MOOC PORTAL AND FEATURES	
	Yes/No
DESCRIPTION: All features that are available in NPTEL's current MOOC application hosted at onlinecourses.nptel.ac.in are available in the MOOC application proposed by the CSoIP, which would be a platform to develop and deliver online courses.	
Provide the list of features not available if not covered in the list here.	
SCALBILITY AND LOAD MANAGEMENT	
Is the platform capable of load balancing based on traffic?	
Is the platform scalable for storage based on usage?	
Is the platorm scalable on database side based on usage?f	
Is the platform scalable for computation based on load?	
Is there a collaborative interface for tutors and students to work?	
DEPLOYMENT AND SERVICES	
Does the application integrate the course content with the cloud functionality?	
Is the portal hosted on a PaaS platform?	
Does scaling up or down happen in sub second periods?	
Course content developer need not know any coding to use the application.	
Will the cloud handle the aspects like monitoring, logging and security automatically?	
Does the database that the application uses, scale horizontally and integrate well with the application?	
Will the application upgrade without any impact to the end user?	
Does the platform allow scalability without any intervention from the user?	
Is there a provision for tutor and student to collaborate (like chats, forums)?	
Is there any restriction in the number of mail exchanges between student and tutors?	
Is there any provision for file sharing between tutor and users?	
After the course ends, are the course contents archived and still accessible to the user?	
What is the minimum time required by compute instances to boot up? [Answer in seconds)	
What is the maximum time required by compute instances to boot up? [Answer in seconds)	
Does the platform use low price compute instances that can be terminated at any time to reduce costs?	
How long does a query take to support internal data warehouse?	
Is apache beam compatible open source pipeline supported for data transformation?	
AMERICAN DECLUDE ASSIST	
MIGRATION REQUIREMENTS	
The current platform is composed of coursebuilder open source software, nsjail open source software, GCP app engine, datastore, object storage, compute engine, cloud sql, bigquery and	
dataflow. Is any of this not supported in the proposed deployment? If yes, please give details.	
Will the deployment be done in data centres physically located within India?	
Will the migration be done within a 2 week period?	
Will CSoIP guarantee no Service outage during the period of migration?	
Will the modular functionality of the application be kept intact?	
Does the CSoIP guarantee the same performance after migration as observed in the current	
platform?	

Current platform supports google logins with sso integration. Will the user directory migration be	
done?	
Current platform has API's built on top of Nsjail. Will the APIs be migrated too?	
HOSTING AND MAINTENANCE	
Description :The entire hosting of the MOOC application needs to be managed by the CSoIP. All	
services related to the application and its deployment needs to be managed fully by the CSoIP	
Can the CSoIP perform the following tasks:	
1. Fix any identified bugs within the required time period as decided mutually?	
2. Add features as required by NPTEL on a regular basis. A list of features and timelines/priorities	
needs to be maintained always with a clear roadmap for the application. This will be mutually agreed upon between the CSoIP and NPTEL?	
3. Train NPTEL staff on usage of any new features?	
4. Work and assist NPTEL staff with access to data generated by the application?	
5. Optimize continuously and find out ways in which cloud usage charges can be reduced?	
6. Work with NPTEL faculty and course staff to meet their requirements in offering courses and evaluating students through assignments?	
7. Can a detailed user manual for all types of users be maintained all time and be available online?	
STAFFING AND COSTING	
The CSoIP is expected to hire/depute software engineers, coders, architects and managers of suitable background and experience for working on this project.	
Is the detailed management plan provided as part of the technical bid ?(This plan should clearly describe the number of CSoIP personnel involved in this project and their expertise/experience levels)	
Will there be a dedicated program manager who is the overall in charge of the project from the CSoIP who will be available 24/7?	
Will one solution-cloud-certified architect with leadership abilities be provided ?	
Will the architect interact seamlessly with NPTEL staff for feature enhancements and priorities?	
Will four coders/software engineers of suitable experience and expertise be provided for this project?	
Will the coders and software engineers be available during working hours and also interact with	
NPTEL staff for all operational aspects of the application ?	
SERVICE LEVEL AGREEMENTS AND PENALTIES	
Does the CSoIP guarantee 99.999% uptime for the application under any concurrent user scenario?	
Downtime of the portal - For every hour of portal downtime, a penalty of Rs. 1 lakh will be imposed on the CSoIP. Do you agree to this?	

Is it possible to fix any bug that is classified as serious by NPTEL within 24 hours?	
Is it possible to fix any other bug within 3 days?	
Do you agree to the condition that the CSoIP will forego payment for the period of time for which	
the above 3 service level requirements are violated?	
On days when high usage is expected (like an exam day or assignment deadline day), will online	
support from coders and/or architect be provided?	
SCHEDULE OF WORK	
NPTEL currently has a running live MOOC portal with more than 30 lakh users and more than 750	
course instances. Is it possible for CSoIP to migrate entire data without any break in service?	
Please confirm that the below timelines are acceptable:	
Date from award of contract	
2 weeks: -Deploy the application on the CSerP infrastructure	
-Testing by NPTEL	
4 weeks: -Migrate data from onlinecourses.nptel.ac.in	
-Test of migrated data by NPTEL	
-Test of the deployment for concurrency	
5 weeks: -Go live on the CSoIP's deployment	
Do you agree with the above timeline ?	

Mention the url of the current portal that is live and running:				
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	1			Is this a
			Any data to be	costed
PORTAL FEATURES	YES	NO	entered	service?
CONTENT				
DESCRIPTION: Deals with the content on the portal				
Where are the videos for the courses sourced from?				
Is there a cost for maintaining the video repository?				
Is there a place holder below the video to add additional				
video links, reference material, etc?				
Can lecture notes be uploaded on the portal?				
Can description about the video be added for each video?				
Can a student post a question at any particular moment by				
pausing the video that directly goes to the discussion forum?				
is there a provision to add self assement question below a video?				
Is there a way to provide a feedback about the video content				
below the video itself? (mention the process)				
Does the user have to complete watching content and				
completing assessment to move to next module?				
Does the application support self paced courses (based on				
whenever a user enrolls, the scheduling of the course				
corresponds to it)				
Can the course instructor view the contents of a particular				
week from the point of view of what a student would see without making the contents live?				
without making the contents live:				
ASSIGNMENT				
DESCRIPTION: Deals with the assignment configuration on the				
portal				
Does the application support assignments?				
If yes: which of the following does it support?				
Multiple choice questions (auto graded)				
Short answer - fill in the blank questions (autograded)				
Essay type questions (manually evaluated)				
Document upload (manually evaluated				
Peer review assignments (done by learners in the course)				
Programming assignments (autograded)	<u> </u>	+		
ANSWER THE SECTIONS BELOW BASED ON ASSIGNMENT				
FORMATS SUPPORTED	-			
In case of Multiple Choice Questions, are the number of				
options variable and configurable or are they fixed? Are multiple choice questions with more than one correct	+			
answer supported?				

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Is is possible to award partial marks for correct options			
chosen for Multiple choice Question that has more than			
correct answer?			
Short answer questions with answers of numeric type:			
(a) Answers entered are matched against a value that is set			
exactly			
(b) Can the answer entered be matched to a range of values			
by setting the lower and upper bound?			
(c) Can multiple answers (exact or range) be set against which			
to be matched?			
In alphanumeric type short answers:			
(a)Can the responses entered be evaluated with case			
sensitivity being a configurable parameter?			
(b) Can multiple answers be set against which to evaluate?			
PROGRAMMING ASSIGNMENTS			
DESCRIPTION: Used in programming courses where the user			
has to enter a piece of code that is auto evaluated against pre			
set test cases.			
Is the code accepted auto graded and evaluated?			
Give more information about the platform and its capabilities			
in this respect.			
Can the instructor see the working of the solution to ensure			
the test cases are configured correctly?			
Can we configure public test cases that will be displayed along with expected output?			
What are the programming languages accepted?			
Can the prefix and suffix code be predefined so that the user			
only writes a few lines to complete it and evaluation the			
entire code is what happens?			
SUBJECTIVE ASSIGNMENT - MANUAL GRADING			
DESCRIPTION: This type includes assignments in form of			
essays (typed on the portal) or reports, derivations etc. which			
will be submitted by uploading the document			
What are the formats of documents that can be uploaded for			
grading?			
Can a candidate upload a document from a same mail ID			
(which he/she has enrolled) multiple times?			
Whether there is any provison to allocate the submitted			
documents to particular evaluator?			<u> </u>
Is there a provision to upload the score of the assignment for			
all candidates using a single command onto the portal?			
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	assignment score for those who have submitted the		
Is there a provision to view the answers submitted by every	assignment?		
is there a provision to view the answers submitted by every	Is there a provision to view the answers submitted by every		
student for a given assignment?	student for a given assignment?		

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What is the login required to enroll to any course?			
Does the learner post a query and reply in the forum?			
Can the learner receive the forum interaction as email?			
Can the learner view his/her assignment score for the			
submitted assignment? If yes, when?			
Can the learner withdraw from an ongoing course?			
Can the learner attach to a mentor if available?			
cur the rearrest account to a mentor in available.			
LOCAL CHAPTER SPOC			
LOCAL CHAFTER SPOC			
DECCRIPTION AIRTEL CONTRACTOR OF THE CONTRACTOR			
DESCRIPTION: NPTEL works with colleges across the country			
and every such college that has an NPTEL Local Chapter has a			
coordinator designated as Single point of contact or SPOC for NPTEL.			
INPIEL.			
Door the CDOC persons a seriousta legis on the product			
Does the SPOC possess a seperate login on the portal that			
allows him/her to access data relevant to participants from			
his/her college? Can new Local Chapters and the SPOC email ids be added on			
·			
the portal? Can the SPOC view the total number of participants and their			
details?			
Can the SPOC designate faculty members fromt heir college			
as mentors course wise?			
Can The SPOC has a provision to view the course wise			
participant list?			
Does the application support the feature of the SPOC applying			
for fee waivers if applicable for the final certification exam?			
Is the data inside his login updated on the portal dynamically?			
Can the SPOC download the data in the form of CSV and			
excel?			
MENTORS			
DESCRIPTION: This is a feature open only to NPTEL Local			
Chapters. Colleges that wish to mentor their students and			
monitor their progress in assignments can assign faculty			
members in the same domain as mentors in a particular			
course. These mentors also have to enroll to the course.			
Can the mentor view the details of the student regarding the			
submission of assignment and also view the assignment			
score?			
ENROLLMENT PAGE AND DETAILS			
Are the details in the enrollment form customizable as per			
NPTEL requirements?			
For a student or faculty member, is there an option which			
checks if a candidate is part of a Local Chapter or not?			
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Can the condidate undete his /how any allmost details at any		
Can the candidate update his/her enrollment details at any		
point of time? Can this feature also be closed by the NPTEL		
admin?		
Does the user get a Welcome email on enrolling to a course?		
FORCE ENROLL FEATURE		
DESCRIPTION: This occurs when a candiate withdraws from a		
course accidently		
Is there a provision to enroll the candidate back in case		
he/she has withdrawn from the course? If yes explain		
They she has withdrawn from the course: If yes explain		
ANIALOUALCENAENTC TO LEADNIEDC		
ANNOUNCEMENTS TO LEARNERS		
DESCRIPTION: Used for posting announcement to candiate as		
course progress		
Can announcements be posted on the portal for an ongoing		
course?		
Is there a provision to e-mail the announcement to		
candidates individually?		
Can the announcement be created earlier for all weeks and		
kept private and sent as required?		
DISCUSSION FORUM		
Mention the application that is used for the Discussion forum		
or if it is built inhouse		
Does the forum have the capability for moderating messages		
and not allow direct posting?		
Can any learner be blocked from posting if required?		
Is categorization of the forum possible week wise?		
Can duplicate and best answers be tagged so that learners can benefit from this?		
Can the user subscribe to the forum by email to receive the		
posts as email?		
TEST COURSES/WHITELISTED COURSES		
DESCRIPTION: Used for training new associates and tesing		
features		
Is there provision to create and offer a course for a select		
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audience and not visible to anyone else?		
ADDITION OF MEM PER A STATE AND A STATE AN		
ADDITION OF NEW FEATURES THAT ARE COMPATIBLE WITH NEW INITIATIVES OF NPTEL ON REQUEST		
Is it possible to make changes in the portal in UI on request of NPTEL?		
Can new types of assignments be added to the portal on request?		
Can existing features be made more flexible and customized on request?		
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The portal must also have the capability to facilitate live		
interaction between the Course instructors and the users - in		
the form of live chat that is in typed format or in the form of		
video (face-face) interaction.		

Cloud solution provider (CSoIP)			
CSoIP shall be a company registered in India and should be operating in India for at least the last 5 years offering similar services. They should have a minimum total turn-over of Rs. 100 crores, the last 2 years put together.	Yes	No	Annexure 1 and 2
CSoIP will implement and manage the solution directly without any organizational or other intermediary (s).	Yes	No	
CSoIP has a demonstrable track record of management of such services.	Yes	No	Give copies
Application			
The application does not contain software which requires licenses to be bought by NPTEL.	Yes	No	
The entire source code of the application will be available to NPTEL and should reside on a repository owned by NPTEL.	Yes	No	
NPTEL can have the option to release the source code under the open Apache license in case it decides to do so.	Yes	No	
The application is in use in a current live MOOC portal.	Yes	No	Give the url of the live portal.
The above live portal has hosted at least 500 courses since 2014.	Yes	No	Give the list of courses and respective urls with details of enrollments and duration of course, assignments submitted, any other activity log on the portal.
The above live portal has seen more than 30 lakh enrolments in total since 2014.	Yes	No	Give proof of the enrollment numbers.
There is at least one course on the above live portal that had more than 1 lakh enrolment.	Yes	No	Give the name of the course and the url.
Cloud deployment for NPTEL			
The deployment will be on a public cloud offered by a renowned and reputed Cloud Service Provider (CSerP) and will have standard disaster recovery mechanisms.	Yes	No	Mention the standard disaster recovery mechanisms with examples of how it has been done for instances in the past.
The private student and course data of the deployment will be on machines situated physically inside India.	Yes	No	Mention the list of data centres within India.
The CSoIP must be a certified partner of the CSerP.	Yes	No	Provide proof of the partnership doc.
The deployment will solely be for NPTEL and no other party will be using the application or parts of it for any other purpose.	Yes	No	