Technical Standards

Assessment of Minimum Proficiency Level (AMPLab)
February 2023

The Global Education Monitoring (GEM) Centre drives improvements in learning by supporting the monitoring of educational outcomes worldwide. The GEM Centre is a long-term partnership between the Australian Council for Educational Research (ACER) and the Australian Government's Department of Foreign Affairs and Trade (DFAT).



BILL & MELINDA GATES foundation



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Background

As part of Sustainable Development Goal (SDG) 4, Indicator 4.1.1 aims to measure the "proportion of children and young people: (a) in grades 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex." To meet this goal, UIS has coordinated efforts to establish common reading and mathematics scales for all three points of Indicator 4.1.1, building on existing cross-national and national assessments. As a result of these efforts, two important points of consensus have been reached: the definition of the Minimum Proficiency Level (MPL) and the Global Proficiency Framework (GPF).

The overarching objective of the AMPLab project is to measure and analyze the performance of students at the end of lower and upper primary using an assessment that aligns with the GPF. This will:

- enable the collection of more informative data about where students are performing in terms of the MPLs at the end of lower and upper primary in reading and mathematics,
- produce baseline measures to set targets and compare learning gains/losses over time
- facilitate reporting on SDG 4.1.1
- aid the tracking of learning progress over time
- complement tools that had been already developed in 2021 in the Monitoring the Impacts on Learning Outcomes (MILO) study.

Acronyms

Australian Council for Educational Research
Assessment of Minimum Proficiency Level
Differential Item Functioning
Data Manager
Data Management Manual
Defined Target Population
National Centre
National Project Manager
National Target Population
Sustainable Development Goals
Student Tracking Form
Probability Proportional to Size
Quality Monitor
School Coordinator
Student Tracking From
Test Administrator
UNESCO Institute for Statistics

Purpose

The purpose of this document is to report to the UIS on the extent to which the technical standards for the AMPLab project were met. There are two types of standards in this document; each with a specific purpose:

- Data quality standards refer to aspects of study implementation that directly concern the quality of the data or the assurance of that quality.
- Project management standards are in place to ensure that all assessment operational objectives are met in a timely and coordinated manner.

The standards for data collection and submission were developed with three major and inter-related goals in mind: consistency, precision and generalisability of the data. Furthermore, the standards served to ensure a timely progression of the project in general.

This report presents the technical standards and the rational for these standards. Following this a summary of the extent to which the standard was met is provided (fully, partially, not met or unknown). For standards that were the responsibility of the National Centres (NCs) and where there is insufficient evidence available, the 'unknown' category is selected. A brief explanation of how the standard was met is provided and any references used to evaluate the standard are listed.

Data Quality Standards

Target population and sampling

Rationale

The following population definition and sampling standards aim to achieve a level of precision in line with the best practices from established large scale assessment surveys¹.

Meeting the standards specified in this section will ensure that the assessed students come from the same target population. To be able to draw conclusions that are valid for the entire population, a representative sample shall be selected for participation in the assessment for students at the end of primary education. The representative sample should be large enough to achieve a desired precision of measurement. For this reason, minimum numbers of participating students and schools are specified.

Standard I.I

The UIS, ACER and the participating countries will work together to identify the populations to which inferences will be made. These populations are referred to as the Desired Target Populations.

The first target population is all students enrolled in the grade that corresponds to the end of the lower primary, where the language of instruction corresponds to the language of assessment.

The second target population for the study is all students enrolled in the grade that corresponds to the final grade of primary school, in schools where the language of instruction corresponds to the language of assessment.

By agreement, countries may use a grade other than the end of lower primary stage or the end of primary stage where that is the grade that a country references to report against SDG indicator 4.1.1(a) or 4.1.1(b) respectively.

All students enrolled in these grades in schools where the language of instruction corresponds to the language of assessment, belong to the National Target Population (NTP). In simple terms, the NTP is intended to provide full coverage of all eligible students in the education systems of participating countries. Any deviation from the full national coverage must be described and quantified in advance.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	Each participating country identified the target grade proposed based on those that correspond to			

¹ Such as the Trends in International Mathematics and Science Study (TIMSS) and the Programme for International Student Assessment (PISA).

	*	the end of lower primary stage and/or the end of primary stage. The target grades are in the table below.			
	Country	Grade			
	India (pilot only)	3			
		5			
	Kenya	6			
	Lesotho	7			
	The Gambia	3			
	Zambia	4			
		7			
References deliverables	2.1 Study Design	2.1 Study Design			
	4.2 Sample Prepar	4.2 Sample Preparation Guide			
	4.4 Population def	4.4 Population definition and sample design			
	document	document			

The Defined Target Population (DTP) covers 95% or more of the NTP. The UIS, ACER and the National Centres (NCs) will work together to identify schools and students that are impractical to assess. These exclusions are referred to as school-level exclusions and within-school exclusions. The total of the combined school-level exclusions and student level exclusions will be no greater than 5% of the NTP.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	All countries have met the exclusion rate standard; no country had combined exclusions greater than 5% of the target population.			
References	4.10 Country specific survey weighting reports			

Standard 1.3

Only students within the DTP participate in the assessment.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	Based on the sampling instructions prepared by ACER and provided to the NCs, only students from the Defined Target Population were eligible to participate in the AMPL assessment.			
References deliverables	2.1 Study De	sign		

	4.2 Sample Preparation Guide
	4.4 Population definition and sample design
	document

The school sample will be drawn using established and professionally recognised principles of scientific sampling.

The sampling design for the assessment is a two-stage stratified sample design. The first-stage sampling units consist of individual schools having students in the grade(s) corresponding to the end of the lower primary and/or the final year of primary school. Schools are sampled systematically from a school sampling frame, with probabilities that are proportional to a measure of size. The measure of size is a function of the estimated number of assessment-eligible students enrolled in the school for the corresponding grade. This is referred to as systematic Probability Proportional to Size (PPS) sampling. Sampling procedures are based on these principles.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	Schools for the test administration were selected by ACER in the first stage of sampling following the completion of all sampling forms and the preparation of the sampling frame by the NC.			
References deliverables	2.1 Study Design 4.2 Sample Preparation Guide 4.4 Population definition and sample design document			

Standard 1.5

The second-stage sampling units consist of selecting one intact class of students from the schools selected in the first-stage sampling. By agreement, a maximum number of students within an intact class can be designated and sub-sampled.

The ACER Maple data management and within-school sampling software must be used to scientifically draw a random class of students from lists in each sampled school.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	NCs conducted the second stage sampling using the			
	ACER Maple software to select students in cases			
	where the target populations exceeded the target			

	cluster size based on the list of students prepared by the School Coordinator.	
References deliverables	2.1 Study Design	
	4.2 Sample Preparation Guide	
	4.4 Population definition and sample design	
	document	

ACER will work with the key stakeholders to set the sample size to achieve a level of precision in the sample estimates for each country equivalent to a 95% confidence interval of 5 percentage points for estimates of percentages, or 0.1 of the population standard deviation in student achievement for estimates of mean scores.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	ACER consulted with each national centre to determine a sample size that was estimated to achieve the required level of precision.			
References deliverables	4.2 Sample Preparation Guide			
	4.4 Population definition and sample design			
	document			

Standard 1.7

The school sample size needs to result in a minimum of 150 participating schools. For each sampled school, two substitute schools will be selected where possible, using a systematic method, to ensure a proper level of school response as indicated in Standard 1.9. Note that to achieve Standard 1.6, there may need to be more than 150 schools selected.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	ACER drew a sample of over 150 schools with two				
	substitute schools for each sampled school where				
	possible. The final number of participating schools				
	were as follows:				
	• Kenya: 250				
	• Lesotho: 219				
	The Gar	nbia: 220			
	• Zambia: 250				
References deliverables	2.1 Study Design				
	4.2 Sample P	reparation Gu	ıide		

4.4 Population definition and sample design
document
4.9 Sample Outcomes reports

Unless otherwise agreed, the student sample size is a minimum of 4,000 assessed students. The main consideration in determining the total number of students is meeting the precision levels established in Standard 1.6.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	Using the A	ı CER Maple sc	ftware NCs d	rew a		
_	sample over	4,000 students	s in each of the	e		
	participating	countries, as	seen below:			
	• Kenya: 5	5,755				
	• Lesotho: 4,014					
	The Gambia: 4,345					
	• Zambia [G4]: 4,953					
	• Zambia [G7]: 5,566					
References deliverables	2.1 Study Design					
	4.2 Sample Preparation Guide					
	4.4 Population definition and sample design					
	document					
	4.9 Sample Outcomes reports					
	4.11 Technical paper on weighting and sample					
	outcomes ap	proach				

Standard 1.9

The school response rate must be at least 85% of sampled schools. If the response rate from sampled schools does not reach this level, then substitute schools may be used to reach an acceptable response rate.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The unweigh	ited response	rates for schoo	ols were as	
- Section Francisco	follows:	I			
	• Kenya: 1	100%			
	• Lesotho: 100%				
	The Gambia:100%				
	• Zambia [G4]: 98%				
	• Zambia [G7]: 97%				
References deliverables	2.1 Study Design				
	4.2 Sample Preparation Guide				
	4.4 Population definition and sample design				
	document				
	4.9 Sample o	utcomes repo	rts		

4.11 Technical paper on weighting and sample
outcomes approach

The student response rate is at least 80% of all sampled students across responding schools. This response rate includes students from substitute schools.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The unweigh	nted overall st	udent respon	se rate was	
	as follows:				
	• Kenya: 9	96%			
	• Lesotho	: 99%			
	The Gambia: 97%				
	• Zambia [G4]: 95%				
	• Zambia [G7]: 96%				
References deliverables	2.1 Study Design				
	4.2 Sample Preparation Guide				
	4.4 Population definition and sample design				
	document				
	4.9 Sample outcomes reports				
	4.11 Technical paper on weighting and sample				
	outcomes ap	proach			

Standard I.II

Absent sampled students cannot be substituted with non-sampled students.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The quality of	of the implem	entation of the	AMPL test	
bilet explanation	1 1	on was monite			
	identification	n of deviations	s from standa	rd testing	
	procedures. Quality Monitors were provided a				
	manual, training and forms to maintain quality. No				
	anomalies related to student sampling procedures				
	were reported.				
References deliverables	4.2 Sample Preparation Guide				
	4.4 Population definition and sample design				
	document				
	4.11 Technical paper on weighting and sample				
	outcomes ap	proach			

Sample weights will be calculated to reflect the contribution of each participating student to the survey estimates, taking into account the sample design and adjustments for non-response.

- Note 1.1 A student is regarded as a participant if they have responded to 10% or more of the assessment items
- Note 1.2 Data from schools where the student response rate is greater than 25% will be included in the dataset. However, in calculation of school response rates, only schools with more than 50% of participating students will be included.
- Note 1.3 School level exclusions are schools which may be excluded from the sampling frame because:
 - of geographical inaccessibility
 - of extremely small size (<5 eligible students)
 - all students within the school would be within-school exclusions
 - of other agreed reasons
- Note 1.4 Student level exclusions are exclusions of particular students from the assessment because of one of the following:
 - the student has a functional disability that is, physical disabilities such that they cannot perform in the assessment situation.
 - the student has an intellectual disability that is, students who, in the professional opinion of the school principal or other qualified staff, are emotionally or mentally unable to follow the general instructions of the assessment.
 - the student has insufficient language experience that is, students who are unable to read or speak the language(s) of the assessment and would not be able to overcome the language barrier. Such students meet all of the following criteria:
 - * they are not native speakers of the assessment language
 - * they have limited proficiency in the assessment language
 - * they have less than one year of instruction in the assessment language

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	Weights were calculated for all participating				
	countries according to the principles outlined in the weighting, non-response and variance estimation				
	technical paper.				
References	2.1 Study Design				
	4.2 Sample Preparation Guide				
	4.4 Population definition and sample design				
	document				
	4.11 Technical paper on weighting and sample				
	outcomes ap	proach			

Language of testing

Rationale

Learning outcomes are most accurately reported for those students for which the test is administered in a familiar language. In instances where students have limited knowledge of the testing language, the test may underestimate their ability. It is therefore optimum that the test is administered in the language of instruction.

Standard 2.1

Test audio, test booklets and questionnaires will be administered in either English or French. The NC will determine which is the appropriate language of assessment for their respective education systems.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	All test and o	questionnaire	materials wer	e
	administered in English. In addition, AMPLb was			
	also administered in Hindi to select students in			
	India.			
References	2.1 Study Design			
	10.3 Test Adı	ministrators N	Ianual	

Standard 2.2

Audio files in English and French produced using voice actors in standard British English and standard metropolitan French respectively will be provided to NCs for the listening comprehension assessment. To ensure that accent is not a barrier to comprehension, NCs have the option to re-record this script using the local accent.

Extent to which standard met	Fully	Partially	Not met	Unknown	
But of a substitute	A 1:	1 . 1	C:	C	
Brief explanation	Audio was p	roviaea to all	five participa	ting	
	countries in	standard Briti	sh English. Al	l counties	
	(except India) chose to re-record the audio in a				
	national accent. The re-recorded audios were				
	checked for quality by the ACER test development				
	team. Minor adjustments were made.				
References	2.1 Study Design				
	10.3 Test Ad	ministrators N	/Ianual		

Test development

Rationale

Instruments should reflect the requirements outlined in the AMPLab Assessment Blueprint and Contextual Framework. The instrument should provide data that can be analysed to address the research questions of the AMPLab assessment. The tests should provide fair and accurate measures of students' achievement on the domain which is defined by the blueprint and they should adhere to the test specifications. The questionnaires should address issues which are specified in the research questions of the AMPLab assessment to maximise reliability and validity of the measures and to minimise the burden on respondents.

Standard 3.1

An assessment blueprint and a contextual framework will be developed detailing the specifications for the test audio, test booklets and questionnaires. These documents will describe the content of the instruments, the way that they will cover the different constructs of the domain, types of items, the timing and the conditions under which the instrument is administered.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	ACER developed the assessment blueprint for participating NCs describing the domain and constructs assessed, the item types included, the sources of items and a description of how they were selected, and the final test booklet design. ACER also developed the conceptual framework to underpin the design of the AMPLab questionnaires and what data needs to be collected to achieve the project objectives.			n and ded, the w they were n.
References	7.2 Assessment Blueprint 9.1 Framework for the contextual data collection			

Standard 3.2

The test audio and booklets meet the domain definitions and test specifications. All aspects of the test are clear and accurate including the stimulus, items, and instructions. The items are appropriate for the purpose of the test, the population, and the test specifications.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The AMPLb	assessment w	as initially de	veloped in
	accordance with the Assessment Blueprint			
	developed for the MILO project. This Blueprint was			
	modified and built upon to form the AMPLab			
	blueprint. The AMPLab assessment was developed			
	in accordance with the AMPLab blueprint.			

	T
	In September 2023 the UIS requested clarity on how
	the AMPLa assessments meet the criteria for
	reporting against SDG4.1.1a and specifically on how
	decoding is measured in the absence of assessment
	of oral reading fluency. The decoding domain is
	represented explicitly in AMPL-a by the Precision
	construct and its two sub-constructs: 'Identify
	symbol-sound/fingerspelling and/or symbol-
	morpheme correspondences' and 'Decode isolated
	words'. This is detailed in the document provided to
	the UIS on 11 September, titled – AMPLa and the
	assessment of decoding.
	-
References	7.2 Assessment Blueprint
	9.1 Framework for the contextual data collection
	AMPLa and the assessment of decoding.
1	

The procedures used to develop the test audio and booklets are clearly documented, including detailing the quality assurance processes that are used.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	Items for the AMPLa assessment were selected from the UIS's Global Item Bank or developed by ACER to meet the assessment blueprint after an extensive review process. The same process was adhered to for the AMPLb assessment, which was mostly developed for the MILO project. Expert reviewers used item review guidelines to review a set of material. Only items that attained a high overall rating and for which no significant concerns were identified, were included in the test booklets.				
References	7.1 Guidelines for the item review and a template for recording the results of item review				

Adaptation, translation and linguistic verification of material Rationale

In order to ensure that measures derived from assessment instruments are comparable within the country it is necessary to use a set of standardised items. Efforts should be made to ensure that each adapted item, booklet and audio element are relevant to the

target population and equivalent to the source version. Specific terms within AMPLab contextual questionnaires need to be adapted in such a way to ensure their comparability. A lack of adaptations or inappropriate adaptations can jeopardise the comparability of data.

Similarly, it is essential that equivalent information is provided to all students participating in the assessment. Any instructions given to the students, as well as the procedures used throughout the test administration need to be equivalent. To achieve this goal, all individuals who play a key role in the data collection process, i.e., the Test Administrators (TAs) and School Coordinators (SCs), should receive and deliver a set of standardised instructions.

Standard 4.1

Both English and French versions of AMPLab student test audio, test booklets and contextual questionnaires are conceptually equivalent. Agreed upon AMPLab questionnaire adaptations to the language-specific context are made if needed.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	The adaptation guidelines developed by ACER, specified that the National Centres were required to negotiate the national adaptations of the questionnaires with ACER by completing the QAS. NCs submitted the QAS to ACER for approval to ensure the national versions of the questionnaires were equivalent to the source versions. No adaptations were permitted to the English source versions of the test booklets or test audio. In the case of India, cultural adaptations to the AMPLb test booklets were negotiated using a translation, adaptation verification manual (TAVM) (similar to the QAS).					
References	9.5 Adaptation	on Guidelines	(QAS)			

Standard 4.2

The following documents are translated into the French language in order to be linguistically equivalent to the English source versions.

- test booklets
- test audio

- contextual questionnaires (student, school and system level questionnaires)
- The TA script from the TA manual.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	in AMPLab, were transla	the test and q	ing countries uestionnaire n h, following tr n procedures.	naterials
References	9.5 Adaptation	on Guidelines	(QAS)	

The English source version of AMPLab audio, booklets and contextual questionnaires translated into French will be independently verified prior to implementation to ensure that generic and item-specific translation guidelines have been followed.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	Verification (Verification of the French versions of instruments				
	was undertaken by Capstan. Following best practice,					
	English instruments were first translated by two					
	independent translators, and then a third translators					
	reconciled any differences.					
	, and the second					
References	NA					

Standard 4.4

Localisation of the listening comprehension audio script must be equivalent to the English or French source version in the following aspects:

- Script content
- Tone, animation, clarity, and speed of delivery
- Length of time of the recording, including pauses for students to answer questions
- Sound quality

Further specification will be outlined in the Instrument Construction Guidelines.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	Audio was provided to all five participating				
	countries in standard British English. All counties				

	(except India) chose to re-record the audio in a national accent. The re-recorded audios were checked for quality by the ACER test development team. Recordings with the local accents were compared to the original version and script, to ensure that it met the elements of this standard. Minor adjustments were made to the Gambia recording, removing five words and adding in longer pauses.
References	Instrument Construction Guidelines

All localised listening comprehension audio will be verified by ACER prior to implementation to ensure its equivalence with the source version as described in Standard 4.4.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	The re-record	ded audios we	ere checked fo	r quality by		
	the ACER te	st developmer	nt team. Recor	dings with		
	the local accents were compared to the original					
	version and script to ensure that they met the					
	elements of this standard.					
References	Instrument Construction Guidelines					

Duplication of materials (print and audio)

Rationale - Print

Variations in print quality may affect data quality. When the quality of paper and print is poor, the performance of students may be influenced not only by their levels of proficiency, but also by the degree to which test booklets and contextual questionnaires are legible. To rule out this potential source of error, and to increase the consistency and precision of the data collection, paper and print quality samples are required from the NC.

Standard 5.1

All student test booklets and the contextual questionnaires are printed using high quality paper and print quality. They will be printed on 80gsm (grams per square metre) paper.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	ACER provided Instrument Construction and Printing guidelines to the NC. These guidelines					
	included the minimum requirements for secure printing of the AMPL instruments, as well as the printing specifications that needed to be followed to ensure the quality of the print paper and printing organised by the participating countries. Country Liaison Officers communicated with NCs to ensure that these guidelines were adhered to and offered support where needed.					
References	Instrument Construction Guidelines Printing Guidelines					

The cover page of the test booklets and contextual questionnaires used in schools contains all information as specified by ACER and outlined in the NPM manual.

Extent to which standard met	Fully	Partially	Not met	Unknown			
Brief explanation	ACER provid	ded the cover	page requiren	nents for the			
	AMPL test b	ooklets to the	NCs. The boo	klets were			
	provided to	countries in P	DF format. AC	CER Maple			
	produced student information labels, based on the						
	list of sampled students, that NCs adhered to the						
	front of each booklet. The required information was						
	entered into ACER Maple to capture the data.						
	• •						
References	10.1 National Project Manager Manual						
	11A.1 Data Management Manual						
	Instrument C	Construction (Guidelines				

Standard 5.3

The format, pagination and layout of both English and French language versions of the test booklets are equivalent.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	and Frech ve	-	versions of the est booklets h	O

References	7.4 Set of Items (English and French test booklets)

The format, pagination and layout of both English and French language versions of the contextual questionnaires are equivalent.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The pagination of the pdf versions of the English and French versions of the test booklets have been reviewed and are equivalent.			
References	7.4 Set of Items (English and French test booklets)			

Rationale - Audio

Variations in audio quality may affect data quality. When the sound quality is poor, the performance of students may be influenced not only by their levels of proficiency, but also by the degree to which the listening comprehension script is audible. To rule out this potential source of error, and to increase the consistency and precision of the data collection, the NC is required to provide any localised version of the listening comprehension audio to ACER.

Standard 5.5

Audio files for the listening comprehension assessment should be in 192 bps MP3 format.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	Audio files have been provided in both mp3 and Wav formats and are at 192 bps.					
References	7.4 Set of Items (audio recordings)					

Standard 5.6

Speakers used for playing audio during administration of the test should adhere to minimum specifications as outlined in the Instrument Construction Guidelines.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	All participating countries agreed to adhere to					
	speaker specifications. Two countries suggested					

	using the speakers of the mobile phones of Test Administrators, but this was strongly advised against by ACER. And working with the UIS, these countries acquired additional speakers.
References	Instrument Construction Guidelines

All files should be accessed either directly from the location provided by ACER or downloaded from that location and accessed on a device provided to the TA. To ensure no loss of sound quality, the audio file should not be transferred using any other method. Further specifications will be outlined in the Instrument Construction Guidelines.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	Audio files were provided to NCs via the AMPLab Partner Collaboration MS Team.				
References	NA				

Test administration

Rationale

Certain variations in assessment procedures are likely to affect test performance, such as the session timing, the administration of test materials and instructions given prior to and during testing, and rules for excluding students from the assessment. A full list of relevant assessment conditions is given in the assessment operational manuals.

The TA plays a central role in the assessment procedures. Special consideration is therefore given to the training of the TAs, ensuring that as little variation in the data as possible is caused by random or systematic variation in the activities of TAs.

The AMPLab assessment covers a wide range of content areas. Given the time constraints, the test booklets include clusters of test items on a rotated basis, and test booklets are allocated to students in a statistically random fashion. Student Tracking Forms (STFs) will be used to ensure the correct allocation of AMPLab test booklets to students by TAs.

Standard 6.1

All AMPLab assessment sessions follow the procedures as specified in the TA manual, particularly the procedures that relate to:

- Test session timing (countries participating in the AMPL-A or the AMPL-A+B study designs are recommended to administer the study over two days).
- Student tracking:
 - o a STF is prepared for each sampled school
 - test booklets are distributed to students according to the order specified in the STF
- Maintaining the AMPLab assessment conditions.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	administration manual. All comply with Student Tracaccordingly, assessment of	on procedures countries were the test sessic king Forms and and to mainta	d to implement as as described to e requested to put timing, to put allocate both in standardistis standard was o monitor.	in the TA train TAs to repare the oklets ed		
References	10.5 Test Administrator Training Package (TA Manual)					

TAs are trained in the field operations procedures outlined in the TA manual. TAs receive a copy of the TA manual prior to the AMPLab assessment session.

Extent to which standard met	Fully	Partially	Not met	Unknown			
Brief explanation	NCs were pr	ovided with t	he TA manua	l and TA			
	training pack	kage by ACER	R. All countries	s reported			
	that they had	d delivered tra	nining to their	TAs. The			
	QM reports for Kenya and Zambia outlined that the						
	training process had been implemented. The TAs						
	received the TA manuals and other relevant material						
	from the TA training package as recommended at						
	the training session which was organised in advance						
	of the assessment day.						
References	10.5 Test Administrator Training Package (TA						
	Manı	ıal)					

Standard 6.3

TAs read out the standard TA script prior to the students sitting the AMPLab assessment session.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	was part of t	he TA Trainin y of the NCs t	ed in the TA m g Package. It w o monitor com	was the	
References	10.5 Test Administrator Training Package (TA				
	Manual)				

TAs administering the listening comprehension assessment (AMPL-A and AMPL-A+B) play the listening comprehension audio to students in a space and using devices that ensure all students can hear the audio clearly.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	AMPLa related provided in comprehensity	ing to the spa a documented ion audio requ y of the NCs t	the audio conce ce and device I titled – 'Liste uirements'. It vo o monitor con	were ning was the
References	Listening con	mprehension a	audio requirer	nents

Standard 6.5

The relationship between TAs and participating students must not compromise the credibility of the AMPLab assessment session. The TA will be independent from the students and the school staff, which means he or she should **not** be:

- An instructor of any student in the AMPLab assessment session he or she will administer
- A member of staff in the school in which he or she will administer the AMPLab assessment
- A relative of any of the staff in the school in which they administer the AMPLab assessment
- A parent or close relative of any of the participating students in the AMPLab assessment.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	ACER provided the requirements on TAs to be					
	independent from the students, school staff and					

	parent or close relative of any student not to compromise its credibility.
	It was the responsibility of the NCs to monitor compliance with this standard.
References	10.5 Test Administrator Training Package (TA
	Manual)

Security of material

Rationale

The goal of the assessment is to improve the quality of education through measuring students' learning outcomes and understanding the contextual factors associated with learning outcomes. Prior familiarisation with the assessment materials, or training of students to the assessment, may affect the validity and comparability of the data, and changes in learning outcomes. Therefore, confidentiality of the assessment materials is essential.

Standard 7.1

The AMPLab assessment materials designated as secure are kept confidential at all times. Secure materials include all test materials, data and draft materials. In particular:

- Only approved project staff and participating students during the test session are able to access and view the test booklets.
- Only approved project staff and participating students during the test session are able to listen to the test audio.
- Only approved project staff have access to secure data and embargoed materials.

			1	1			
Extent to which standard met	Fully	Partially	Not met	Unknown			
Brief explanation	ACER provid	ded confident	tiality and sec	curity			
	requirements	s to NCs as w	ell as instruct	tions on how			
	to keep all assessment materials and data secure						
	before, during, and after the assessment session in						
	the TA manual.						
	It was the responsibility of the NCs to monitor						
	compliance v	with this stan	dard.				
	1						
References	10.5 Test Administrator Training Package (TA						
	Manual)						

Standard 7.2

Formal confidentiality arrangements are in place for all approved AMPLab project staff.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	For National Centre staff, Country Liaison Officers ensured that all confidentiality agreements were signed by relevant personnel. Confidentiality Agreements signed by members of the National Centre were saved in the National Team Channel of the AMPL Partner Collaboration MS Team, and recorded in the National Team spreadsheet. For Test Administrators, ACER communicated confidentiality requirements through the Test Administrators Manual and provided a confidentiality form as an appendix in that manual. For personnel external to the NC team, e.g. printers, ACER communicated security and confidentiality requirements via the NPM manual. It was the responsibility of the NCs to monitor compliance with this standard.					
References	10.1 National Project Manager Manual 10.5 Test Administrator Training Package (TA Manual) National Team spreadsheets					

Quality monitoring

Rationale

To obtain valid results from the assessment, the data have to be collected in a consistent, reliable and valid fashion. Independent Quality Monitors (QMs - observers) are responsible for assessing the implementation of activities that align with this goal during the test administration.

Standard 8.1

The AMPLab test administration is monitored using school visits by trained independent QMs.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The AMPLab Field Operations Manual details the requirement for NCs to ensure that school visits are			
	included in quality monitoring. This includes			

	advising how many school visits to allocate per QM, scheduling and logistics.
	All five participating countries confirmed that they appointed QMs.
	It was the responsibility of the NCs to monitor compliance with this standard.
References	Field Operations Manual

At least 5% school visits are conducted in each participating country to observe AMPLab test administration sessions. A range of different types of schools will be included in the sample for monitoring.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	to ensure at leavisited by a Composition. It was the res	least 5% of pa QM. It also de	l tions Manual of ticipating sch tails how to ca the NCs to m lard.	ools are alculate this
References	Field Operations Manual			

Standard 8.3

AMPLab Test administration sessions that are the subject of the national QM visit are randomly selected.

С	Fully	Partially	Not met	Unknown	
Brief explanation	to randomly details how to stratifying the are representative are the results.	select schools to randomly se te sample, so t ted.	tions Manual of for visits by a elect schools, it hat schools act the NCs to mard.	QM. It also including cross regions	
References	Field Operat	d Operations Manual			

QMs will be familiar with the test implementation procedures of the AMPLab assessment, complete the quality monitoring checklist and observation form, and be familiar with the education system of that country. Also, QMs must not have a personal interest in the results of the school or be personally affiliated with the observed school.

С	Fully	Partially	Not met	Unknown
D : 6 1 4:	TEL A MEDI 1	0 111 11		1 11
Brief explanation		•	itoring Manu	
	this standard and provides guidance for QMs.			
	It was the responsibility of the NCs to monitor compliance with this standard.			
References	Quality Monitoring Manual			

Data management

Rationale

To obtain valid results from the assessment, the data collected must be of a high quality, using consistent, reliable, and valid approaches. Consolidating and merging national databases is a time-consuming and difficult task. To ensure the timely and efficient progress of the project, ACER needs continuous access to national staff helping to rule out uncertainties and to resolve discrepancies. This standard aims to prevent substantial delays to the whole project which could result from a delay in processing the data from one or more NCs and to avoid the loss of the data.

Standard 9.1

Each NC should appoint a data manager (DM). DMs will be required to attend training on data management and use of ACER Maple data management software, provided by ACER prior to data collection. DMs will train NC data administration and data entry personnel on the use of ACER Maple in line with the procedures described in the Data Management Manual (DMM).

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	All five countries appointed a DM. DMs attended				
	the data management training that ACER provided				
	on 28 and 30 of March 2023.				
References	11A.1 Data Management Manual				
	11A.3 Webinars provided to participating countries				
	on using AC	ER Maple (Sli	de decks)		

ACER Maple data management software must be used for class and student sampling, data entry and data verification as outlined in the DMM.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The NCs used ACER Maple software for data				
	management, data entry and preliminary data				
	verification prior to submitting data to ACER				
	according to the procedures described in DMM.				
D . (11A.1 Data Management Manual				
References		O	/ianuai		
	11A.2 ACER	Maple tool			

Standard 9.3

The data verification procedures, as specified in the DMM, will be executed by the NC staff in ACER Maple software before submitting the final database to ACER.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The NC staff executed the data verification				
	procedures in ACER Maple software before				
	submitting the final database to ACER as specified				
	in the DMM.				
	III the Divilvi.				
References	11A.1 Data Management Manual				
	11A.3 Webinars provided to participating countries				
	on using AC	ER Maple (Sli	de decks)		

Standard 9.4

A DM from the NC will be available upon submission of the database to ACER. The DM:

- is authorised to respond to ACER data queries
- is available for a four-week period immediately after the database is submitted unless otherwise agreed upon
- is able to respond to ACER queries in English within three working days
- is able to resolve data discrepancies.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	requirements corresponde	s described in	ne NCs complethis standard a managers for any queries.	and ACER

References	11A.1 Data Management Manual			
	11A.3 Webinars provided to participating countries			
	on using ACER Maple (Slide decks)			

Data submission

Rationale

The timely progression of the project depends on the quick and efficient submission of all collected data. Therefore, participating counties are asked to submit only one standard database to ACER.

Standard 10.1

Participants' tracking data, test booklets data and contextual questionnaire data collected by the NC must be entered into ACER Maple data management software provided by ACER, as specified in the DMM.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	*		the NCs enter			
	collected (e.g	g., participants	s tracking data	, AMPL test		
	booklets and contextual questionnaire data) into					
	ACER Maple data management software provided					
	by ACER.					
References	11A.1 Data Management Manual					
	11A.2 ACER Maple tool					

Standard 10.2

Each NC submits its data to ACER in a single database in the specific format produced by ACER Maple software, as specified in the DMM.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	Each NC submitted its data to ACER as a single database in the specific format produced by ACER Maple software according to the instructions in the DMM.				
References	11A.1 Data Management Manual 11A.3 Webinars provided to participating countries on using ACER Maple (Slide decks)				

Standard 10.3

NC submits its data to ACER after the data for all instruments and all participants are entered into ACER Maple and all discrepancies are resolved, as described in the DMM.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The NCs submitted their data to ACER after they				
	entered data for all instruments and all participants				

	into ACER Maple and all discrepancies were resolved.
References	11A.1 Data Management Manual
	11A.3 Webinars provided to participating countries
	on using ACER Maple (Slide decks)

All data are submitted without recoding any of the original response variables.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The NCs submitted their data to ACER without recoding any of the original response variables.			
References	11A.1 Data Management Manual 11A.3 Webinars provided to participating countries on using ACER Maple (Slide decks)			

Standard 10.5

The timeline for submission of national databases to ACER is within eight weeks of the last day of assessment, unless otherwise agreed between the NC and ACER.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The national databases for countries participating in the international study were submitted within eight weeks of the last day of assessment. The database for India was submitted without following protocols, and ACER is working with India to resubmit the databased in late 2023.				
References	11A.1 Data Management Manual 11A.3 Webinars provided to participating countries				
	on using ACER Maple (Slide decks)				

Psychometrics and data analysis

Rationale

The production of a high-quality database and the use of modern psychometric and statistical methods is essential to the integrity of the AMPLab Assessment. A high-quality database will ensure that researchers can analyse the data in a standard way, following methods established in high-quality large-scale education surveys. Following standardised procedures will help ensure that the AMPLab Assessment database is

consistent and comparable. Note that the standards in this section apply to the technical partner, ACER.

Standard II.I

Data will be cleaned. Anomalies regarding duplicate identification variables, out of expected range values, and invalid codes will be resolved and reported.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	regarding du expected ran The Item An	iplicate identi ige values, and alysis Report	d resolved and fication variab d invalid code provides infor sing values ar	oles, out of s. rmation
References	12.1 Item Analysis Report			

Standard 11.2

Sample weights will be calculated and included in the final database.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	ACER calcul in the final d	-	veights and in	cluded them
References	11.b1 clean d	ataset		

Standard 11.3

For assessment data, missing responses are scored incorrect, and all trailing missing are treated as not administered except for the first in the sequence, which is treated as incorrect for the item calibration stage.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	ACER scored missing responses as incorrect, and all			
	trailing missing were treated as not administered except for the first in the sequence, which was treated as incorrect for the item calibration stage.			
References	12.1 Item Analysis Report			
	14.1 Internat	ional Report		

Assessment data will be scaled using models derived from Item Response Theory. The choice of model will be approved by the UIS.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	ACER scaled assessment data using models derived				
	from Item Response Theory (IRT). ACER provided				
	information about the scaling models to the UIS in				
	drafts of the	AMPLab Inte	rnational Repo	ort which	
	were approved by the UIS.				
D 4	<u> </u>				
References	12.1 Item An	alysis Report			
	14.1 Internat	ional Report			

Standard 11.5

Differential Item Functioning (DIF) by gender and by language will be calculated and reported. Treatment of items showing DIF will be reported.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	The quality of the items was explored by assessing differential item functioning (DIF) by gender for each country and domain. The gender DIF estimates range between -0.12 and 0.2 for AMPLab Mathematics and between -0.18 and 0.18 for Reading. No instances of substantial gender DIF were encountered so no items were removed for this reason. All internationally comparable assessments were administered using unaltered versions of the English source instruments. As such, differential item functioning (DIF) analysis across languages was not needed. ACER reported the DIF analysis in the AMPLab International Report and Item Analysis Report. 12.1 Item Analysis Report 14.1 International Report					
References						

Item statistics will be reported. These will include indications of missing, facility, itemrest correlations, estimates of ability across category and estimates of goodness of fit to model.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	ACER reported item statistics, including indications			
	of missing, facility, item-rest correlations, estimates			
	of ability across category and estimates of goodness			
	of fit to model. Information is available in the			
	AMPLab Int	ernational Rep	ort and Item	Analysis
	Report.			
References	12.1 Item An	alysis Report		

Standard 11.7

Learner ability and item difficulty estimates will be placed on separate scales, for each of reading and mathematics.

The learner ability estimates for students at the end of lower primary and the end of upper primary school will be placed on the same empirical scale. This applies for both the reading scales and the mathematics scale.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	ACER placed learner ability and item difficulty				
	estimates on a single scale covering the end of				
	primary school for each of reading and mathematics.				
	This informa	tion can be fo	und in the AM	/IPLab Item	
	Analysis Rep	ort.			
	, , , , , , , , , , , , , , , , , , ,				
References	12.2 Item Analysis Report				
		•			

Standard 11.8

A Plausible Values method will be used to generate unbiased population estimates of learner ability. Plausible Values will be included in the final database.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	ACER used a Plausible Values method to generate			
	unbiased population estimates of learner ability.			
	ACER included Plausible Values in the final			

	AMPLab database. A description is included in the AMPlab International Report.
References	14.1 International Report
	11.b1 clean dataset

Conditioning of the psychometric population model will be used to improve sub-population estimates. Conditioning on gender and participating country, at least, will be implemented.

Extent to which standard met	Fully	Partially	Not met	Unknown
		1		
Brief explanation	ACER used conditioning of the psychometric population model to improve sub-population estimates. ACER implemented conditioning on gender and participating country.			
References	14.1 Internat	ional Report		

Standard 11.10

Sampling variance will be calculated using an appropriate method, such as sample replication or linearization. The choice of method will be documented. If replication is used, replicate weights will be included in the final database.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	The sampling variances of population statistics were				
	estimated using the jackknife repeated replication				
	technique (JRR). This chosen method was				
	documented in the AMPLab International Report.				
	ACER included replicate weights in the AMPLab				
	database.				
References	14.1 International Report				
	11.b1 clean d	lataset			

Standard II.II

All analysis of assessment data will include adopting Plausible Value methods, using sample weights, and using appropriate methods for determining sampling variance. Standard Errors for all statistics will be provided to the UIS.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	ACER adopted Plausible Value methods to analyse				
	the assessment data, using sample weights, and				

	using appropriate methods for determining sampling variance. These methods are provided in the AMPLab International Report. Standard Errors for the AMPLab cognitive data are included in the
	AMPLab International Report.
References	14.1 International Report

Project Management Standards

Communication

Rationale

To ensure the timely progression of the project, delays in communication among all parties involved should be minimised.

Standard 12.1

Qualified staff from all parties involved in the processes of the data management and data submission are available to communicate and respond to queries during all stages of the project based on the work plan activities.

Extent to which standard met	Fully	Partially	Not met	Unknown	
Brief explanation	ACER communicated with the NPMs and Data Managers from the National Centres. Country Liaison Officers were appointed for each country, who relayed information between specialist staff, such as ACER data management experts, and NCs. Additionally, ACER data management experts were available to respond to queries, including through a specific help desk email that was used to respond to NC queries. The NPM manual outlined that				
	communication should be through the NPM or an authorised delegate of the NPM and the DMM outlined the responsibilities of the Data Manager.				
References	11A.1 Data Management Manual 11A.3 Webinars provided to participating countries				
	on using AC	ER Maple (Sli	de decks)		

Schedule for submission of materials

Rationale

In order to progress according to project timelines, efforts should be made to ensure that all parties involved can submit project materials within the allocated timeframes.

Standard 13.1

All parties involved will keep to pre-determined schedules for all activities, including:

- population definition and stratification variables
- assessment window definition
- sampling
- contextual questionnaire item review
- translation review
- contextual questionnaire adaptation
- data submission
- reporting.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	For some cou	untries there v	vere delays to	the		
_	sampling an	d adaptations.	The Gambia	did not join		
	the project u	ntil early 2023	, which delay	ed when		
	they submitt	ed their samp	le and comme	enced test		
	administration. India was delayed in providing					
	translation a	nd adaptation	verification, _]	partially due		
	to translation	n into Hindi b	eing required,	which was		
	not in the or	iginal contract	. The schedule	e was		
	updated to a	ccommodate	all delays, pre	venting		
	timelines being overtly stretched.					
References	10.1 National Project Manager Manual					
	11A.1 Data N	/Janagement N	/Ianual			

Archiving of materials

Rationale

The NC will maintain an archive of electronic and paper forms of all assessment material for the AMPLab Assessment. This will provide an overview of all materials. This will also ensure that instruments will be available to all parties involved to assist with data cleaning and processing.

Standard 14.1

The NC will maintain a permanent electronic archive of all assessment materials, including:

- all test booklets, including audio files and script for the listening comprehension assessment
- all contextual questionnaires
- sampling forms and sampling frame
- school sample results and selection numbers
- tracking forms
- QM assessment forms.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The Field Operations manual details this standard referring to keeping a permanent electronic archiv of all assessment materials. A reminder about archiving requirements for National Project Mangers was posted on the AMP Partner Collaboration MS team on 19 September. The extent to which this standard was met is unknown and it was the responsibility of the NCs monitor compliance with this standard.			
References	10.1 Nationa Field Operat	l Project Mana ions Manual	ager Manual	

Standard 14.2

The NC will archive and retain all assessment materials a minimum of one year. Materials to be archived include:

- all completed test booklets and contextual questionnaires in paper format
- student lists

- student tracking instruments
- all submitted data.

Extent to which standard met	Fully	Partially	Not met	Unknown		
Brief explanation	The Field Op	The Field Operations manual details this standard				
_	referring to l	keeping a perr	nanent electro	nic archive		
	of all assessn	nent materials	. ACER also d	lirects NCs		
	to store asses	ssment materi	al in a secure j	place, as part		
	of the proces	s of monitorin	ng the return o	of assessment		
	materials, in	the NPM Mar	nual, in both t	he checklist		
	of tasks and	the National (Centre Work P	lan template		
	that is provid	ded in Append	dix 5.			
	A reminder about archiving requirements for National Project Mangers was posted on the AMPL Partner Collaboration MS team on 19 September. It is the responsibility of the NCs to monitor compliance with this standard.					
References	10.1 National Project Manager Manual					
	Field Operat	ions Manual				

Archived materials will be stored in one location only and will be under the guardiancy of the NC.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	A reminder a National Pro Partner Colla The extent to unknown an	storing archive about archivir oject Mangers aboration MS o which this st	ual details this ed materials ir ng requiremen was posted on team on 19 Se andard was m esponsibility of	ts for the AMPL ptember.
Reference	Field Operat	ions Manual		

Standard 14.4

Upon request by the appropriate authority, materials will be deleted from all electronic sources and physical materials shredded in line with the requirements of national laws.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	referring to la materials. A reminder of National Properties Collaboration and the extent to unknown and the extent to the exte	keeping an arc about archivir oject Mangers aboration MS	ual details this chive of all ass ng requiremen was posted or team on 19 Se andard was m esponsibility of this standard.	essment ts for the AMPL ptember. net is
References	10.1 Nationa	l Project Mana	ager Manual	

Reporting and dissemination

Rationale

The success of the study is dependent upon the reporting and sharing of results with all relevant national stakeholders. This reporting includes the conclusions derived from national data collection. It is important to ensure that the circulation of information occurs within time periods that are appropriate to both key stakeholders and the project as a whole.

Standard 15.1

The NC develops appropriate mechanisms in order to promote participation and effective implementation.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	All countries project.	s successfully i	implemented :	the AMPLab
References	N/A			

Standard 15.2

Adherence to the Technical Standards will be monitored and reported by the NC to the UIS.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	This activity will occur between the NC and the UIS should the UIS choose to undertake this activity.			
References	N/A			

Standard 15.3

The reporting will indicate the relative levels of achievement of students in each of the two subjects.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The AMPLab International Report and India			
	Country report provided information on the			
	proportion of students that met the MPLs in Reading			
	and Mathematics in 2023.			
References	14.1 Final report (International Report, India			
	Country Report)			

The reporting will include the findings regarding the relationship between background variables and learning outcomes.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The Final International Report and India Country			
	Reports include findings on the relationship between			
	the contextual data and learning outcomes.			
References	14.1 Final report (International Report, India			
	Country Report)			

Standard 15.5

The reporting will include contextual findings in their own right relevant to the study research questions in relation to the students, schools and systems.

Extent to which standard met	Fully	Partially	Not met	Unknown
Brief explanation	The Final International Report and India Country			
	Reports include information on the contextual			
	variables from the school and student questionnaire.			
	Information was included on: student characteristics,			
	home environment, school environment, teaching			
	and learning and assessment and monitoring.			
References	14.1 Final report (International Report, India			
	Country Report)			