



Education Monitoring Authority (EMA) E&SED - GoKP



Innovation Information Revolution

Dated: 2023

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SEQUENCE

- Key Achievements
- Data at Glance
- Annual School Census Analysis
- Non-Functional Schools Analysis
- Financial Analysis
- BISE Result Analysis
- Teacher Retirement and Qualification Analysis
- Challenges faced and encountered
- Future Recommendations

KEY ACHIEVEMENTS OF KPEMA

- KPEMA plays a crucial role in improving education through monitoring and evaluation activities
- These activities include regular school monitoring, annual school census, and monitoring of double shift and GCS schools
- Special initiatives include textbook distribution, flood damage assessment, and BISE result analysis
- KPEMA also monitors ECE rooms, non-formal ALP centers, and conducts price monitoring
- KPEMA has performed multivariate analysis on data, including statistical, financial, and BISE results etc.
- By providing real-time data and insights, KPEMA helps policymakers and education administrators make informed decisions

DATA AT A GLANCE

ASC 23-24	Settled Districts	NMDs	Total
Schools	28,239	6,394	34,633
Teachers	170,834	21,207	192,041
Non-teachers	46,851	10,671	57,522
Students enrolled	5,148,169	692,234	5,840,403

ANNUAL SCHOOL CENSUS ANALYSIS

INDICATORS

Settled Districts			
Indicators	2021-22	2022-23	2023-24
Transition Rate	75%	88%	84%
Gross Enrollment Rate (Govt. Schools)	62%	64%	65%
Net Enrollment Rate (Govt. Schools)	44%	43%	42%
Student to Teacher Ratio			
Student Teacher Ratio (Primary)	36	37	39
Student Teacher Ratio (Secondary)	17	20	15
Gender Parity Index			
Gender Parity Index (Primary)	0.77	0.77	0.86
Gender Parity Index (Secondary)	0.61	0.62	0.68

ANNUAL SCHOOL CENSUS ANALYSIS

INDICATORS

Merged Districts			
Indicators	2021-22	2022-23	2023-24
Transition Rate	75%	80%	80%
Gross Enrollment Rate (Govt. Schools)	45%	52%	52%
Net Enrollment Rate (Govt. Schools)	34%	35%	34%
Student to Teacher Ratio			
Student Teacher Ratio (Primary)	38	52	53
Student Teacher Ratio (Secondary)	10	14	15
Gender Parity Index			
Gender Parity Index (Primary)	0.57	0.58	0.58
Gender Parity Index (Secondary)	0.26	0.27	0.28

ANNUAL SCHOOL CENSUS ANALYSIS

INDICATORS

Survival Rate						
2023-24	Class 1-5			Class 6-10		
	Boys	Girls	Total	Boys	Girls	Total
Settled Districts	86%	69%	78%	63%	65%	63%
Merged Districts	58%	46%	53%	60%	64%	61%
Overall	72%	58%	66%	62%	65%	62%

ANNUAL SCHOOL CENSUS ANALYSIS

INDICATORS (Efficiency by Student Flow Analysis (Class Prep to 10))

Settled Districts	2023-24	2022-23
Promotion Rate (p)	87.60%	88.83%
Repetition Rate (r)	3.38%	2.74%
Drop Out Rate (d)	9.03%	8.43%

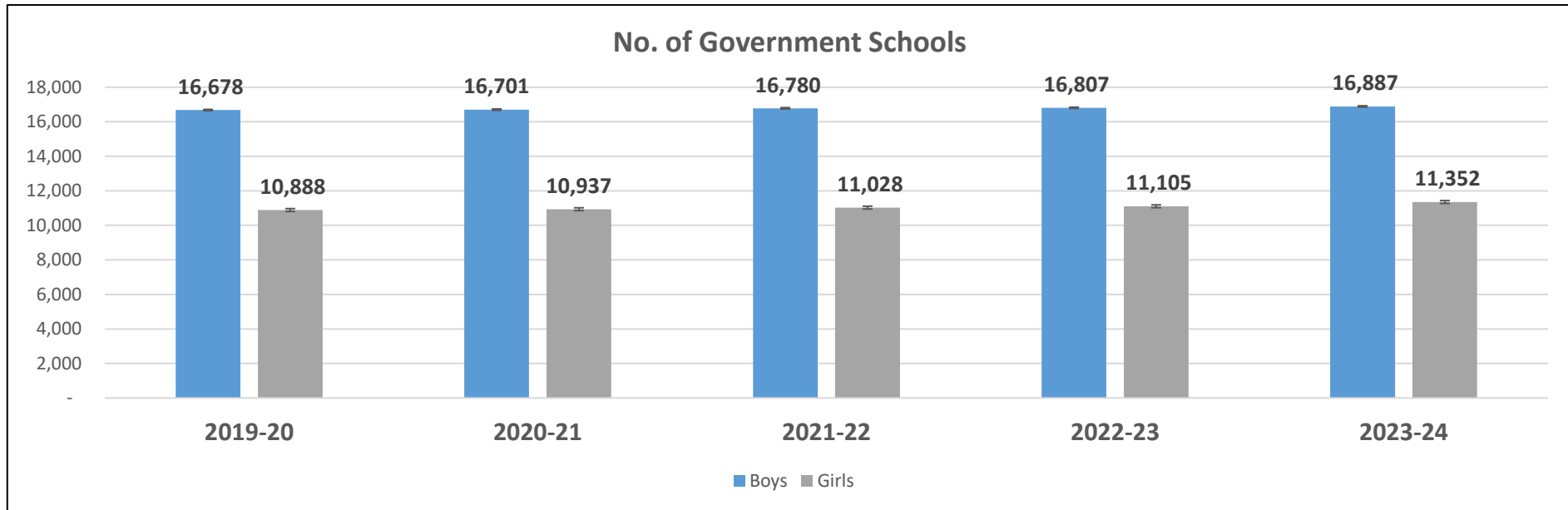
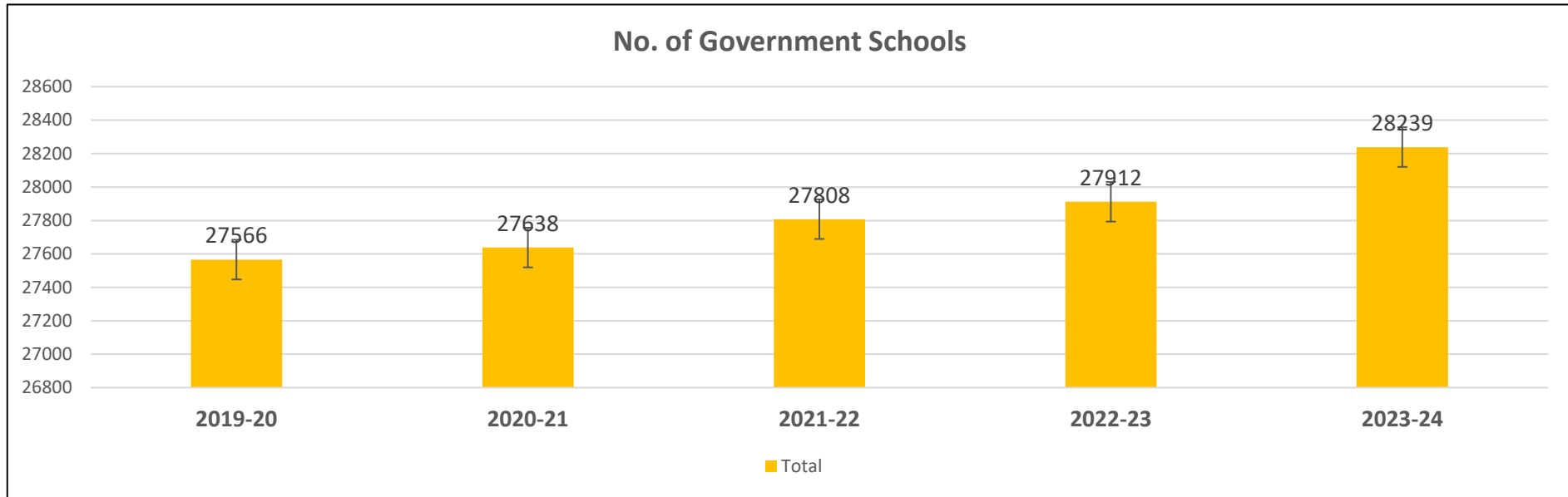
Merged Districts	2023-24	2022-23
Promotion Rate (p)	83.28%	84.94%
Repetition Rate (r)	1.41%	1.27%
Drop Out Rate (d)	15.31%	13.79%

ANNUAL SCHOOL CENSUS ANALYSIS

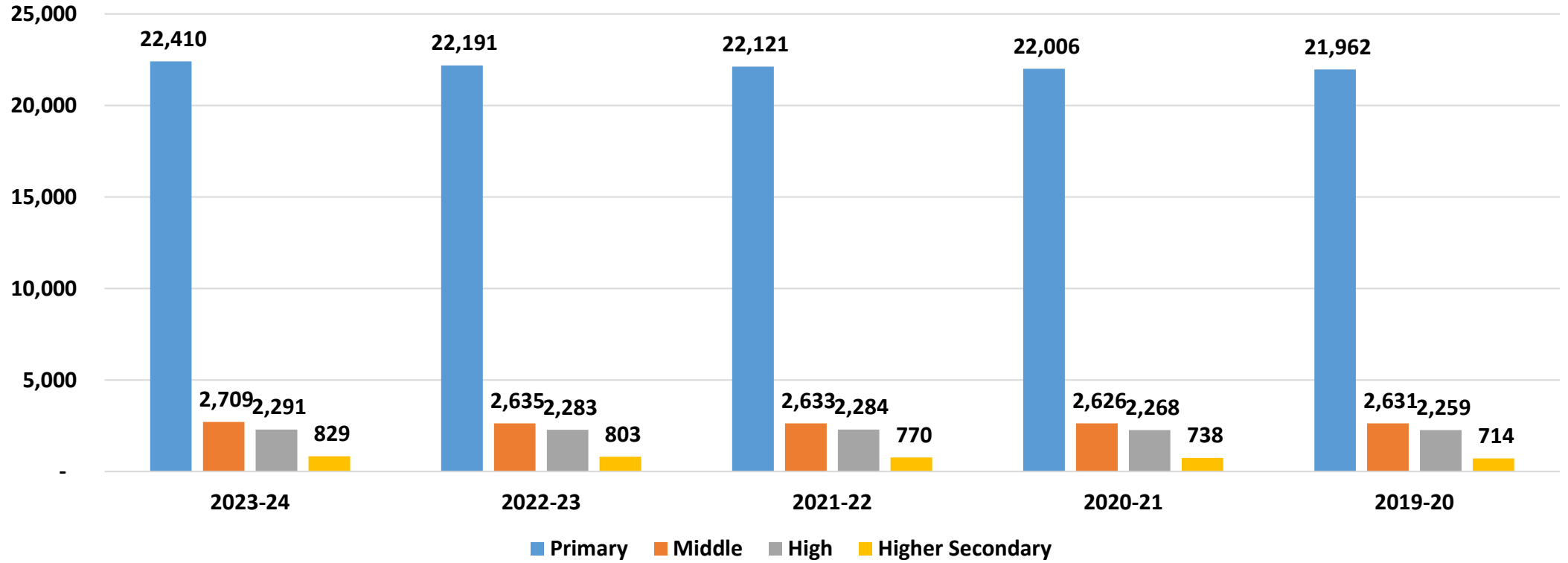
INDICATORS (Efficiency by Student Flow Analysis)

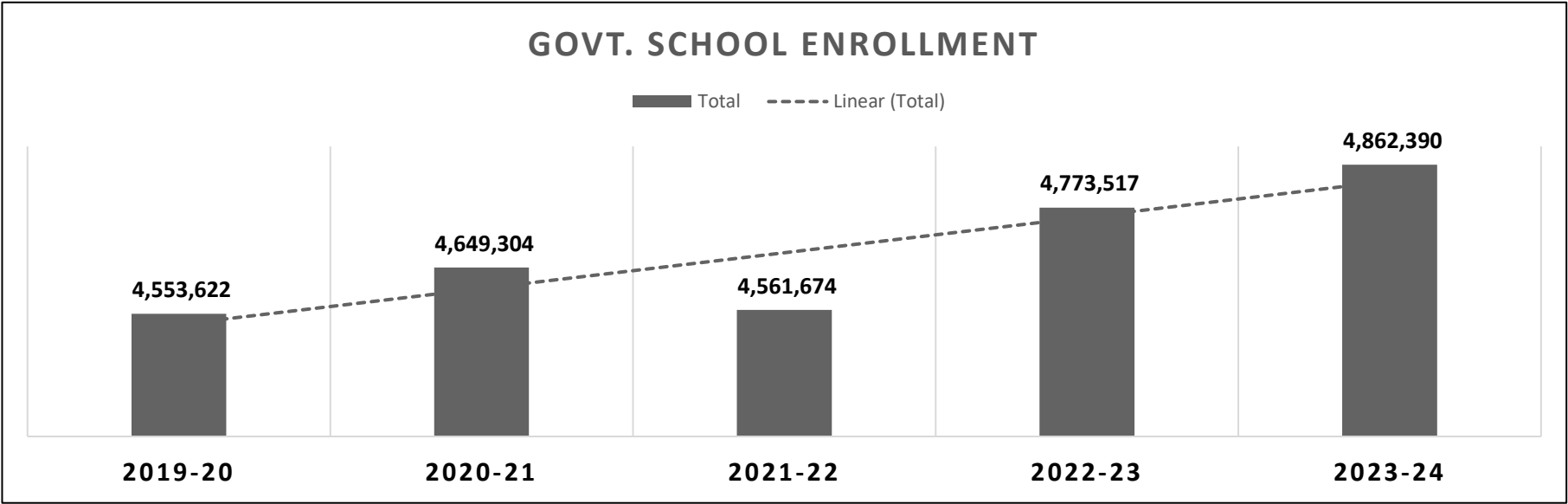
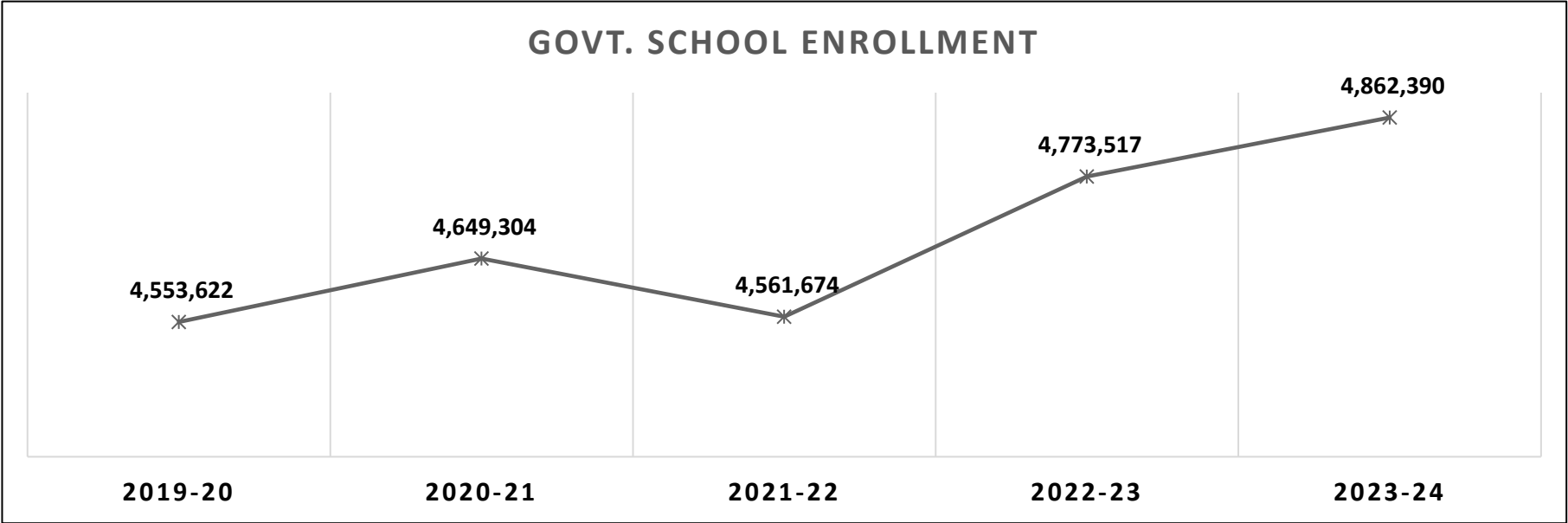
Promotion Rate (p)	Settled + Merged Districts									
	Prep	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9
2023-24	75.74%	87.75%	90.39%	88.95%	87.15%	82.23%	86.47%	87.62%	79.54%	88.56%
2022-23	82.97%	88.90%	89.57%	89.45%	86.72%	84.10%	88.61%	88.01%	84.82%	85.69%
Repetition Rate (r)	Settled + Merged Districts									
	Prep	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9
2023-24	4.93%	2.23%	2.08%	2.08%	2.07%	2.78%	3.55%	2.21%	1.81%	0.21%
2022-23	4.77%	1.90%	1.80%	1.71%	1.58%	2.05%	2.68%	1.72%	1.20%	0.66%
Drop Out Rate (d)	Settled + Merged Districts									
	Prep	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9
2023-24	19.34%	10.03%	7.54%	8.98%	10.79%	15.00%	9.99%	10.17%	18.66%	11.23%
2022-23	12.26%	9.20%	8.63%	8.83%	11.71%	13.84%	8.70%	10.28%	13.99%	13.65%

SETTLED DISTRICT ANALYSIS OF
ANNUAL SCHOOL CENSUS



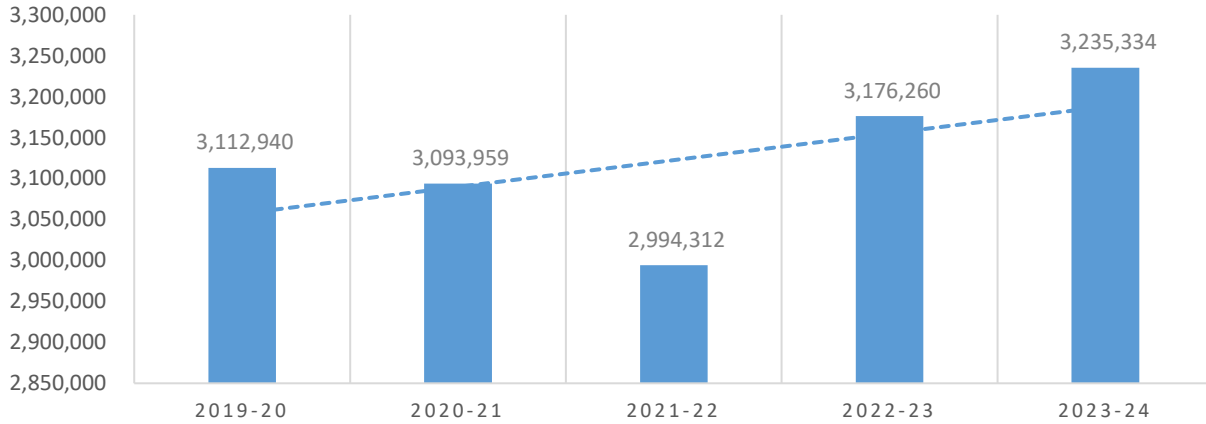
Govt. Schools by Level





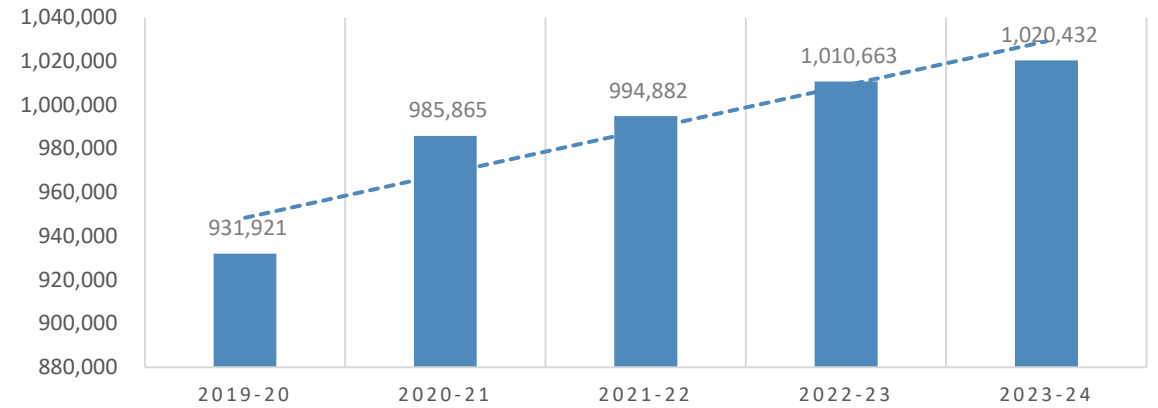
GOVT. SCHOOL ENROLLMENT

■ Prep to Class 5 - - - Linear (Prep to Class 5)



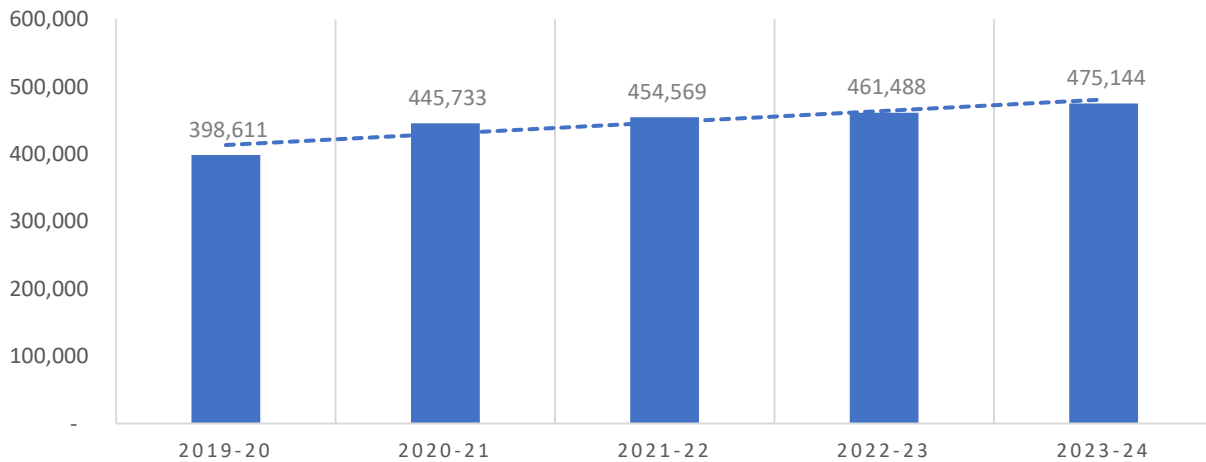
GOVT. SCHOOL ENROLLMENT

■ Class 6 to Class 8 - - - Linear (Class 6 to Class 8)



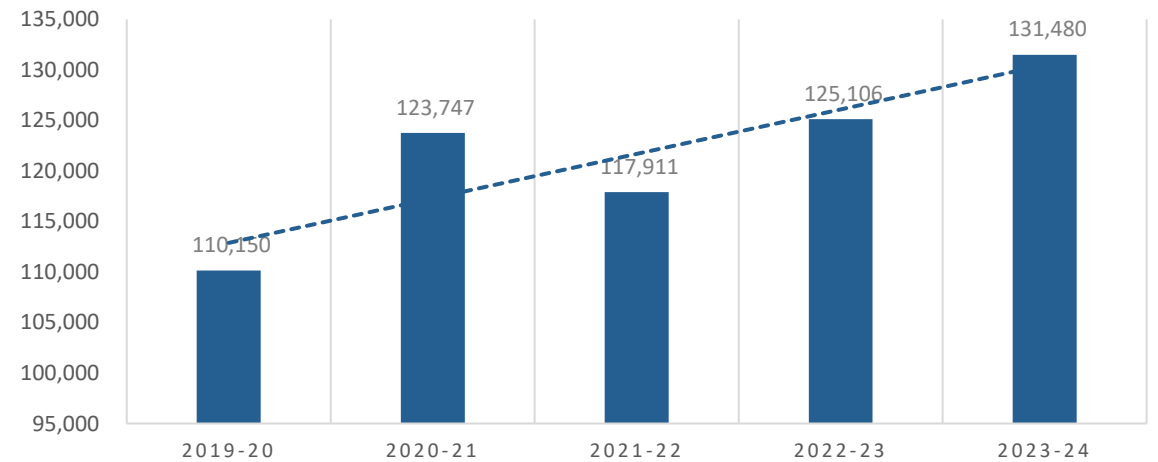
GOVT. SCHOOL ENROLLMENT

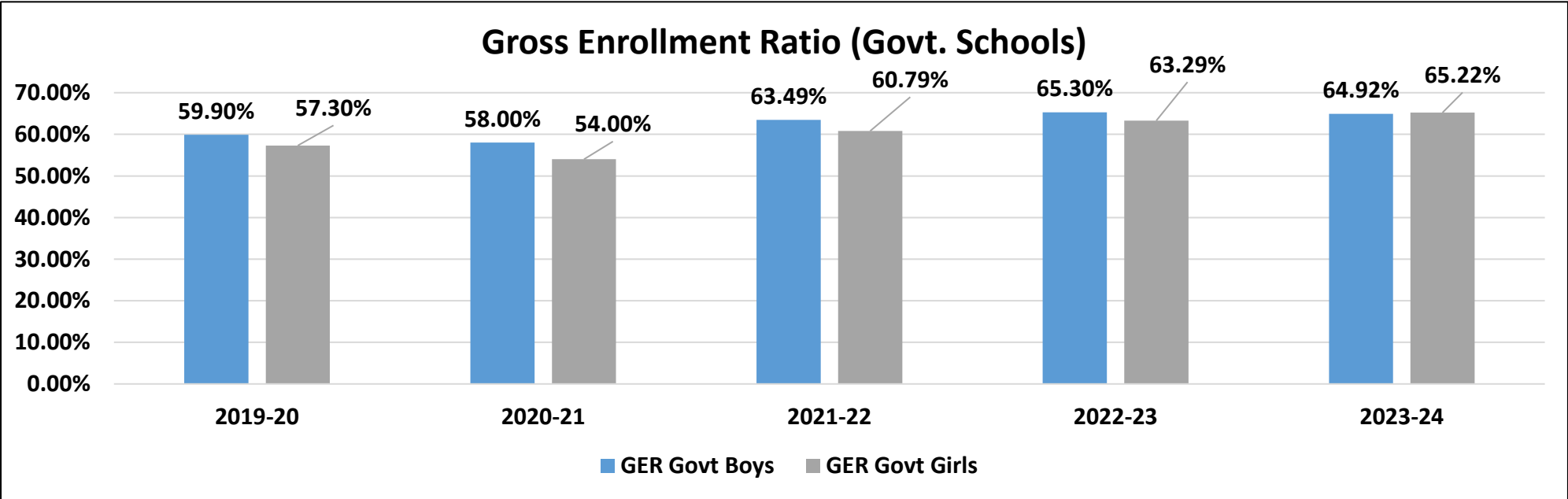
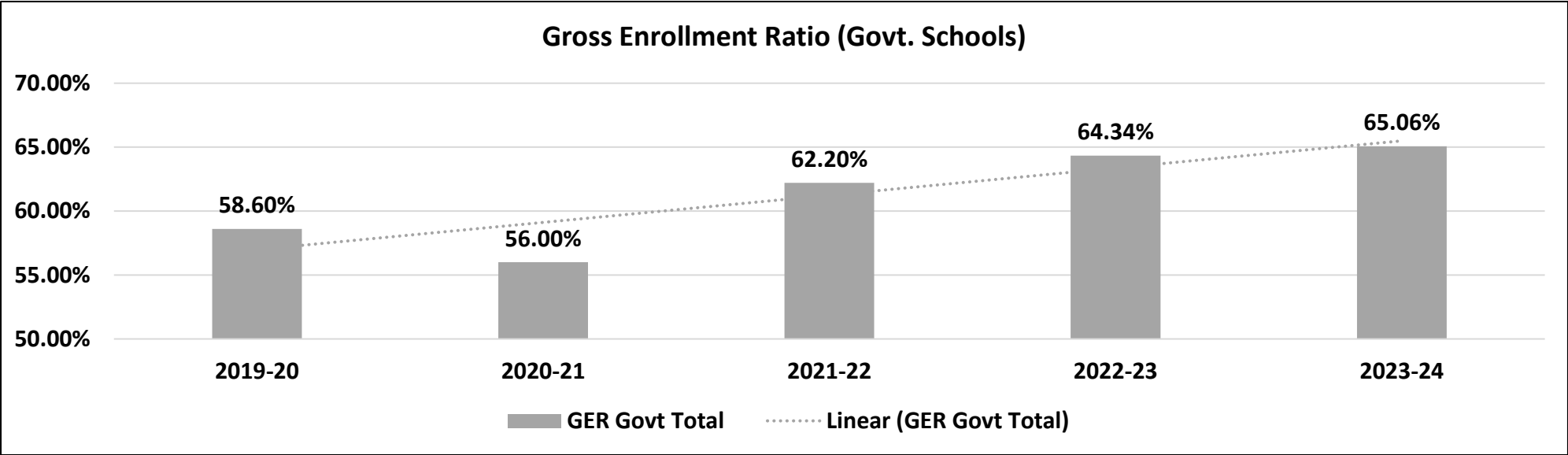
■ Class 9 to Class 10 - - - Linear (Class 9 to Class 10)

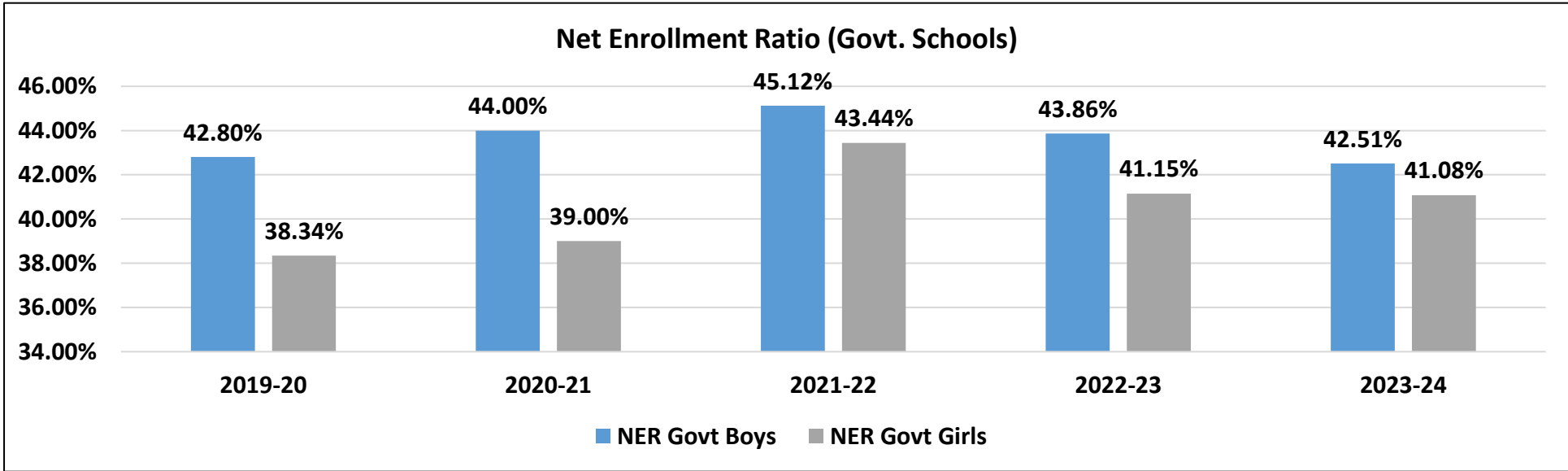
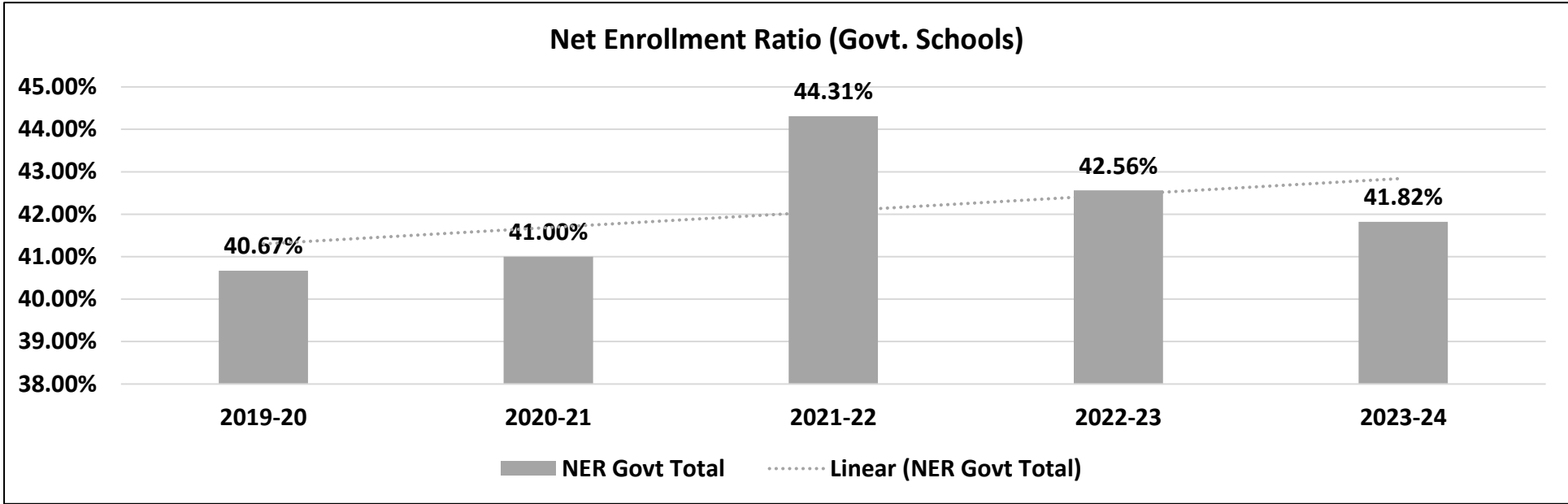


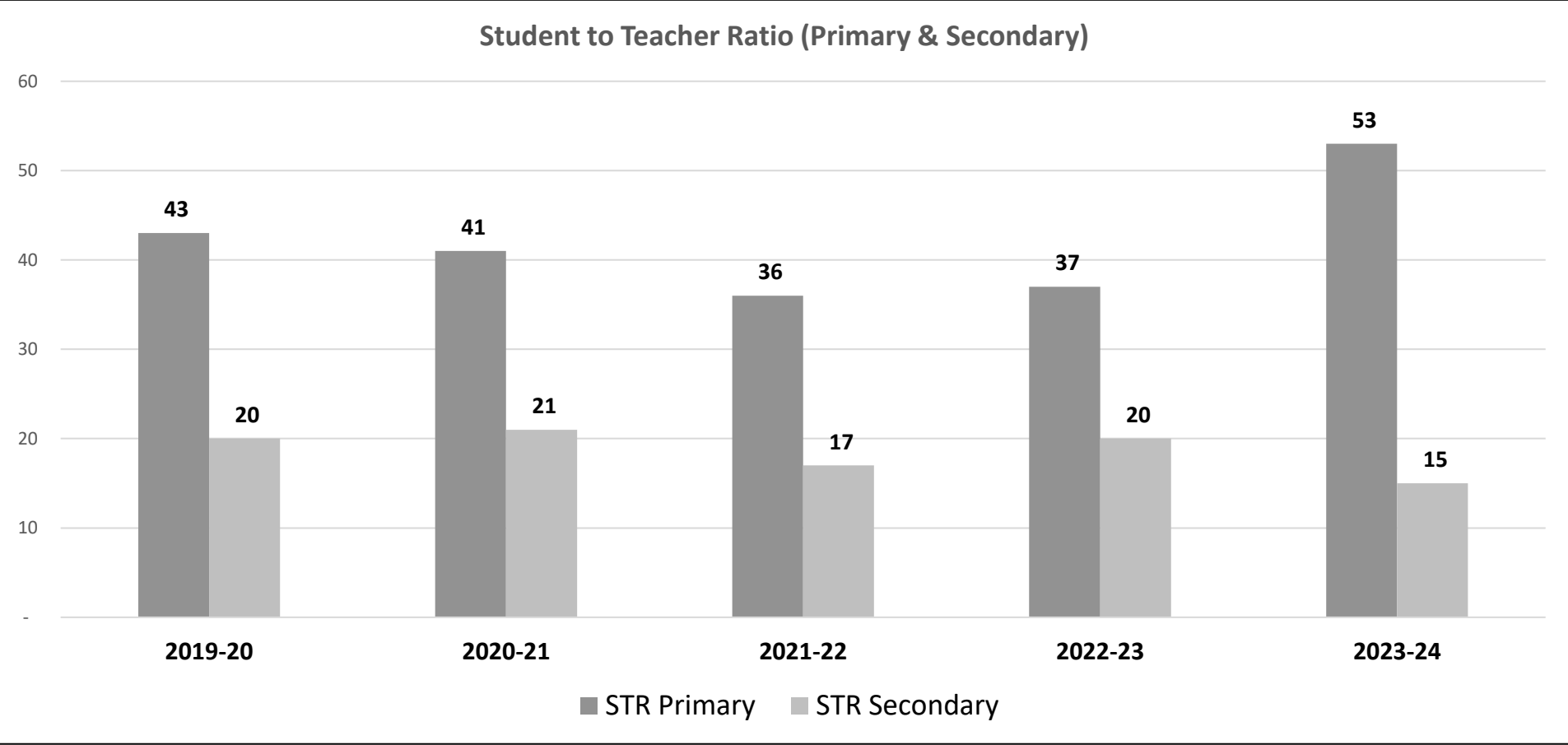
GOVT. SCHOOL ENROLLMENT

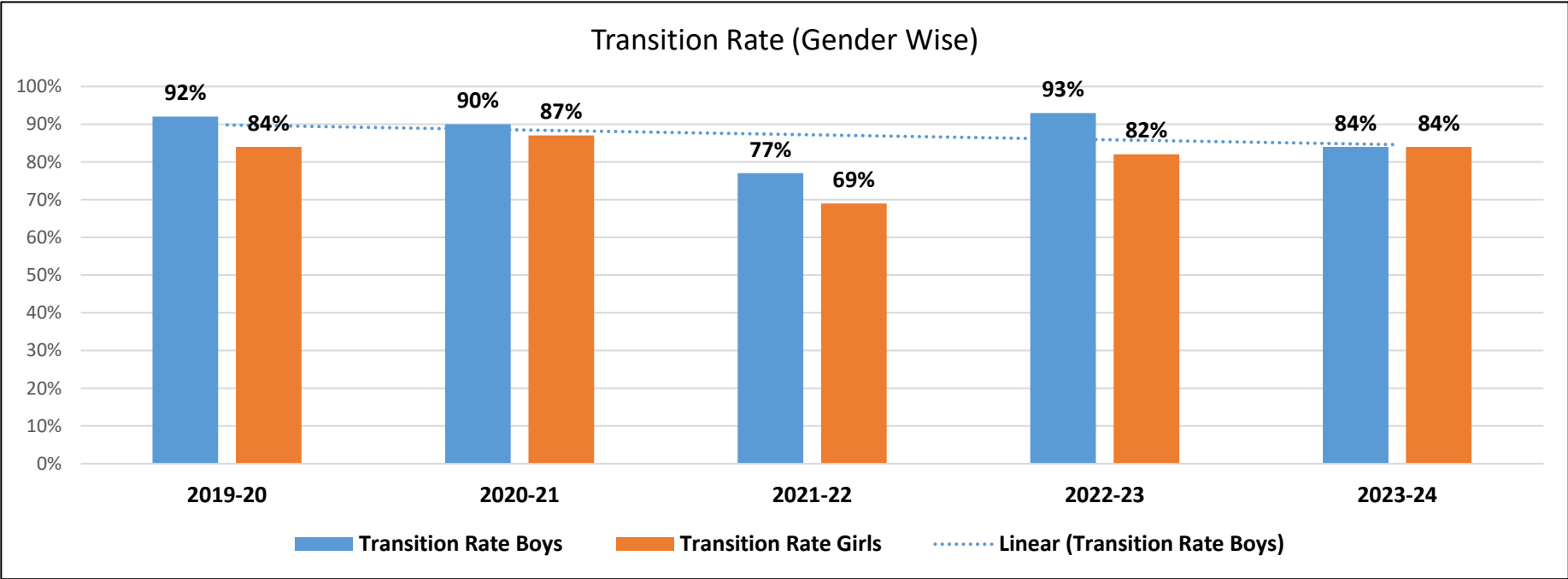
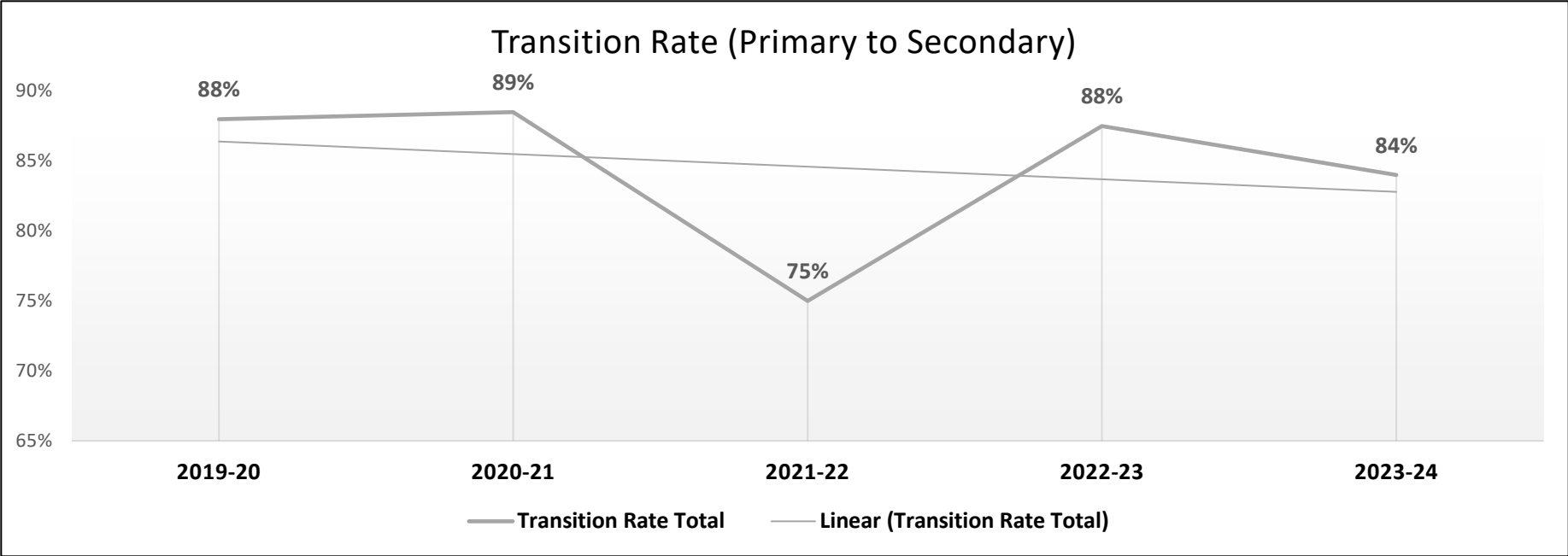
■ Class 11 to Class 12 - - - Linear (Class 11 to Class 12)

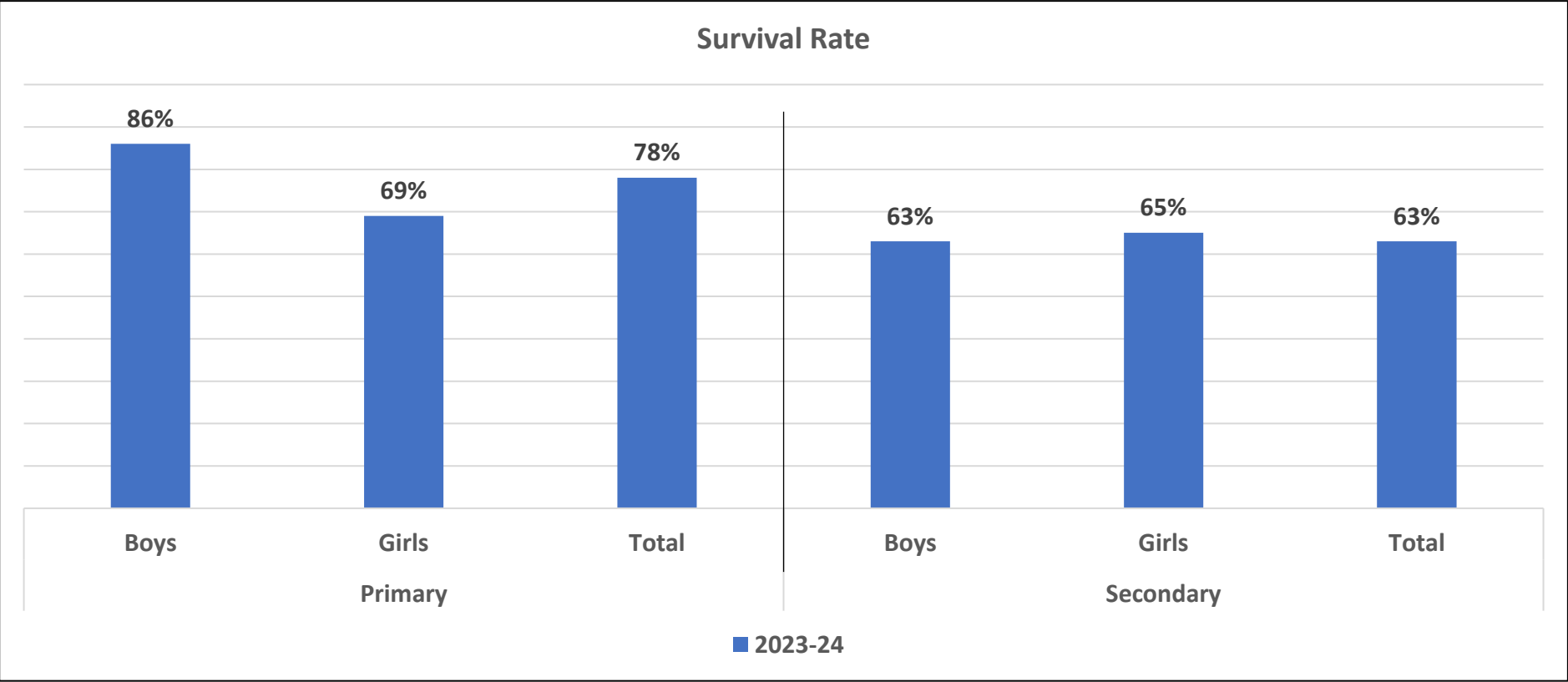


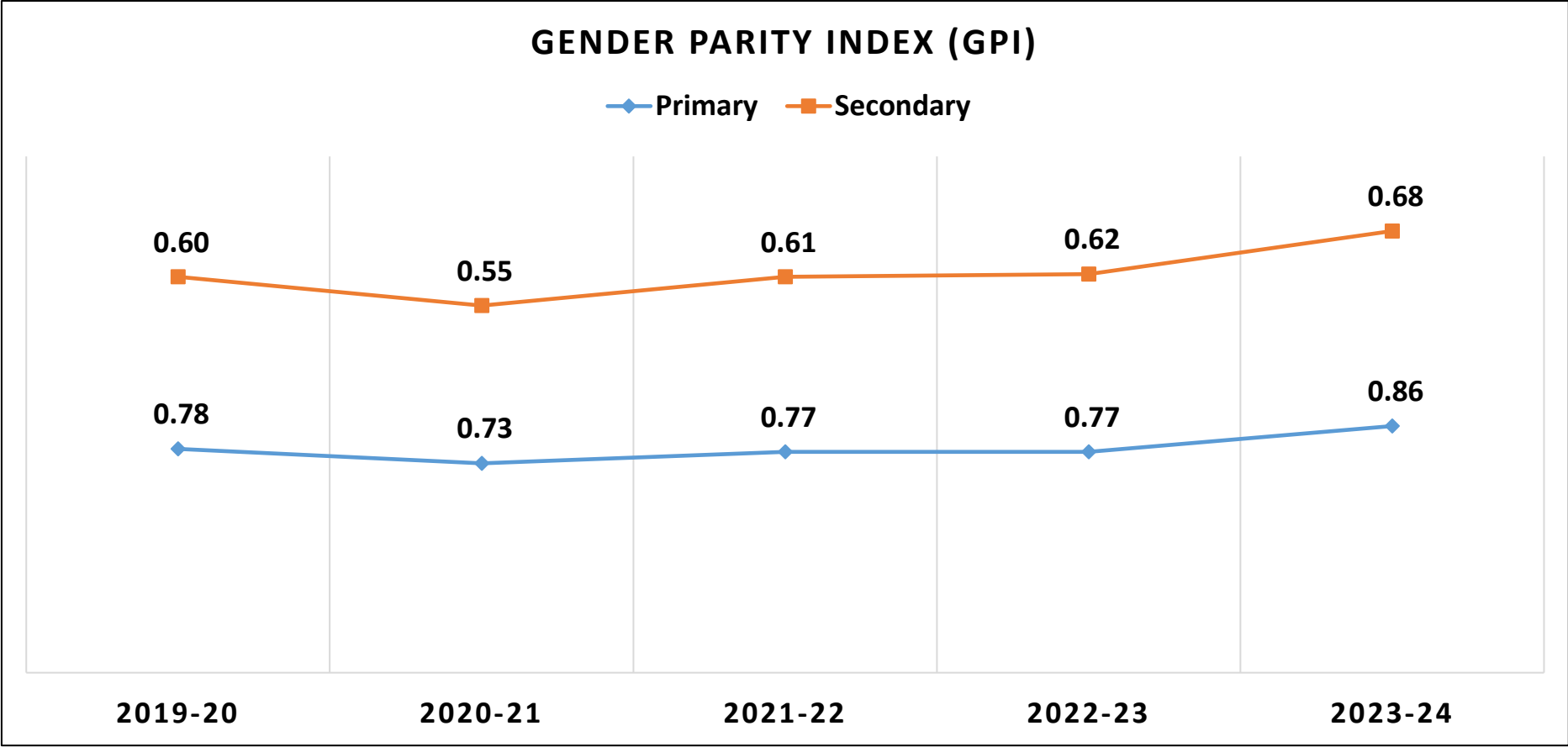


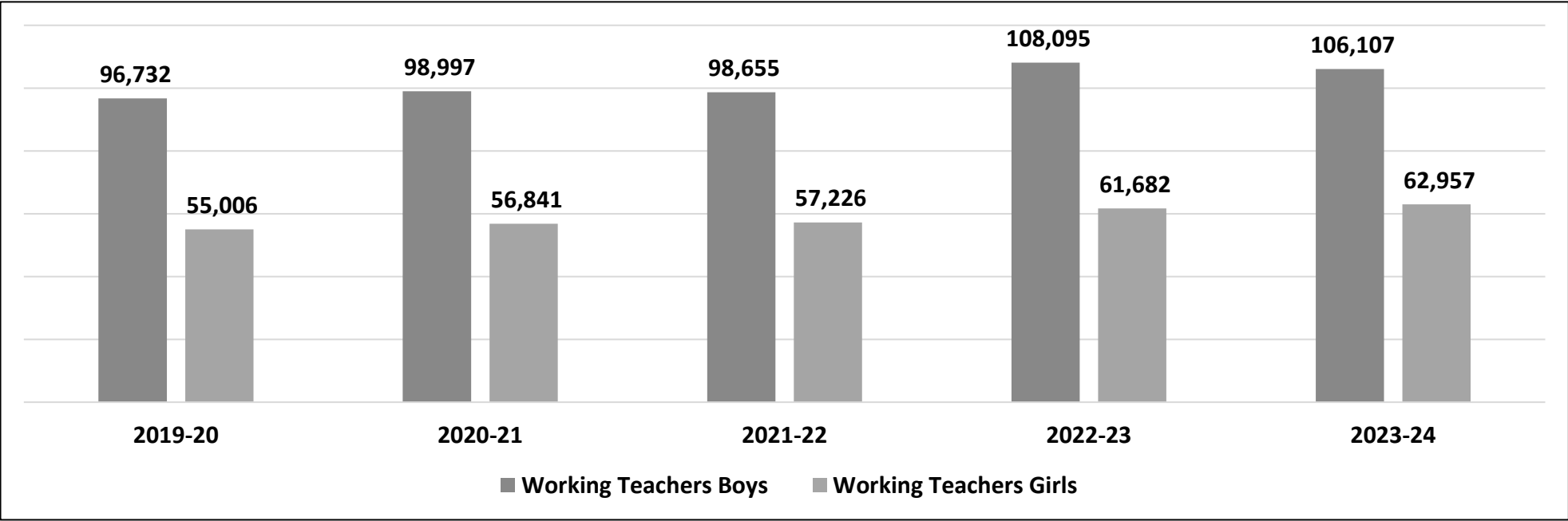
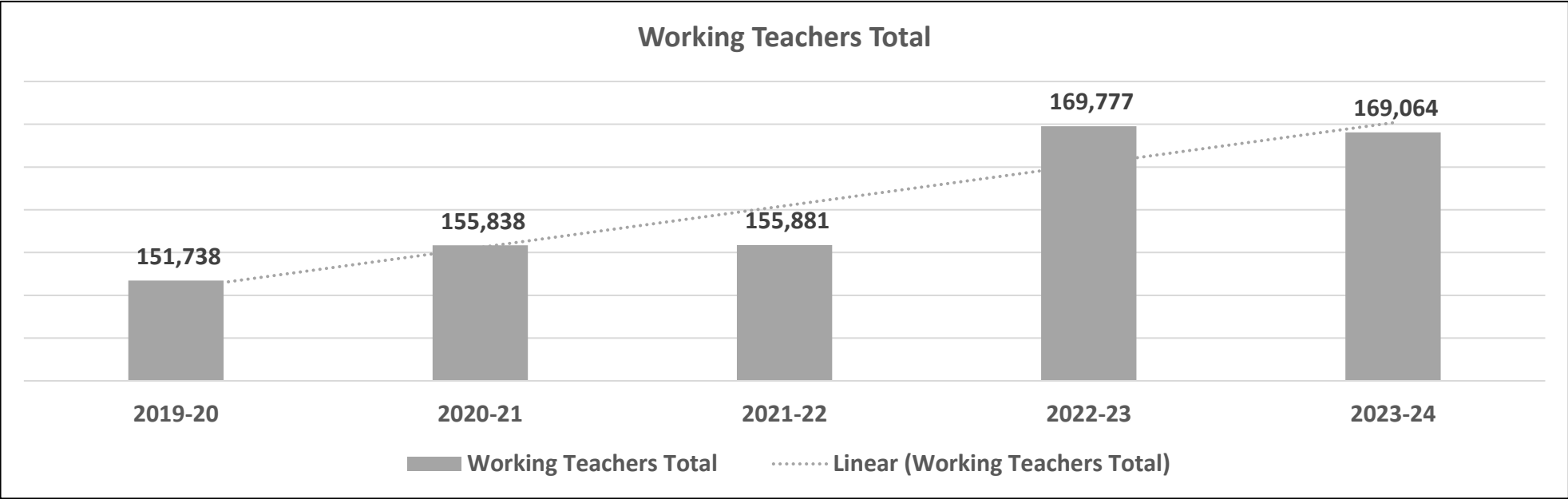




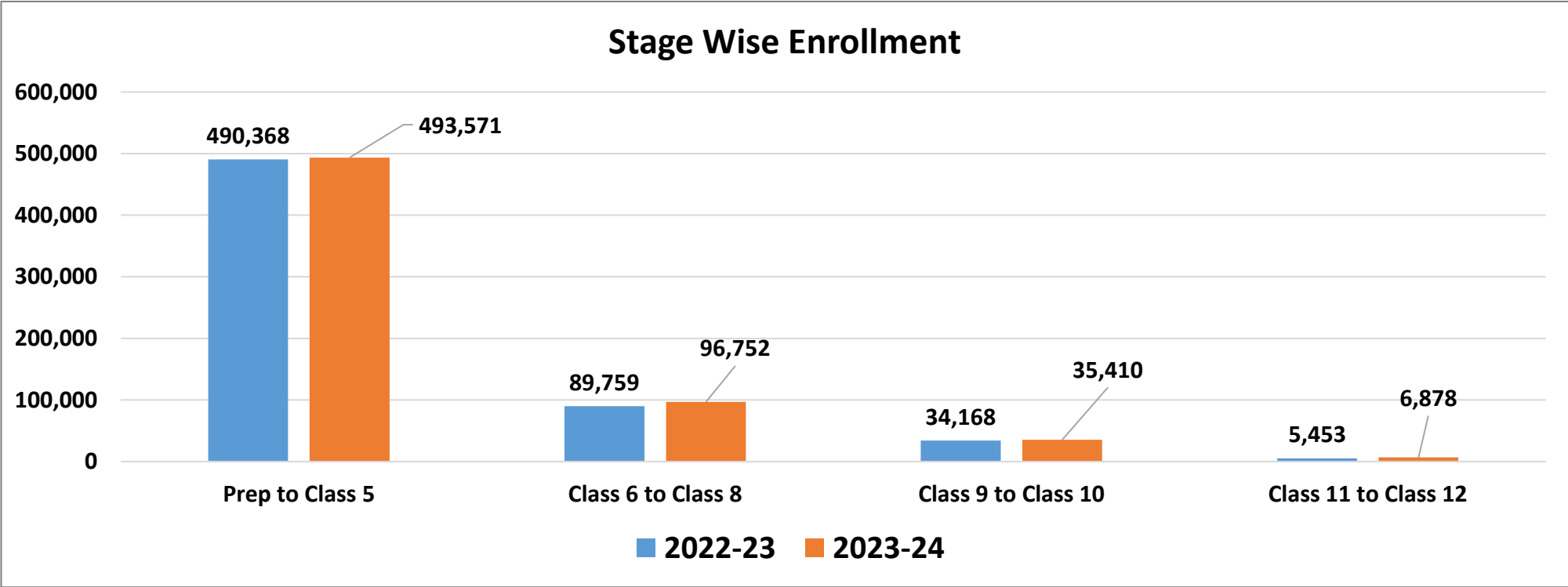
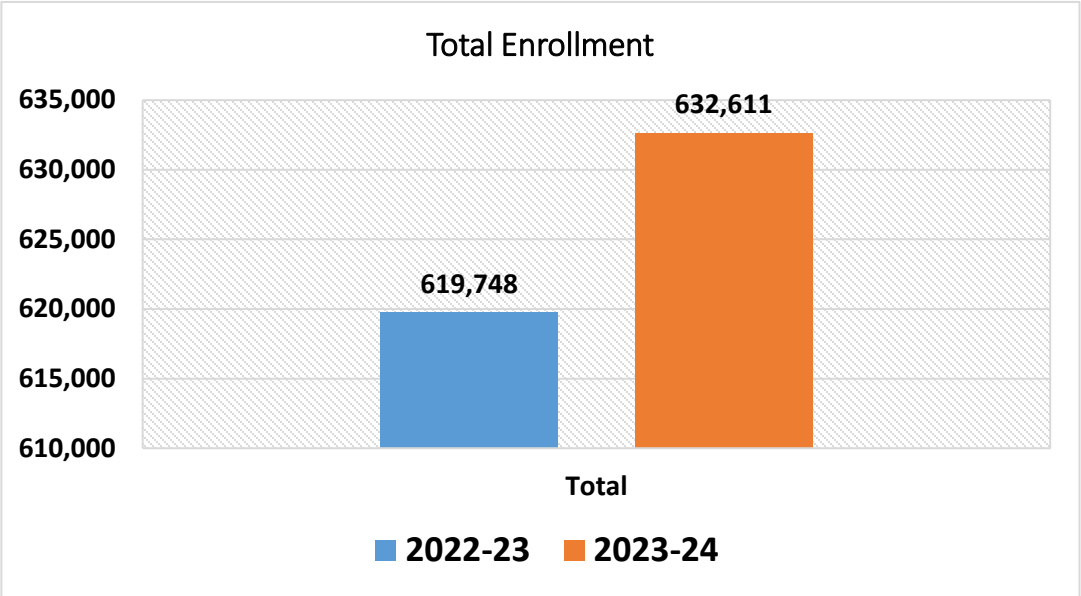


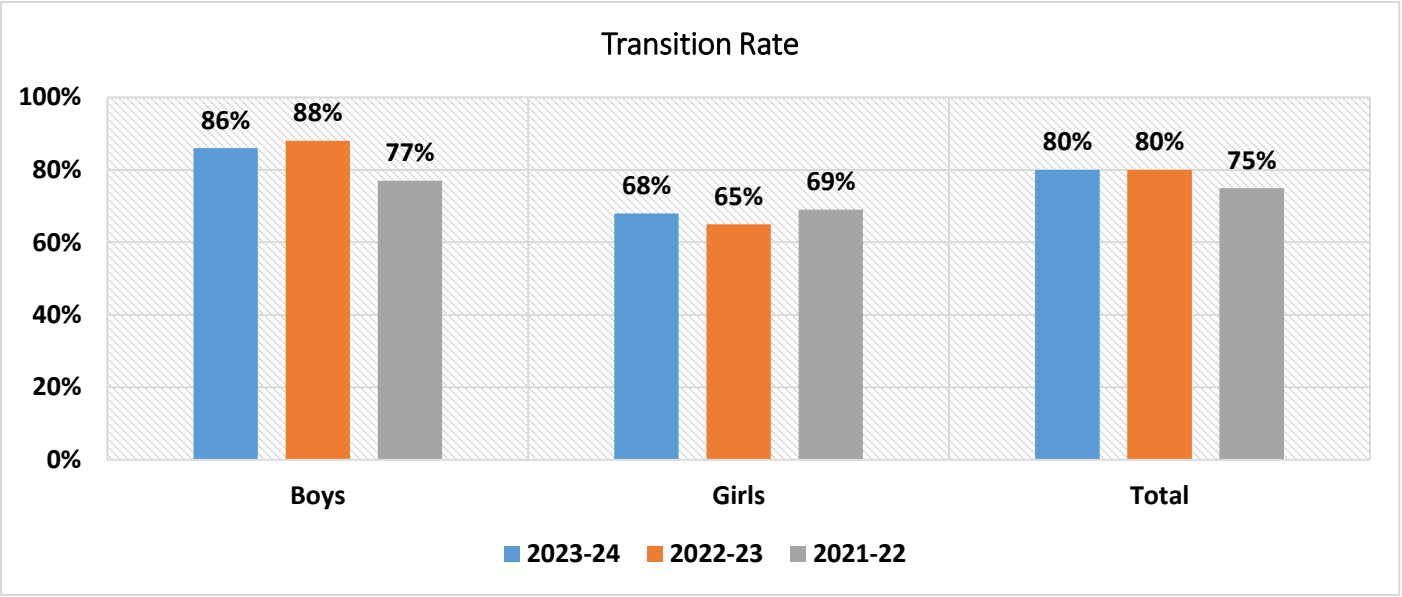
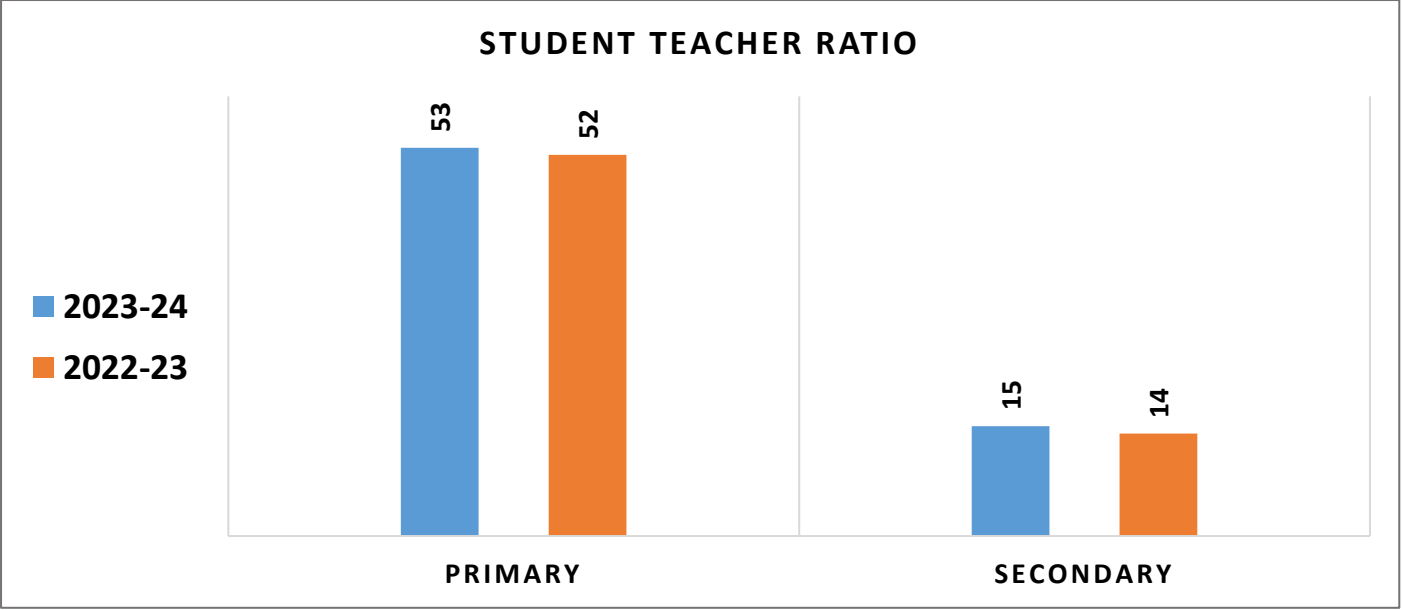


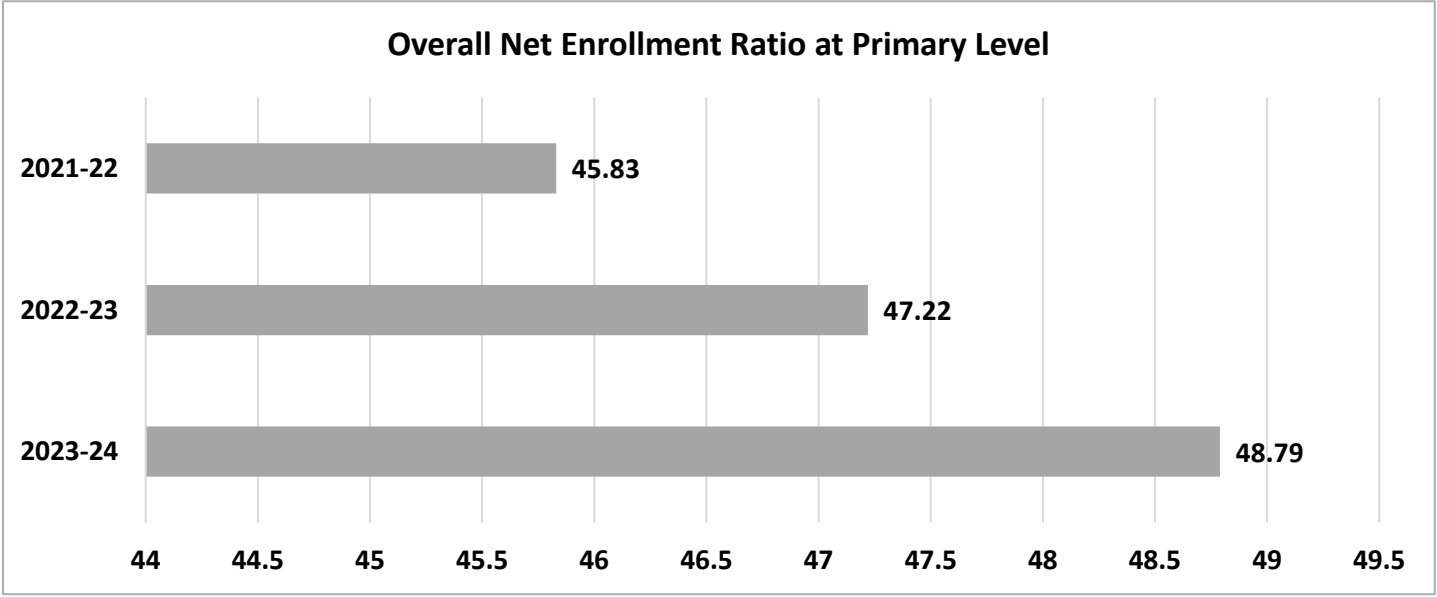
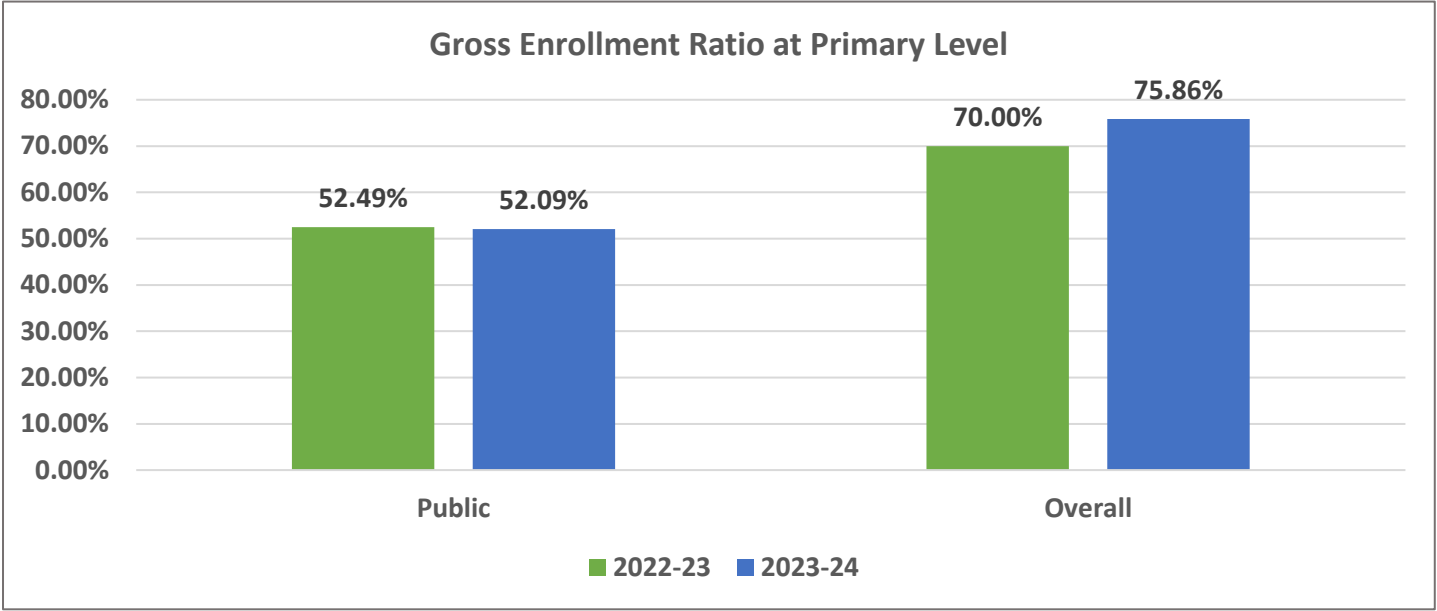


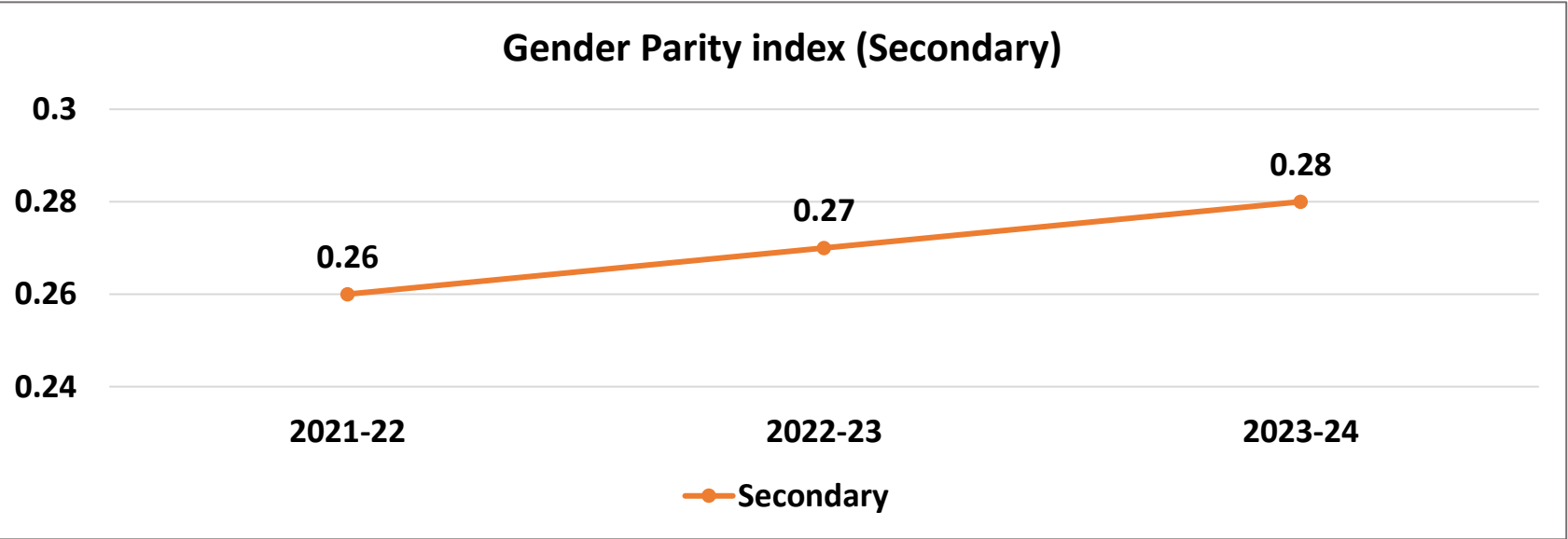
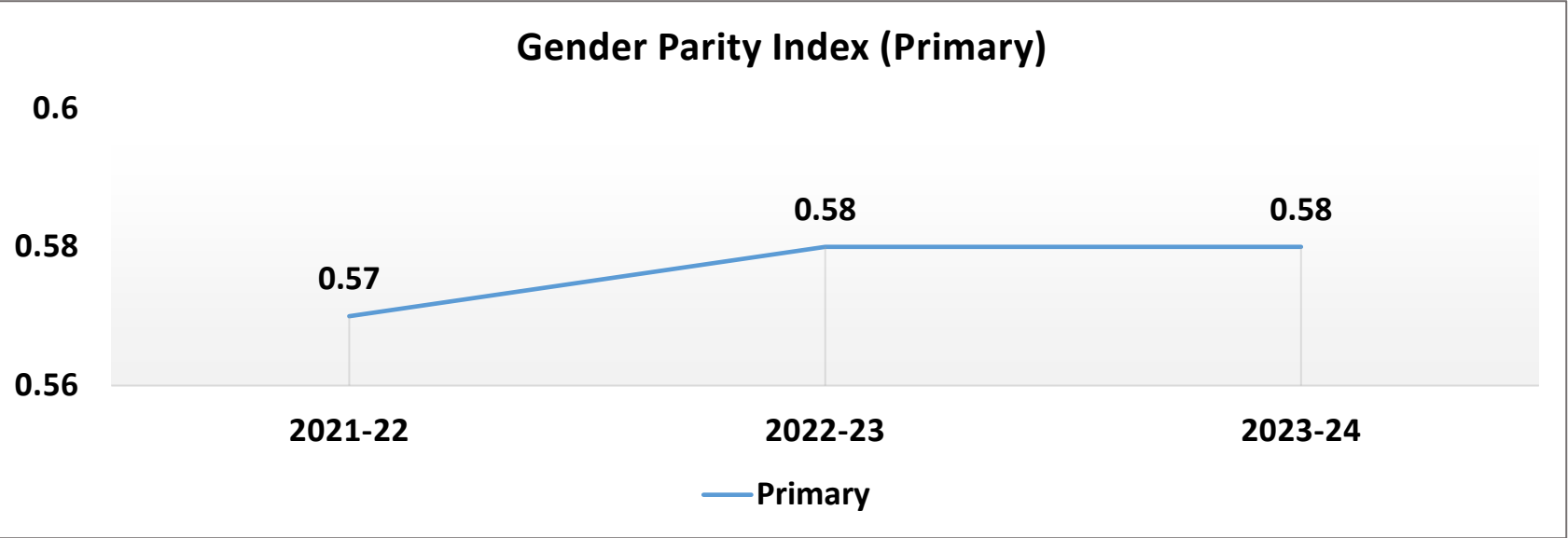


MERGED DISTRICT ANALYSIS OF ANNUAL SCHOOL CENSUS

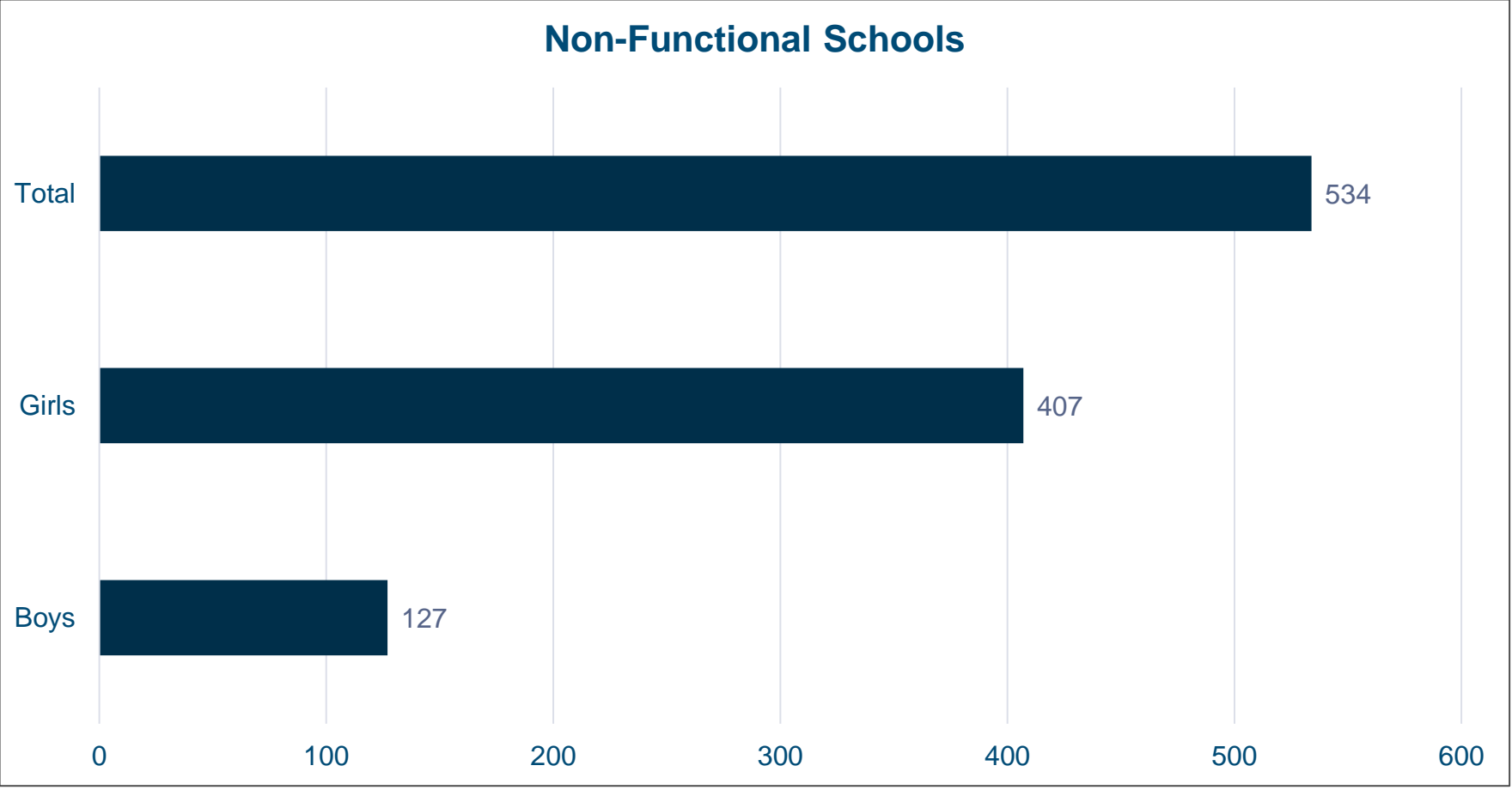


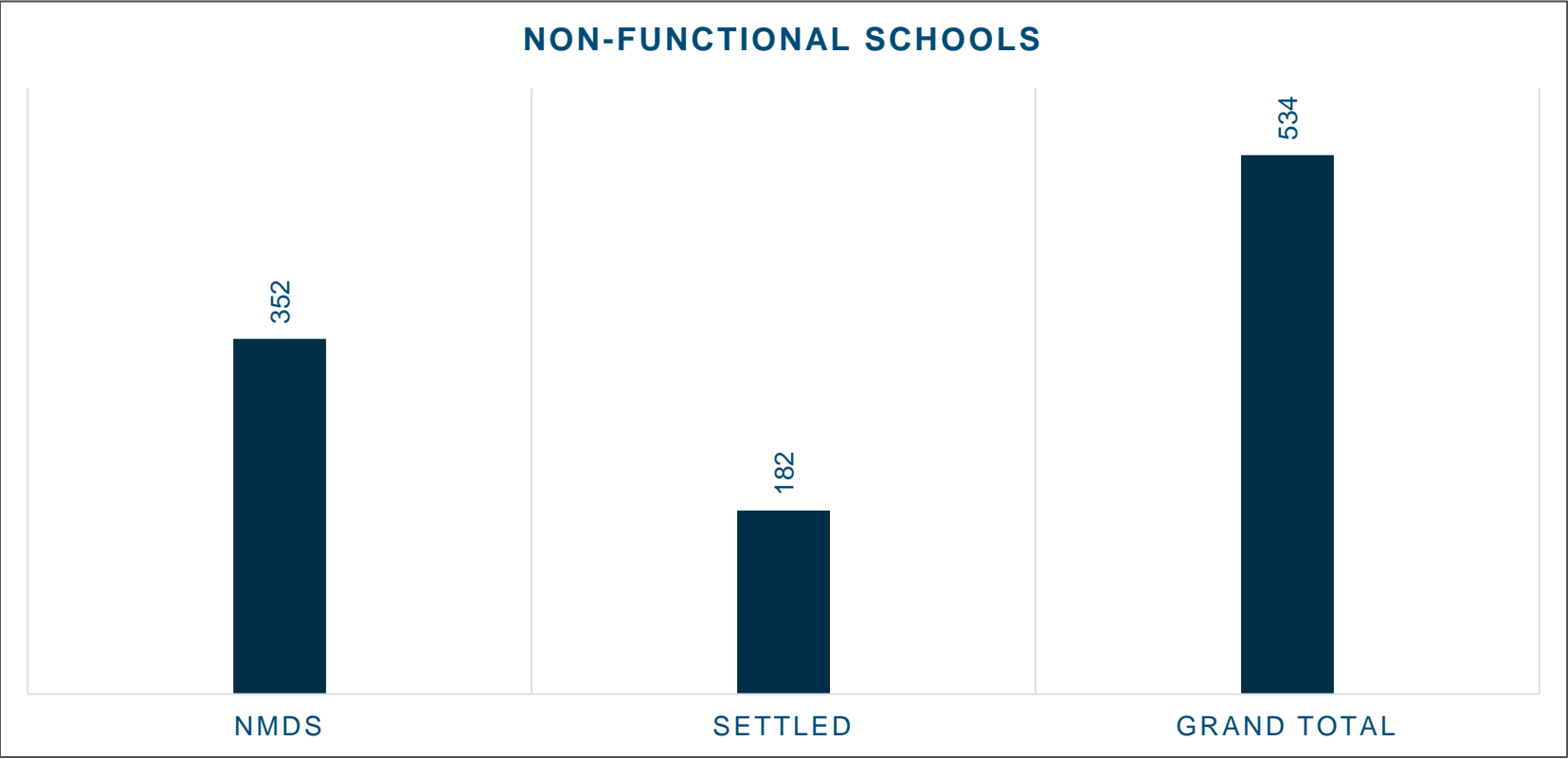




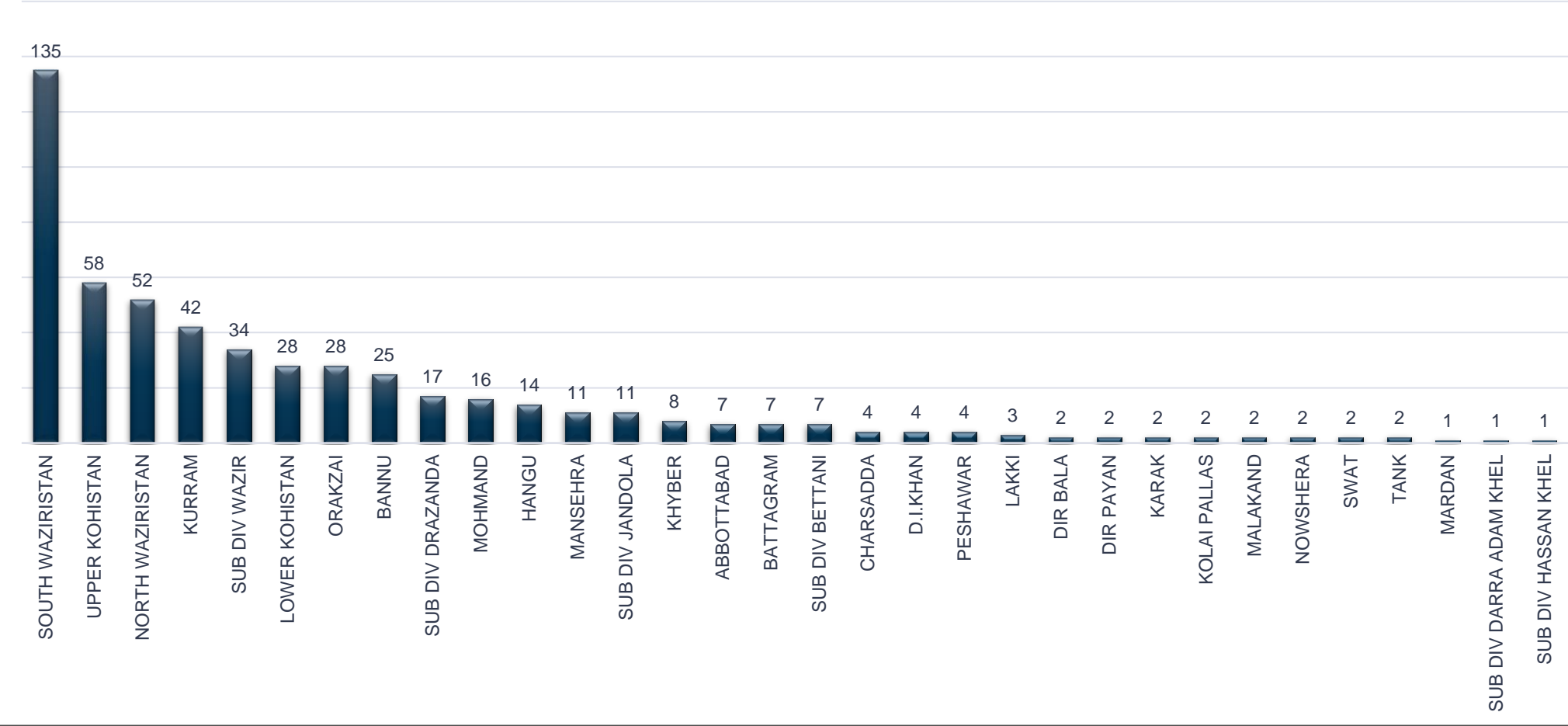


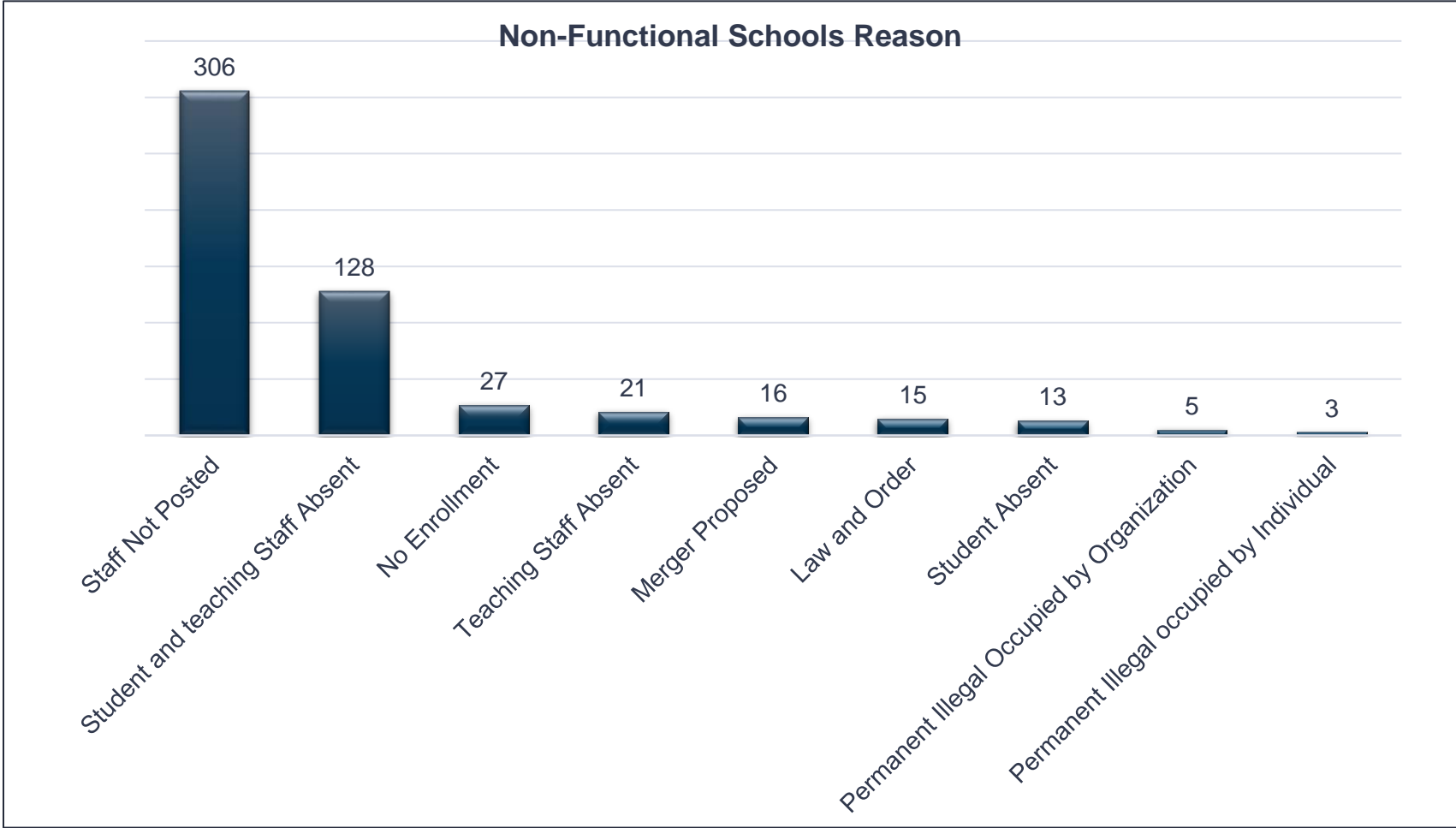
NON-FUNCTIONAL SCHOOLS





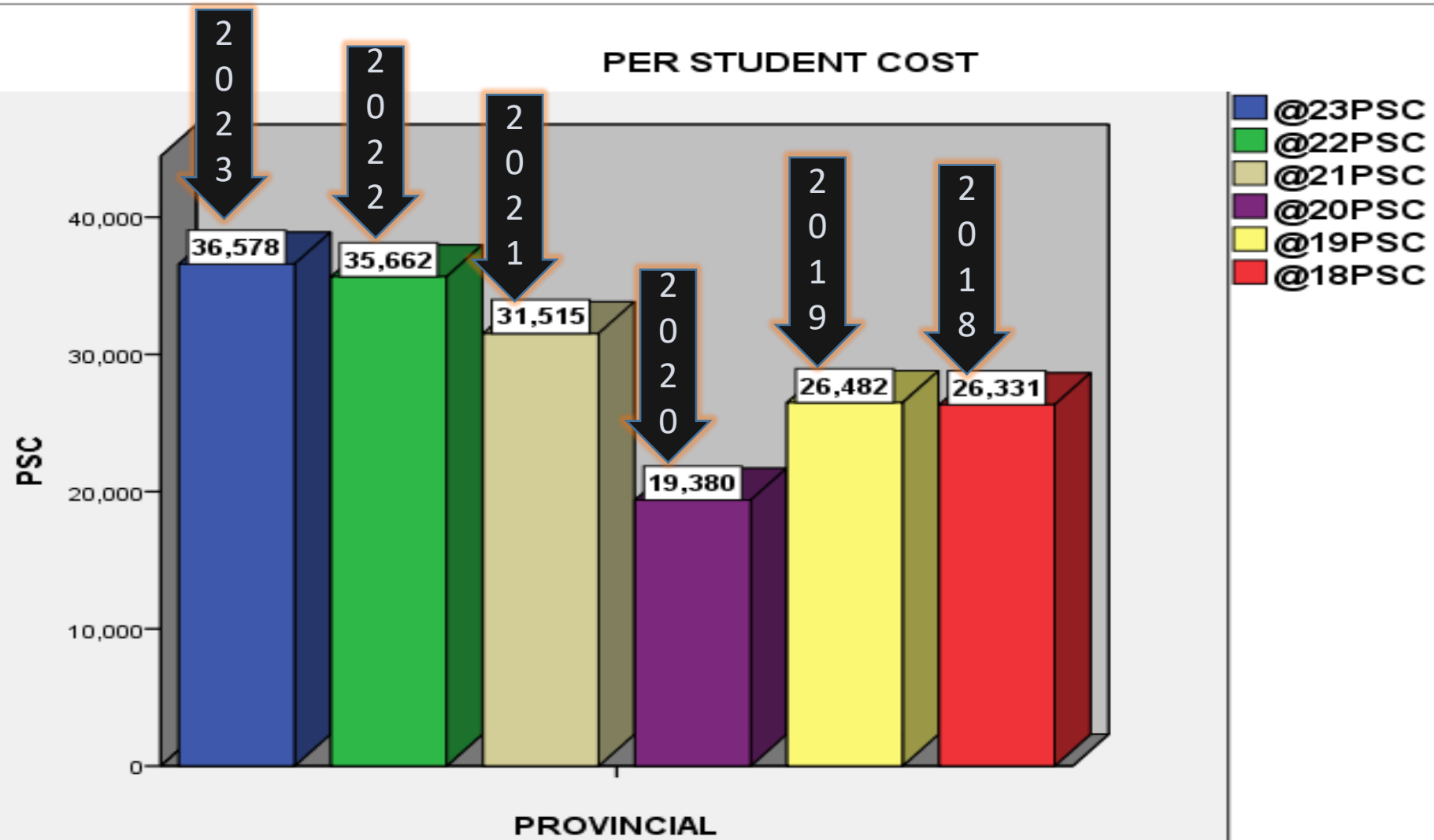
Non-Functional Schools

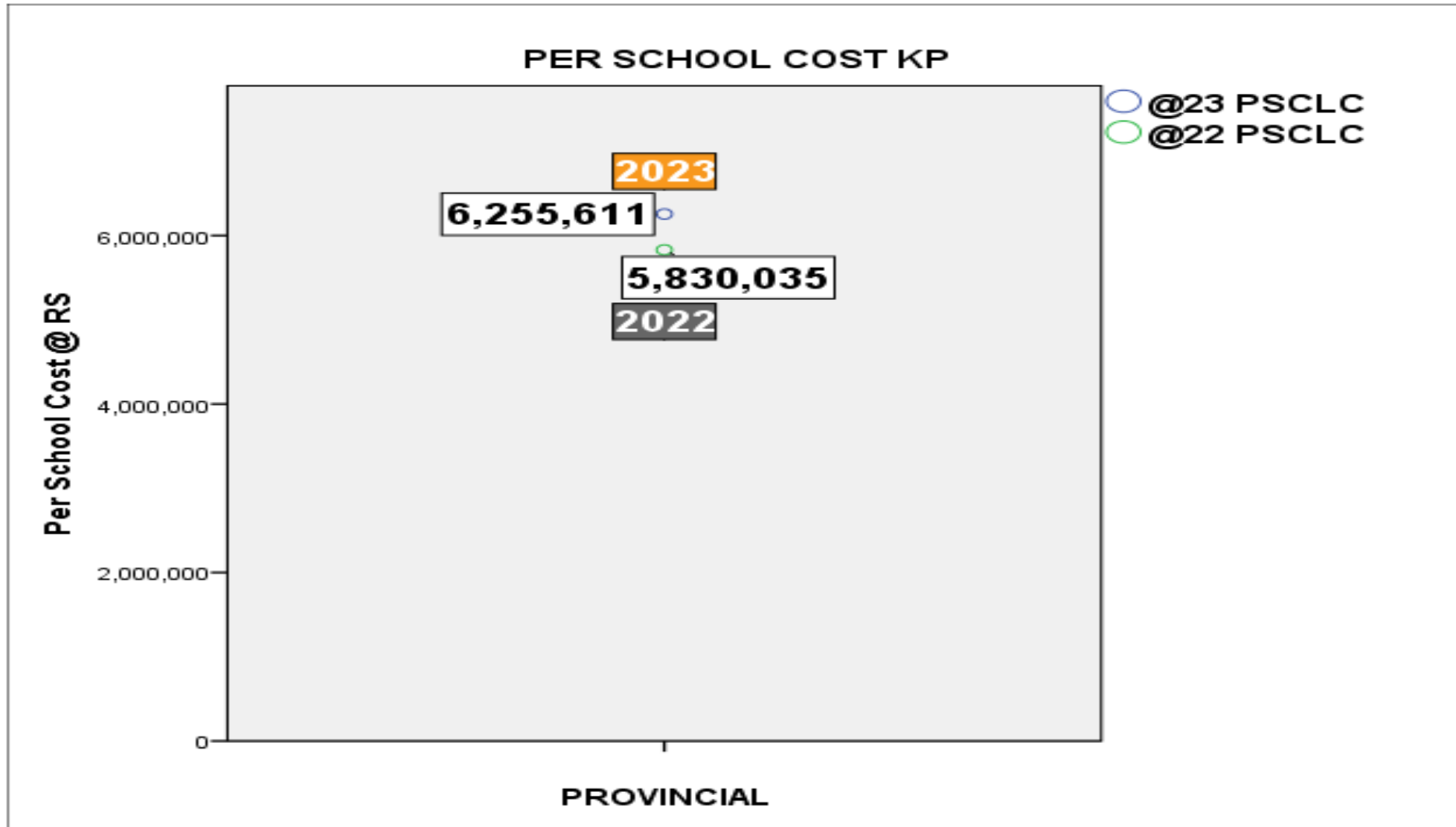




FINANCIAL ANALYSIS

PER STUDENT COST 2018-2023

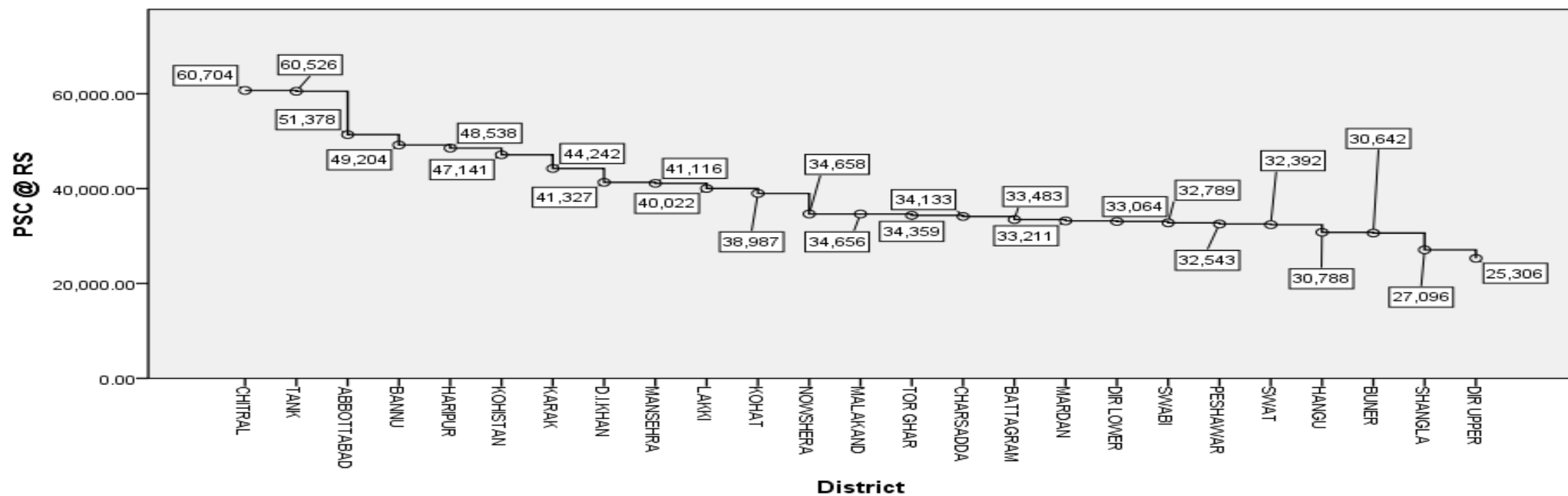




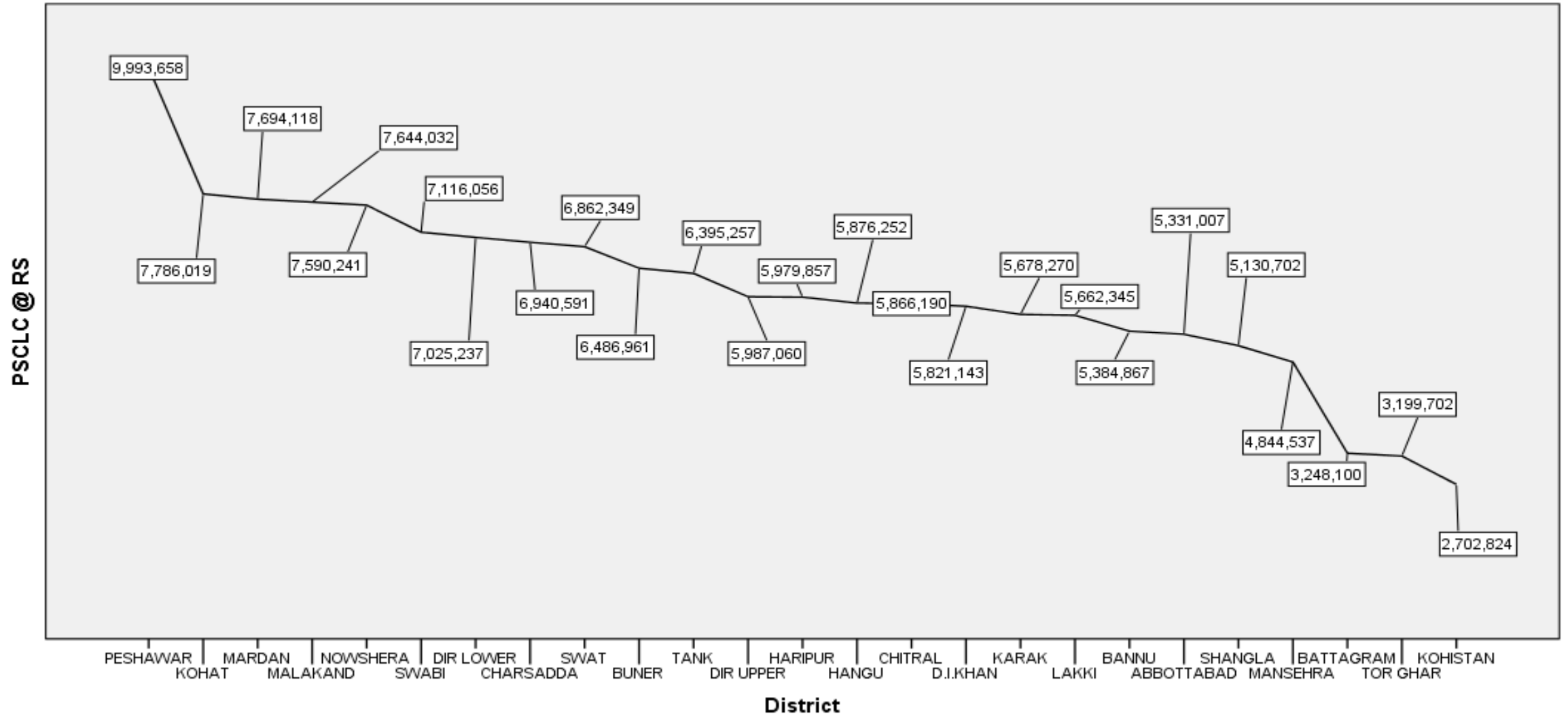
Total No of Schools 27,908

Source: Finance Department & Education Monitoring Authority Khyber Pakhtunkhwa.

PER STUDENT COST 2023

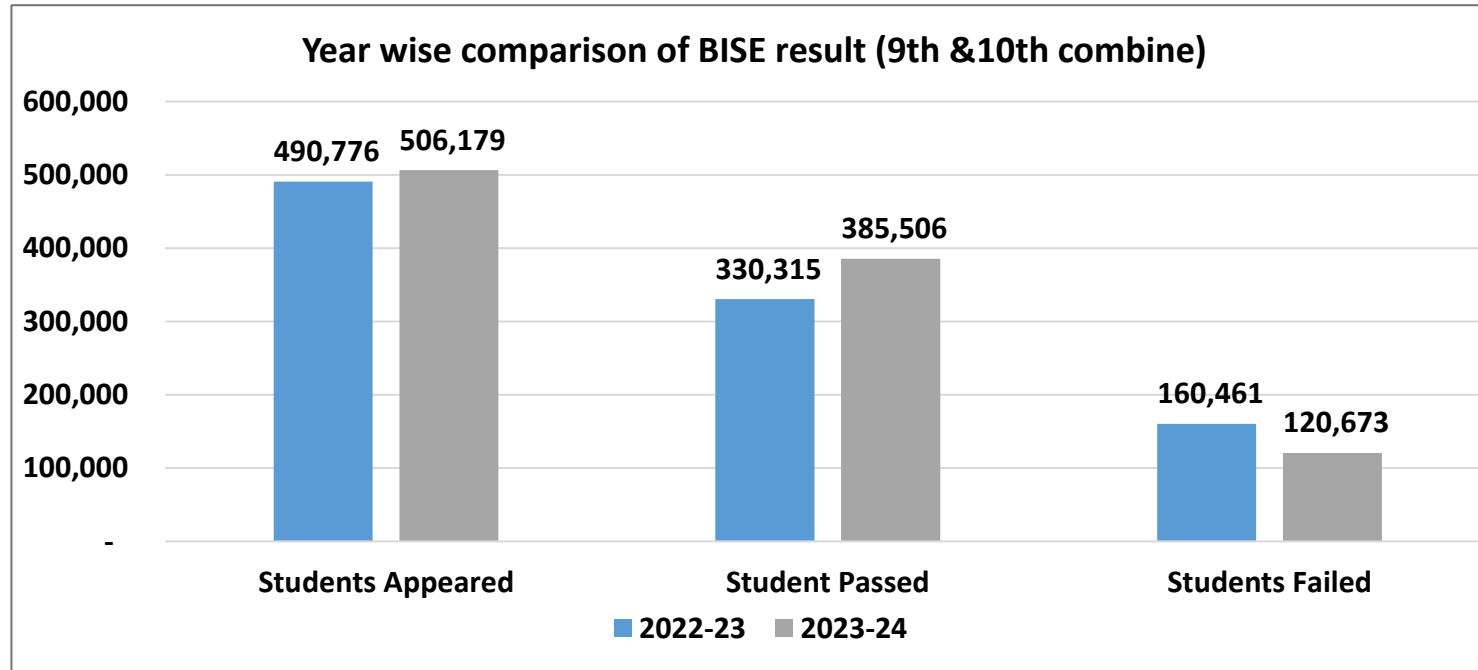


PER SCHOOL COST 2023

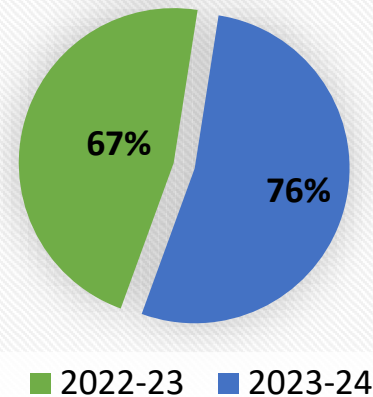


BISE Result Analysis 2022-23 & 2023-24:

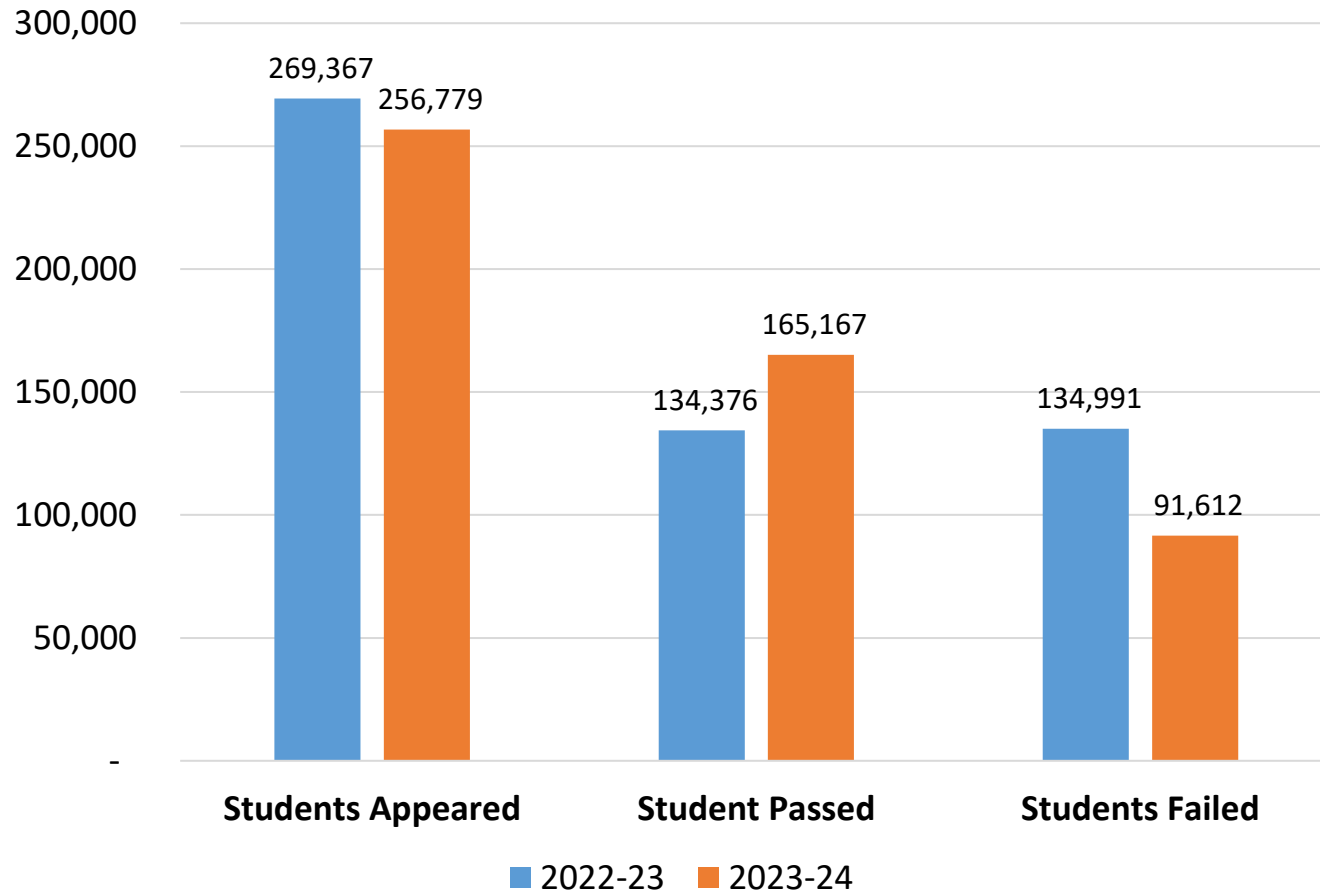
- KPEMA conducted a first-of-its-kind analysis of BISE results for 2022-23 and 2023-24
- Obtained SSC-1 examination data from all BISEs in Khyber Pakhtunkhwa
- Conducted an in-depth analysis of overall and subject-wise performance
- Teachers from schools with zero percent pass rates faced disciplinary action
- The analysis provided valuable insights into student performance trends and weaknesses



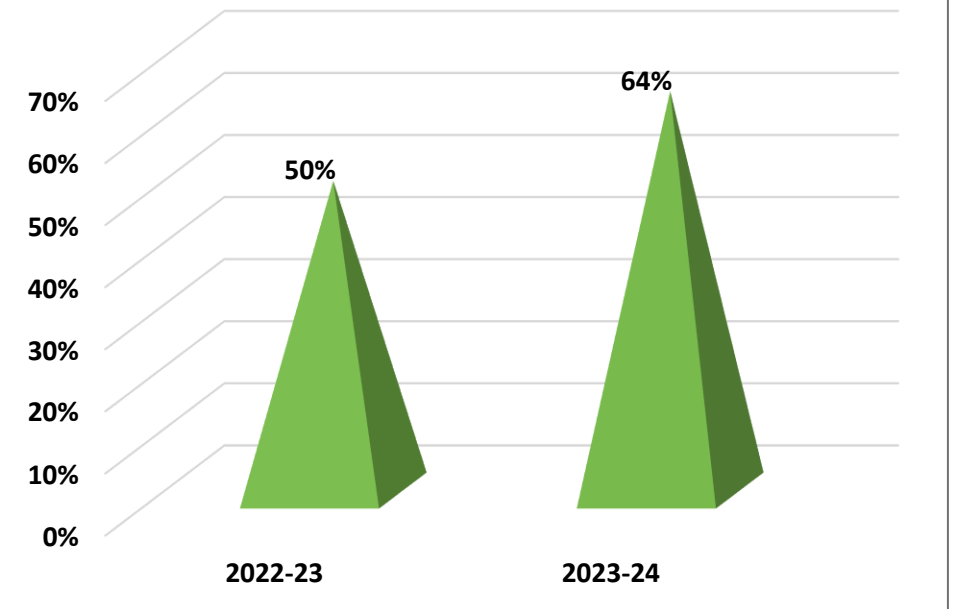
Comparison of Passed Ratio (Class 9th & 10th)

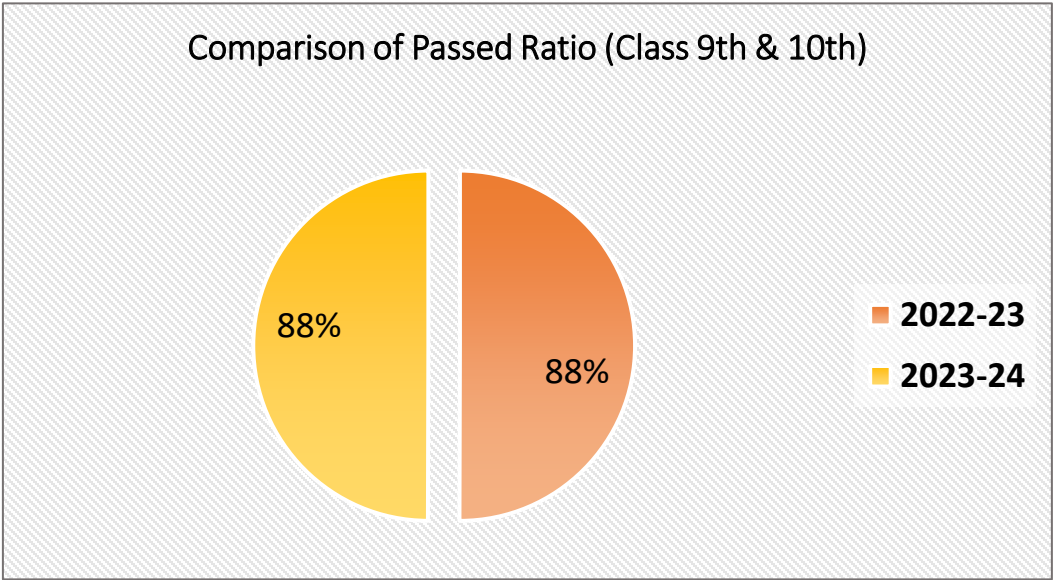
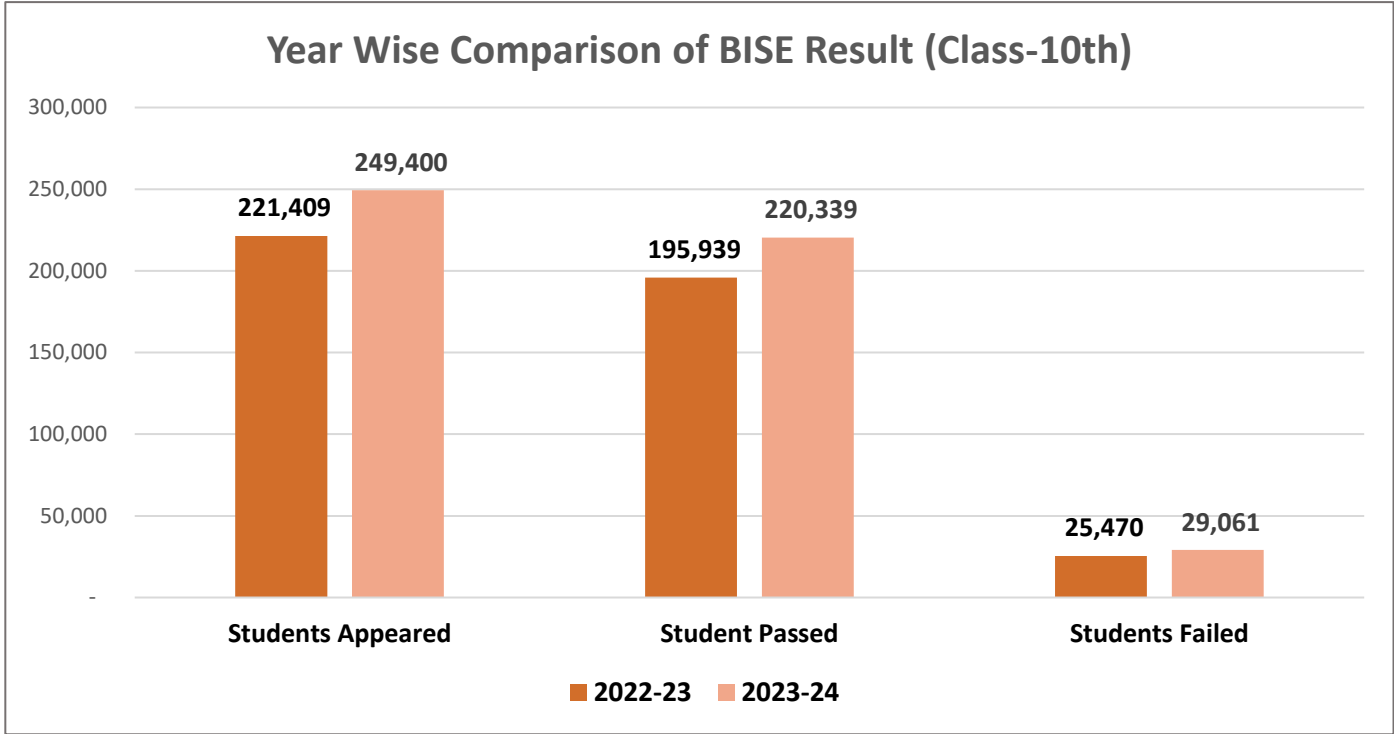


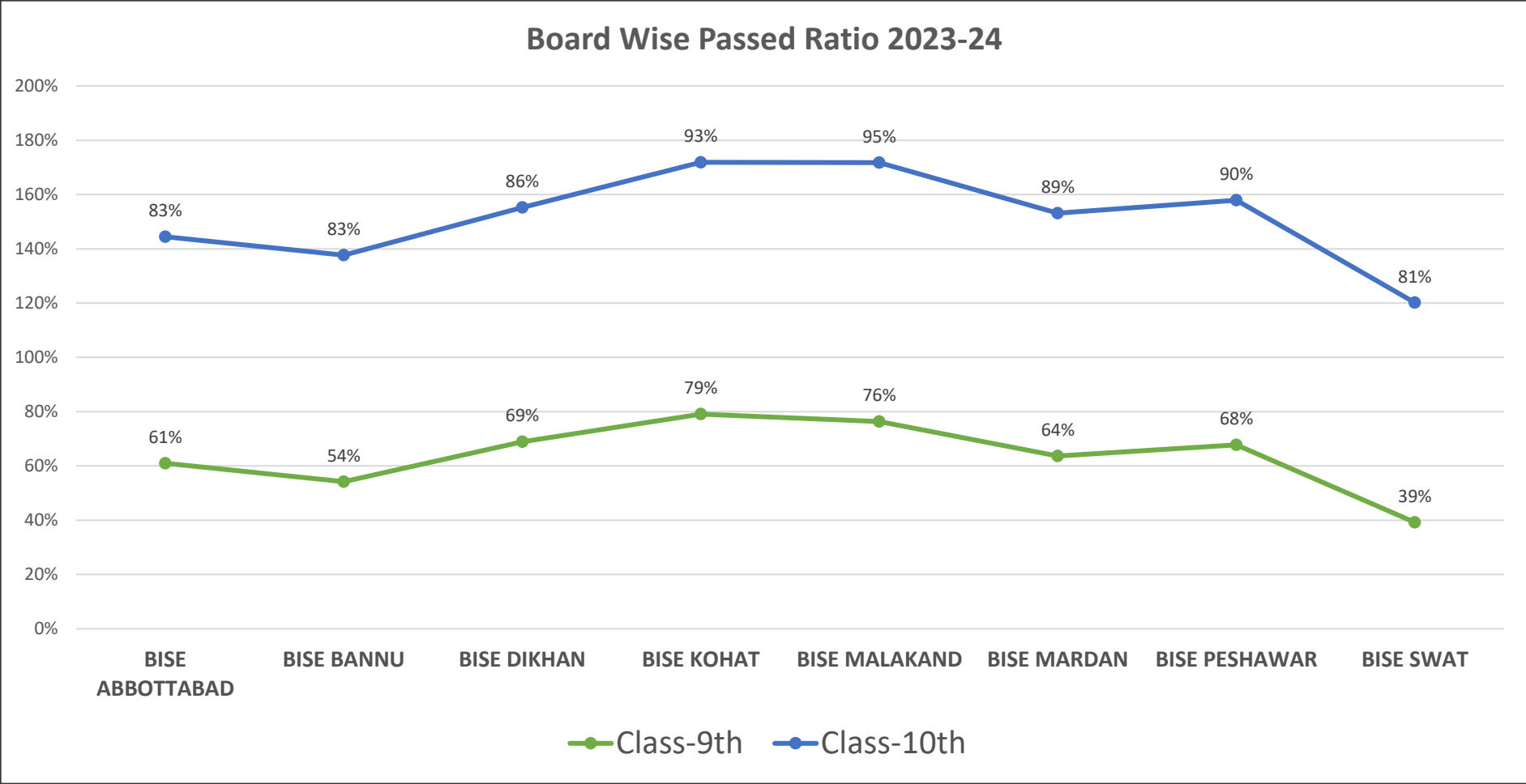
Two Years Comparison of BISE Result (Class-9th)



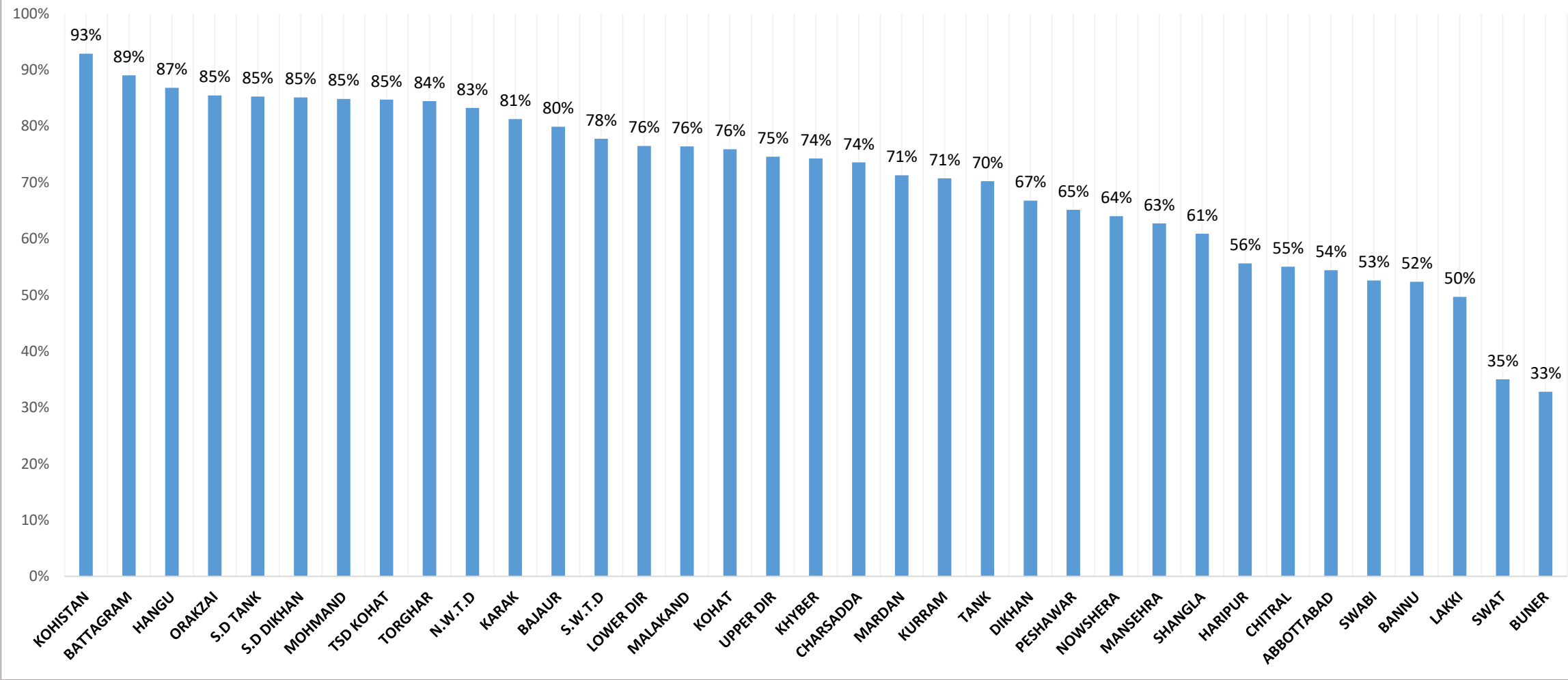
Passed Ratio Class-9th



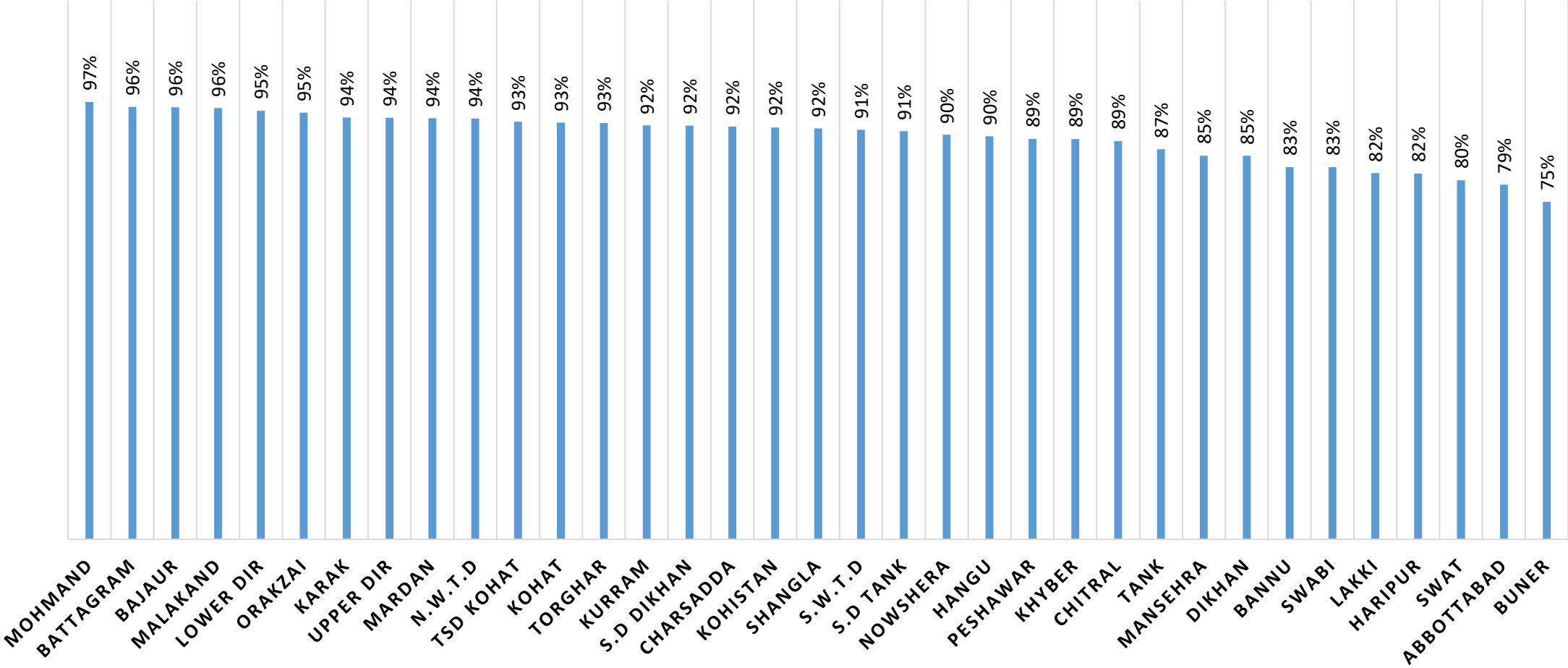




District Wise Passed Ratio Class-9th (2023-34)



DISTRICT WISE PASSED RATIO (CLASS-10TH) 2023-24



DISTRICT WISE SCHOOL ZERO % RESULT (9th & 10th) 2023			
DISTRICT	NO OF SCHOOLS	APPEARED	FAILED
BUNER	18	682	682
SWAT	15	715	715
ABBOTTABAD	7	180	180
PESHAWAR	7	262	262
D I KHAN	6	61	61
MANSEHRA	6	116	116
MARDAN	5	224	224
BANNU	4	35	35
KURRAM	4	82	82
SHANGLA	3	52	52
SWABI	3	42	42
CHARSADDA	2	36	36
KHYBER	2	34	34
LOWER DIR	2	136	136
NOWSHEHRA	2	38	38
HARIPUR	1	42	42
KOHAT	1	5	5
LAKKI	1	24	24
MOHMAND	1	4	4
S.W.T.D	1	1	1
TANK	1	15	15
Grand Total	92	2786	2786

DISTRICT WISE SCHOOL ZERO % RESULT (9th & 10th) 2024

No of Schools with Zero Result Class-9th	
District	No of Schools
Abbottabad	5
Bannu	7
Buner	6
Charsadda	1
Chitral	3
DIKHAN	1
Haripur	3
KURRAM	4
KHYBER	1
Mansehra	3
Mohmand	1
N.W.T.D	1
Peshawar	1
S.W.T.D	1
Shangla	1
Swat	5
TANK	1
Grand Total	45

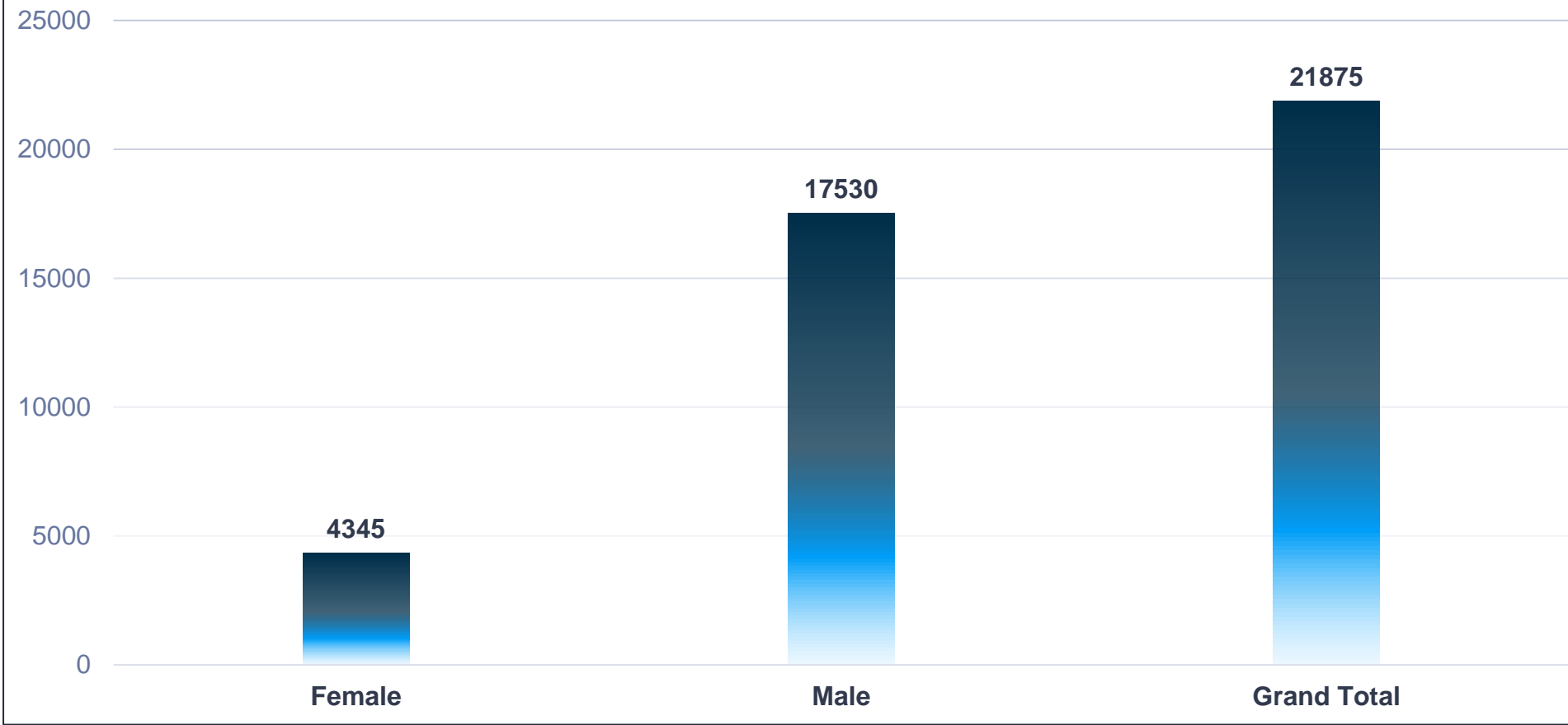
School With Zero Result Class-10th	
District	No. of School
Abbottabad	1
Bannu	1
Battagram	1
Buner	1
DIKHAN	2
HANGU	1
Kohistan	1
Peshawar	2
S.W.T.D	1
SWABI	1
Grand Total	12

List of Schools Having Zero % Result in SSC-1 Examinations Class 9th 2023-24						
S.No	Name of School	District	Students Appeared	Student Passed	Number of Students Failed	Failed Percentage
1	GGHS BANDI MATRACH ABBOTTABAD	Abbottabad	12	0	12	100%
2	GGHS CHAMHAD ABBOTTABAD	Abbottabad	45	0	45	100%
3	GGHS DHODIAL ABBOTTABAD	Abbottabad	6	0	6	100%
4	GHS TARNAWAI ABBOTTABAD	Abbottabad	68	0	68	100%
5	GOVT MIDDLE SCHOOL DOBATHER ABBOTTABAD (DSS)	Abbottabad	35	0	35	100%
6	GHS KILAG HARIPUR	Haripur	29	0	29	100%
7	GHS NOORDI HARIPUR	Haripur	31	0	31	100%
8	GHS SALAM KHAND GHAZI HARIPUR	Haripur	18	0	18	100%
9	GGHS BAI BALA MANSEHRA	Mansehra	30	0	30	100%
10	GGHS BAI BOHAL MANSEHRA	Mansehra	7	0	7	100%
11	GGHS LALO BANDI MANSEHRA	Mansehra	17	0	17	100%
12	GOVT: HIGH SCHOOL GARAH RASHEED, D.I.KHAN.	DIKHAN	9	0	9	100%
13	GOVT HIGH SCHOOL, TATOOR, TANK	TANK	24	0	24	100%
14	GOVT HIGH SCHOOL ANGOR ADDA, S.W.T.D	S.W.T.D	3	0	3	100%
15	GOVT. HIGH SCHOOL FAZAL SHAH MITHA KHEL, BANNU	BANNU	7	0	7	100%
16	GOVT. HIGH SCHOOL, JANI KHEL,S.D.W BANNU	BANNU	2	0	2	100%
17	GOVT. HIGH SCHOOL JOJI KILLA(SHUKRULLAH HUSSAIN), BANNU	BANNU	7	0	7	100%
18	GOVT. HIGH SCHOOL BHARATHI MACHAN KHEL, BANNU	BANNU	18	0	18	100%
19	GOVT. HIGH SCHOOL KUNJAK BATHI KILLA UMERZAI, BANNU	BANNU	14	0	14	100%
20	GOVT. HIGH SCHOOL DABAK SYED KHEL BANNU.	BANNU	2	0	2	100%
21	GOVT. HIGHER SECONDARY SCHOOL TAKHTI KHEL BANNU.	BANNU	1	0	1	100%
22	GOVT. HIGH SCHOOL RAZMAK CAMP., N.W.T.D	N.W.T.D	14	0	14	100%
23	GOVT HIGH SCHOOL BUGHAKI KURRAM	KURRAM	11	0	11	100%
24	GOVT HIGH SCHOOL BUGHDI KURRAM	KURRAM	33	0	33	100%
25	GOVT HIGH SCHOOL KACHKINA KURRAM	KURRAM	22	0	22	100%
26	GOVT HIGH SCHOOL PEWAR KURRAM	KURRAM	29	0	29	100%
27	GOVT GIRLS MIDDLE SCHOOL ASHIRAT DROSH CHITRAL (DSS PROGRAM)	Chitral	32	0	32	100%
28	GOVT HIGH SCHOOL GHAMI KORE MOHMAND	Mohmand	16	0	16	100%
29	GOVT HIGH SCHOOL TOOD KAMAR LANDI KOTAL KHYBER	Khyber	3	0	3	100%
30	GOVT HIGH SCHOOL ZONDRANGRAM CHITRAL	Chitral	19	0	19	100%
31	GOVT MIDDLE SCHOOL MEHMOOD ABAD UMARZAI CHARSADDA(DSS PROGRAM)	Charsadda	16	0	16	100%
32	GOVT MIDDLE SCHOOL SCHOOL TERICH PAYEEN CHITRAL(DSS PROGRAM)	Chitral	14	0	14	100%
33	GOVT SHAHEED AHMAD MUJTABA HIGH SCHOOL GULBAHAR NO 2 PESHAWAR	Peshawar	47	0	47	100%
34	Govt. Girls High School Sakhra, Swat.	Swat	74	0	74	100%
35	Govt. Girls High School 2nd Shift Dardyal, Swat	Swat	35	0	35	100%
36	Govt. Girls High School Kozkana Shangla	Shangla	17	0	17	100%
37	Govt. Girls High School Batanai (Amazai), Buner.	Buner	21	0	21	100%
38	Govt. Girls High School Ghazikot Buner	Buner	10	0	10	100%
39	Govt. Higher Secondary School Tall, Swat.	Swat	51	0	51	100%
40	Govt. High School Kotlai, Swat.	Swat	63	0	63	100%
41	Govt. High School Asharay Kabal Swat	Swat	39	0	39	100%
42	Govt. Centennial Model High School No.1 Daggar, Buner.	Buner	80	0	80	100%
43	Govt. High School Nawakalay, Buner.	Buner	78	0	78	100%
44	Govt. High School Panghalay, Buner	Buner	16	0	16	100%
45	Govt. High School Mula Banda, Gadezai, Buner	Buner	20	0	20	100%

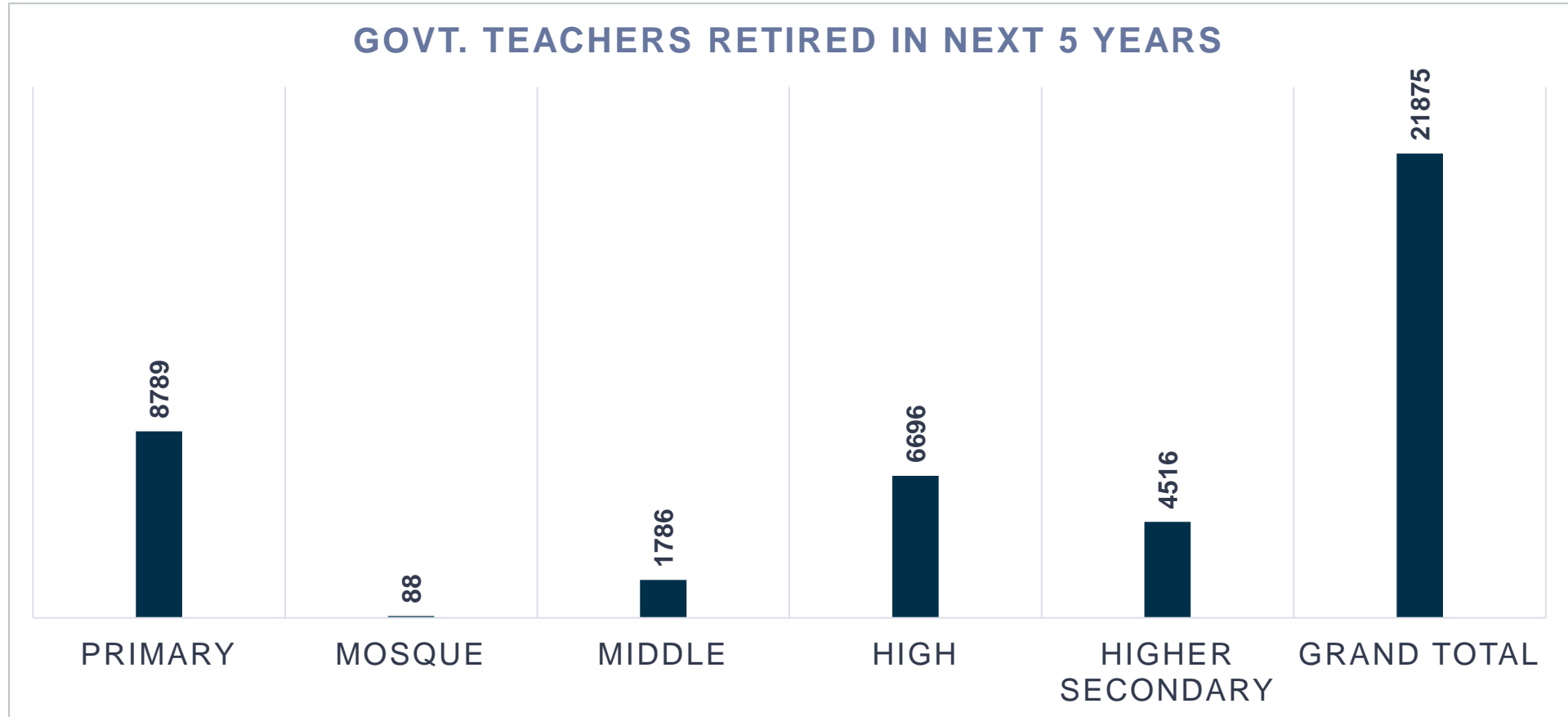
List of Schools Having Zero % Result in SSC-1 Examinations Class-10th 2023-24						
S.No	Name of School	District	Students Appeared	Student Passed	Number of Students Failed	Failed Percentage
1	GOVT MIDDLE SCHOOL DOBATHER ABBOTTABAD (DSS)	Abbottabad	21	0	21	100%
2	GHS GIJBORI BATTAGRAM	Battagram	31	0	31	100%
3	GOVT. HIGH SCHOOL SUMAR NALA KOHISTAN	Kohistan	2	0	2	100%
4	GOVT HIGHER SECONDARY SCHOOL REHMANI KHEL D I KHAN	DIKHAN	30	0	30	100%
5	GOVT HIGH SCHOOL BAGGI QAMAR D I KHAN	DIKHAN	14	0	14	100%
6	GOVT HIGH SCHOOL AZAM WARSAK, S.W.T.D	S.W.T.D	4	0	4	100%
7	GOVT. HIGH SCHOOL QADRA (GADOON) SWABI	SWABI	19	0	19	100%
8	GOVT. GIRLS HIGH SCHOOL MAQSOOL MANDAN BANNU	BANNU	3	0	3	100%
9	GOVT SHAHEED BAQIR ALI KHAN GIRLS HIGH SCHOOL IBRAHIM ZAI HANGU	HANGU	129	0	129	100%
10	GOVT MIDDLE SCHOOL ZIARAT KOROONA PESHAWAR	Peshawar	1	0	1	100%
11	GOVT HIGH SCHOOL SARA DARGAI PESHAWAR	Peshawar	1	0	1	100%
12	Govt. Girls High School Ghazikot Buner	Buner	5	0	5	100%

TEACHERS RETIREMENT ANALYSIS

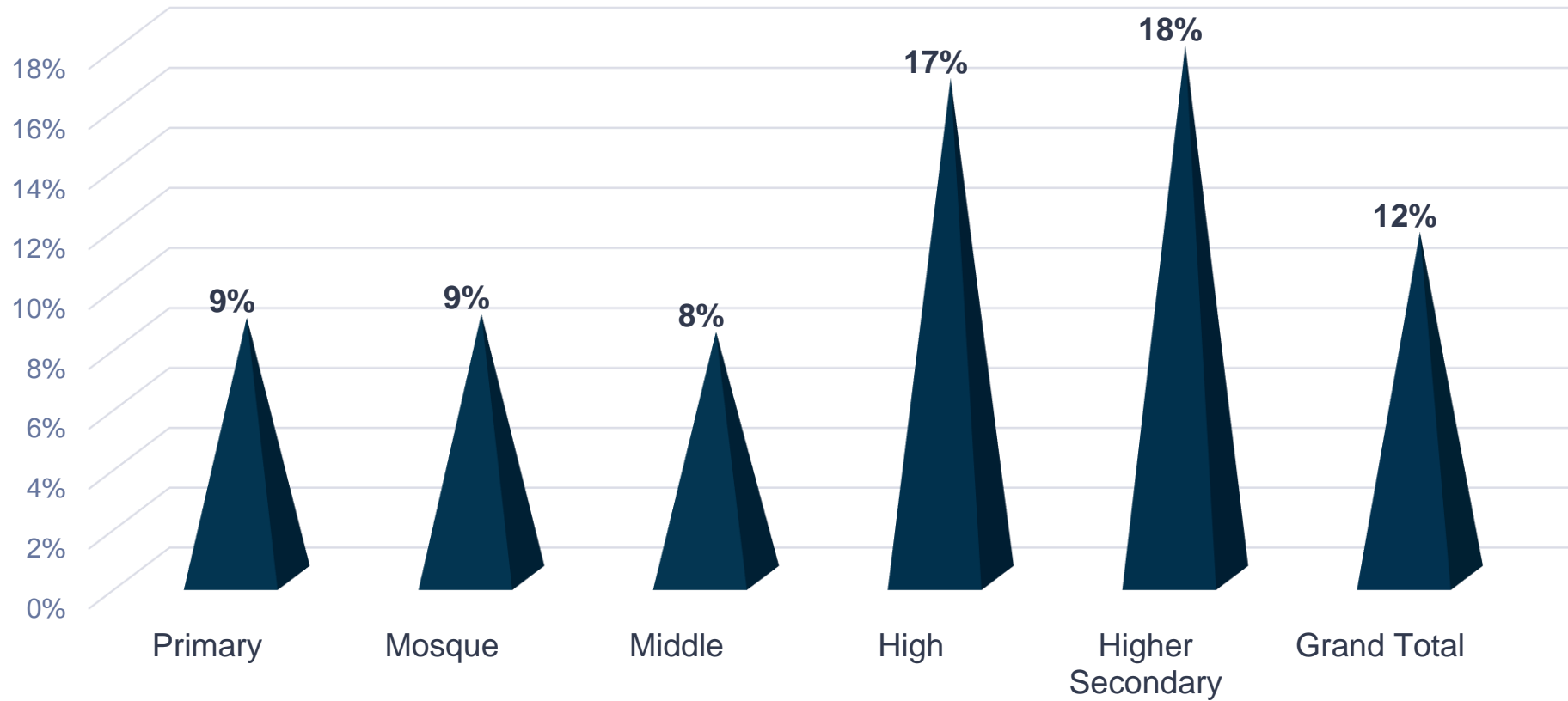
GENDER WISE TEACHERS RETIRED IN NEXT 5 YEARS



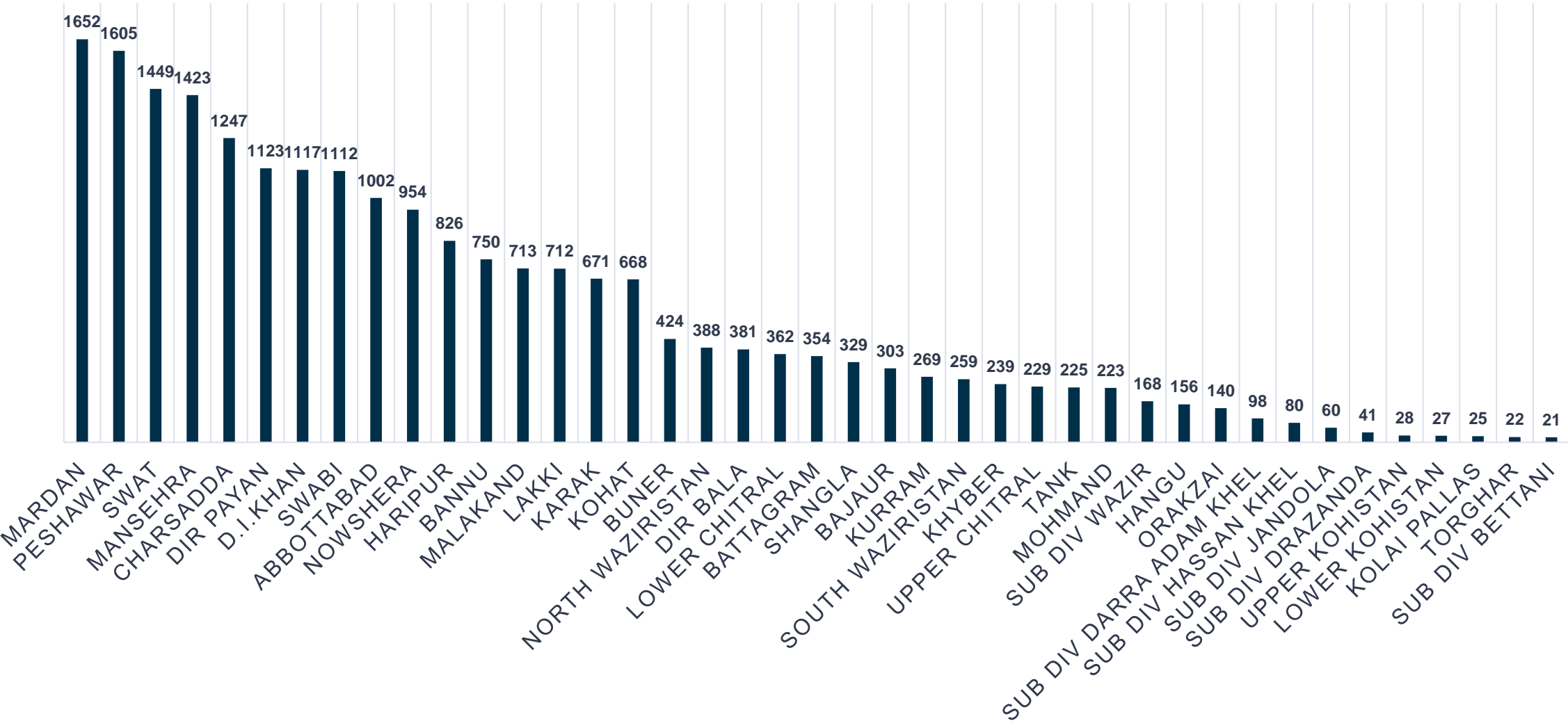
GOVT. TEACHERS RETIRED IN NEXT 5 YEARS



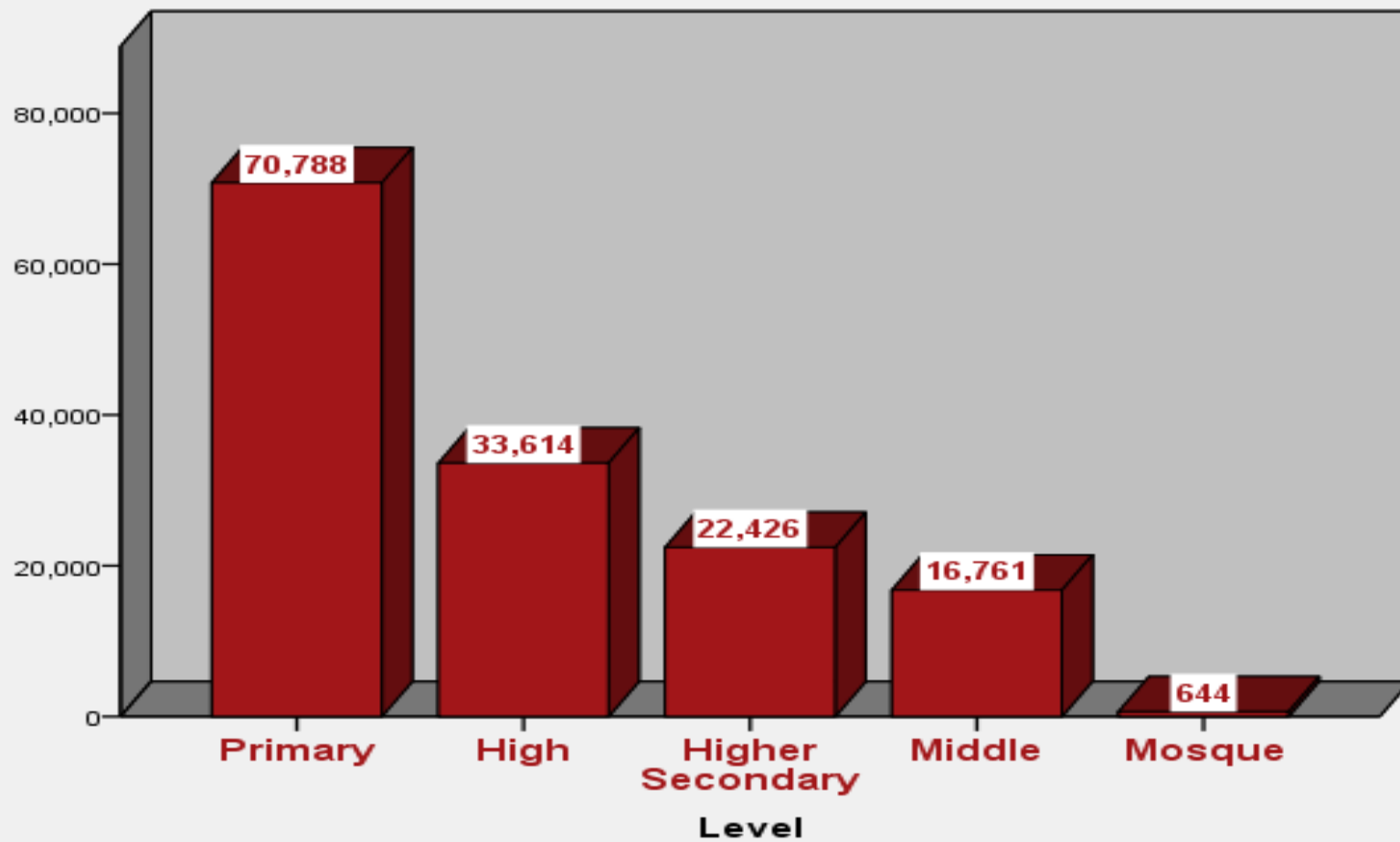
Percentage of Retired Teachers in Next 5 Years



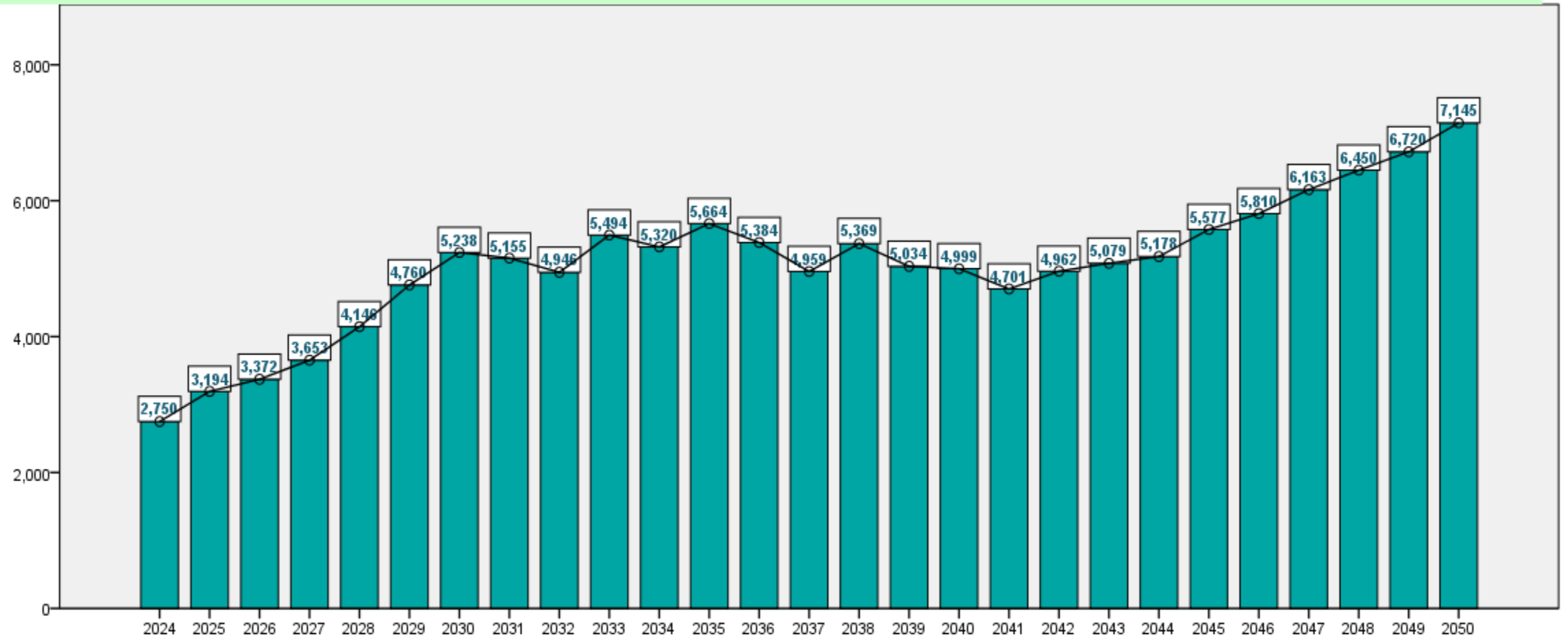
RETIRED TEACHERS IN NEXT 5 YEARS



LEVEL WISE TEACHERS RETIRED TILL 2050

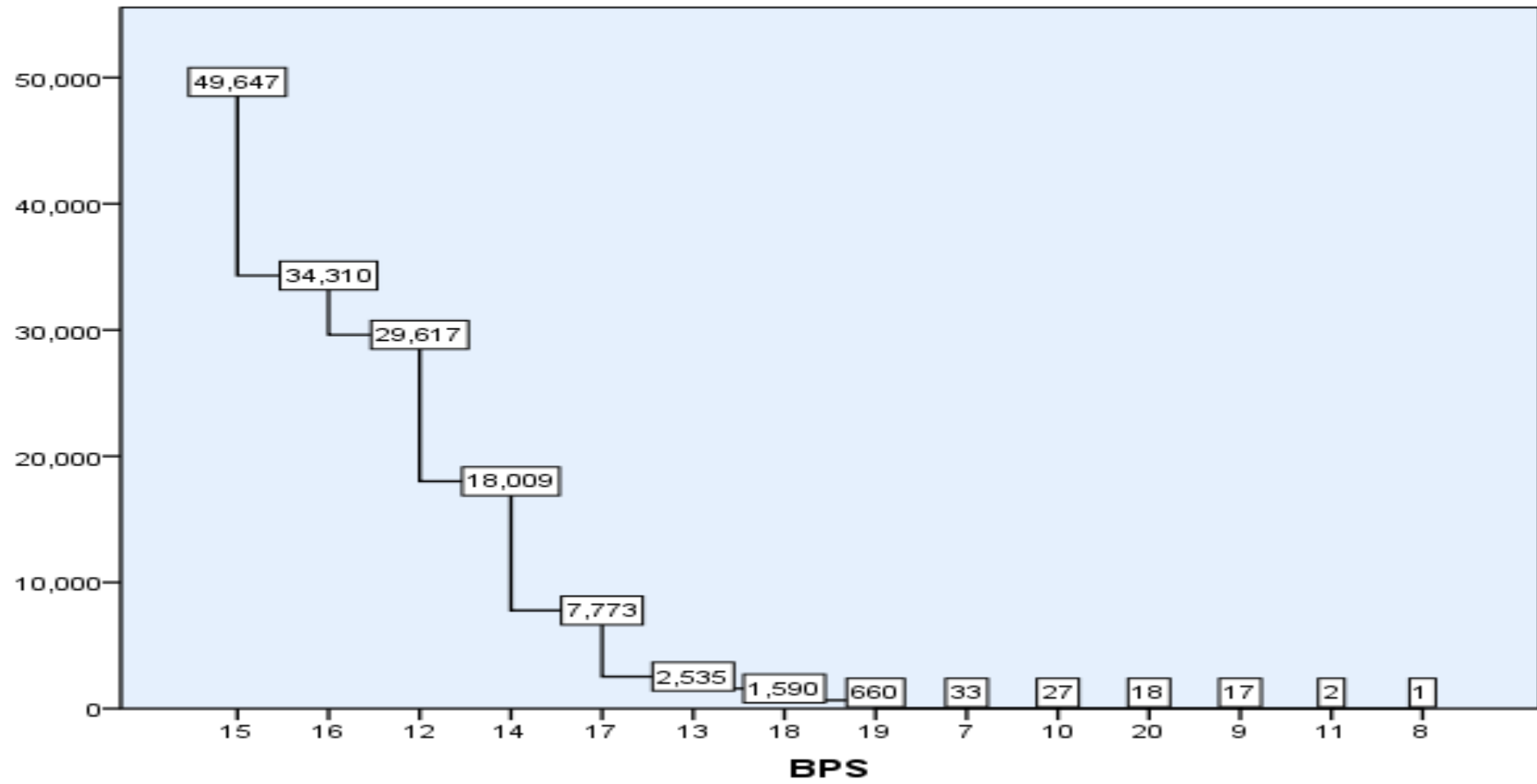


YEAR WISE RETIRED TEACHERS

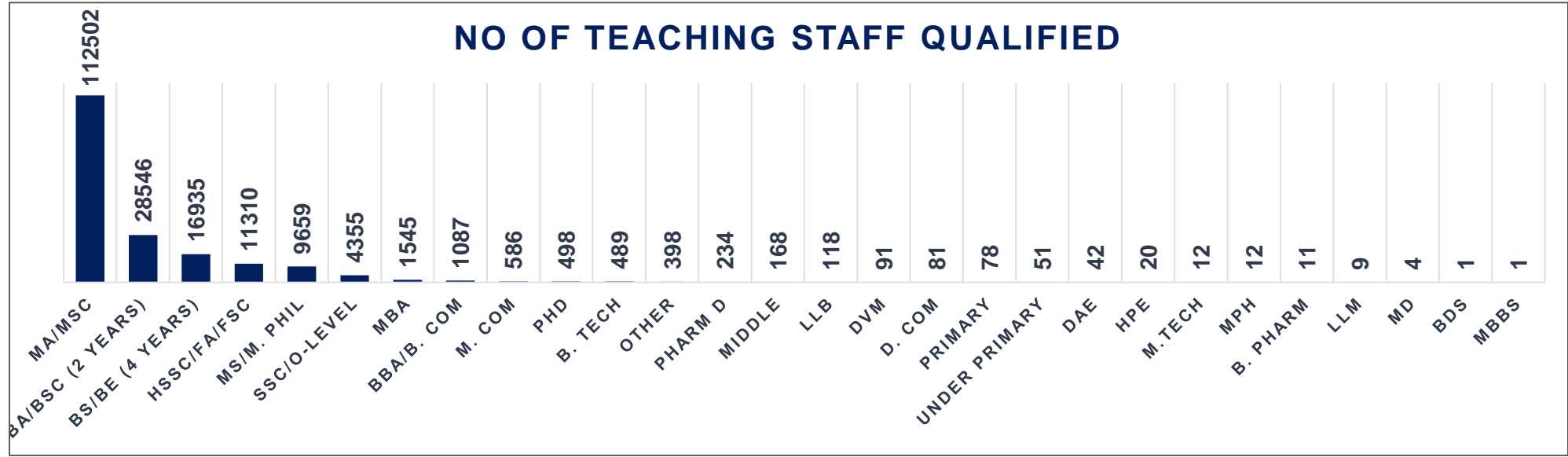
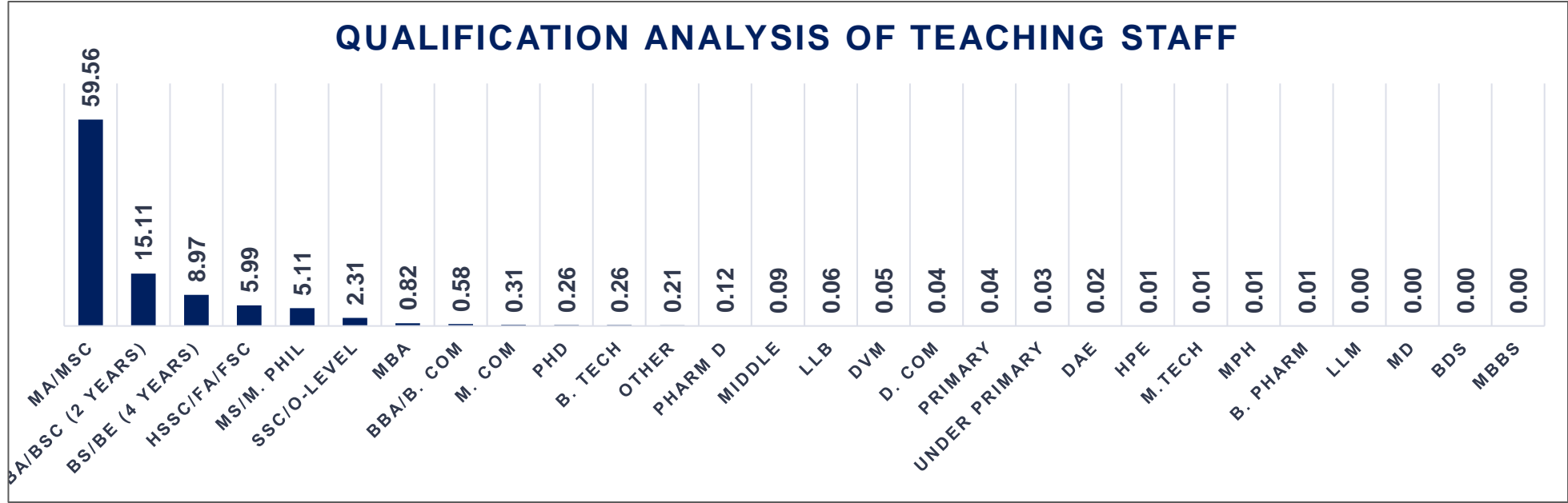


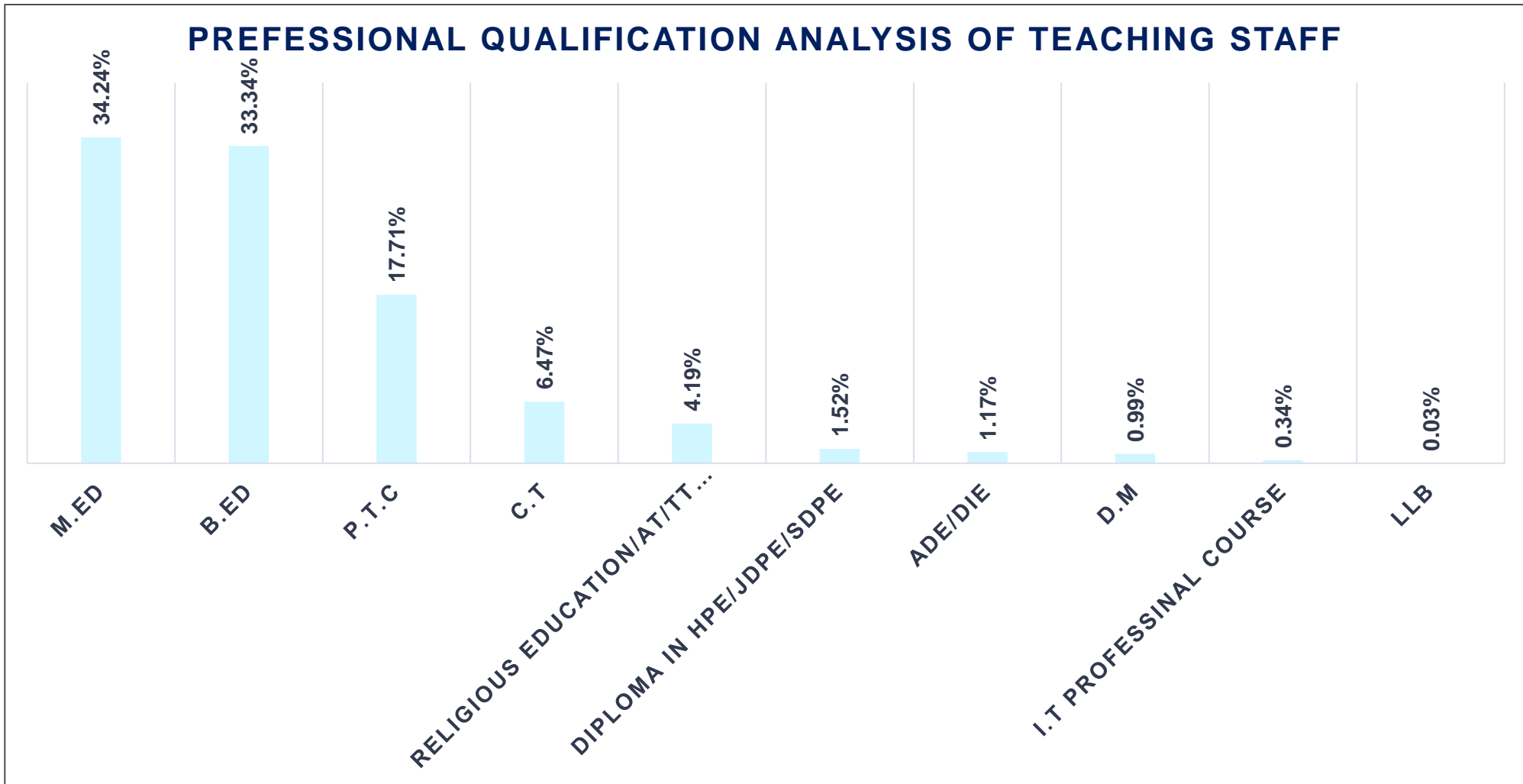
Total Teachers Retired Till 2050 = 137,222

BPS WISE TEACHERS RETIRED TILL 2050



TEACHERS QUALIFICATION ANALYSIS





Note: 87% Teaching staff have Professional Qualifications

CHALLENGES FACED AND ENCOUNTERED

- Field staff face security threats in remote and conflict-prone areas, particularly in districts like Kurram, South Waziristan and D.I Khan etc.
- Mountainous terrain and poor infrastructure hinder access to schools, especially during adverse weather conditions
- Reduced funding impacts resource allocation, affecting recruitment, retention, and procurement
- Withholding of non-salary funds hinders/effects operational expenses and inordinate delay in the monitoring mechanism and to carryout day to day activities

FUTURE RECOMMENDATIONS

- Establish a permanent KPEMA office to reduce costs and enhance efficiency
- Establish a data center to manage, store, and analyze data for informed decision-making
- Integrate multiple data systems to create a unified data platform for effective data-driven decision-making
- Extend monitoring to include private schools, ESEF schools, Social Welfare Schools, and other public sector schools
- Conduct annual school censuses in both public and private sector schools
- Reintroduce qualitative assessment of the 2019 Literacy and Numeracy Drive (LITNUM) as part of KPEMA's monitoring activities

FUTURE RECOMMENDATIONS

- Incorporate qualitative assessment data collected by school leaders into KPEMA's monitoring system
- Enhance data analysis capabilities and staff training
- Collaborate with academic institutions and research organizations
- Allocate sufficient funds to support KPEMA's core functions and new initiatives
- Implement a reward system to motivate and incentivize field staff

THANK YOU