Response to Pre-Bid Queries

S No.	Organization	Section No.	Page No.	Clause as per RPF	Clarification Sought	Pre-Bid Query Response
1	Amrita Vishwa Vidyapeetham	Section 6.2	43	Clause: For MSME/NSIC Registered bidder/Startups/Trust the bidder must have average annual turnover of 2 crores from the business of educational digital/econtent development during the last three financial year i.e., 2020-21, 2021-22 and 2022-23. The bidder should have positive net worth in each of the last three financial year i.e., 2020-21, 2021-22 and 2022-23	Please update turnover to turnover/grant	No Change in Tender Conditions
2	Amrita Vishwa Vidyapeetham	Section 6.2	43	Clause: The bidder must have successfully executed the work of development of Educational digital/e-content of either single work order of value not less than 4 crore or two work orders of value not 2.4 Crores or three work orders of value not less than 2 crores in any of the last 5 years preceding on bid due date for any Indian Government Department / Ministry / State / District / PSU / Autonomous bodies / Universities / Colleges / Schools.	Please update to executed or executing, with the same amounts given as received during the period.	No Change in Tender Conditions

3	Amrita Vishwa Vidyapeetham	Section 6.2	43	Clause: The bidder should have experience of development of at least 3000 minutes of educational digital/econtent during the last five years preceding on bid due date for Indian Government Department / Ministry / State / District / PSU / Autonomous bodies / Universities / Colleges / Schools	We request that for some projects with certain ministries, don't provide completion certificates. In such instances, we request that meeting minutes signed by ministry or email confirmation from officials of the ministry be considered as proof for project completion	Formal confirmation from client is required
4	Amrita Vishwa	Section 5.2	15	2. Concepts Section: Through 2D and 3D animations and videos, the concepts section explains the fundamental principles and theories underpinning the skills, aiding learners in connecting theory with practice.	For the Concepts Section, can we opt to use either animation or video presentation for a particular experiment, or is it required to include both animation and video?	Refer Annexure 1 of corrigendum 2

5.	Amrita Vishwa Vidyapeetham	Section 5.2	15	Practice Section: In this segment, students can actively engage with the skills through immersive 3D simulations, enabling them to practice and refine their abilities in a controlled environment.	Can the expert determine, based on the experiment, whether a 2D or 3D simulation would be more effective, allowing for a mix of both formats to enhance the user experience?	Refer Annexure 1 of corrigendum 2
6.	Amrita Vishwa Vidyapeetham	Section 5.20	38	Training: Deliver comprehensive training sessions to designated client personnel. Cover content management, system administration, troubleshooting, and tool or platform utilization.	Could you please clarify whether the training should occur after the project is fully completed or while the project is still in progress?	Training will be done upon project completion
7.	Amrita Vishwa Vidyapeetham	Section 5.5.1	18	Video: The voice narration for videos or presenter narrative should be in clear neutral English and Hindi without accents.	Can voice narration videos be effectively used to enhance learner engagement and improve lab-based competencies, or is it necessary to include the presenter?	Refer Annexure 1 of corrigendum 2
8.	Amrita Vishwa Vidyapeetham	Chapter VII	52	Delivery Timelines: EdCIL reserves the right to change the timelines as per the requirement of the client. The milestones and timelines can be minimized as per the requirements of the individual projects/end client at the time of award of work order.	The time allocated for 3D simulations may be increased to 6 months.	No Change in Tender Conditions
9.	Amrita Vishwa Vidyapeetham	Section 5.21	39	Uploading: Unless specified otherwise in the purchase order, uploading of the content at DIKSHA platform should be undertaken by the successful bidder.	Should the integration of labs into DIKSHA be finalized within the current development timeframe? If so, how many days will it take for the DIKSHA team to approve the content?	The timeline given in the tender document is for development of Olabs, uploading on DIKSHA to be undertaken post development.

10.	Amrita Vishwa Vidyapeetham	Annexure XII	78	LIST OF LABS TO BE DEVELOPED Suggestive List for VR and OLabs in Science and Mathematics	It is not specifically stated whether VR simulations are to be included; however, they are mentioned in Annexure XII.	VR simulations are not to be included
11.	Amrita Vishwa Vidyapeetham	Section 5.10	35	Workflow for the development of a LAB	The flowchart indicates that a review is conducted at each stage. Could you clarify whether this review will be performed by CIET or if it should follow the internal review process? Additionally, it is mentioned that CIET will review the content at the end. We request that any time taken in review by client should be added to the time allocated and delay in client review is accounted for and not used for penalty clause. Also any other dependencies such as delay in process of uploading to Vidyadaan or any other that depends on client action should be exempt from penalty clause.	To be mutually discussed upon finalization of storyboard.
12	Gumbi Software Private Limited	CHAPTER-VI - Eligibility and Bid Evaluation	43	The bidder must have successfully executed the work of development of Educational digital/e-content of either single work order of value not less than 4 crore or two work orders of value not 2.4 Crores or three work orders of value not less than 2 crores in any of the last 5 years preceding on bid due date for any Indian Government Department / Ministry / State / District / PSU / Autonomous bodies / Universities / Colleges / Schools. The executed work orders should include the following features:	We had Implemented turnkey projects that include content, hardware infra, connectivity and other services. So in these cases, pricing specifically about content is not mentioned in the work orders. In such cases, whether providing work order along with CA certificate will suffice?	Formal confirmation from client is required
13	Gumbi Software Private Limited	CHAPTER-VI - Eligibility and Bid Evaluation	44	The bidder should be an ISO 9001:2015, ISO/IEC 20000-1:2018, ISO/IEC 27000-:2013/2015, ISO 14001:2015 certified company	Request to consider: The bidder should be an ISO 9001:2015, ISO/IEC 27000-:2013/2015 certified company.	Please refer corrigendum 2

14.	Gumbi Software Private Limited	Evaluation of financial bids:	51	EdCIL at its sole discretion, having regard to the capacity of the L1 BIDDER to develop the entire quantity of the VSLs, decide to split the VSLs development in the following manner:	As the order is for 50 modules, request to consider the entire quantity for single bidder.	No Change in Tender Conditions
15.	Gumbi Software Private Limited	Chapter-VII Delivery Timeline & Payment terms	52	3. Development of Story Board -T+75 4. Design and Development of Graphic Elements (Animations, Videos, Voiceover, Onscreen text) - T+110	As per the procedure, after submission of StoryBoard to the CIET, bidder has to wait for the approval and only after the approval, Development shall start. So our request is to define the timeline for the point no.4 accordingly.	To be mutually discussed upon finalization of storyboard.
16.	SCHOOLNET	5.5	19	Guidelines for developing OLabs.	1) What is the expected ratio of different types of content (e.g., demonstration videos, 2D animations, 3D animations, interactive simulations) for the 50 OLAB videos? Understanding these expectations will help us create a balanced and effective learning experience.	Refer Annexure 1 of corrigendum 2
17.	SCHOOLNET	5.7	21	Guidelines for developing Olabs	2) What are the specific technical requirements for the OLABS in terms of software? Are there any preferred platforms or tools for content development that we should use? Understanding the software specifications and recommended tools will help ensure that our development process aligns with the project's technical standards and facilitates effective content creation.	Refer Annexure 1 of corrigendum 2
18.	SCHOOLNET	5.13	37	Upload Content	3) What are the specific requirements for integrating the OLABS with the DIKSHA platform? Are there any technical constraints or guidelines that need to be followed? Understanding these requirements will ensure that our OLABS are compatible with DIKSHA and function effectively within that environment.	Refer Annexure 1 of corrigendum 2
19.	SCHOOLNET	5.6	21	Designing of Olabs	4) Are there any existing resources or materials from the previous OLABS that we can utilize or build upon? Access to these resources could enhance our development process and ensure continuity in the learning experience	Existing resources maybe explored on Internet.

20.	AMASS SKILL VENTURES PVT LTD.			The bidder should be a company registered in India under Companies act 1956 or 2013 with their registered office in India in operation for at least 5 years preceding the bid due date. Or The bidder should be a registered Start Up/Trust/MSME with their registered office in India in operation for at least 3 years preceding the bid due date.	The bidder should be a company registered in India under Companies act 1956 or 2013 with their registered office in India in operation for at least 5 years preceding the bid due date. OR The bidder should be a registered Start Up/Trust/MSME with their registered office in India in operation for at least 3 years preceding the bid due date.	No Change in Tender Conditions
21.	AMASS SKILL VENTURES PVT LTD.			The bidder should have Articles of Association (in case of registered firms) by Law and the MoA/AoA clearly specify the firm should be either in the business of imparting education through technology-based services or in the Development of Educational digital/e-content or in content libraries or in providing instructions/training in learning.	The bidder should have Articles of Association (in case of registered firms) by Law and the MoA/AoA clearly specify the firm should be either in the business of imparting education through technology-based services or in the Development of Educational digital/e-content or in content libraries or in providing vocational education.	No Change in Tender Conditions
22.	AMASS SKILL VENTURES PVT LTD.			The bidder must have average annual turnover of 5 crores from the business of training/e- content development during the last three financial years, i.e., 2020-21,2021-22 and 2022-23. The bidder should have positive net worth in each of the last three financial year i.e., 2020-21, 2021-22and 2022-23. For MSME/NSIC Registered bidder/Startups/Trust The bidder must have average annual turnover of 2 crores from the business of educational digital/e- content development during the last three financial year i.e., 2020-21, 2021-22 and 2022-23. The bidder should have positive net worth in each of the last three financial year i.e., 2020-21, 2021-22 and 2022-23.	The bidder must have average annual turnover of 5 crores from the business of business of trainings/e-content development/Vocational Education/Content Delivery during the last three financial years, i.e., 2020-21,2021-22 and 2022-23. The bidder should have positive net worth in each of the last three financial year i.e., 2020-21, 2021-22and 2022-23. For MSME/NSIC Registered bidder/Startups/Trust The bidder must have average annual turnover of 2 crores from the business of business of trainings/e-content development/content delivery/vocational education during the last three financial year i.e., 2020-21, 2021-22 and 2022-23. The bidder should have positive net worth in each of the last three financial year i.e., 2020-21, 2021-22 and 2022-23.	No Change in Tender Conditions

				Documents Required ● Audited profit and loss statement and balance sheet. ● Auditor certificate clearly specifying the turnover from business of trainings/e- content development/content delivery/vocational education with net profit and positive net worth for each year as per annexure-IV. ● Auditor certificate clearly specifying the turnover from development of business of trainings/e- content development/content delivery as per annexure-V MSME Bidders should produce valid registration certificate issued by NSIC/MSME.		
23.	AMASS SKILL VENTURES PVT LTD.			The bidder must have successfully executed the work of development of Educational digital/e-content of either single work order of value not less than 4 crore or two work orders of value not 2.4 Crores or three work orders of value not less than 2 crores in any of the last 5 years preceding on bid due date for any Indian Government Department / Ministry/ State / District / PSU /The executed work orders should include the following features: Autonomous bodies / Universities / Colleges / Schools. · Storyboard development · 2D animations · 3D animations · Assignments	The bidder must have successfully executed the work of development of Educational digital/e-content / vocational education of either single work order of value not less than 4 crore or two work orders of value not 2.4 Crores or three work orders of value not less than 2 crores in any of the last 5 years preceding on bid due date for any Indian Government Department / Ministry/ State / District / PSU /The executed work orders should include the following features: Autonomous bodies / Universities / Colleges / Schools/Industries. · Storyboard development · 2D animations · 3D animations · Assignments . Deployment of trainer and training delivery	No Change in Tender Conditions
24	AMASS SKILL VENTURES PVT LTD.			The bidder should have experience of development of at least 3000 minutes of educational digital/e- content during the last five years preceding on bid due date for Indian Government Department / Ministry/ State / District / PSU / Autonomous bodies / Universities / Colleges / Schools	The bidder should have experience of development of at least 3000 notional minutes of educational digital/e-content during the last five years preceding on bid due date for Indian Government Department / Ministry/ State / District / PSU / Autonomous bodies / Universities / Colleges / Schools/Industries	No Change in Tender Conditions

25	AMASS SKILL VENTURES PVT LTD.			The bidder should have a minimum 50 employees in company's payroll and shall associated with the content creation, pedagogical creation, reviews. For MSME/NSIC Registered bidder/Startups/Trust The bidder should have a minimum 20 employees in company's payroll and shall associated with the content creation, pedagogical creation and reviews.	The bidder should have a minimum 50 employees in company's payroll and shall associated with the content creation/pedagogical creatio/reviews/content delivery. For MSME/NSIC Registered bidder/Startups/Trust The bidder should have a minimum 20 employees in company's payroll and shall associated with the content creation/pedagogical creatio/reviews/content delivery.	No Change in Tender Conditions
26	AMASS SKILL VENTURES PVT LTD.			The bidder should be an ISO 9001:2015, ISO/IEC 20000-1:2018, ISO/IEC 27000-:2013/2015,ISO 14001:2015 certified company	The bidder should be an ISO 9001:2015, ISO/IEC 20000-1:2018,ISO/IEC 27000-:2013/2015,ISO 14001:2015 certified company	No Change in Tender Conditions
27	AMASS SKILL VENTURES PVT LTD.			A Power of Attorney / Board Resolution in the name of the person signing of the tender.	A Power of Attorney / Board Resolution in the name of the person signing of the tender.	No Change in Tender Conditions
28	AMASS SKILL VENTURES PVT LTD.			The bidder must have a valid PAN and a registration number for GST	The bidder must have a valid PAN and a registration number for GST	No Change in Tender Conditions
29	AMASS SKILL VENTURES PVT LTD.			Mandatory Undertaking: bidder should: ● Not be insolvent ● Not have been convicted of any criminal offense ● Not have been blacklisted by a central / state government institution Comply with requirements of Registration under contract labor (Regulation & Abolish) Act, wherever applicable	Mandatory Undertaking: bidder should: ● Not be insolvent ● Not have been convicted of any criminal offense ● Not have been blacklisted by a central / state government institution Comply with requirements of Registration under contract labor (Regulation & Abolish) Act, wherever applicable	No Change in Tender Conditions

30	SUNITHA INFOVISION LTD	Section 5.2.1, point 1	15	Introduction Section: This section introduces the skill to be taught, offering insights into its relevance and practical applications.	What is the format for Introduction Section component?	Refer Annexure 1 of corrigendum 2
31	SUNITHA INFOVISION LTD	Section 5.7, table (point 1)	22	Web GL (Size limit-10 MB)	Can the size limit of the simulation in WebGL format be adjusted to more than 100 MB?	Refer Annexure 1 of corrigendum 2
32	SUNITHA INFOVISION LTD	Section 5.2, table	16	Components of Olabs	Is there any specification for simulation duration?	Refer Annexure 1 of corrigendum 2
33	SUNITHA INFOVISION LTD	Section 5.2, table	16	Components of Olabs	Number of questions to be included in the Assignment component	Refer Annexure 1 of corrigendum 2
34	SUNITHA INFOVISION LTD	Section 5.5.1, 1st point	18	The voice narration for videos or presenter narrative should be in clear neutral English and Hindi without accents.	Should we involve Presenter in the demonstration video?	To be discussed during Story Board approval.
35	SUNITHA INFOVISION LTD	Section 5.6	20	Designing of Labs	We only need to deliver the 6 components mentioned in the Section 5.2 right? We do not need to develop any LMS right?	LMS is not to be developed
36	Chandra Creative and Content Solutions Pvt. Ltd.	Section 5.3	16	Features/ Requirement	We understand that the concept animations will be 2 D and the simulations are 3 D. Please clarify	Refer Annexure 1 of corrigendum 2

37	Chandra Creative and Content Solutions Pvt. Ltd.	Section 5.3	17	Remote Experiment User	For job roles mapping please suggest the base criteria.	To be discussed during story board approval
38	Chandra Creative and Content Solutions Pvt. Ltd.	Section 5.3	17	Gamification	Gamification feature will be considered as a part of assessment or concept animation or is it interdependent element if so will it be applicable to all labs. Please suggest.	Refer Annexure 1 of corrigendum 2
39	Chandra Creative and Content Solutions Pvt. Ltd.	Section 5.3	17	Mobile Compatibility	Do IOS system integration shall also be considered in Mobile Responsive please suggest.	OLabs to be responsive on IOS platform also.
40	Chandra Creative and Content Solutions Pvt. Ltd.	Section 5.5.2	19	Instruction for video recording	Distribution of animations and Video Shoot. We understand Animations are applicable for concept leaning and video shoots are only meant for demonstrative purpose. Please Clarify.	Refer Annexure 1 of corrigendum 2
41	Chandra Creative and Content Solutions Pvt. Ltd.	Section 5.8.4	29	Assessments for a LAB	O-Labs need to have analytics scoring feedback mechanism and so on. while each type of integrated element in o-lab will be able to generate such outputs will DIKSHA as a platform 1. will able to host it or provide a learning path? 2. Do we need to create APIs for this?	Refer Annexure 1 of corrigendum 2
42	Chandra Creative and Content Solutions Pvt. Ltd.	Section 5.8.4	30	Assessments for a LAB	What are the variety of questions expected in the assesment. Can image based, video based, flowchart based questions be integrated in teh assessment. Please clarify.	Refer Annexure 1 of corrigendum 2
43	Chandra Creative and Content Solutions Pvt. Ltd.	Section 6.2	42	Eligibility Criteria - Point 3	Please consider FY 23-24 as we have completed and have been completed government project on a large scale for 10,000 minutes.	No Change in Tender Conditions

44	Chandra Creative and Content Solutions Pvt. Ltd.	Section 6.2	43	Eligibility Criteria - Point 4	Please consider private workorders also for the values mentioned.	No Change in Tender Conditions
45	ACES INFOTECH			Single project value not less than 4 Crores	Single project value not less than 1 Crore	No Change in Tender Conditions
46	ACES INFOTECH			Two (02) projects each of value not less than 2.4 Crores	Two (02) projects each of value not less than 50 Lakhs	No Change in Tender Conditions
47	ACES INFOTECH			Three (03) projects each of value not less than 2 Crores	Three (03) projects each of value not less than 25 Lakhs	No Change in Tender Conditions
48	ACES INFOTECH			Extend the mentioned 05 (Five) year period	Extend the mentioned 05 (Five) year period to 07 (Seven) years	No Change in Tender Conditions
49	Indiavidual Learning Limited (Embibe)	6.2 (4.) Eligibility Criteria	43	The bidder must have successfully executed the work of development of Educational digital/e-content of either single work order of value not less than 4 crore or two work orders of value not 2.4 Crores or three work orders of value not less than 2 crores in any of the last 5 years preceding on bid due date for any Indian Government Department / Ministry / State / District / PSU / Autonomous	1. The specified requirement of executing single or multiple work orders within the stipulated values, along with feature-specific certifications from clients, may inadvertently limit the participation of qualified contributors. While we understand the importance of ensuring quality and experience, we respectfully submit that many competent firms, including ours, have successfully executed content development projects of a smaller scale that demonstrate the relevant capabilities and should be duly considered. In light of the above, we propose a reduction in the financial thresholds (2.0 Cr) for work orders to	No Change in Tender Conditions

| | | | | bodies / Universities / Colleges / Schools. The executed work orders should include the following features:
• Storyboard development
• 2D animations
• 3D animations
• Assignments
• Assessments

Documents Required : Copy of Work order/ Agreement/ Certificate of Completion with satisfactory performance from client. and Following features should be clearly mentioned on work order/ completion certificate/ any certificate issued by client.
• Storyboard development
• 2D animations
• 3D animations
• Assignments
• Assessments
In case of non-availability of such certification from client that work order shall not be considered for evaluation. | promote broader participation from experienced bidders.

2. Furthermore, considering the disruptions caused by the COVID-19 pandemic, which significantly impacted businesses across sectors, including education, we kindly request an extension of the eligibility period from the last 5 years to the last 7 years.

3. We also propose that, rather than requiring explicit certification for each feature, general completion certificates supported by appropriate project documentation be deemed acceptable. | |
| 50 | Indiavidual Learning Limited (Embibe) | 6.2 (7.) Eligibilit y Criteria: | 44 | The bidder should be an ISO 9001:2015, ISO/IEC 20000-1:2018, ISO/IEC 27000-:2013/2015, ISO 14001:2015 certified company

--- Copy of valid certificate(s) in the name of the bidder attested by the authorised signatory of the company | We fully understand the importance of maintaining high standards through certifications but also request a relaxation in these requirements, allowing bidders who are in the process of obtaining such certifications to participate, provided they demonstrate equivalent quality standards/ procure prior to the start of the award of the contract.

We believe this consideration would enable capable and experienced firms, including ours, to contribute effectively while maintaining the quality and competitiveness of the bidding process. | Refer Corrigendum 2 |

51	Indiavidual Learning Limited (Embibe)	Chapter VII	52	Timelines for Development of OLabs :	It has been seen in past that though vendor submits the requirements within the defined time but at times because of no time set from the customers perspective, the task gets delayed and penalty is levied. To avoid such scenarios, we need to have TAT for both vendor and customer.	To be mutually discussed upon finalization of storyboard
52	Indiavidual Learning Limited (Embibe)	Chapter V (5.3)	18	Mobile compatibility: This feature will allow learners to access the OLabs on mobile devices, making it more accessible and convenient. A mobile first design is recommended, to ensure maximum reach of the Olabs	As per SDG 4,(Sustainable Development Goal 4,) i.e quality education and lifelong learning opportunities, 3D simulations development is done on World's best game engine, Unity 3D, which requires a separate app instance to be used for Mobile devices. Thus, we recommend the clause to be as follows: "Mobile compatibility: This feature will allow learners to access the OLabs on mobile devices, making it more accessible and convenient. The designed solution should give the best of 3D experience, even if it's a separate app on Mobile devices to ensure maximum and effective reach of the OLabs."	Refer section 5.3 of tender document
53	Indiavidual Learning Limited (Embibe)	Chapter IV, 4.5	13	Bidders registered with MSME/Startup and having valid registration certificate issued by NSIC/MSME/Startup are exempted for submission of EMD. However, MSMEs/Startup are required to submit their financial solvency certificate of minimum amount of Rs. 1.5 Crore issued not earlier than 3 months from the last date of bid submission.	Request to kindly consider solvency certificate 6 months from the last date of bid submission, instead of 3 months	No Change in Tender Conditions
54	Indiavidual Learning Limited (Embibe)	Chapter V (5.3)	18	Remote Experiment User: A remote experiment is a real experiment with real laboratory instruments and equipment that can be controlled by a computer through the internet.	Real experiment with real laboratory instruments and equipment is not understood, as it should possibly be meaning virtual experiments and virtual instruments.	To be discussed during story board approval
55	Indiavidual Learning Limited (Embibe)	Chapter V (5.3)	18	Scalability This feature will allow the OLab to be adapted and expanded as per the needs of the users and organisations evolve over a period of time.	Please explain	Refer Annexure 1 of corrigendum 2

56	Indiavidual Learning Limited (Embibe)	Chapter V (5.2)	16	Assignment Section: Assignments will be given to students to enhance their skill development further, encouraging the practical application of their knowledge.	Our understanding is that the developed OLab modules should be assignable, right?	Refer Annexure 1 of corrigendum 2
57	Indiavidual Learning Limited (Embibe)	Chapter V (5.6.e)	21	Interactive forums or messaging boards for users to ask questions and receive feedback.	This primarily has to be a platform (Diksha) feature, are you expecting to integrate chat bot within the app?	Chat bot is not to be integrated
58	Indiavidual Learning Limited (Embibe)	Chapter V (5.6.f)	21	Case-based scenarios, case studies and infographics.	Please elaborate	Refer Annexure 1 of corrigendum 2

Corrigendum-02

NIT No: EdCIL/DES/CIET/2024

Name: SELECTION OF AGENCY FOR DESIGN AND DEVELOPMENT OF OLABS FOR CENTRAL INSTITUTE OF EDUCATIONAL TECHNOLOGY, NCERT

S.No	Section/Annexure	Clause	Revised Clause
1.	6.2 , Eligibility Criteria 7.	The bidder should be an ISO 9001:2015, ISO/IEC 20000-1:2018, ISO/IEC 27000-:2013/2015, ISO 14001:2015 certified company	The bidder should be an ISO 9001:2015, ISO/IEC 27000-:2013/2015, certified company
2	Section 5.2	Specification of OLABS	Revised specification of OLABS as per Annexure-1

Rest all terms & conditions of the tender will remain same.

Sd/-
Chief General Manager (DES)
EdCIL (India) Ltd

Annexure-1

Specification of OLABS

PARTICULARS	SPECIFICATIONS	DURATION	Format
Title	Title of the Experiment/Activity		PDF
Aim	Objective of the experiment/activity		PDF
Learning outcomes and competencies	Based on NEP 2020, NCF-FS (2022), NCF-SE (2023), syllabus, textbooks, lab manuals, and the document published by NCERT, learning outcomes, and competencies must be listed for each experiment/activity/class/age group.	1-2 mins for reading	PDF
Pedagogical procedure/strategies	Appropriate pedagogical strategies/maxims of teaching should be quoted where the experiment can be utilized in theory classes and practical sessions. **Example-** **Class -XI Subject: Biology** **Title: Respiration in germinating buds or seeds** **Pedagogical Procedure: Observation method/ Experiential Learning** Experiments of respiration in germinating buds or seeds can be shown for different seeds, students can be asked to observe the difference in respiration rate and record readings for each seed in a tabular form, then analyze and infer results based on their understanding and present the same in the class.	3-4 mins for reading	PDF
Theory	Class and age-group-appropriate content. Language should be simple and short. The following content types must be included: • Infographics • Concept maps • Flow charts • Detailed diagrams	4-5 mins for reading	Video/ Animation

PARTICULARS	SPECIFICATIONS	DURATION	Format
Procedure	- Materials/Apparatus required with realistic images. - Steps to be followed. - Preparation - Setup - Measurement - Data recording - Clean up/close up an experiment or activity. - Experiment/activity-specific safety and precautions to be adopted by users.	2-3 mins for reading	Simulation Video
3D/2D Video	- Experiments/activities should be shown - Close-ups of the result of the experiment/activity must be the major focus. - must conclude with examples of daily life situations relating to the theory in practice.	6-8 mins (may vary as per the requirement of the content)	Video/Animation
3D Simulation	3D simulation of the experiment/activity with the following specifications: - the facility of performing it following trial and error method/Explorative and Flexible design could be adopted - Provision of multiple variables that can be adjusted as per the user's need and preference. - Special focus on any measuring/data recording/image etc.	4-5 mins (may vary as per the requirement of the content)	Simulation
Assessment	Interactive self-evaluation- at least 10 questions Type of questions to be included: - Higher Order (reasoning/logical) Thinking skill questions - Activity-based questions - How the learner relates the studied/explored concept with day-to-day activities	5-6 mins (may vary per the difficulty level of the question)	Simulation/ Gamification
FAQ	Provide information with simulation and animation to the students about what will happen if - Any steps missed while experimenting/activity. - Wrongly added chemical/sample substances/solution/solvent etc while doing an experiment. - Not following the steps for doing experiments.	1-2 mins for reading	Animation/simulation
Total Duration		Maximum 35 minutes	

DIKSHA CONTENT FORMATS

Formats Supported
1. Document based - PDF, (Max size 50 MB)
2. Audio file MP4 (Max size 100 MB)
3. Video-based and Animation-based - MP4, (Max size 1 GB)
4. Interactive / Engaging content - H5P, HTML ZIP (Max size 500MB)
The HTML Folder should have the following structure
1. CSS (folder)
2. Js (folder)
3. Images (folder)
4. Sound file (folder)
5. index.html
6. Web GL (Size limit-10 MB)