

অসম চৰকাৰ



GOVERNMENT OF ASSAM

Digital Revolution of Schooling in Assam: Shiksha Setu Axom

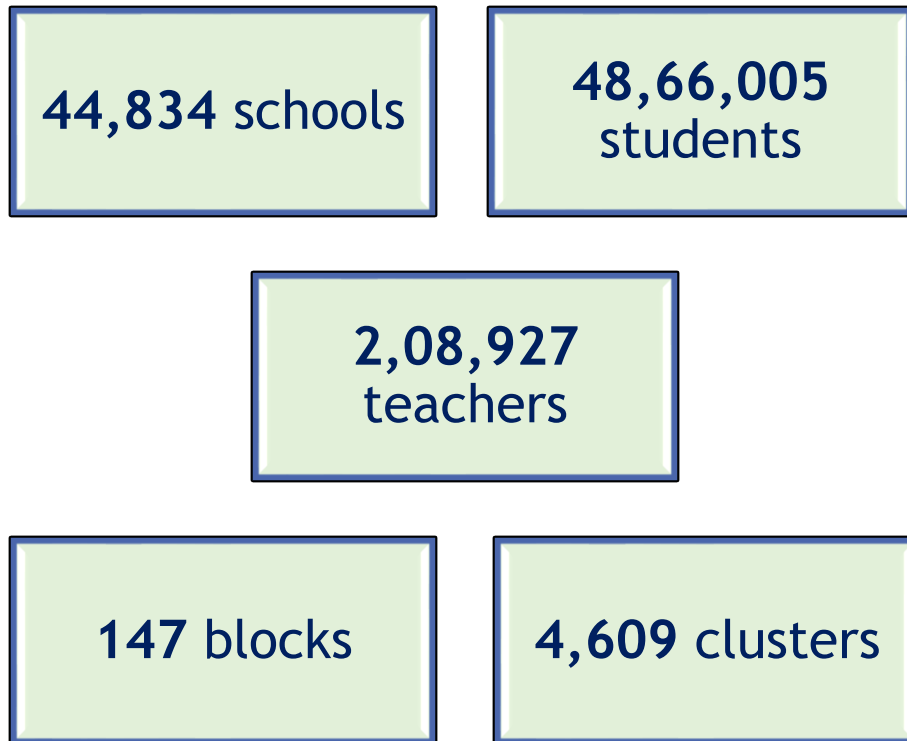


SIKSHA SETU
AXOM

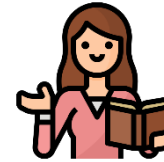


Department of School Education: Assam

Assam's Education Stakeholders



Issues faced by Education Department



Teachers

- Proxy teachers
- Unauthorised absenteeism
- Subject-wise teacher availability
- Retirement projection and recruitment planning
- Time spent on Non- Academic works



Students

- Absenteeism
- Ghost students
- Drop out predictions and bringing them back to the system
- Issues faced during the transfer from one school to another



School

- Imbalance in PTR
- Teachers' utilisation status
- Probable Amalgamation
- Uniform grant and Free Textbook



Real-Time monitoring

- Lack of reliable and real-time data in public school system of Assam.
- Delayed identification of issues, lack of accountability

Solution



A comprehensive digital platform with **360-degree** information on Schools, Staff & Students.



Designed to serve as a **single source of information** for day-to-day administrative operations

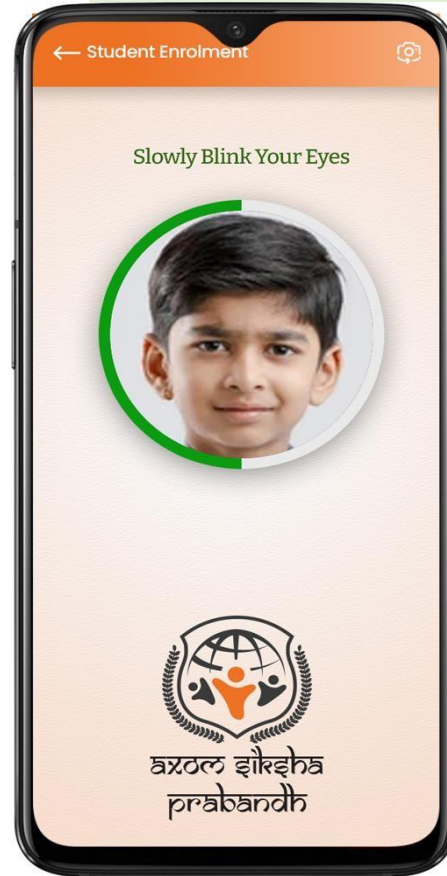
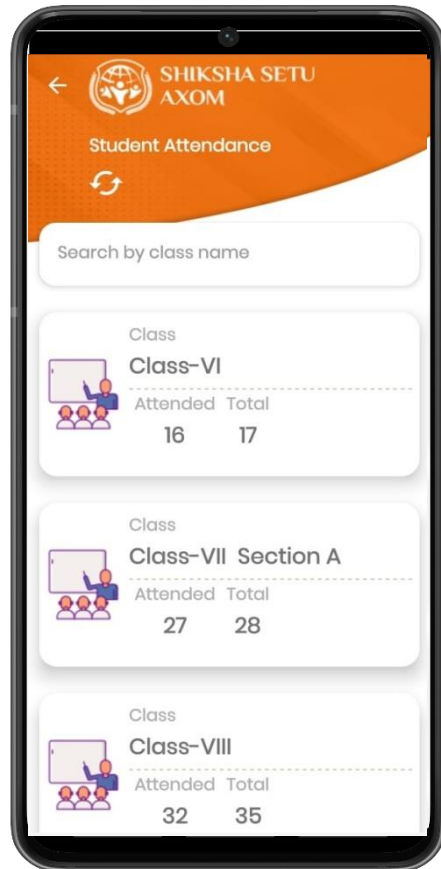
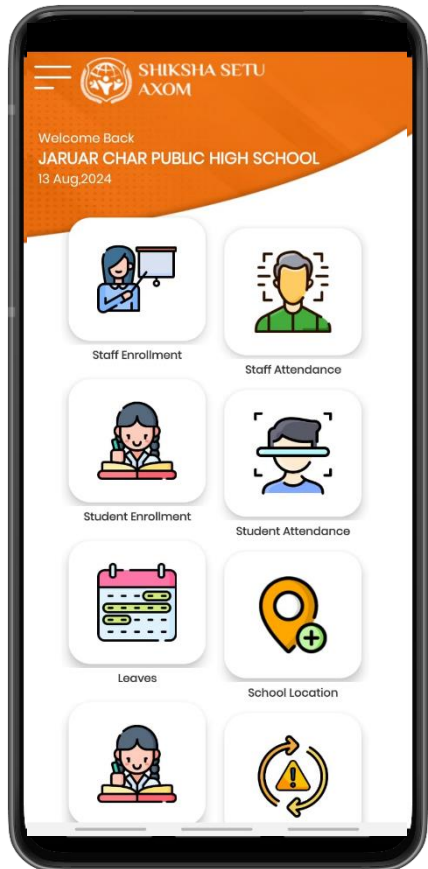


Enabler for the department to take **timely and data-driven decisions** for optimization of resources and improve overall performance



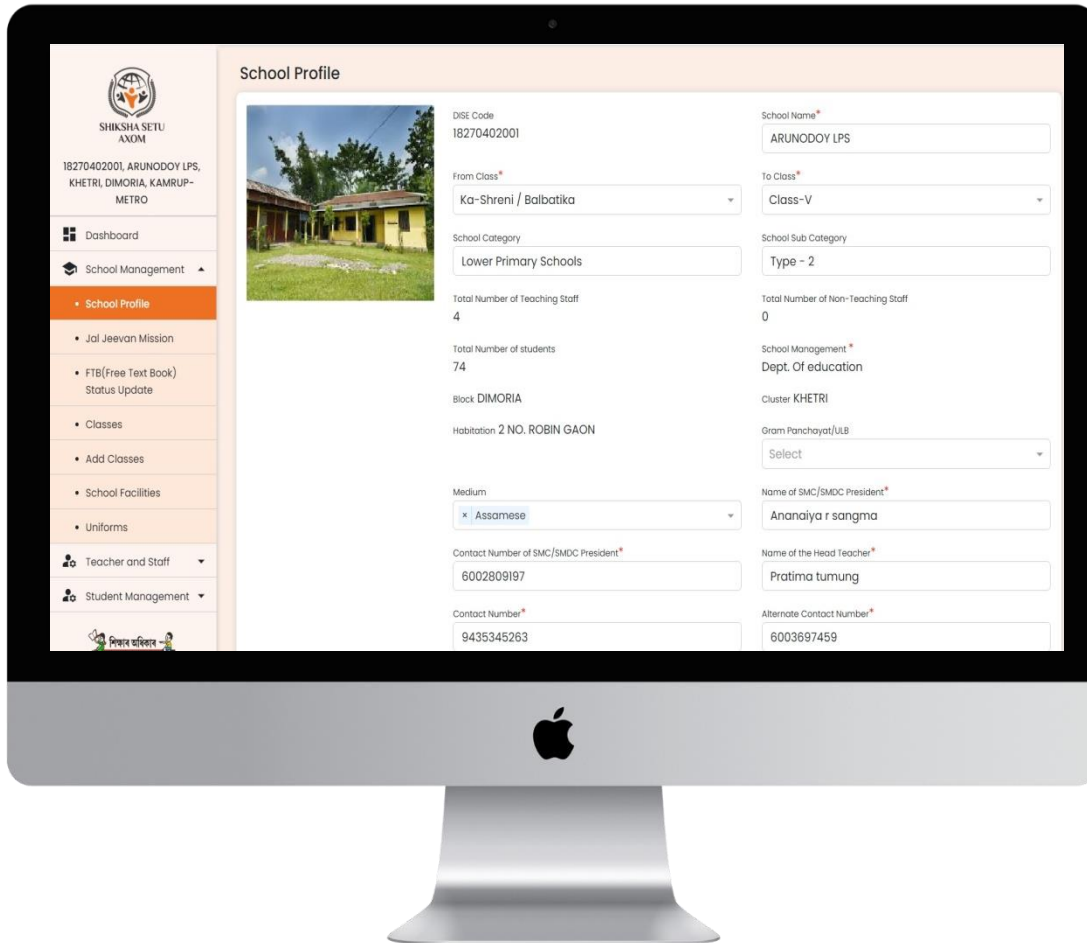
SIKSHA SETU
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AI-Based Attendance Tracking



- AI based facial recognition technology
- Geo fencing
- Real Time (HH: MM: SS)
- Individual and Group attendance

School Management



School Profile

School admin can **view and update** school profile details

This is a detailed view of the 'School Profile' form. It includes a small image of the school building on the left. The form fields are: DISE Code (18270402001), School Name (ARUNODOY LPS), From Class (Ka-Shreni / Balbatika), To Class (Class-V), School Category (Lower Primary Schools), School Sub Category (Type - 2), Total Number of Teaching Staff (4), Total Number of Non-Teaching Staff (0), Total Number of students (74), School Management Dept. Of education, Block (DIMORIA), Habitation (2 NO. ROBIN GAON), Cluster (KHETRI), Gram Panchayat (ULB), Medium (Assamese), Name of SMC/SMDC President (Ananaiya r sangma), Name of the Head Teacher (Pratima tumung), Contact Number of SMC/SMDC President (6002809197), Contact Number (9435345263), and Alternate Contact Number (6003697459).

List of Classes

- Ka-Shreni / Balbatika
- Class-I
- Class-II
- Class-III
- Class-IV
- Class-V
- Class-XI
- Class-XII

School Classes

School admin can **view, create and update** classes and associated sections

Teacher Management

Teacher Registration School admin can **add new joiners / update details** related to existing teachers

Staff Registration

Post Details

Personal Details

Gender *
 Male Female Transgender

Date of Birth *

Qualifications

Religion *

Additional Qualifications and Knowledge

Nationality *

Mother Tongue *

Official Account Details

Home Language

Other Known Languages

Address Number (Optional)

Mobile Number (10 digit mobile number) *

E-mail id *

Communication Address *

Father Name *

Mother Name *

Teacher and Staff Listing

Filter: Select Gender Search:

Sr.No.	Staff Code	Staff Name	Staff Type	Gender	Email	Mobile Number	Appointed for Subject	Name of the post	Subjects of Additional Proficiency	Languages of Additional Proficiency	Edited Status	Photo	Action
1	18080205807003	ANNADA RANI DEKA	Teaching	Female	dekaannada27@gmail.com	XXXXXX0058	General	Provincialised Teacher (2013)	MUSIC	-	Updated		Select Action
2	18080205807009	BABUL CHANDRA DEKA	Non-Teaching	Male	babulchandradeka33@gmail.com	XXXXXX9025	-	Grade-IV	-	-	Updated		Select Action
3	180802092041027	BANTI DEVI	Teaching	Female	Devbant99@gmail.com	XXXXXX0283	-	Principal	-	-	Updated		Select Action
4	1808020920412280	BHASKAR JYOTI GOSWAMI	Non-Teaching	Male	bhaskar784529@gmail.com	XXXXXX0891	-	Grade-IV	-	-	Updated		Select Action
5	180802092041029	BICHITRA KUMAR DEKA	Teaching	Male	bichitradeka@gmail.com	XXXXXX0994	Mathematics - Science	Contractual	-	-	Updated		Select Action
6	180802092040038	DIMPLE SAHARA	Teaching	Female	wite2himadri@gmail.com	XXXXXX4933	-	PGT	Arts	Hindi	Updated		Select Action
7	180802092040032	GAUTAM KAKATI	Teaching	Male	gkakati75a@gmail.com	XXXXXX0737	-	Regular	General Mathematics - Science	-	Updated		Select Action
8	180802092041034	GITA RANI DEKA	Teaching	Female	gitadevi90@gmail.com	XXXXXX3923	General	Regular	-	-	Updated		Select Action
9	18080205801001	HARENDRA DUTTA	Teaching	Male	harendradutta5@gmail.com	XXXXXX0542	-	Regular	MUSIC	English/Hindi	Updated		Select Action
10	180802058031004	HARI CHANDRA DEKA	Non-Teaching	Male	simantadewa224@gmail.com	XXXXXX7901	-	Grade-IV	-	-	Updated		Select Action
11	18080205807004	HARI PRAASAD DEKA	Teaching	Male	hddeka4874@gmail.com	XXXXXX5376	Mathematics - Science	Provincialised Teacher (2013)	-	English/Hindi	Updated		Select Action

Staff Transfer

Staff Type: Teaching

Staff Name: ANNADA RANI DEKA

Reason *

District *

Block *

Cluster *

School *

Teacher Details

Admin can view and do following activities

- School – Update Teacher details
- District - Teacher transfers

Teacher Subject Mapping

School admin can view and map classes and subjects to teachers

Staff Classes

Search:

Sr.No.	Staff Name	Staff Id	Class Name	Subject Name	Action
1	Harendra Dutta	18080205801001	Ka-Shree / Babatka	All Subject	
2	Harendra Dutta	18080205801001	Class-I	All Subject	
3	Krishna Deka	18080205801103	Class-I	All Subject	
4	Krishna Deka	18080205801103	Class-II	All Subject	
5	Sattam Deka	180802058031001	Class-VII Section A	English	
6	Sattam Deka	180802058031001	Class-IX Section A	Assamese	
7	Sarata Deka	180802058041001	Class-III	All Subject	
8	Sarata Deka	180802058041001	Class-IV	All Subject	
9	Papumoni Baria	180802058041003	Class-IV	All Subject	
10	Papumoni Baria	180802058041003	Class-V	All Subject	
11	Annada Rani Deka	180802058071003	Class-VI	English	
12	Annada Rani Deka	180802058071003	Class-VII Section A	Social Science	

Student Management

Sr.No.	Student Uniqueid	Student Name	Father Name	Class & Section	Gender	Student Image	MHRD Update Status	Student Status	Uniform	Action
1	1827042000180001	BIBEK GOUR	RABI GOUR	Class-V	Male		Updated	ACTIVE		
2	1827042000180001	YOUB MARAK	DEVID MARAK	Class-V	Male		Updated	ACTIVE		
3	1827042000180007	KRISHNA MANDAL	SAPAN MANDAL	Class-V	Male		Updated	ACTIVE		
4	1827042000180024	RUHI PAHARIA	BIBYSON PAHARIA	Class-IV	Female		Updated	ACTIVE		
5	1827042000200096	KAISTINA SANGMA	PITOR SANGMA	Class-V	Female		Updated	ACTIVE		
6	1827042000200098	ADITYA SANGMA	ISHTEN SANGMA	Class-II	Male		Updated	ACTIVE		
7	1827042000200100	NAYANJYOTI BORO	NREN BORO	Class-II	Male		Updated	ACTIVE		
8	1827042000200104	SIBANI GOUR	DPAK GOUR	Class-V	Female		Updated	ACTIVE		
9	1827042000170001	DENIEL MARAK	NIGRO MARAK	Class-V	Male		Updated	ACTIVE		
10	1827042000180008	AYUSH SARMIA	GOPAL SARMIA	Class-II	Male		Updated	ACTIVE		
11	1827042000180009	BKASH GOUR	RABI GOUR	Class-IV	Male		Updated	ACTIVE		
12	1827042000180020	KARAN CHETRI	ARUN CHETRI	Class-II	Male		Updated	ACTIVE		

Student Registration

School admin can do the registration of students with complete demographic data

Add New Student

General Information Of Student	General Information Of Student
Enrollment Details Of Student In Present School For Current Year	4.1.1) Name of the Student * Enter
Facility And Other Details Of The Student	4.1.2) Gender * Select
Bank Details Of The Student	4.1.3) Date of Birth * Date of Birth
	4.1.4) Mother's Name * Enter
	4.1.5) Father's Name * Enter
	4.1.6) Guardian's Name Enter
	4.1.7) Aadhaar Number of Child Enter
	4.1.8) Name of Student as per/in Aadhaar Card Enter
	District * Select

Student Name	Father Name	Class & Section	Gender	Student Image	MHRD Update Status	Student Status	Uniform	Action
BIBEK GOUR	RABI GOUR	Class-V	Male		Updated	ACTIVE		
YOUB MARAK	DEVID MARAK	Class-V	Male		Updated	ACTIVE		
KRISHNA MANDAL	SAPAN MANDAL	Class-V	Male		Updated	ACTIVE		

Student Updating

School admin can view and do following activities

- Student data update
- Student status update

Student Promotions & Transfers

School admin can view and do the student promotion and transfer

Student Promote or Transfer

Sr.No.	Student Uniqueid	Name	Father Name	Gender	
<input type="checkbox"/>	1	18270403000990001	RAKESH THAKURIA	F	Male
<input type="checkbox"/>	2	182704030003950040	DHRUBA JYOTI DAS	MAHESH DAS	Male
<input type="checkbox"/>	3	18270403000990004	BHUMITA DAS	RUPEN DAS	Female
<input type="checkbox"/>	4	18270403000990006	DIPMANI TALUKDAR	RATAN TALUKDAR	Male
<input type="checkbox"/>	5	18270403000990007	BABISHKHA TALUKDAR	RAJEN TALUKDAR	Female
<input type="checkbox"/>	6	18270403000990008	JUMAN THAKURIA	PRABHRA THAKURIA	Male
<input type="checkbox"/>	7	18270403000990009	NABANITA TALUKDAR	INDRAJIT TALUKDAR	Female

Showing 1 to 7 of 7 entries Show | 10 rows

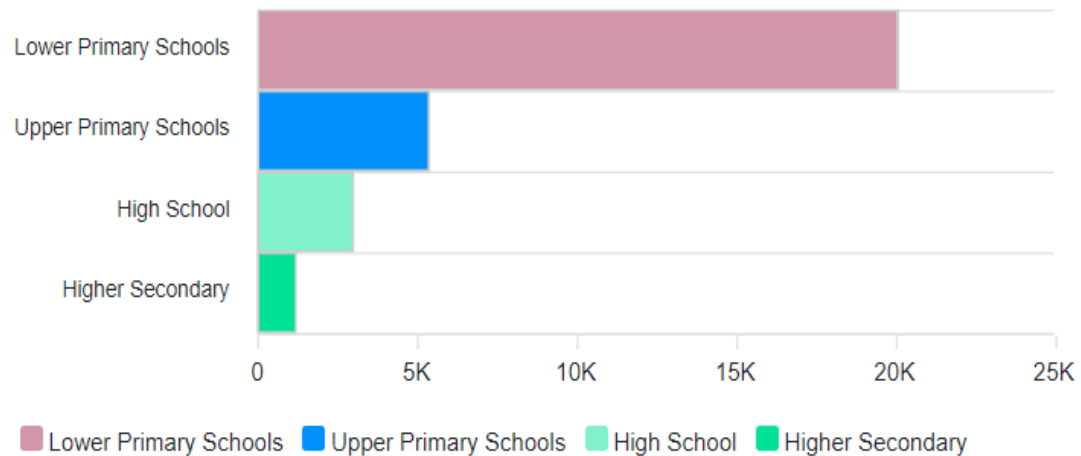
PROMOTE REPEATER DROPOUT DROPOX CANCEL

Predictive Analysis

Pupil Teacher Ratio

- **Schools PTR** can be viewed for high and low PTR
- **High PTR schools with** neighbouring low PTR can be viewed

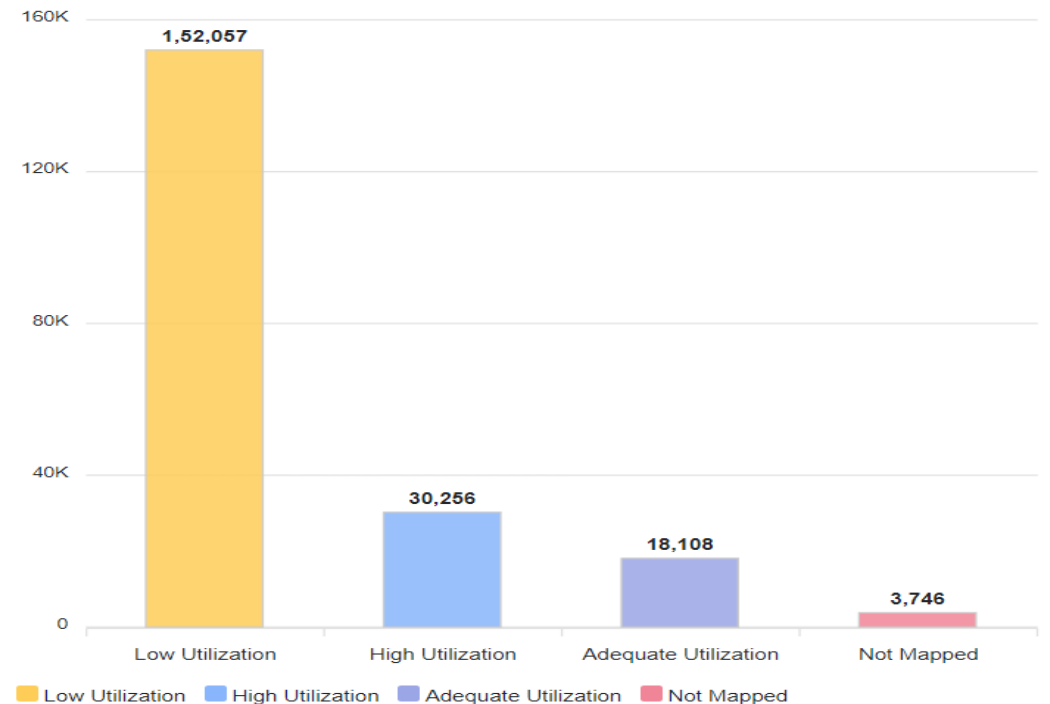
Pupil Teacher Ratio (PTR) Low Category wise
as on Aug 11, 2024, 1:09 PM



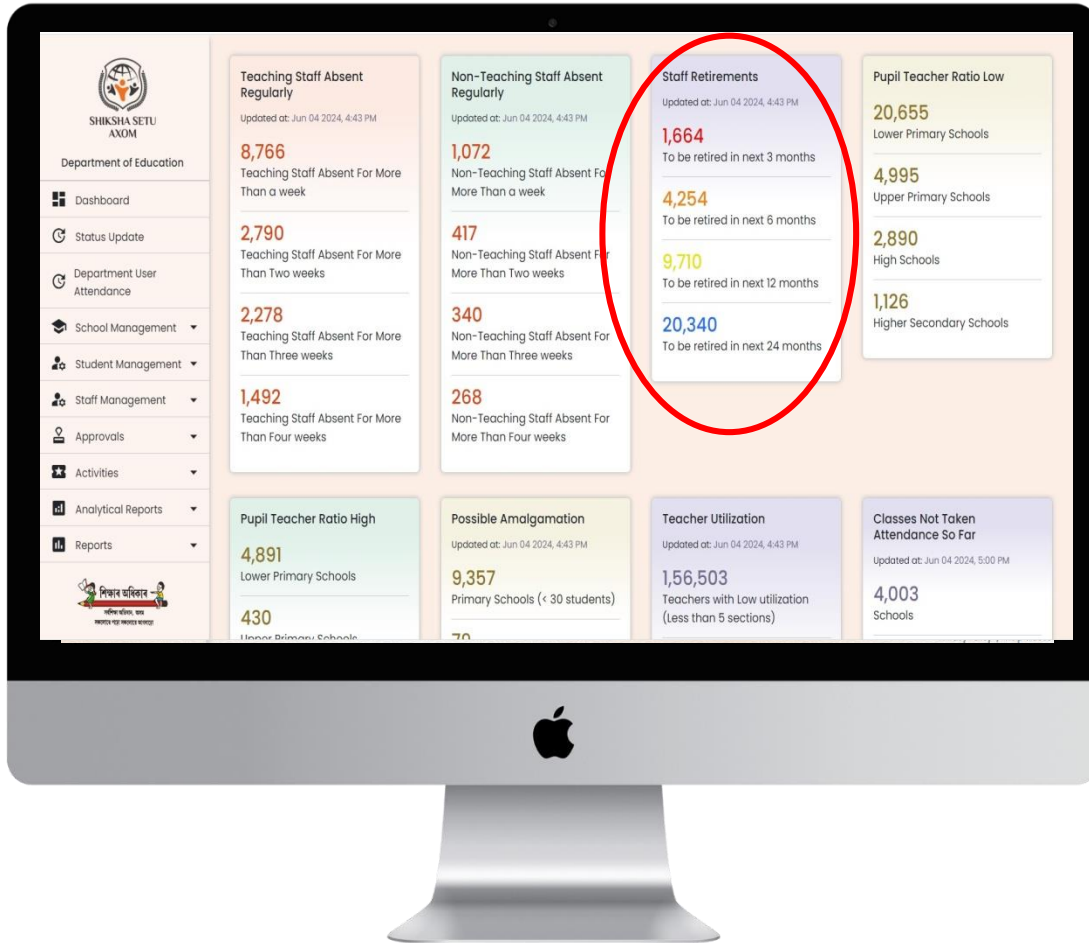
Teacher Utilization Analysis

- **Teachers who are under utilized, adequately utilized and over utilized** can be viewed based on subject & class mapping

Teachers Utilization
as on Aug 13, 2024, 4:30 AM



Teacher Retirement Analysis



To be Retired in 3 Months
State/District user can view details of teachers who are to be retired in next 3 months

Predictive Analysis (To be Retired > Upto 3 Months)

Sr.No.	District Name	#	Total Teachers Count#	To be Retired Count#	Action
1	KAMRUP-METRO	5063	5063	62	View
2	KAMRUP-RURAL	10999	10999	90	View
3	BAKSA	8400	8400	51	View
4	BARPETA	12491	12491	92	View
5	BISWANATH	4170	4170	38	View
6	BONGAIGAON	5507	5507	34	View
7	CACHAR	10448	10448	86	View
8	CHARAIDEO	4152	4152	44	View
9	CHIRANG	3578	3578	33	View
10	DHEMAJI	6882	6882	51	View
11	DHUBRI	1182	1182	37	View

To be Retired in 6 Months
State/District user can view details of teachers who are to be retired in next 6 months

Predictive Analysis (To be Retired > Upto 6 Months)

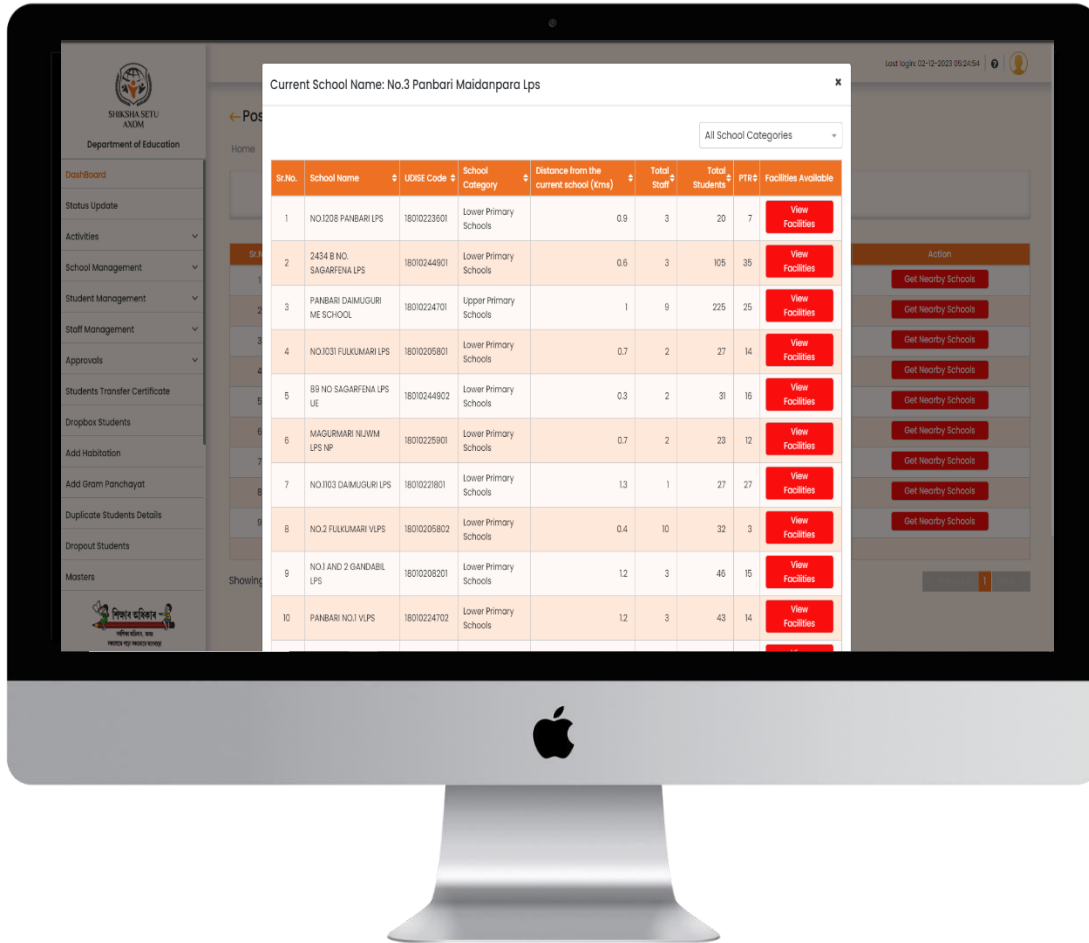
Sr.No.	District Name	#	Total Teachers Count#	To be Retired Count#	Action
1	KAMRUP-METRO	5063	5063	147	View
2	KAMRUP-RURAL	10999	10999	241	View
3	BAKSA	8400	8400	153	View
4	BARPETA	12491	12491	227	View
5	BISWANATH	4170	4170	93	View
6	BONGAIGAON	5507	5507	77	View
7	CACHAR	10448	10448	218	View
8	CHARAIDEO	4152	4152	97	View
9	CHIRANG	3578	3578	79	View
10	DHEMAJI	6889	6889	119	View
11	DHUBRI	1182	1182	125	View
12	DIBRUGARH	7917	7917	159	View

To be Retired in 12 months
State/District user can view details of teachers who are to be retired in next 12 months

Predictive Analysis (To be Retired > Upto 12 Months)

Sr.No.	District Name	#	Total Teachers Count#	To be Retired Count#	Action
1	KAMRUP-METRO	5063	5063	357	View
2	KAMRUP-RURAL	10999	10999	562	View
3	BAKSA	8400	8400	405	View
4	BARPETA	12491	12491	498	View
5	BISWANATH	4170	4170	177	View
6	BONGAIGAON	5507	5507	221	View
7	CACHAR	10448	10448	368	View
8	CHARAIDEO	4152	4152	232	View
9	CHIRANG	3578	3578	145	View
10	DHEMAJI	6889	6889	257	View
11	DHUBRI	1182	1182	196	View

Proposed Amalgamation Analysis



Proposed Primary Schools
State/District user can view number primary schools **eligible / proposed for amalgamation** due to low student count as defined

Sr.No	District Name	To be Retired Count	Action
1	KAMRUP-METRO	276	View
2	KAMRUP-RURAL	205	View
3	BAKSA	140	View
4	CACHAR	90	View
5	KOKRAJHAR	132	View

Sr.No	District Name	To be Retired Count	Action
1	KAMRUP-METRO	305	View
2	KAMRUP-RURAL	255	View
3	BAKSA	156	View
4	CACHAR	101	View
5	KOKRAJHAR	110	View

Proposed Non-Primary Schools
State/District user can view the number non-primary schools **eligible / proposed for amalgamation** due to low student count

Nearby Schools for Amalgamation

State/District user can view nearby schools with which the proposed school can be amalgamated based on *distance, student count and facilities*

Sr.No	District Name	To be Retired Count	Action
1	KAMRUP-METRO	325	View
2	KAMRUP-RURAL	278	View
3	BAKSA	182	View
4	CACHAR	105	View
5	KOKRAJHAR	146	View

Process Re-engineering



Online registry of Students, Teachers and Schools



Attendance : AI based Facial recognition attendance of 48 Lakh Students and 2.09 Lakh teachers – **Save time , real-time information** which can be viewed at all the level (State, District, Block, Cluster and School)



Online student transfer , transfer certificate and admission



Early detection of probable drop out which is difficult in manual process



Online leave management : Application, sanction and records



Timely notice to the teachers to be retired in next few months . It also reduces the court cases



Recruitment : Timely recruitment of category-wise teachers



Time saving : Reduces the time of teachers in non-academic works and focus more on academic works



Correct and real-time **data-data driven decision making and planning**



Identification of schools with High & Low PTR and rationalisation of teachers

Benefit 1: AI-based attendance

TEACHERS

- **No more proxy attendance**
 - **No more unauthorised absenteeism**
 - Teachers are **not only coming to schools but coming in time**
- “67% HTs report improvement in teacher attendance” (UNICEF study)*

STUDENTS

- **No more Ghost students** (Around 4 Lakh ghost/ duplicate students removed)
- **Close monitoring** of those students who are more than 1, 2, 3, 4 or more weeks absent
- **Prediction of probable drop out** and efforts to bring them back to schools

SCHOOLS

- **Saving of Govt. exchequer** on Free Textbook, Free Uniform, PM POSHAN etc.

Sr.No.	Staff Name	Photo	Mobile Number	Gender	AI Enrollment	Attendance	Attendance Type	In-Time
1	ANJU PATOWARY MEDHI		XXXXXX0865	Female	Yes	Present	AI Based	04-06-2024 08:33:04
2	APARUPA PAUL		XXXXXX3656	Female	Yes	Present	AI Based	04-06-2024 09:03:10
3	ASHMA KHANAM		XXXXXX0387	Female	Yes	Present	AI Based	04-06-2024 08:41:27
4	BABITA SAIKIA DAS		XXXXXX8052	Female	Yes	Present	AI Based	04-06-2024 08:51:40
5	BANTI BHATTACHARJYA		XXXXXX8579	Female	Yes	Present	AI Based	04-06-2024 09:00:47
6	BIJUMANI KALITA		XXXXXX6451	Female	Yes	Present	AI Based	04-06-2024 09:03:02

Benefit 2: School Management

➤ Identification of teachers' utilisation status and **proper utilisation of underutilised teachers**

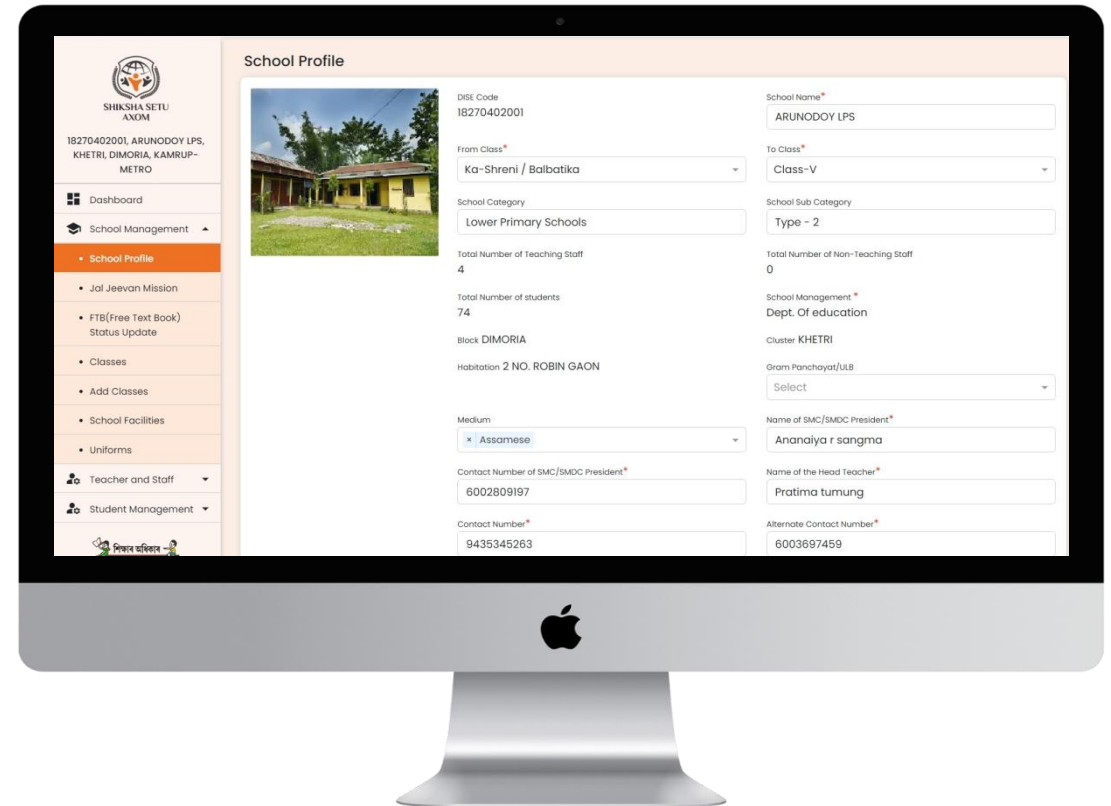
➤ Identification of **subject-wise teachers' availability**

➤ Uses of teachers' knowledge for **co-scholastic activities** like singing, dance, drawing, music etc.

➤ Identification of **probable amalgamation** of schools through PTR and Geo-Location

➤ **PTR based Teachers transfer**

➤ **Teachers leave monitoring** and over shooting of leave



Benefit 3: Students Dropbox

- School admin can move the students to Dropbox after completion of highest class in the school or during transfers
- No more requirement of Transfer Certificate
- Students can take admission in any Govt/ Provincialized school across Assam
- The student need to make an application to the HT of the school where he/she wants enrolment. Student details will be **pulled from Dropbox** and admission will happen instantly and hassle free

Benefit 4: Teachers

- Online Leave sanction
- **Retirement intimation** – 3 months, 6 months, 12 months and 24 months
- **Timely recruitment** by Government

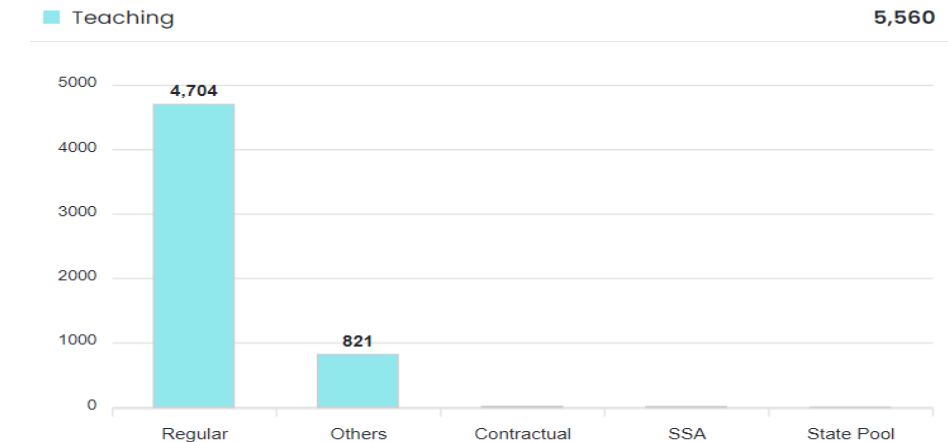
<input type="checkbox"/>	Student Unique Id	From Class	Name
<input type="checkbox"/>	18271107205220107	Class-V Section A	Purnima kalita
<input type="checkbox"/>	18271107205170011	Class-V Section A	Mausam Kalita
<input type="checkbox"/>	18271107205170014	Class-V Section A	Niharika Boro
<input type="checkbox"/>	18271107205170008	Class-V Section A	Minakshi Das
<input type="checkbox"/>	18271107205170012	Class-V Section A	Mayadevi Das
<input type="checkbox"/>	18271107205210075	Class-V Section A	Deepsikha das
<input type="checkbox"/>	18271107205210076	Class-V Section A	Pankaj saud
<input type="checkbox"/>	18271107205170006	Class-V Section A	Riyaz Das
<input type="checkbox"/>	18271107205170009	Class-V Section A	Mili Das
<input type="checkbox"/>	18271107205170010	Class-V Section A	Bhumika Rabha

Showing 1 to 10 of 10 entries Show: 50rows ▾

[PULL THE STUDENTS](#)

Teaching Staff Retirements
as on Aug 1, 2024, 4:00 AM

3M 6M 12M 24M



Benefit 5: Teachers Rationalisation

Technology-based comprehensive teacher-requirement planning . Shiksha Setu brings this vision to life in Assam **by identifying Schools where teachers are needed based on PTR.**

It assesses on the basis of criteria such as **proximity, teacher's age, TET qualified teacher and gender** (with a preference for male teachers) to determine potential transfers.

This ensures that the **right teachers are placed where they are most needed**, enhancing the quality of education across the State .

Rationalization Report

Home

Filter Select All

Search Search

 **39,592**
Total Schools

 **1,42,105**
Total Staff

 **30,40,140**
Total Student

 **1,70,957**
Required Staff

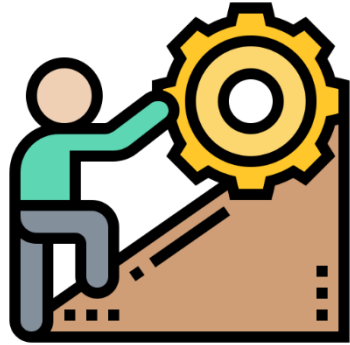
 PTR LOW : 33
PTR HIGH : 33
PTR MATCH : 33

School Wise Vacancies Data

Suggestive Transfers Data

Sr.No.	District Name	District Code	Total Schools	Total Staff	Total Student	Required Staff	PTR Type	View
1	KAMRUP-METRO	1827	255	1225	35414	1907	HIGH	View
2	KAMRUP-METRO	1827	139	649	5974	353	LOW	View
3	KAMRUP-METRO	1827	113	315	5333	315	MATCHING	View
4	KAMRUP-RURAL	1806	671	2281	74309	4074	HIGH	View
5	KAMRUP-RURAL	1806	570	2024	18141	1115	LOW	View
6	KAMRUP-RURAL	1806	548	1398	22555	1398	MATCHING	View
7	BAKSA	1824	372	1068	33690	1897	HIGH	View

Challenges faced during implementation



Resistance from teachers to use their personal mobile



Lack of technical knowledge of teachers

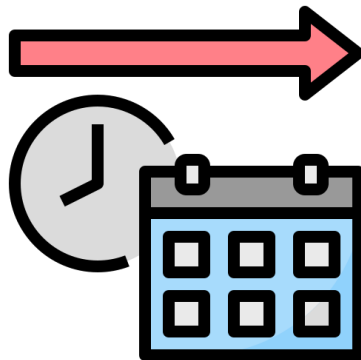


Technical glitches



Network issues in certain areas

Future Planning



Capturing the **service records of teachers** i.e., Digital Service Book



Requisition of **uniform** and **Free Textbook** by Schools



Monitoring **progress of civil work** at school level



Linking **Mid-Day Meal** and **teacher's salary** with Shiksha Setu.

Monitoring by Call Centre cum VSK



Thank You!