reliable performance for office applications
 - Low noise operation
 - Energy-efficient components
- **Compliance & Certification**
 - OEM must be ISO certified
 - Products should comply with
 - BIS certification (if applicable)
 - Energy Star / EPEAT (preferred)
- **Warranty**

- Desktop: Minimum **3 years onsite warranty**
- UPS: Minimum **1–2 years warranty**
- Battery: Minimum **1 year warranty**
- **Installation & Delivery**
 - Complete installation and commissioning at site
 - Pre-loaded OS and drivers
 - Ready-to-use condition
- **Accessories**
 - Power cables, connectors
 - UPS input-output wiring
 - User manuals
- **Inspection & Acceptance Criteria**
 - System must boot properly with OS installed
 - All components must be functional
 - UPS backup test required
 - No physical damage or defects

Specifications for item C.2 Printer-cum-Scanner

- **General Description:** Supply, installation, and commissioning of multifunction printer (Print, Scan, Copy) suitable for office use with moderate workload.
- **Printing Specification:**
 - Technology
 - Laser
 - Monochrome
 - Print Speed
 - Minimum:
 - **30 pages per minute (ppm)** for monochrome
 - Print Resolution
 - Minimum: **600 × 600 dpi**
 - Higher resolution preferred (e.g., 1200 dpi equivalent)
 - Duplex Printing
 - Automatic duplex
- **Scanning Specification:**
 - Scanner Type
 - Flatbed scanner
 - Automatic Document Feeder (**ADF preferred**)
 - Scan Resolution
 - Minimum: **600 × 600 dpi (optical)**
 - Scan Features
 - Scan to
 - PC
 - Email (if network-enabled)
 - File formats: PDF, JPEG, PNG (minimum)
- **Copying Specification:**
 - Copy speed: Same as print speed (approx.)
 - Multi-copy feature (up to 99 copies)
 - Resize: 25%–400% (approx.)

- **Paper Handling:**
 - Input tray capacity: Minimum **150 sheets**
 - Output tray: Minimum **100 sheets**
 - Paper sizes supported:
 - A4 (mandatory)
 - A5 / Legal (preferred)
 - Media types
 - Plain paper, envelopes, labels
- **Connectivity:**
 - **USB 2.0 or higher** (mandatory)
 - **Network (Ethernet/Wi-Fi) preferred**
 - Mobile printing support (Wi-Fi models, optional)
- **Control Panel:**
 - LED/LCD display for status and operation
 - User-friendly interface
- **Duty Cycle & Performance:**
 - Monthly duty cycle: Minimum **5,000–10,000 pages**
 - Recommended monthly volume as per OEM
- **Consumables:**
 - Toner/Ink
 - Standard cartridge included
 - Economical cost per page
 - Availability of consumables in local market
- **Power Specification:**
 - Power supply: **220–240V AC, 50 Hz**
 - Energy-efficient design
- **Software & Drivers:**
 - Compatible with Windows (10/11) and common OS
 - Drivers and utilities to be provided
- **Build & Design:**
 - Compact, desk-friendly design
 - Robust construction for office use
- **Warranty:**
 - Minimum **1-year onsite warranty**
 - Option for extended warranty (preferred)
- **Installation & Support:**
 - Installation at site included
 - Demo and basic user training (if required)
- **Compliance & Certification:**
 - OEM should be ISO certified
 - Product compliance with
 - BIS (if applicable)
 - Energy Star (preferred)
- **Inspection & Acceptance Criteria**
 - Print, scan, and copy functions must be fully operational
 - Proper connectivity and driver installation



- No defects or physical damage

Specifications for item C.3 Campus Wi-Fi

- **General Description:** Supply, installation, configuration, and commissioning of **enterprise-grade Wi-Fi Access Points** for campus-wide wireless connectivity, supporting high user density and seamless roaming.
- **Wi-Fi Standards**
 - Must support **IEEE 802.11 a/b/g/n/ac (minimum)**
 - Support for **802.11ax (Wi-Fi 6) preferred**
 - Backward compatibility with legacy devices
- **Frequency Bands**
 - Dual band: 2.4 GHz and 5 GHz
 - Band steering capability preferred
- **Data Rates**
 - Minimum aggregate throughput: **1.2 Gbps or higher**
 - MU-MIMO support preferred
- **User Capacity**
 - Support for minimum **50–100 concurrent users per AP**
 - Suitable for high-density environments (classrooms, offices, halls)
- **Coverage**
 - Indoor AP coverage: Minimum **15–25 meters radius**
 - Outdoor AP (if applicable): **50 meters or more**
 - Adjustable transmit power
- **Network Interface**
 - Minimum **1 × Gigabit Ethernet (10/100/1000 Mbps) port**
 - Auto MDI/MDIX support
- **Power Requirements**
 - **Power over Ethernet (PoE) support (IEEE 802.3af/at) – mandatory**
 - Optional DC adapter support
- **Security Features**
 - WPA2/WPA3 Enterprise security
 - 802.1X authentication support
 - MAC address filtering
 - VLAN support
 - Guest network segregation
- **Management & Control**
 - Web-based GUI management
 - Centralized controller-based or cloud management (preferred)
 - SNMP support
 - Firmware upgrade capability (remote)
- **Roaming & Performance**
 - Seamless roaming between APs



- Load balancing across APs
- QoS (Quality of Service) support
- Bandwidth control per user
- **Mounting**
 - Wall/ceiling mount kit included (for indoor APs)
 - Pole/wall mount (for outdoor APs)
- **Build & Environmental**
 - Indoor AP: Compact and aesthetically suitable for office/classroom use
 - Outdoor AP (if required):
 - Weatherproof (minimum **IP65 rating**)
 - Operating temperature: -10°C to +50°C
- **Indicators**
 - LED indicators for
 - Power
 - Network status
 - Wireless activity
- **Compliance & Certification**
 - Must comply with
 - **IEEE standards**
 - **Wi-Fi Alliance certification**
 - Regulatory approvals (WPC/ETA in India)
 - OEM must be **ISO certified**
- **Warranty & Support**
 - Minimum **3 years warranty**
 - Firmware updates during warranty period
 - Technical support from OEM/authorized partner
- **Installation & Configuration**
 - Site survey (if required)
 - Proper mounting and cabling
 - Configuration of SSID, security, VLANs
 - Testing and commissioning
- **Accessories**
 - Mounting kits
 - PoE injector (if switch not PoE enabled)
 - Required cables/connectors
- **Inspection & Acceptance Criteria**
 - Signal strength and coverage verification
 - Seamless connectivity test
 - Speed/performance testing
 - Security configuration validation

Specifications for item C.4 Portable PA System

- **General Description:** Supply, installation, and commissioning of **portable public address (PA) system** with built-in amplifier, speaker, and wireless connectivity, suitable for announcements, small gatherings, training sessions, and outdoor use.
- **Power Output**



- Minimum **30–60 Watts RMS output power**
 - Clear and distortion-free sound at full volume
- Speaker
 - Built-in speaker system (full range)
 - Speaker size: Minimum **6.5"–8" woofer**
 - Frequency response: Approx. **80 Hz – 15 kHz or better**
- Amplifier
 - Integrated amplifier with volume and tone control
 - Low distortion and background noise
- Microphone
 - Wireless Microphone
 - Minimum **1 wireless handheld microphone**
 - Operating range: Minimum **20–30 meters**
 - UHF/VHF technology (UHF preferred for clarity)
 - Wired Microphone (Optional)
 - 1 wired mic input support (6.3 mm jack or XLR)
- Inputs & Connectivity
 - USB port (for pen drive playback)
 - SD card slot (optional)
 - AUX input (3.5 mm or RCA)
 - Bluetooth connectivity (range ~10 m)
 - Mic input(s) (minimum 1)
- Playback Features
 - Supports MP3 playback via USB/SD
 - Basic controls: Play, Pause, Volume, Next/Previous
 - Remote control (optional)
- Battery & Power
 - Built-in **rechargeable battery**
 - Backup time: Minimum **4–6 hours**
 - Charging time: 6–8 hours (approx.)
 - AC power operation (220–240V, 50 Hz) supported
- Portability
 - Compact and lightweight design
 - Carry handle / trolley with wheels (preferred)
 - Rugged enclosure for transport
- Controls & Indicators
 - Volume control (main & mic)
 - Tone control (bass/treble – preferred)
 - LED indicators for power, charging, battery status
- Build & Construction
 - Durable plastic/ABS enclosure
 - Shock-resistant design
 - Suitable for indoor and light outdoor use
- Accessories
 - Wireless microphone(s)
 - Power cable
 - User manual
 - Remote control (if applicable)



- Performance Requirements
 - Clear audio output without distortion
 - No feedback noise under normal use
 - Stable wireless microphone connectivity
- Compliance & Certification
 - OEM should be ISO certified
 - Compliance with relevant safety standards (CE/BIS if applicable)
- Warranty
 - Minimum **1-year warranty**
 - Battery warranty: Minimum **6–12 months**
- Installation & Demonstration
 - Ready-to-use supply
 - Basic demonstration to end users (if required)
- Inspection & Acceptance Criteria
 - All functions (mic, Bluetooth, USB playback) must work
 - Clear sound output at maximum volume
 - Battery backup test
 - No physical damage or defects

Specifications for item C.5 Bio Metric Device

- **Type:**
 - Biometric attendance system suitable for attendance management of teachers, staff, and students in colleges and educational institutions.
- **Authentication Modes:**
 - Fingerprint recognition.
 - RFID card authentication.
 - Face recognition (preferred).
 - PIN/password authentication (optional).
- **User Capacity:**
 - Minimum 2,000 fingerprint templates.
 - Minimum 2,000 face templates (where face recognition is provided).
 - Minimum 2,000 RFID card capacity.
 - Expandable user database for future growth.
- **Attendance Records:**
 - Minimum storage capacity of 50,000 attendance transactions.
 - Automatic recording of date, time, and user identity for each attendance event.
 - Ability to maintain attendance logs for students, faculty, and staff.
- **Display:**
 - Minimum 2.8-inch TFT/LCD colour display.
 - User-friendly graphical interface.
- **Communication Interface:**
 - TCP/IP Ethernet connectivity.
 - USB port for data transfer and backup.
 - Wi-Fi connectivity (preferred).
 - Support for cloud and centralized attendance management systems.
- **Verification Speed:**



- Authentication time is less than 1 second.
 - Fast and accurate identification suitable for high-volume student attendance.
- **Accuracy:**
 - Fingerprint matching accuracy $\geq 99\%$.
 - Face recognition accuracy $\geq 99\%$ under standard operating conditions.
- **Software Features:**
 - Attendance management software included.
 - Daily, monthly, and yearly attendance reports.
 - Employee/student database management.
 - Export reports in Excel, CSV, and PDF formats.
 - Integration capability with ERP, HRMS, or Student Information Systems.
- **Power Supply:**
 - Operates on 100–240V AC, 50 Hz.
 - Inbuilt rechargeable battery backup of minimum 2–4 hours preferred.
- **Construction:**
 - Robust ABS plastic or metal housing.
 - Wall-mounted or desktop installation.
 - Suitable for institutional indoor environments.
- **Security Features:**
 - Administrator and user access levels.
 - Data encryption and secure storage.
 - Anti-spoofing technology for biometric verification.
- **Operating Environment:**
 - Temperature: 0°C to 45°C.
 - Relative Humidity: 20% to 80% non-condensing.
- **Accessories:**
 - Power adapter.
 - Mounting kit.
 - Communication cables.
 - Attendance management software license.
- **Quality Requirements:**
 - Device shall be CE/FCC/RoHS compliant or equivalent.
 - Suitable for educational institutions with high daily attendance volume.
 - Manufacturer/OEM preferably ISO 9001 certified.
- **Warranty:**
 - Minimum 1-year comprehensive onsite warranty against manufacturing defects and hardware failure.
- **Supply & Installation:**
 - Complete supply, installation, configuration, software setup, testing, and training included.
 - Devices shall be delivered fully operational and integrated with the institution's attendance system.

Specifications for item D.1 Air Conditioner

- **Specification Air Conditioner**

- 1.5 TR Inverter Split AC, 5-Star Rated
- **Capacity**
 - Cooling Capacity: 1.5 Ton ($\approx$ 5.2 kW)
 - Suitable for rooms up to 150–180 sq. ft. (approx.)
- **Energy Efficiency**
 - BEE 5-Star Energy Rating
 - Inverter Compressor Technology for energy-efficient operation
 - High ISEER rating as per latest BEE norms
- **Compressor**
 - Variable Speed Rotary/Twin Rotary Inverter Compressor
 - Low noise and high efficiency
- **Refrigerant**
 - R32 (Eco-friendly, low environmental impact) or equivalent latest refrigerant
- **Indoor Unit Features**
 - High-quality ABS plastic body
 - LED display with temperature indication
 - Auto restart function
 - Turbo cooling mode
 - Sleep mode
 - Dehumidification mode
 - Self-diagnosis function
- **Air Filtration**
 - HD Dust Filter / PM2.5 Filter
 - Anti-bacterial and anti-microbial filtration system
 - Easy-to-clean filters
- **Air Flow**
 - 4-way air swing
 - High air delivery for uniform cooling
 - Auto air direction control
- **Operating Conditions**
 - Wide voltage operation without stabilizer (approximately 140V–290V)
 - Suitable for ambient temperatures up to 52°C (or manufacturer standard)
- **Condenser Coil**
 - 100% Copper Condenser Coil
 - Blue-fin/anti-corrosion coating for enhanced durability
- **Noise Level**
 - Low-noise operation for indoor comfort
- **Remote Control**
 - Wireless LCD remote control
 - Timer, sleep, turbo, and mode selection functions
- **Power Supply**
 - 230V AC $\pm$ 10%, 50 Hz, Single Phase
- **Installation**
 - Complete wall-mounting accessories supplied
 - Standard installation as per manufacturer recommendations
- **Accessories Included**
 - Indoor Unit
 - Outdoor Unit



- Remote Control with Batteries
- User Manual
- Mounting Hardware
- **Warranty**
 - Minimum 1 Year Comprehensive Warranty
 - 5 Years Warranty on PCB (if applicable)
 - 10 Years Warranty on Inverter Compressor (or manufacturer standard)
- **Compliance**
 - Conforms to latest BEE Energy Efficiency Standards and applicable BIS safety requirements.

Specifications for item D.2 Refrigerator

- **Specification Refrigerator**
 - 300 Litre Frost-Free Refrigerator
- **Product Name**
 - Frost-Free Refrigerator (300 Litre Capacity)
- **Type**
 - Double Door Frost-Free Refrigerator
- **Gross Capacity**
 - Approximately 300 Litres
- **Net Storage Capacity**
 - As per manufacturer standard (approx. 270–300 Litres)
- **Cooling Technology**
 - Frost-Free Cooling System
 - Multi-Air Flow for uniform cooling
 - Automatic Defrost Function
- **Energy Efficiency**
 - BEE Star Rated (3-Star or higher)
 - Energy-efficient operation
- **Compressor**
 - Inverter Compressor / Digital Inverter Compressor
 - Low noise and energy-saving performance
- **Refrigerant**
 - Eco-friendly refrigerant (R600a, R134a, or latest equivalent)
- **Body Construction**
 - Corrosion-resistant pre-coated steel exterior
 - High-quality food-grade plastic interior
 - PUF insulated cabinet for efficient cooling retention
- **Refrigerator Compartment Features**
 - Toughened glass shelves
 - Adjustable shelves
 - Large vegetable crisper with humidity control
 - Door racks for bottles and containers
 - LED interior lighting
- **Freezer Compartment Features**



- Separate freezer section
- Ice tray and ice storage box
- Fast-freeze function (if available)
- **Temperature Control**
 - Adjustable electronic/mechanical temperature control
 - Separate cooling controls as per model specification
- **Electrical Specifications**
 - Power Supply: 230V AC, 50 Hz, Single Phase
 - Wide voltage operation with stabilizer-free performance (subject to model)
- **Additional Features**
 - Door lock and key
 - Auto-defrost system
 - Low-noise operation
 - Anti-bacterial door gasket
 - Spill-proof shelves
 - Recessed or external handle design
- **Dimensions**
 - As per manufacturer's standard design for 300 L capacity
- **Accessories Included**
 - Ice tray
 - Egg tray
 - User manual
 - Warranty card
- **Warranty**
 - Minimum 1 Year Comprehensive Warranty
 - 10 Years Warranty on Compressor (or manufacturer standard)

Specifications for item D.3 Water Cooler+RO System

Water Cooler

- **Specification**
 - Water Cooler – 80–100 Litre Stainless Steel Body
- **Type Storage**
 - Water Cooler with Inbuilt Refrigeration Unit
- **Storage Capacity**
 - 80–100 Litres
- **Cooling Capacity**
 - Minimum 40–60 Litres per Hour (LPH) at standard operating conditions
- **Body Material**
 - Outer Body: Stainless Steel (SS 304 Grade preferred)
 - Inner Tank: Food-Grade Stainless Steel (SS 304)
- **Construction**
 - Double-wall insulated construction with PUF insulation
 - Corrosion-resistant and hygienic design
- **Cooling System**
 - Hermetically sealed high-efficiency compressor
 - Eco-friendly refrigerant (R134a/R290 or equivalent)
 - Forced air-cooled condenser



- **Water Dispensing**
 - Minimum 2 stainless steel faucets/taps
 - Smooth and leak-proof operation
- **Temperature Range**
 - Chilled water temperature: Approximately 8°C–15°C under standard conditions
- **Electrical Specifications**
 - Power Supply: 230V AC, 50 Hz, Single Phase
 - Energy-efficient operation
- **Features**
 - Food-grade water storage tank
 - Fast cooling performance
 - Low maintenance design
 - Rust-proof and durable construction
 - Overload and thermal protection for compressor
 - Easy cleaning and servicing access
- **Mounting/Installation**
 - Floor-standing type
 - Ready for connection to water supply and drainage system
- **Accessories**
 - Water inlet connection
 - Drain arrangement
 - Power cord and plug
- **Warranty**
 - Minimum 1 Year Comprehensive Warranty
 - Compressor warranty as per manufacturer standards
- **Compliance**
 - Conforming to applicable BIS/ISI standards and electrical safety requirements.

RO System

- **Specification**
 - Commercial RO Water Purifier (50–100 LPH)
- **Product Name**
 - Commercial Reverse Osmosis (RO) Water Purification System
- **Type**
 - Commercial RO Water Purifier with Multi-Stage Filtration
- **Purification Capacity**
 - 50–100 Litres Per Hour (LPH)
- **Storage Capacity**
 - 50–100 Litres (if storage tank is included)
 - Food-grade storage tank
- **Purification Technology**
 - Sediment Filtration
 - Activated Carbon Filtration
 - Anti-Scalant Dosing (if applicable)
 - Reverse Osmosis (RO) Membrane
 - UV Sterilization (optional)
 - Post Carbon Filtration



- **RO Membrane**
 - High-performance Thin Film Composite (TFC) membrane
 - Capable of removing dissolved salts, heavy metals, bacteria, and impurities
- **Water Recovery**
 - Minimum 40–60% recovery or as per system design
- **Construction**
 - Powder-coated MS frame or Stainless Steel (SS 304) skid-mounted structure
 - Corrosion-resistant body and piping
- **Feed Water Requirements**
 - TDS Handling Capacity: Up to 2000 ppm (or as specified by manufacturer)
 - Feed Water Pressure: As per system design requirements
 - Feed Water Temperature: 5°C–45°C
- **Electrical Specifications**
 - Power Supply: 230V AC, 50 Hz, Single Phase
 - Energy-efficient operation
- **Pump**
 - Heavy-duty high-pressure booster pump
 - Continuous-duty rated motor
- **Control System**
 - Automatic operation with low/high-pressure protection
 - Auto shut-off system
 - Dry-run protection
 - TDS monitoring provision
- **Performance Features**
 - High purification efficiency
 - Continuous water production
 - Low maintenance operation
 - Easy membrane replacement and servicing
- **Safety Features**
 - Overload protection
 - Leak-resistant plumbing connections
 - Electrical safety protection
- **Accessories Included**
 - Pre-filter assembly
 - RO membrane housing
 - High-pressure pump
 - Pressure gauges
 - Flow meters
 - Storage tank (if specified)
 - Interconnecting piping and fittings
- **Warranty**
 - Minimum 1 Year Comprehensive Warranty against manufacturing defects
 - Consumables and membranes excluded as per manufacturer policy
- **Compliance**
 - Conforms to applicable BIS standards and drinking water treatment requirements.



Specifications for item D.5 Inverter + Battery

- **Specification**
 - Inverter with Battery – 5 kVA Pure Sine Wave Inverter with Tubular Batteries
- **Product Name**
 - 5 kVA Pure Sine Wave Inverter with Tubular Batteries
- **Inverter Specifications Type**
 - Pure Sine Wave Inverter/UPS
- **Charging System:**
 - Intelligent automatic battery charging
 - Overcharge and deep discharge protection
- **Display & Indicators:**
 - LCD/LED display for mains status, battery status, charging, load level, and fault indication
- **Protection Features:**
 - Overload protection
 - Short-circuit protection
 - Reverse polarity protection
 - Battery low-voltage protection
 - Over-temperature protection
 - Surge protection
- **Battery Specifications**
 - Tall Tubular Lead-Acid Batteries
- **Battery Life:**
 - Long service life with deep-cycle performance
- **System Features**
 - Automatic changeover between mains and battery operation
 - High backup efficiency
 - Suitable for continuous operation
 - Silent operation
 - Compatible with computers, lighting, fans, networking equipment, and office appliances

Specifications for item D.6 CCTV System

- **Specification**
 - CCTV Surveillance System – 16 IP Cameras with NVR, 30-Day Storage, Monitor & Accessories
- **Product Name**
 - IP-Based CCTV Surveillance System (16 Cameras)
- **Quantity:**
 - 16 Nos. IP Network Cameras
- **Camera Type**
 - Outdoor/Indoor Bullet or Dome Cameras as required
- **Image Sensor**
 - Minimum 1/2.8" Progressive Scan CMOS
- **Resolution**
 - Minimum 4 MP (2560 × 1440) or higher



- **Video Compression:**
 - H.265+/H.265/H.264
- **Lens**
 - Fixed Lens 2.8 mm to 4 mm or equivalent
- **Night Vision**
 - Infrared (IR) Night Vision with minimum 30 m range
- **Day/Night Function**
 - Automatic ICR (IR Cut Filter)
- **Weather Protection:**
 - IP66 or higher weatherproof rating for outdoor cameras
- **Power Supply**
 - PoE (Power over Ethernet) or 12V DC
- **Network Video Recorder (NVR) Type**
 - 16-Channel Network Video Recorder
- **Recording Capacity**
 - Supports all 16 cameras simultaneously
- **Video Compression**
 - H.265+/H.265/H.264
- **Storage Interface**
 - Multiple SATA ports for surveillance HDDs
- **Network Interface**
 - 10/100/1000 Mbps Ethernet Port
- **Remote Access**
 - Web browser, mobile app, and desktop client support
- **Storage Hard Disk Drive**
 - Surveillance-grade HDD(s) of sufficient capacity to provide minimum 30 days continuous recording for all cameras at configured resolution and frame rate
- **Recording Mode**
 - Continuous, scheduled, and motion-detection recording
- **Monitor Size**
 - Minimum 32-inch LED Monitor/Display
- **Resolution**
 - Full HD (1920 × 1080) or higher
- **Connectivity**
 - HDMI and VGA inputs
- **System Features**
 - Live view, playback, backup, and remote monitoring
 - Motion detection and event notifications
 - Date and time stamping
 - User access management
 - Digital zoom and video analytics support (if available)
 - Multi-screen display capability

Accessories & Installation

- **Included Accessories:**
 - PoE Switch (if required)
 - Cat-6 UTP Network Cable



- RJ45 Connectors
- Camera Mounting Brackets
- Junction Boxes (where required)
- Power Adapters/SMPS (if non-PoE)
- Network Rack/Cabinet (if required)
- HDMI Cable and all interconnections
- **Warranty**
 - Cameras and NVR: Minimum 2 Years Warranty
 - HDD: As per manufacturer warranty
 - Installation workmanship warranty included
- **Compliance**
 - Equipment shall conform to applicable BIS/IEC standards and ONVIF compatibility requirements.

Specifications for item D.7 Wall Mount Fan

- **Type:**
 - Heavy-duty wall-mounted fan suitable for classrooms, lecture halls, laboratories, libraries, and other educational institution spaces.
- **Sweep Size:**
 - Minimum 400 mm (16 inches) sweep diameter.
- **Motor:**
 - High-performance copper-wound motor.
 - Designed for continuous operation with low power consumption.
 - Thermal overload protection preferred.
- **Speed:**
 - Minimum speed of 1300 RPM or higher.
 - Three-speed or multi-speed operation.
- **Air Delivery:**
 - Minimum air delivery of 70–90 cubic meters per minute (CMM) or equivalent.
 - Uniform air circulation suitable for classroom environments.
- **Blades:**
 - Three aerodynamic blades made of metal or high-quality engineering plastic.
 - Dynamically balanced for smooth and vibration-free operation.
- **Oscillation:**
 - Automatic oscillation mechanism with adjustable oscillation angle.
 - Option for fixed-direction operation.
- **Mounting Arrangement:**
 - Complete wall-mounting bracket with necessary hardware.
 - Strong and stable mounting suitable for institutional use.
- **Safety Features:**
 - Powder-coated metal safety guard on both front and rear sides.
 - Finger-safe design complying with applicable safety standards.
- **Power Supply:**
 - Operates on 230V AC $\pm 10\%$, 50 Hz single-phase power supply.
- **Noise Level:**
 - Low-noise operation suitable for classrooms and teaching environments.
- **Finish:**
 - Corrosion-resistant powder-coated finish.



- All metal parts are treated against rust and corrosion.
- **Colour:**
 - White, Grey, Black, or approved equivalent standard colour.
- **Controls:**
 - Regulator or speed control provision.
 - Easy-to-operate controls for speed and oscillation.
- **Energy Efficiency:**
 - Energy-efficient design with low operating cost.
 - Preferably BEE-rated where applicable.
- **Quality Requirements:**
 - Product shall conform to relevant BIS/ISI standards.
 - Suitable for continuous operation in educational institutions.
 - Manufacturer preferably ISO 9001 certified.
- **Warranty:**
 - Minimum 2-year comprehensive warranty against manufacturing defects and motor failure.

Specifications for item D.8 LED BULB

- **Type:**
 - Energy-efficient LED bulb suitable for classrooms, laboratories, libraries, offices, corridors, hostels, and other institutional areas.
- **Rated Power:**
 - 9W to 15W LED bulb (or as specified by the purchaser).
- **Input Voltage:**
 - 220–240V AC, 50 Hz single-phase supply.
- **Luminous Flux:**
 - Minimum 900–1500 lumens depending on wattage.
 - High brightness with uniform light distribution.
- **Colour Temperature:**
 - Cool White (6500K) or Neutral White (4000K), as required.
- **Lamp Base:**
 - Standard B22 or E27 cap suitable for conventional fittings.
- **Efficacy:**
 - Minimum 100 lumens per watt.
- **Power Factor:**
 - Minimum 0.90.
- **Colour Rendering Index (CRI):**
 - Minimum CRI ≥ 80 for comfortable and accurate illumination.
- **Construction:**
 - High-quality polycarbonate/aluminium housing.
 - Diffuser designed to provide glare-free and uniform lighting.
- **Life Span:**
 - Minimum rated life of 25,000 burning hours.
- **Energy Efficiency:**
 - Low power consumption with high energy savings compared to conventional lamps.
- **Surge Protection:**
 - In-built surge protection against voltage fluctuations.
- **Operating Conditions:**



- Suitable for indoor use in educational institutions.
- Reliable performance under normal environmental conditions.
- **Safety & Standards:**
 - Product shall conform to relevant BIS standards.
 - Preferably BEE-rated and RoHS compliant.
- **Finish & Colour:**
 - White housing with durable, heat-resistant finish.
- **Warranty:**
 - Minimum 2 years warranty against manufacturing defects and premature failure.

Specifications for item D.9 LED Tube Light

- **Type:**
 - Energy-efficient LED tube light suitable for classrooms, laboratories, libraries, offices, corridors, seminar halls, and other institutional areas.
- **Size:**
 - Standard 1200 mm (4 feet) LED tube light fitting.
- **Rated Power:**
 - 18W to 20W LED tube light.
- **Input Voltage:**
 - 220–240V AC, 50 Hz single-phase supply.
- **Luminous Flux:**
 - Minimum 1800–2200 lumens.
- **Colour Temperature:**
 - Cool White (6500K) or Neutral White (4000K), as specified.
- **Efficacy:**
 - Minimum 100 lumens per watt.
- **Power Factor:**
 - Minimum 0.90.
- **Colour Rendering Index (CRI):**
 - Minimum CRI ≥ 80.
- **Construction:**
 - High-quality aluminium and polycarbonate body.
 - Robust, lightweight, and corrosion-resistant construction.
 - Diffused cover for uniform, glare-free illumination.
- **Driver:**
 - Integrated high-efficiency electronic LED driver.
 - Protection against over-voltage, short circuit, and power fluctuations.
- **Beam Angle:**
 - Minimum 120° beam angle for uniform light distribution.
- **Life Span:**
 - Minimum 50,000 operating hours.
- **Energy Efficiency:**
 - Low power consumption with high illumination output.
 - Suitable for continuous operation in educational institutions.
- **Mounting:**
 - Surface-mounted or wall/ceiling-mounted complete fitting.
 - Supplied with all necessary mounting accessories and hardware.
- **Finish & Colour:**

- White powder-coated or equivalent durable finish.
- **Safety & Standards:**
 - Product shall conform to relevant BIS/ISI standards.
 - Preferably BEE-rated and RoHS compliant.
- **Warranty:**
 - Minimum 3 years comprehensive warranty against manufacturing defects and driver failure.

Specifications for item E.1 - E.5 Administrative Consumables

- **Specification**
 - Administrative Consumables – Registers, Files, Stationery, paper products, printing & office supplies & Record-Keeping Materials, (One-Year Requirement),
- **Scope**
 - Supply of administrative consumables required for routine office, academic, examination, accounts, and record-keeping activities for a period of one year.
- **E.1 Registers - The package shall include, but not be limited to:**
 - Student Admission Register
 - Attendance Registers
 - Staff Attendance Register
 - Visitor Register
 - Inward/Outward Correspondence Register
 - Dispatch Register
 - Stock Register
 - Library Issue Register
 - Examination Register
 - Fee Collection Register
 - Cash Book Register
 - Asset Register
 - Complaint Register
 - Movement Register
 - Meeting Minutes Register
 - Leave Register
- **Specifications**
 - Hard-bound registers
 - Minimum 80–300 pages as applicable
 - Good-quality ruled paper (minimum 70 GSM)
 - Durable binding with indexed pages
- **E.2 Files and Record Management**
 - Lever Arch Files
 - Box Files
 - Spring Files
 - Flat Files
 - Expanding Files

- File Covers and Jackets
- Record Storage Folders
- Document Index Sheets
- File Tags and Fasteners
- **Specifications**
 - Heavy-duty board/PVC construction
 - A4/Foolscap size compatibility
 - Durable metal fittings where applicable
- **E.3 Stationery Items- The package shall include, but not be limited to:**
 - Ball Pens (Blue, Black, Red)
 - Gel Pens
 - Pencils
 - Permanent Markers
 - Whiteboard Markers
 - Highlighters
 - Erasers
 - Sharpeners
 - Scale/Rulers
 - Staplers
 - Staple Pins
 - Paper Punches
 - Scissors
 - Cutter Knives
 - Glue Sticks and Adhesives
 - Correction Pens/Tapes
 - Rubber Bands
 - Binder Clips
 - Paper Clips
 - Drawing Pins
 - Push Pins
- **E.4 Paper Products**
 - A4 Copier Paper (75–80 GSM)
 - Legal-Size Paper
 - Note Sheets
 - Writing Pads
 - Spiral Notebooks
 - Envelopes (Various Sizes)
 - Sticky Notes
 - Index Cards
- **E.5 Printing and Office Supplies**
 - Printer Paper
 - Printer Toners/Ink Cartridges (as required)
 - Carbon Paper
 - Labels and Stickers
 - Stamp Pads
 - Date Stamps and Numbering Stamps
- **Quality Requirements**
 - All stationery items shall be of reputed make and standard commercial quality.



- Paper products shall be free from defects and suitable for office printing and record keeping.
- Consumables shall be supplied in original manufacturer packaging.
- **Usage- Suitable for:**
 - Administration Offices
 - Principal's Office
 - Accounts Department
 - Examination Cell
 - Library Administration
 - Staff Rooms
 - Academic Record Management
- **Supply Period**
 - Quantity shall be sufficient to meet the estimated requirement of the institution for one academic year.
- **Warranty/Replacement**
 - Damaged, defective, or non-conforming items shall be replaced by the supplier at no additional cost.

Specifications for item F.1 SS Water Bottles

<u>Component</u>	<u>Specification</u>
Type	Reusable Stainless Steel Water Bottle
Material Grade	Food-grade Stainless Steel SS 304 (18/8) for bottle body; BPA-free components for cap/seal
Capacity	750 ml – 1 Liter
Construction	Seamless, leak-proof design with durable body construction

Specifications for item F.2 SS Glasses

<u>Component</u>	<u>Specification</u>
Type	Stainless Steel Drinking Glass/Tumbler
Material Grade	Food-grade Stainless Steel SS 304 (18/8) preferred
Capacity	250–350 ml

Specifications for item F.3 Mugs

<u>Component</u>	<u>Specification</u>
Type	Utility mug for washroom and hygiene purposes

Material	Virgin-grade polypropylene (PP), high-density polyethylene (HDPE), or stainless steel
Capacity	1 to 1.5 liters

Specifications for item F.4 Resting Chair

<u>Component</u>	<u>Specification</u>
Type	Reclining resting chair / patient examination and recovery chair
Frame Material	Heavy-duty mild steel with powder-coated finish or stainless-steel frame
Seat & Backrest Material	High-density foam cushioning with antimicrobial, waterproof, and easy-to-clean upholstery
Reclining Mechanism	Adjustable backrest with multiple reclining positions, including near-flat resting position
Dimensions	Approx. 1800–1900 mm (L) × 550–700 mm (W) × 450–500 mm (H)
Weight Capacity	Minimum 120 kg load-bearing capacity
Armrests	Ergonomically designed padded armrests
Leg Support	Integrated adjustable leg rest or footrest

Specifications for item F.5 Sanitary Vending Machine with Incinerator

<u>Component</u>	<u>Specification</u>
Vending Machine Type	Wall-mounted or free-standing automatic/semi-automatic sanitary napkin vending machine.
Capacity	Minimum 30–50 sanitary napkins storage capacity.
Dispensing Mechanism	Coin-operated, token-operated, smart card, or push-button dispensing system.
Body Material	Powder-coated steel, stainless steel, or high-impact ABS plastic with corrosion-resistant finish.
Display & Indicators	Low-stock indicator and operational status indicator.

Specifications for item F.6 First Aid Box



Purpose: To provide immediate medical assistance for minor injuries, illnesses, and emergencies until professional medical care is available.

<u>Component</u>	<u>Specification</u>
First Aid Box Type	Industrial-grade, wall-mountable or portable first-aid kit with durable plastic or metal casing.
Construction	Dust-proof, moisture-resistant, impact-resistant body with secure locking mechanism.
Identification	Clearly marked with a red/green cross symbol and "FIRST AID" labeling.
Contents	Comprehensive set of first-aid supplies and essential OTC medicines as permitted by local regulations.
Sterile Dressings	Assorted sterile gauze pads, adhesive dressings, wound dressings, and bandages.
Antiseptics	Antiseptic solution/wipes for wound cleaning and infection prevention.
Medicines	Basic over-the-counter medicines for pain relief, fever, allergies, and digestive discomfort, subject to institutional and regulatory guidelines.
Emergency Tools	Scissors, tweezers, safety pins, thermometer, and instant cold pack.

Specifications for item F.7 Carrom & Chess Sets

<u>Component</u>	<u>Specification</u>
Carrom Board	Competition-grade, full-size board conforming to standard tournament dimensions (approximately 74 cm × 74 cm playing surface).
Carrom Frame	High-quality hardwood frame with smooth finish and reinforced corners.
Playing Surface	Water-resistant plywood/MDF with polished, low-friction surface.
Carrom Coins	Complete set of 19 coins (9 black, 9 white, 1 red queen) made of durable material.
Striker	Standard tournament striker, smooth-edged, 15–15.5 g weight.

