NAS – 2021

An Overview

Introduction

- The Government of India has been implementing a sample based National Achievement Survey (NAS) for classes III, V, VIII and X with a cycle period of three years.

- NAS is competency based national-level large scale assessment, conducted to provide information about the learning achievement of students.

- Major objective is to have a system level reflection on effectiveness of school education in the country and to provide information on system performance levels and related or contributing factors.

- The last NAS was held in 2017/2018 for assessing the competencies of children at the grade levels III, V, VIII and X.

- Next round of NAS in 2020 could not be held due to school closures.

- National Achievement Survey (NAS) will now be conducted on 12th Nov 2021.

NAS in the Current Scenario

- Provide a snapshot of what students know and can do at the end of Classes 3, 5, 8 and 10 by measuring students attainment of LOs in the respective classes.

- NAS will be useful for educational planners and policy makers including researchers in understanding the interdependence of assessment, pedagogical process and learning outcome in improving the quality of education.

- NAS 2021 will help in systematic understanding of the consequences that prolonged closure of schools have had on students' learning in terms of their socio-emotional and cognitive development.

- Results will help to accurately discover the students' performance in different learning outcomes vis-à-vis the contextual variables.

- Capacity building of teachers, mid level officials, DIETs, SCERT and other officials through the diagnostic report cards

- It will enable to track the future progress in context of National Education Policy 2020.

Salient Features of National Achievement Survey 2021

Robust Assessment Design

NAS 2021 will be conducted with a **robust assessment framework** at its core, designed on the principles of **assessing student learning outcomes.**

Medium of Instruction

All the mediums of instruction covered in NAS 2017 have been covered in NAS 2021.

Grade 3,5, 8 and 10

NAS 2021 will be conducted for **Grades 3, 5, 8 and 10** in key curricular areas of **Language, Mathematics, EVS/Science and Social Sciences.**

Scientific Sampling

National sample for NAS covers government, govt. aided and unaided private schools including central government schools at all grades of all across the country,.

Operational Milestones Achieved So Far

	Key Tasks	Description and Agencies Involved	Action	Task Status
1	**Assessment framework**	NCERT designed and developed **Assessment Framework and finalized Test Items** and Test Forms for Gr 3,5, 8 and 10 after piloting	NCERT	Completed
2	**NAS School Sample**	Sampling finalised (Sample Schools **~1.24 Lakh Schools across 733 districts**)	DDG (Stats)	Completed
3	**NAS Administration & Resource Deployment**	State Nodal Officer (SNO) to be nominated	States/UTs	To be Initiated
		District Nodal Officer (DNO) to be nominated	SNOs	To be Initiated
		District Level Coordinators in place	CBSE	Completed
		Custodians (Resource Centres) in place in 700 Districts	CBSE	Completed
		Observers online nomination on NAS portal by DLC	CBSE	To be Initiated
		Field Investigators online nomination on NAS portal by DNO	States/UTs	To be Initiated
		Board Representative to be appointed by the CBSE	CBSE	To be Initiated
4	**NAS-2021 Portal**	• Designed and developed by NIC for managing NAS, online nomination, appointment of personnel, duty allocation, conduct report, • Support online payment for functionaries engaged, track event status by the National Admin. Facilitate capacity Building, Documentation, Training, and Report sharing	NIC	In progress

Sampling for NAS 2021

- The sample framework estimates to test ~1.24 lakh schools unique schools for NAS 2021

- Sample drawn from Govt. Govt. aided and unaided Private schools, (Rural & Urban representation in 733 districts across 37 States/UTs)

	Total Schools	Total Enrolment
National level (unique Schools)	1,23,729	38,87,759
Grade 3	29,603	6,55,128
Grade 5	28,656	6,46,975
Grade 8	46,062	12,04,777
Grade 10	48,564	13,80,879

- Actual number would vary after survey based on:
  - Enrolment at present
  - Attendance on the day of NAS
  - Quality of data processing etc.

NAS 2021 - State Level View (Sample Size)

State	Total schools (unique)		
Andaman & Nicobar Islands	170	Ladakh	239
Andhra Pradesh	2912	Lakshadweep	36
Arunachal Pradesh	1334	Madhya Pradesh	9499
Assam	6156	Maharashtra	7330
Bihar	5727	Manipur	1409
Chandigarh	106	Meghalaya	2320
Chhattisgarh	4481	Mizoram	1361
Dadra & Nagar Haveli	105	Nagaland	932
Daman & Diu	111	Odisha	5563
Delhi	1624	Puducherry	313
Goa	289	Punjab	3722
Gujarat	6064	Rajasthan	6012
Haryana	3230	Sikkim	380
Himachal Pradesh	1979	Tamil Nadu	6467
jammu & Kashmir	3676	Telangana	4936
jharkhand	3509	Tripura	898
Karnataka	7288	Uttarakhand	2630
Kerala	2454	Uttar Pradesh	15302
		West Bengal	3165

Assessment Framework for **NAS 2021**

Assessment Framework for NAS 2021

The broad **shift from the NAS 2017 design and the rationale** behind the same is highlighted as below:

✅ **Increase in Number of Test booklets for Grades 3 and 5**

To increase the items and thereby content coverage (LOs) without increasing the testing load on students. This will also increase content validity of instruments

✅ **Modular Matrix Design for Grades 8 and 10**
The upgrade design of the test booklets for grade 8 and 10 accommodates a combination of two subjects

✅ **Increase in Number of Items for Each Learning Outcome**

The NAS 2021 test booklet design tests broadly the same number of learning outcomes with more number of items increasing the validity of the study

Assessment Framework for NAS 2021

Grade	Subjects	No of Test Booklets	No of Items (per booklet) & Test Duration
3	Language, Mathematics, EVS	4 (all subjects included)	47items (90 mins)
5	Language ,Mathematics, EVS	4 (all subjects included)	53 items (90 mins)
8	Language ,Mathematics, Science & Social Science	4 (2 subjects included)	60 items (120 mins)
10	Language ,Mathematics, Science, Social Science and English	5 (2 subjects included)	70 items (120 mins)

Questionnaires (PQ, TQ, SQ)

PUPIL QUESTIONNAIRE - PQ (for Students)

- No. of Questions - 25 (For Grade 3,5,8) & 32 (For Grade-10)
- Mode of administration will be Interview Mode for Grade -3 & 5 & Pen and Paper Mode for Grade 8 & 10.
- The questions will be focused on Family background, Facilities at home, Involvement of parents, Safety and facilities in School, learning during pandemic and facilities for CWSN.

TEACHER QUESTIONNAIRE –TQ (for Teachers)

- No. of Questions - 69
- Mode of administration will Pen and Paper Mode (For all Classes)
- The questions will be focused on School Facilities, School Infrastructure, Materials available for Teachers, Professional Development Facilities, Teaching and Assessment , methods and Innovative pedagogies, Parents involvement for student's achievement, Teaching during Pandemic, Covid measures at school.
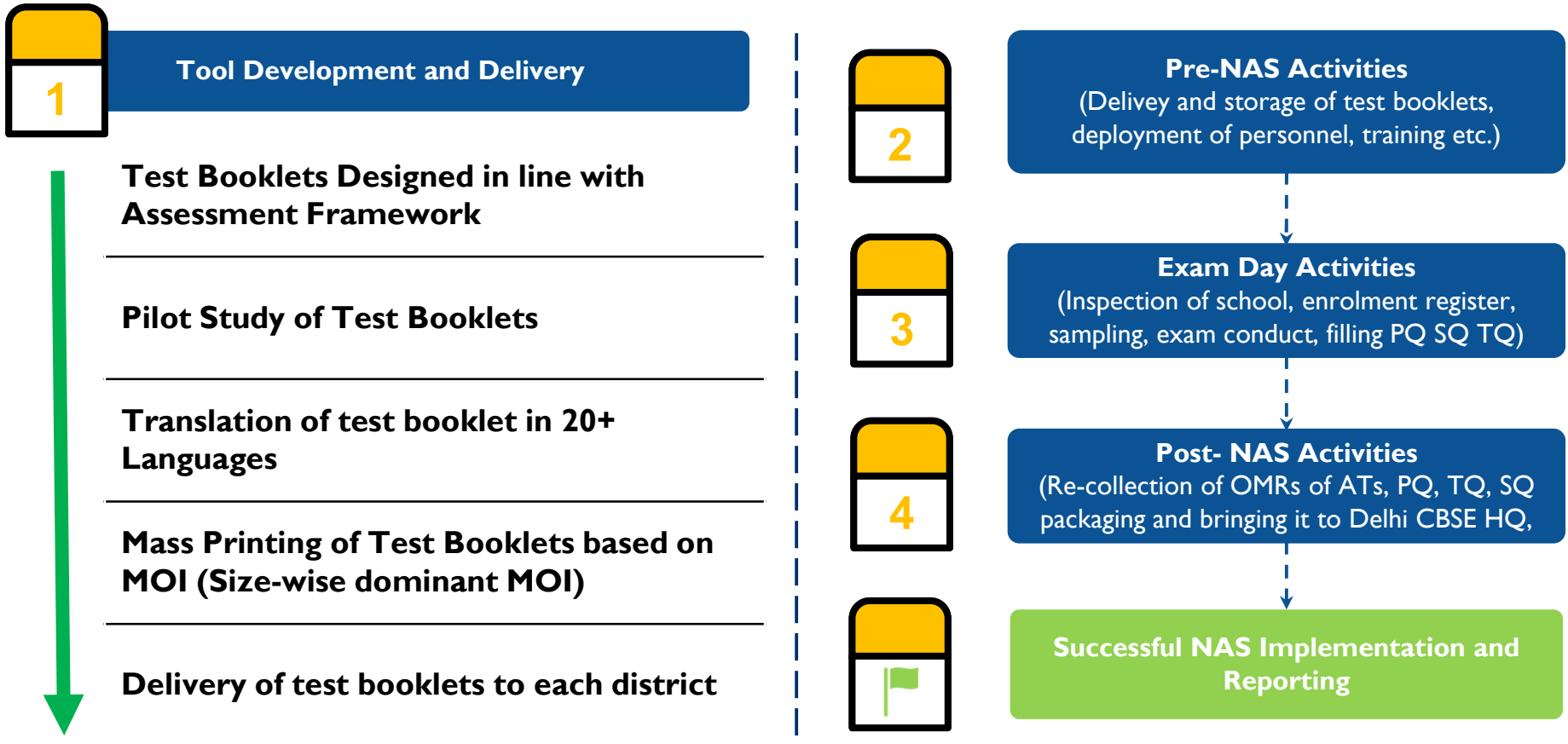
SCHOOL QUESTIONNAIRE –SQ

- No. of Questions - 73
- To be filled by the Head Teachers and FI will collect the information from the Head Teacher.
- The questions will be focused on School Facilities, School Infrastructure, Materials available for Teachers, Availability of teacher and supporting staff, Parents involvement in school for students achievement, Teaching during Pandemic, Covid measures at school, Facilities for CWSN, School – Community interaction
-

Actual conduct of NAS test

Key Process Milestones for NAS Implementation

1

| **Tool Development and Delivery** |

Test Booklets Designed in line with Assessment Framework

Pilot Study of Test Booklets

Translation of test booklet in 20+ Languages

Mass Printing of Test Booklets based on MOI (Size-wise dominant MOI)

Delivery of test booklets to each district

2

Pre-NAS Activities
(Delivey and storage of test booklets, deployment of personnel, training etc.)

3

Exam Day Activities
(Inspection of school, enrolment register, sampling, exam conduct, filling PQ SQ TQ)

4

Post- NAS Activities
(Re-collection of OMRs of ATs, PQ, TQ, SQ packaging and bringing it to Delhi CBSE HQ,

Successful NAS Implementation and Reporting

Functionaries to be nominated by States/UTs for administering NAS 2021

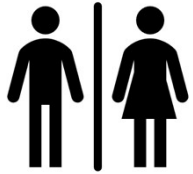| Functionary	Key Responsibility	Profile	Scale
State Nodal Officers (SNO)	• Act as Key Link between State and NAS Administration Agency (CBSE) • Issue instructions to DNSs / Schools as appropriate for smooth conduct of NAS. • Nominate District Nodal Officer (DNO) for each Districts in the State/UT on Portal • Extend administrative support (as required) to the CBSE & other Institutions involved in conduct of NAS • Ensure the veracity of the data on portal & required confidentiality. • Coordination between States/UTs, MoE, CBSE, NCERT and NIC	Senior Officer in the State Edu Dept.	37 (States + UTs)
District Nodal Officers (DNO)	• **Key Link** for all coordination with the CBSE and the Survey Team deployed by the CBSE • Advise schools to mandatorily support the Survey Team (DLC, Board Representatives, Observers and FIs) in smooth and fair conduct of NAS. Issues instructions as required to the schools for NAS • Nomination of Field Investigators on NAS system & Link for district level coordination • Extend administrative support to CBSE & others in conduct of NAS as well as capacity building	Head or equivalent of Edu Dept. in the District	733 (one per district)
Field Investigators	Report to the Sample school as assigned and jointly carry our NAS conduct related tasks with Observer,Distribution of booklets, Invigilation, filling of background questionnaires, Selection of Section and Students for NAS	SCERT, DIETs, BRCs, CRCs, B.Ed./M.Ed. faculty and students	~1.83 Lakh (1-2 per school)

Functionaries to be nominated by CBSE for administering NAS 2021

Functionary	Key Responsibility	Profile	Scale
District Level Coordinators (DLC)	• Responsible for conduct of NAS, Single Point of Contact (Observers/Fis/Custodians/Board Representatives) Schools, • Nomination of Observers on NAS portal from various schools, • Supervising logistics, Pre-survey verification,	CBSE school Principals	733 (one per district)
Custodians	• Act as Custodian of NAS papers, support DLC in conduct of NAS	DLC's & Non-sampled CBSE school	~2900 (2-4 per district as per size)
Observers	• Collection of NAS papers from Custodians on 12th Nov. • Selection of Section and Students for Survey, Conduct of NAS, • Field Note, Collection of OMRs, Packing and handing Over to the DLCs	CBSE Vice principals and PGT/TGT teacher	~1.25 Lakh (1 per school)
Board Representative	• Take charge of NAS conduct on 12th Nov.21 in close coordiantion with the NAS Cell, CBSE Delhi, OMRs collection from DLC, delivery to CBSE HQ	Nominees by CBSE HQ	~1500 (2 per district)

All functionaires for NAS 2021 would be onboarded by September 2021

	Activity	Proposed Deadline
1	NIC portal to go live	19th Aug 2021
2	**SNOs nominated by the State**	**24th August**
3	**DNOs nominated by SNOs**	**3rd September**
4	**FIs nominated by DNOs**	**13th September**
5	DLCs nominated by CBSE	Done and data on NAS portal
6	Observers nominated by DLCs	10th September

Pre-Survey Operations

Nomination & Deployment

All NAS functionaries will be identified by either CBSE or with the help of States/UTs for SNO and DNO officers

Capacity Building

The onboarded personnel will be trained via online training modules using video tutorials, visual hand outs and quizzes

Printing and Delivery of Tools

CBSE would begin the printing of NAS test booklets, OMRs, and PQ, SQ & TQ and then deliver them to each district

Planning Contingencies

As the exam day will approach, CBSE shall make room to solve for last minute drop out of personnel and other contingencies

Exam Day Operations

S.no	Task	Responsibility	Time/Duration
1	Reporting to Custodian to collect ATs	Observer	07:30 AM
2	Collection of ATs and signing of Chalan	Observer	07:30 AM - 08:15 AM
3	Reporting to Sample school with Letter of appointment	Field Investigator	08:00 AM
4	Reporting to Sample school with Letter of appointment	Observer	08:30 AM
5	Inspection of Exam room	Field Investigator	08:00 AM - 09:00 AM
6	Arranging materials in Exam control room	Observer	08:30 AM – 09:00 AM
7	Sampling of Student for Survey	Observer + FIs	09:00 AM – 10:00 AM
8	Instruction to students about filing OMR	Field Investigator	10:00 AM - 10:30 AM
9	Exam Commences	Observer + FIs	10:30 AM – 12:30 PM
10	Filling of PQ	Field Investigator	12:30 AM – 01:00 PM
11	Filling of SQ, TQ	Observer	12:30 AM – 01:00 PM
12	Counting and Packaging of Materials	Observer + FIs	01:00 AM – 02:00 PM
13	Updating Field Notes	Observer + FIs	02:00 AM – 02:30 PM
14	Submission to DLCs Office	Observer	02:30 AM – 03:00 PM

Exam Day Operations – Timeline View

Task	07:30	08:00	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	01:00	01:30	02:00	02:30	03:00
Reporting to Custodian	▮															
Collection of ATs	▮▮▮▮															
Reporting to School (FIs)		▮														
Inspection of Exam room		▮▮▮														
Reporting to School (Obs.)			▮													
Arranging in control room			▮▮													
Sampling of Student				▮▮▮												
Instruction to Students						▮▮										
Exam (3rd, 5th, 8th)							▮▮▮▮▮									
Exam (10th)							▮▮▮▮▮									
PQ, SQ, TQ										▮▮▮						
Packaging											▮▮▮					
Field Notes + Final Check														▮▮		
Submission to DLC															▮▮	

Post-Survey Operations

Collection and Submission to CBSE

NAS Assessment tools will be deposited by Observers at **DLC place.**
Handed over to BRs for bringing at Delhi Scanning Room, at CBSE HQ

Scanning and Data Capture

CBSE will ensure secured 3rd party handling of OMRs, its **scanning, data** capturing from OMRs of AT Booklets, PQ,TQ and SQ

Data Analysis and Insights

Scanned data readied for handing over to NCERT / for scoring as per Key supplied by NCERT.
Analyze data and produce **relevant insights**

Publishing Reports and Dissemination

Building upon the insights. **District level and state level report cards** will be developed and shared with the States/UTs

Immediate Priorities

Immediate Next Steps

Engagement with State Education Depts.	Onboarding of all NAS functionaries	Training of Key Functionaries
• Virtual Meeting with Education Secretaries /their Representatives • Briefing Sessions with the DNOs of roles, responsibilities	• Engagement with State/UT to fastrack nomination of SNOs and DNOs • NAS portal to track nomination progress and send alerts	• Development of video Demonstration modules, • PDF handouts, quizzes for Survey Team • Training in blended mode for DLCs, Custodians, BRs, Observers, FIs on NAS conduct part

NAS : Training Strategy :

To be delivered via 2 channels - NAS Portal and small group orientations sessions on zoom/google meet

NAS Portal

Functionaries to access training content using the **resource centre function** on their respective **NAS user logins**

- ✔ Uploaded Role Specific **training modules**

- ✔ **Video tutorial** content for all users

- ✔ **Reference manual (PDFs):** key roles & responsibilities

- ✔ **Short Quizzes** on portal to ensure actual learning

- ✔ NAS Portal to **track training progress** for each user

Online Training Sessions

Targeted online training sessions for DLCs, Custodians Observers, Field Investigators for Roles and Responsibilities

- ✔ **~2 Hours of training sessions (**functionary specifc)

- ✔ Conducted **separately for each District / Region** at the DLC level

- ✔ **DLCs to hold trainings** for FIs and Observers using available training resources

- ✔ **Clarify doubts and queries** from the functionaires

Smooth Deployment of NAS functionaries via NAS Portal

Unique login IDs for each NAS functionary (SNO, DNO, DLC, Custodians, Observer, FI, BR etc)

Step 1: *Visit https://nas.education.gov.in/ , click login option*

Step 2: *Enter mobile No. and login through OTP or login via the password*

Step 3: *Enter basic details in Registration form (e.g. name, gender, working status etc)*

Step 4: *Upload photo and signature*

Step 5: *View complete profile*

Click here to Login

LOGIN

Login for National, State and District User

NEP 2020

"For a periodic "health check-up" of the overall system, a sample-based National Achievement Survey (NAS) of student learning levels will be carried out...."

Login and Registration Form

FIELD INVESTIGATOR Registration Form

Basic Details

Name(As per bank a/c)*	Prashant demo FI
Gender*	◉ Male ○ Female
Working Status*	◉ Working ○ Retired
Organization (Belongs to) *	Cluster Resource Centre(04) ⌄
Designation *	Cluster Resource Person(05) ⌄
Residence Pincode*	201301 View Post office ▾
Address *	Upto 150 characters

NIC Portal for Coordination for smooth conduct of NAS

Thank you