

SOFTWARE PRODUCTS				Gem3.0
Product Category - Educational or Reference Software (UNSPC Code:43232500)				
SMART CLASS EQUIPMENT WITH DIGITAL CONTENTS SOFTWARE (UNSPC CODES:43232511)				
BASIC INFORMATION				
S.No	KEY	TYPE	RESTRICTIONS	PARAMETERS
1	Type of Digital E Learning solution	Enumerable	Smart Class With Digital Contents Software	Golden
2	Equipment Supplied in the offered product are	Enumerable	1. Digital Contents Software 2. CPU 3. Interactive Board 4. Projector 5. Speaker 6. UPS 7. Central Control 8. Mini Computer	Golden (Multiselect)
3	Whether the offered product is Make in India	Boolean	YES,NO	Golden
4	Installation alongwith supply of necessary items for networking , cabling, fitting/fixtures, Commissioning and Demonstration of the offered product by the seller at buyer premises	Enumerable	1.A smart classroom setup by installation of all supplied hardware with proper networking and cabling. 2. Installation of educational content 3. Demonstration of functional operation of smart class set up	Golden (Multiselect)
5	No. of days Training Provided at Site	Enumerable	0, upto to 5,6 to 10,11 to 20,21 to 30	Golden
6	Number of Years upto which Support is available from OEM / Seller	Enumerable	1, 2, 3, 5	Golden
CPU				
7	CPU (Hint:- Select NA if not applicable)	Enumerable	Intel Core I7 , Intel Core I5, Intel Core I3, Dual Core, Intel Atom, Other, NA	Golden
8	If Others , then indicate the name of the processor	Text		Mandataory
9	Make & Model number of CPU (Hint:- Write NA if not applicable)	Text		Mandataory
10	OEM of the CPU (Hint:- Write NA if not applicable)	Text		Mandataory
11	Processor Generation	Enumerable	6th,7th,8th,Other,NA	Golden
12	If Other, then indicate the processor generation	Text		Mandataory
13	RAM (GB)	Enumerable	2,4,8,16,32,64,96,NA	Golden
14	RAM upgradable upto (GB)	Enumerable	8,16, NA	Golden (Multiselect)
15	Hard Disk Capacity (GB)	Enumerable	128,256,500,1000,2000, NA	Golden
16	Hard Disk Upgradable upto (GB)	Enumerable	1000,2000,NA	Golden (Multiselect)
17	Operating Systems preloaded/supplied alongwith CPU	Enumerable	Windows 7 Professional, Windows 8 Professional,Windows 10 Professional, Linux,DOS, NA	Golden (Multiselect)
18	No. of USB 2.0 Ports (Nos)	Enumerable	1,2,3,4,5,NA	Golden
19	No. of USB 3.0 Ports (Nos)	Enumerable	1,2,3,4,5,NA	Golden
20	Ports/Components are available/supplied along with CPU	Enumerable	1. VGA Port 2. LAN Port 3. Keyboard 4. Mouse /Track Pad , NA	Golden (Multiselect)

Mini Computer				
21	Processor of Mini Computer (Hint:- Select NA if not applicable)	Enumerable	Intel Core I7 , Intel Core I5, Intel Core I3, Dual Core,Quad Core, Intel Atom, NA	Golden
22	Number of bits of the processor	Enumerable	32, 64, NA	Golden
23	Indicate processor speed (Hint:- Write NA if not applicable) in GB	Text		Mandataory
24	Make & Model number of Mini computer (Hint:- Write NA if not applicable)	Text		Mandataory
25	OEM of the Mini computer (Hint:- Write NA if not applicable)	Text		Mandataory
26	RAM (GB)	Enumerable	1,2,3,4,8,16,32,64,NA	Golden
27	Operating Systems preloaded/supplied alongwith CPU	Enumerable	Windows 7 Professional, Windows 8 Professional,Windows 10 Professional, NA	Golden (Multiselect)
28	No. of USB 2.0 Ports (Nos)	Enumerable	1,2,3,4,5,NA	Golden
29	No. of USB 3.0 Ports (Nos)	Enumerable	1,2,3,4,5,NA	Golden
30	Ports/Components are available/supplied along with Mini computer	Enumerable	1. VGA Port 2. LAN Port 3. CSI Camera Port 4. DSI Display Port 5. Full size HDMI video output 6. MicroSD card slot 7. On board Bluetooth 4.1 8. 3.5mm composite audio output jack 9. Micro USB power 5V input 10. Wifi 11.Broadcom BCM2837 12. Micro USB Power 5V input 13.Keyboard . 14. Mouse /Track Pad , 15. NA	Golden (Multiselect)
INTERACTIVE BOARD				
31	Diagonal size of Interactive Board in inches Hint:- Select NA if not applicable)	Enumerable	72,74,76,78,80,82,84,86,88,90,92,94,96, NA	Golden
32	Make & Model number of Interactive Board (Hint:- Write NA if not applicable)	Text		Mandataory
33	OEM of the Interactive Board (Hint:- Write NA if not applicable)	Text		Mandataory
34	Surface material of Boards	Enumerable	1. Ceramic Steel Surface 2.Painted Steel Surface, 3.Laminate Surface, NA	Golden
35	Board Aspect Ratio	Enumerable	4:3, 5:4, 16:9, 16:10 , NA	Golden
36	Touch interface	Enumerable	Touch sensitive, pen driven, Touch sensitive as well as pen driven, NA	Golden (Multiselect)
37	Touch Technology	Enumerable	Resistive, Electromagnetic, Infrared, Ultra sonic, Capacitive, Optical, Anoto, NA	Golden (Multiselect)
38	Number of touch points	Enumerable	2,3,4,6,8,10 , NA	Filter (Multiselect)
39	Response time (in milli seconds)	Enumerable	Less than 1,2,3,4,5,6,7,8,9,10 , NA	Golden
40	Operating system Compatability	Enumerable	Windows 7 Professional, Windows 8 Professional,Windows 10 Professional, Linux,DOS, NA	Filter (Multiselect)
41	Input HDMI ports (Nos) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)

42	No. of USB 2.0 Ports (Nos) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
43	No. of USB 3.0 Ports (Nos) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
44	Audio Input ports (Numbers) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
45	Audio output ports (Numbers) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
46	RS-232 C ports (Numbers) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
47	RJ 45 ports (Numbers) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
48	VGA-IN ports (Numbers)(Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
49	VGA OUT ports (Numbers) (Hint:- Select Zero '0' if not applicable)	Numeric	0-5	Golden (Higher is better)
50	In built Speakers	Boolean	Yes,No	Golden
51	If yes in the above parameter then indicate Speaker Output (Watt)	Text		Mandatory
52	Number of electronic pen or stylus to be supplied with the board (Numbers) (Hint:- Select Zero '0' if not applicable)	Numeric	0-40	Golden (Higher is better)
53	Connectivities are available with Interactive Board	Enumerable	1. Bluetooth connectivity 2. Wi-fi connectivity ,NA	Filter (Multiselect)
54	Indicate Power Supply and Power Consumption of Interactive Board (Hint:- Write NA if not applicable)	Text		Manadatory
55	Provision for wall mounting	Boolean	Yes, No	Golden
56	Standard Accessories to be supplied	Enumerable	1.Cordless Pen 2.USB Extender Hub 8 Meters 3. All connecting Cables and accessories to be supplied along with the Board 4. Installation Kit to be supplied alongwith the Board 5. Operating and Installation Manual, NA	Golden (Multiselect)
57	Warranty of Interactive Board (in years)	Enumerable	1,2,3,5, NA	Golden
PROJECTOR				
58	Type of Projector (Hint:- Select NA if not applicable)	Enumerable	LCD, DLP,NA	Golden
59	Projection Method (Hint:- Select NA if not applicable)	Enumerable	Front ,Rear , NA	Golden (Multiselect)
60	Make & Model number of Projector (Hint:- Write NA if not applicable)	Text		Mandataory
61	OEM of the Interactive Board (Hint:- Write NA if not applicable)	Text		Mandataory
62	Type of Lens	Enumerable	Standard Throw, Ultra Short Throw,Short Throw, NA	Golden (Multiselect)
63	Native Resolution	Enumerable	640 × 480 , 800 × 600, 1024 × 768, 1280 × 960, 1400 × 1050, 1600 × 1200, 2048 × 1536, 2800 × 2100, 3200 × 2400, 1024 × 576, 1280 × 800, 1366 × 768, 1440 × 900, 1680 × 1050, 1920 × 1200, 2560 × 1600, 3840 × 2400, 3840 × 2160 , NA	Golden

64	Brightness (Lumens)	Numeric	2400 ,2600, 2800,3000,3200,3400,3600,3800,4000,4 200,4400,NA	Golden
65	Contrast Ratio (Minimum)	Enumerable	1000 : 1, 2500 : 1, 3000 : 1, 13000 : 1, 26000:1 , NA	Mandatory
66	Zoom	Enumerable	1.1x, 1.2x,1.5x ,2x , NA	Golden (Multiselect)
67	Lowest range of Throw Ratio (Hint :- For example select 1.4 for lowest range for Throw ratio 1.4 to 2.2)	Enumerable	1.1 , 1.2, 1.3, 1.4, 1.5 ,1.6 ,1.7, 1.8, 1.9, 2.0, NA	Golden
68	Highest range of Throw Ratio Hint :- For example select 2.2 for highest range for Throw ratio 1.4 to 2.2)	Enumerable	1.5,1.6,1.7,1.8,1.9,2.0,2.1,2.2,2.3,2.4,2.5, 2.6,2.7,2.8, NA	Golden
69	Aspect Ratio	Enumerable	4 : 3, 16 : 9, 16 : 10, NA	Golden
70	Keystone Correction	Enumerable	Automatic, Manual, Automatic & Manual Both, NA	Filter (Multiselect)
71	Projection Lamp	Enumerable	UHP, LED, Laser, LED & Laser Hybrid, NA	Golden
72	Minimum Life of projection Lamp (In Normal Mode) (Hours)	Enumerable	2000 , 2100, 2200, 2300, 2400, 2500 , 2700, 3000, NA	Golden
73	Integrated Devices with projector are	Enumerable	1. Lamp Hour Counter 2.Video Compatibility 3.Inbuilt Speaker 4.HDMI/DVI Port 5. Analog RGB In Port 6. Analog RGB Out Port 7.Audio In 8.Audio Out 9. Video In 10.Storage Media Port (USB- Type A) 11.WiFi Availabilty 12. LAN Connectivity, 13.3D Ready NA	Golden (Multiselect)
74	Noise Level in Sleep Mode (dB) (Hint:- Select Zero '0' if not applicable)	Numeric	0-40	Golden (Lower is better)
75	Noise Level in Normal Mode (dB) (Hint:- Select Zero '0' if not applicable)	Numeric	0-50	Golden (Lower is better)
76	Indicate Power Supply (Vac) (Hint:- Write NA if not applicable)	Text		Mandatory
77	Indicate Power Consumption (Watt) in Sleep Mode, Normal Mode (Hint:- Write NA if not applicable)	Text		Mandatory
78	BIS Registration under CRS of Meity	Boolean	Yes, No	Golden
79	If Yes in above parameter then indicate BIS Registration Number (Hint:- Write NA if not applicable)	Text		Mandatory
80	Warranty of the projector in years	Enumerable	1,2,3,5, NA	Golden
SPEAKERS				
81	Rating of speakers in Wattage (Hint:- Select NA if not applicable)	Enumerable	10,20,30,40,50,60,70,80,90,100,120,150,2 00,250,300,NA	Golden
82	Speaker wattage in terms of	Enumerable	RMS, PEAK	Filter
83	Number of Speakers	Enumerable	2,4,6,8 , NA	Golden
84	Speaker Type	Enumerable	Main Speaker, Woofer, Monitor Speaker, Tweeter NA	Golden (Multiselect)
85	Amplification Method	Enumerable	Passive Speaker, Powered Speaker NA	Golden

86	If Powered , Amplifier Class	Enumerable	Class A, Class B , Class C,Class D , NA	Golden
87	Configuration	Enumerable	One Way, Two Way, Three Way, Four Way, NA	Golden
88	Connectors	Enumerable	XLR (Male), XLR (Female), 3.5mm, RCA Pin, USB, SpeakON, 1/4 Inch (6.35mm), Stripped Cable Socket , NA	Golden (Multiselect)
89	Indicate BIS Registration Number under CRS of Meity for Powered Amplifier (Hint:- Write NA if not applicable)	Text		Mandatory
90	Indicate AC Power Input (Hint:- Write NA if not applicable)	Text		Mandatory
91	Warranty of speaker in Years	Numeric	1,2,3,5, NA	Golden
UPS				
92	Type of UPS offered	Enumerable	Offline	Golden
93	Rating of UPS in KVA	Enumerable	0.5, 0.65, 0.8, 1.0, 1.2, 1.5,2.0, NA	Golden
94	Technology	Enumerable	MOSFET-PWM, IGBT-PWM , NA	Golden
95	Type of transformer	Enumerable	With isolation, Without isolation , NA	Golden
96	Rated Output (Volt)	Enumerable	1. Single phase sinewave 230v AC , 50Hz 2. Single Phase Quasi-Sin- wave 230 V AC, 50 Hz , NA	Golden
97	Inverter Efficiency	Numeric	70, 80,85,90,95,97,99,NA	Golden
98	not applicable)	Numeric	0-40	Golden (Lower is better)
99	Switching over time (Mili second) (Hint:- Select Zero '0' if not applicable)	Numeric	0-10	Golden (Lower is better)
100	Load power factor	Enumerable	0.6,0.65,0.7,0.75,0.8,0.85,0.9,0.95, NA	Golden
101	Output voltage regulation in %(Hint:- Select Zero '0' if not applicable)	Numeric	0-10	Golden (Lower is better)
102	UPS can withstand 10% Overload for the time in minutes	Enumerable	10,20,30,40,50,60,NA	Golden
103	Type of battery in scope of supply	Enumerable	SMF-VRLA , Tubular , NA	Golden
104	Rated Battery Output Voltage (in volts)	Enumerable	12,NA	Filter
105	Backup time (Minutes)	Enumerable	15, 30, 60, 90, 120, 180, 240, NA	Golden
106	Rated Ampere Hour (AH) of the offered battery in AH	Enumerable	9,12,18,24,26,38,42,65,100,110,115,1 20, 150, 180, 200, 230,NA	Golden (Multiselect)
107	Number of batteries are in scope of supply	Enumerable	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15, NA	Golden
108	Minimum VAH (VAH) offered (Hint:- Select Zero '0' if not applicable)	Numeric	0 - 10000	Golden (Higher is better)
109	Input (Voltage range)	Enumerable	120-260, 120-280, 140-260, 140-280, 160-260,160-280 , NA	Golden

110	Protection provided in the UPS are	Enumerable	1. Short circuit protection 2. Over voltage protection 3. Under voltage protection 4. Over load protection 5. Battery protection , NA	Golden (Multiselect)
111	Type of enclosure	Enumerable	Mild steel, ABS , NA	Filter
112	Availability of the type test report from central Govt./NABL/ILAC Accredited Lab	Boolean	Yes , No	Filter
113	If yes, then indicate Type Test certificate no. and date	Text		Mandatory
114	Name of Lab (Hint:- Write NA if not applicable)	Text		Mandatory
115	Address of Lab (Hint:- Write NA if not applicable)	Text		Mandatory
116	As per Meity (Government of India) guidelines indicate valid BIS CRS certifications as applicable (Hint:- Write NA if not applicable)	Text		Mandatory
117	Warranty for UPS (Years)	Enumerable	1, 2, 3, 4, 5 , NA	Golden
118	Movable trolley for Batteries	Enumerable	With trolley , Without trolley but with rack , NA	Golden
119	Warranty for battery in years	Enumerable	1, 2,3,4,5, NA	Golden
120	Degree of Protection of UPS	Enumerable	IP21, IP20 , NA	Golden
CENTRAL CONTROL				
121	Central Controller	Enumerable	Available, Not Available , NA	Golden
122	Provisions available in controller are	Enumerable	System On/off, PC on/off, Projector on/off, volume control keys, external PC input ,VGA input etc, NA	Golden(Multiselect)
SOFTWARE				
123	Level (Class) for Digital E Learning software offered (Hint:- Select NA if not applicable)	Enumerable	1,2,3,4,5,6,7,8,9,10,11,12, NA	Golden (Multiselect)
124	Name of the Educational Board for which software is Applicable	Enumerable	CBSE,ICSE, State Boards , NA	Golden
125	If State Boards, then indicate the name of the State Board	Text		Manadatory
126	Name of the Subjects for Digital E Learning	Enumerable	Mathematics, Science, Physics, Chemistry, Biology, Social Studies, Political science, History, Psychology, Sociology, Geography, Disaster Management, Civics, Economics, Accounts, Business Studies, Computer Science, Information Technology, Biotechnology, Environmental science, Art & Craft, English, Hindi, Sanskrit, Others, NA	Golden (Multiselect)
127	If Others, then indicate the name of the subject	Text		Manadatory

128	Multilingual User Interface supported by the offered product	Enumerable	English,Hindi,Assamese, Bengali, Bodo, Dogri, Gujarati, ,Kannada, Kashmiri, Konkani, Maithili, Malayalam, Manipuri, Marathi, Oriya, Punjabi, Sanskrit, Santhali, Sindhi, Tamil, Khasi, Mizo, Telugu ,Urdu , NA	Golden
129	Software Model / Part No. (Hint:- Write NA if not applicable)	Text		Mandataory
130	Software Version & Date of Launch of Version (Hint:- Write NA if not applicable)	Text		Mandataory
131	Method of Depolyment	Enumerable	Online,Offline,Desktop,Mobile,Tablets,Virtual, Server, NA	Golden (Multiselect)
132	Attribute of E learning solution	Enumerable	1.Student Centered .2.Interactive.3.Engaging.4.User Friendly.5.Pedagogy Based.6. Aligned to school prescribed curriculum , NA	Filter (Multiselect)
133	General features of the Software	Enumerable	1.Contents are mapped as per Class wise, Subject wise, Chapter wise and Topic wise 2 Concepts is in a Layered Structure and Heirarchical format. 3.Content demonstrarte proper concept clarity. 4. It help students in establishing a clear connection between Textbook and Digital Content 5.It focus on conceptual clarity,model reading, listening experinces etc. 6. Provision for relevant manual pertaining to academic and administration 7. Provision for virtual Lab. 8. Proper security features to protect system from misuse within the class and Online , NA	Filter (Multiselect)
134	Contents Features of the software	Enumerable	1. Contents are clearly represented, structured and accurate. 2. Contents are accessible with good response time. 3.Availability of different learning approaches 4. The voice of Male and Female experts are available in Indian accent. 5. Allow user to add additional content like Image, Videos, Audio files, Documents, PDF Files etc. as learning aids , NA	Golden (Multiselect)
135	Reports Features of the Software	Enumerable	1. Provision for Academic progress monitoring tabular report 2. Provision for Academic progress monitroing graphical report 3.Provision for Quiz tabular report 4. Provision for Quiz graphical report 5.Provision for User wise content upload Tabular Report. 6. Provision for User wise content upoload Graphical report.7.Provision for Subject wise,class wise and teacher wise usage report of each topic 8.Provision forReport Export to pdf feature , NA	Golden (Multiselect)

136	Features Related to Questions	Enumerable	1.Provision for Teachers Prepare & Add Lesson Planning Feature.2.Provision for MCQ Type Quiz Subject wise 3. Provision for MCQ Type Quiz Chapter wise 4. Provision for MCQ Type Inline Quiz Content wise 5.Board question paper for atleast last 10 years 6. Interactive Games 7.Goods and effective graphics, and animations based on imaginative analogies. 8. Short animations/videos to cater child attention span. 9. Chapter wise summary, NA	Golden (Multiselect)
137	Miscellaneous Features of the software	Enumerable	1.Incorporate E-books especially of CBSE/NCERT. 2.Teacher/student can stop at any point and restart after a pause from the same point in the topic.All modules is having pause; play, fast forward,index, assessment and rewind facilities. 3. Search feature with multilingual support 4. Product help and FAQ feature 5. Tracking and Assessment 6. Provision for Start Learning Session from last studied feature 7. Adding Bookmarks. 8. Adding own resources , NA	Golden (Multiselect)
138	Provision for Role Supported	Enumerable	1. Admin 2. Subject Matter Expert (SME) 3. Teacher 4. Student 5. Parent , NA	Golden (Multiselect)
139	Any other features	Text		Manadatory
OPERATING CONDITION				
140	Min. Operating tempature in degree celsius	Enumerable	-10,-5,0,+5,+10	Filter
141	Max. Operating tempature in degree celsius	Enumerable	35,45,55	Filter
142	Operating Humidity (RH)	Enumerable	80%,85%,90%,95%	Filter







