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APPENDICES

Appendix 1: Data collection tools

Appendix 1.1: Perceived Teacher Engagement Scale (PTES)

GENERAL INFORMATION

Please fill in the following details:

--	--	--	--	--	--	--	--	--	--

Date: _____

Name: _____

Gender: Male Female

Caste: Unreserved OBC SC ST

Date of Birth: _____

Class: _____

Name of the school: _____

Area: Rural Urban

INSTRUCTIONS

Please read each of the statements carefully. For providing your opinion a five-point scale is given against each statement i.e. Strongly Agree, Agree, Neutral, Disagree, Strongly Disagree. Please Tick Mark only one response as per your choice. You are requested to indicate your answers without hesitation and with utmost degree of honesty. Your responses will not be evaluated for academic purpose(s). The information given by you will be kept confidential. Please give your response to all the 22 statements.

Scoring Table

Dimension	A	B	C	Total	Z-score	Interpretation
Score						

Sl. No.	Statements	Responses					Scores
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
(A) Cognitive-physical Engagement							
1	Teacher puts all effort to make us understand lessons.						
2	Teacher remains seated on the chair during the entire class hour.						
3	Teacher gets irritated when I ask questions.						
4	Teacher never gets tired of teaching.						
5	Teacher gets diverted during teaching in class.						
6	Teacher takes phone calls while teaching in class.						
7	Teacher comes to class with preparation.						

Sub-total=

Sl. No.	Statements	Responses					Scores
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
(B) Socio-emotional Engagement							
8	Teacher does not care whether I learn.						
9	Teacher believes that my performance can be better.						
10	Teacher calls students by their names.						
11	Teacher does not listen to the students.						

12	Teacher follows whether I am doing my tasks in class.						
13	Teacher is available for discussions on studies beyond class hours.						
14	Teacher always blames students for their failure.						
15	Teacher talks interestingly in class.						

Sub-total=

Sl. No.	Statements	Responses					Scores
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
(C) Pedagogical Engagement							
16	Teacher provides interesting activities in class.						
17	Teacher never asks questions on previously taught lessons.						
18	Teacher does not use teaching aids in class.						
19	Teacher rarely use blackboard in class.						
20	Teacher connects classroom discussions to daily life experiences.						
21	Teacher does not encourage us to ask questions.						
22	Teacher makes clear why my answers are good or not.						

Sub-total=
Grand total=

Appendix 1.2: Student Engagement in Learning Scale (SELS)

GENERAL INFORMATION

Please fill in the following details:

--	--	--	--	--	--	--	--

Date:

Name: _____

Gender: Male Female

Caste: Unreserved OBC SC ST

Date of Birth: _____

Class: _____

Name of the school: _____

Area: Rural Urban

INSTRUCTIONS

Please read each of the statements carefully. For providing your opinion a five-point scale is given against each statement i.e. Strongly Agree, Agree, Neutral, Disagree, Strongly Disagree. Please Tick Mark only one response as per your choice. You are requested to indicate your answers without hesitation and with utmost degree of honesty. Your responses will not be evaluated for academic purpose(s). The information given by you will be kept confidential. Please give your response to all the 23 statements.

Scoring Table

Dimension	A	B	C	Total	Z-score	Interpretation
Score						

Sl. No.	Statements	Responses					Score
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
(A) Cognitive Engagement							
1	When I am in class, I forget everything else around.						
2	Performing well in class is not important to me.						
3	I plan to continue for higher studies.						
4	I try to relate classroom discussions to the things I already know.						
5	I try to generate examples of the concepts discussed in the class.						
6	I keep on studying regularly rather than waiting for examinations.						
7	Whenever I find something difficult, I give up right away.						

Sub-total=

Sl. No.	Statements	Responses					Score
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
(B) Behavioral Engagement							
8	I wait for the moment when class finishes.						
9	I feel sleepy in class.						

10	I ask the teacher for clarification.						
11	I remain attentive in class.						
12	I often whisper in class.						
13	I do not ask any questions in class.						
14	I discuss on studies with my classmates.						
15	I pretend to my teacher that I am working properly in the class.						

Sub-total=

Sl. No.	Statements	Responses					Score
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
(C) Emotional Engagement							
16	I eagerly wait for the teacher's arrival in the class.						
17	I do not like my teacher.						
18	It is better to read at home than attending class.						
19	I feel regretful when I miss any class.						
20	The classes are boring.						
21	Learning in the class is full of joy.						
22	My friends help me when I miss any class.						
23	I feel happy when the teacher remains absent.						

Sub-total=


Grand total=

Appendix 2: Field Confirmation Letters

Appendix 2.1: Birbhum District

INDEX NO: 11-015 H.S. INSTITUTION CODE NO: 15072

BANDHGORA KALIKRISHNA VIDYALAYA
(RECOGNISED & GOVT AIDED)
P.O. BOLPUR, BIRBHUM, WEST BENGAL
Mail Id: bkkvbol1945@gmail.com
PHONE - 9434326220



Ref. Dated 16/04/2021

TO WHOM IT MAY CONCERN

This is to certify that Mr. Raj Kumar Pal, research scholar, Department of Education, Tezpur University had visited Bandhgora Kali Krishna Vidyalaya, P.O- Bolpur, Birbhum, West Bengal. For this, our students of class X were co-operative for his fieldwork.


Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school, administered research tools and copied school records from our school.

We wish him best of luck in his Ph. D. program.

Signature of the Headmaster/ Principal
Full name: Pulok Cherkrahoty
Teacher-In-Charge 16-04-2021
Bandhgora Kali Krishna Vidyalaya
Bolpur, Birbhum

Appendix 2.2: Birbhum District (contd.)

Index No.: 13-005
H.S. Code: 115077

**SRINANDA HIGH SCHOOL (H.S.)**
(GOVT. SPONSORED)
P.O.-BOLPUR • SANTINIKETAN • DIST.-BIRBHUM

Founded By
Late J. N. SET

Ref. No.: Date: 10/12/2021

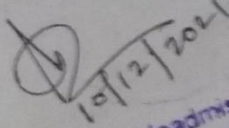
From : Secretary / Headmaster / President

To whom it may concern

This is to certify that Mr. Raj Kumar Pal, Research Scholar, Department of Education, Tejpur University had visited Srinanda High School, P.O: Bolpur, Dist: Birbhum, West Bengal. For this our students of class X were cooperative for his fieldwork.

Thus we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school, administered research tools and copied school records from our school.

We wish him best of luck in his Ph. D Program.


10/12/2021
Headmistress
Srinanda High School (H.S.)
P.O.- Bolpur, Birbhum

Appendix 2.3: Birbhum District (contd.)

Mobile : 9434897646, 9434306880 Index No. 11-034

BOLPUR VIVEKANANDA VIDYAPITH (H.S.)

(Co-Education) (Higher Secondary)
(Recognised Twelve Class High School) H.S. No.: 115131

BOLPUR • BIRBHUM (W.B.)
Email : bolvivekpith1964@gmail.com

Ref.No.: Date: 10.12.2021

Secretary
Headmistress

TO WHOM IT MAY CONCERN


This is to certify that **Mr. Raj Kumar Pal**, research scholar, Department of Education, Tezpur University had visited **Bolpur Vivekananda Vidyapith**, P.O – Bolpur, Birbhum, West Bengal. For this, our students of **class X** were co-operative for his fieldwork.

Thus, we are confirming that **Mr. Raj Kumar Pal** has visited and collected data from our school, administered research tools and copied school records from our school.

We wish him best of luck in his Ph.D Program.

Signature of the Headmistress
Subha Ghosh
10.12.2021

Headmistress
Bolpur Vivekananda Vidyapith
Bolpur, Birbhum



Appendix 2.4: Cooch Behar District

Index No : 01-050
Mb. No. : 9002947051

H.S. Code - 110086
V.T.C Code - 9325

Harinchowra Baniniketan Girls' High School (H.S.)
P.O.- Ghughumari, Dist - Cooch Behar.

To : Secretary / Headmaster

Ref. No.

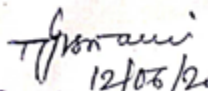
Date : 12-6-2021

To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Harinchowra Baniniketan Girls' High School (H.S.), Vill. Harinchowra, P.O.- Ghughumari, Dist.- Cooch Behar, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.

Signature of the Headmaster/Principal:


12/06/2021
Headmistress
Harinchowra Baniniketan
Girls' High School (H.S.)
Harinchowra, Cooch Behar

Appendix 2.5: Cooch Behar District (contd.)

Ph. - 8609094946

খাগড়াবাড়ী হরেন্দ্রচন্দ্র বিদ্যালয় (হাই)
KHAGRABARI HARENDRA CHANDRA VIDYAMANDIR (HIGH)

School Index No. : 01-023 (WITH XI-XII) Code No. - (H.S.) 110069
P.O.- KHAGRABARI, DIST.- COOCH BEHAR

Ref. No. ... *K/PH-1559* Date ... *13.09.21*

From,
Secretary/Headmaster,

To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Khagrabari Harendra Chandra Vidyamandir (HIGH), P.O.-Khagrabari, Dist. - Cooch Behar, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.



A 13.09.21
Signature of the Headmaster/Principal:
Headmaster
Khagrabari Harendra Chandra Vidyamandir (High)
P.O.-Khagrabari, Dist.-Cooch Behar

Appendix 2.6: Hooghly District


Mob. – 9474727937/ 9593282882

KANPUR – KRISHNABATI VIVEKANANDA INSTITUTION (H.S.)
Recognized & Aided High School (Co-education)
ESTD. -1943
P.O. – BAIRA KANPUR • BLOCK + P.S. – SUB-DIVISION- ARAMBAGH
DIST. - HOOGHLY • PIN 712413
Email: 5203kksi@gmail.com

Index No. –G3-049 Institution Code (H.S) – 117310

Ref. No. Date... 29 Sep 2021
From: The President/Headmaster

To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Kanpur-Krishnabati Vivekananda Institution (H. S.), P.O., Baira Kanpur, Dist. - Hooghly, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.


29.09.21

Signature of the Headmaster/Principal:

SOURMEN KUMAR MUKHOPADHYA
Headmaster
Kanpur-Krishnabati
Vivekananda Institution (H.S.)
Baira Kanpur, Hooghly


Appendix 2.7: Murshidabad District

UDISE CODE : 19070412902

Board Index No. E4-003
H.S. Code No. 116014

ANDI L.C.C. HIGH SCHOOL
(Higher Secondary)

P.O. - Andi ★ Dist. Murshidabad ★ PIN - 742168 ★ W.B.
Phone : (03484) 275002
E-mail :- andilechighschool@gmail.com



To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Andi L. C. C. High School (H. S.), P.O.- Andi, Dist.- Murshidabad, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.

Signature of the Headmaster/Principal:



06/07/2021

Headmaster
Andi L.C.C High School (H.S.)
PO Andi, Dist.- Murshidabad

Appendix 2.8: Murshidabad District (contd.)

SAGARDIGHI S.N. HIGH SCHOOL (H.S.)
(Estd : 1948)

School Index No. : E3-045 ❖ H.S. Code : 116061 ❖ VTC Code : 6768
P.O. : SAGARDIGHI ❖ DIST. : MURSHIDABAD ❖ PIN - 742226

Memo No.
Date... 06/07/2021

From : Headmaster

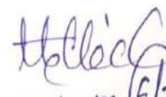
To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Sagardighi S. N. High School (H.S.), P.O.- Sagardighi, Dist.- Murshidabad, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.



Signature of the Headmaster/Principal:


Headmaster
Sagardighi S.N. High School (H.S.)
Sagardighi Murshidabad

Appendix 2.9: Murshidabad District (contd.)

INDEX NO. E4-067 Mob.- 9593425154
TALWAN A.C. DEY HIGH SCHOOL (H.S.)
ESTD-1958 + H.S. Code No. - 116334 + H.S. Centre Code - 4423
(Govt.Aided & Co-educational)
P.O. - BIPRASEKHAR, DIST. - MURSHIDABAD

Ref. No. Date- 11/06/2021

From :
Headmaster / Secretary / Teacher-in-charge

To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Talwan A. C. Dey High School (H.S.), P.O.- Biprasekhar, Dist.- Murshidabad, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.

Signature of the Headmaster/Principal:



Teacher-in-Charge
Talwan A.C. Dey High School
Biprasekhar, Murshidabad

Appendix 2.10: Nadia District



Dubra Kalipada Vidyamandir (H.S.)

Govt. Sponsored (CO - EDUCATION)

ESTD.- 1970

Madhyamik Index No. D3-018, H.S. Code : 112302

Vill- Dubra, P.O. Gouripur, P.S. Chakdaha, Dist- Nadia, PIN-741223

Email ID: dubrakalipadavidyamandir1970@gmail.com

From : President / Head master

Ref. No.....

Date. 21/06/21



To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Dubra Kalipada Vidyamandir (H. S.), Vill.- Dubra, P.O.- Gouripur, P. S.- Chakdaha, Dist.- Nadia, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.

Signature of the Headmaster/Principal:

Sanjit Barman
21/06/21

Teacher-in-charge
Dubra Kalipada Vidyamandir (H.S.)
P.O.- Gouripur, Dist. Nadia

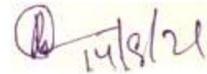
Appendix 2.11: Nadia District (contd.)



To Whom It May Concern

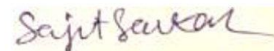
This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited Bhatjangla Kalipur High School (H. S.), P.O.- Bhatjangla/xi, Krishnagar- I, Dist.- Nadia, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.


14/8/21

Signature of the Headmaster/Principal

HEADMASTER
Bhatjangla Kalipur High School



Appendix 2.12: North Dinajpur District

STD. : (03526) PH. : 261133
Nandajhar Adibasi Tapashili High School
(HIGHER SECONDARY)
P.O. - NANDO :: DIST. - UTTAR DINAJPUR
Index No.- P2 - 025
H.S. Code - 09103

Memo No. : 13/2021
Date : 24/03/2021



To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited our Nandajhar Adibasi Tapashili High School (H. S.), P.O.- Nando, P.S.- Goalpokhar, Dist.- Uttar Dinajpur, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.


Signature of the Headmaster/Principal:

Rbas
24/03/2021

Headmistress
Nandajhar A.T. High School(H.S.)
P.O.-Nando, Dist.-Uttar Dinajpur

Full Name. *Ruma Bas*

Appendix 2.13: North Dinajpur District (contd.)



SHAKUNTALA HIGH SCHOOL (H.S.)
(Erst While Senior Basic School)
Index No. P₂-042
Dist. Code-19040404202, H.S. INST. Code-109124

P.O. : Shakuntala -733208 • Block : Goalpokher (II) • Dist : Uttar Dinajpur

Memo No:/SHS/..... Date - 28.06.2021
From : Secretary / Headmaster

To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited our Shakuntala High School (H. S.), P.O.- Shakuntala, Dist.- Uttar Dinajpur, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.

Signature of the Headmaster/Principal:



Teacher-In-Charge
-Cum-
Secretary
Shakuntala High School (H.S.)
At +PO-Shakuntala, Dist -U/D

Appendix 2.14: Purba Burdwan District (contd.)

H. Ms. Mobile No.: 9474367027 / 8918398031

Secondary Index No.- H4-016

H.S. Code- 104494

DADHIA GOPALDAS HIGH SCHOOL (H.S.)

ESTD. - 1947

Recognised and Govt. Sponsored

P.O.- Ehiapur :: Dist.- Purba Bardhaman :: Sub- Divn.- Katwa :: Block- Ketugram - 1

School email ID : dadhiaghs1947@gmail.com

Memo No.

Date...14/09/21.....



To Whom It May Concern

This is to certify that Mr. Raj Kumar Pal, a research scholar from the Department of Education, Tezpur University has visited our Dadhia Gopaldas High School (H. S.), P. O.- Ehiapur, Purba Barddhaman, West Bengal. For this, he has collected data from the students of class-X of our school, administered research tools and copied school records from our school.

Thus, we are confirming that Mr. Raj Kumar Pal has visited and collected data from our school for his field work. I wish him best of luck in his Ph. D. Programme.

A handwritten signature in black ink, followed by the date "14/09/21".

Headmaster
Dadhia Gopaldas High School (H.S.)

Signature of the Headmaster/Principal:

LIST OF PUBLICATIONS AND SEMINAR/CONFERENCES

A. List of Publications

1. Pal, R. K. & Roy, N. R. (2021). Multiplicities of methodological aspects of measuring the student engagement construct – A disparity. *Kala-Sarovar*, 24(4), 120-124. (UGC-CARE LISTED, ISSN: 0975-4520)
2. Pal, R. K. & Roy, N. R. (2022). Addressing the anomalies in the factorial structure of student engagement construct: A Study. *Bharatiya Shiksha Shodh Patrika*, 41(1), 79-83. (UGC-CARE LISTED, ISSN: 0970-7603)
3. Pal, R. K. & Roy, N. R. (2022). Gender gap in student engagement across academic grades: A Comparative Study in West Bengal. *Education India: A Quarterly Referred Journal of Dialogues on Education*, 11(3), 1-9. (UGC-CARE LISTED, Paper Id. EIJ20110000709, ISSN: 2278-2435). <http://educationindiajournal.org>

B. List of Conferences

1. Pal, R. K. (2022). Professional commitment, teacher engagement and satisfaction in teaching: A study on secondary school. Paper presented in a national conference entitled “Vision for India@2047”, Organized by Sri S. Ramasamy Naidu Memorial College, Sattur, Sponsored by ICSSR, New Delhi, held between 23rd and 25th February, 2022.