



Government Degree College
Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



DEPARTMENT OF PHYSICS

MINI-PROJECT 2019-2020

TITLE :- WIND SPEED MEASUREMENT WITH ALTITUDE

PARTICIPANTS :- III B.Sc. (MPC & MPCs) STUDENTS

CONDUCTED DATE :- 29-12-2019 SUNDAY

**GUIDED BY :- Shri P. CHANDRA SEKHAR M.Sc.,
Lecturer in Physics,
Govt. Degree College, Paderu.**



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



INDEX

SL. NO.	TOPIC	PAGE NO.
1	INTRODUCTION	3
2	PROCESS TO MEASURE WIND SPEED WITH ALTITUDE	4
3	TAKING MEASUREMENTS	6
4	CONCLUSION	8
5	PHOTO GALLERY	9
6	FINAL WORD	14



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



INTRODUCTION

The **WIND MEASUREMENT** is a keen aspect for knowing the details of changes in weather for a local area. Generally, the local **INDIAN METEOROLOGICAL DEPARTMENT** issues the data about weather 2 times a day for day-to-day usage by the sectors like **aviation, navigation, shipping, etc.,**.

The measurement of wind is generally taken by **METEOROLOGICAL DEPT.,** using some instruments like Pilot balloon, Altimetry & Android Anemometers.

Here we used **BATTERY OPERATED WIND ANEMOMETER (DIGITAL)** to measure wind speeds at various heights. The air temperature is measured by using **THERMOMETER** (graded to 1° C)



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu.jkc@gmail.com.



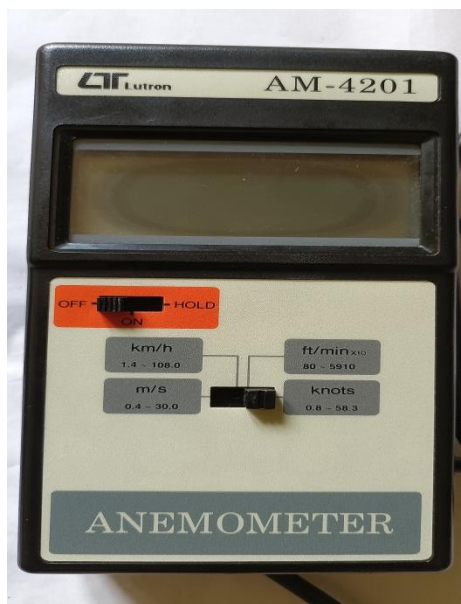
PROCESS TO MEASURE WIND SPEED WITH ALTITUDE

The instrument involved to measure wind speed with altitude is **DIGITAL ANEMOMETER**.

DIGITAL ANEMOMETER

Digital Anemometer consists of two main parts. Viz.,

- 1) Digital measurement box
- 2) Anemometer Wane Probe.





Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



Anemometer probe consists of a small fan attached to a speedometer chord which is kept in a plastic casing. The total probe is very light weight so as to hold it by hand with comfort. The chord is attached to measurement box which calculates the wind speed in various measuring units such as

Fpm, mps, kmph, knots etc.,.

The height is measured by using **ALTIMETER**. Students have constructed their own **ALTIMETER** by using a **METER SCALE** & a **HORIZONTAL BAR**. The bar is fixed normally to the scale.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



TAKING MEASUREMENTS



TAKING READINGS USING DIGITAL ANEMOMETER



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



The project was conducted in the beautiful location of **PADERU HILLS**. The hill chosen for this project connects **PADERU TOWN** to a remote village named **BARSINGI & DOKULURU**.

Students gathered at the foothill and took the initial readings of wind speed (with anemometer) & air temperature (with thermometer). Then they measured the height by **1m** uphill and took the next measurement.

Measurement of Altitude :-

A student will steadily place the meter scale normal to the ground level and gazes towards the front along the horizontal bar. Another student slowly walks in the forward direction and the student who watches over the bar carefully observes the forward moving student. When the feet of the student is clearly visible to the eye of the student who is gazing over the bar(at the edge of the horizontal bar) ...the student who is moving forward is made to stop. This is taken as **1 m altitude**.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.



The altitude measured in this method may not give a perfect altitude reading, but the innovative method used by the students is really appreciable.

Measurement of Wind Speed

When the **1 m** altitude position is marked on the ground surface, a student will hold the **wind wane probe** in one hand and the **digital measurement box** in another hand. The probe is placed along the direction of wind flow. The fan present in the probe rotates utilizing the wind force. A **10 second** count is given for the wind to pass through the fan of the probe. Then the **HOLD** button is pressed which is present on the measurement box and a fixed value of wind speed is displayed on the screen of the measurement box.

Measurement of Air Temperature

A thermometer is held with 2 fingers steadily nearly **5 feet** above the ground surface. The alcohol present in the bulb of the thermometer receives the warmth from the surroundings and gets heated and expands-up into the thin capillary tube. The reading of the



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



liquid present in the capillary tube is measured (corrected to 1⁰). The readings are tabulated.

The altitude, wind speed & air temperature are tabulated in the following format : -

Sl. No.	Altitude (meters)	Air Temperature (°c)	Wind Speed (in m/sec)
1	1	25	0.5
2	2	24	0.6
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



CONCLUSION

The mini project titled “**WIND SPEED MEASUREMENT WITH ALTITUDE**” clearly spotlights the fact that the winds around hilly regions are much cooler than the winds over plain areas where sunlight falls directly over vast land coverage. Whereas over hilly regions the sunlight intensity is less compared to plain areas.

This study about wind is highly recommendable to science aspirants which help them to gain knowledge about **OUR MOTHER NATURE**.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



PHOTO GALLERY





Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.





Government Degree College
Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.



FINAL WORDS

I am very much grateful to **Dr. N.S. KRISHNA GARU**, Principal **GOVERNMENT DEGREE COLLEGE, PADERU** for giving me permission to conduct a MINI PROJECT entitled **‘WIND MEASUREMENT WITH ALTITUDE’** and continuously monitoring our progress till the completion of our project.

I appreciate all the students of **III B.Sc. (MPC & MPCs)** who took part in this project & without their collective effort, this project cannot be completed.

I am also thankful to all my **colleagues** who directly or indirectly supported me for completion of this project.

SHRI. P. CHANDRA SEKHAR M.Sc.,



Government Degree College
Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.



DEPARTMENT OF PHYSICS

MINI-PROJECT 2020-2021

TITLE	:-	WIND SPEED MEASUREMENT WITH ALTITUDE
PARTICIPANTS	:-	III B.Sc. (MPC & MPCs) STUDENTS
DATE CONDUCTED	:-	01-02-2021
GUIDED BY	:-	Shri P. CHANDRA SEKHAR M.Sc., Lecturer in Physics, Govt. Degree College, Paderu.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



INDEX

SL. NO.	TOPIC	PAGE NO.
1	INTRODUCTION	3
2	PROCESS TO MEASURE WIND SPEED WITH ALTITUDE	4
3	TAKING MEASUREMENTS	6
4	CONCLUSION	8
5	PHOTO GALLERY	9
6	FINAL WORD	14



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



INTRODUCTION

The **WIND MEASUREMENT** is a keen aspect for knowing the details of changes in weather for a local area. Generally, the local **INDIAN METEOROLOGICAL DEPARTMENT** issues the data about weather 2 times a day for day-to-day usage by the sectors like **aviation, navigation, shipping, etc.,**.

The measurement of wind is generally taken by **METEOROLOGICAL DEPT.,** using some instruments like Pilot balloon, Altimetry & Android Anemometers.

Here we used **BATTERY OPERATED WIND ANEMOMETER (DIGITAL)** to measure wind speeds at various heights. The air temperature is measured by using **THERMOMETER** (graded to 1° C)



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu.jkc@gmail.com.



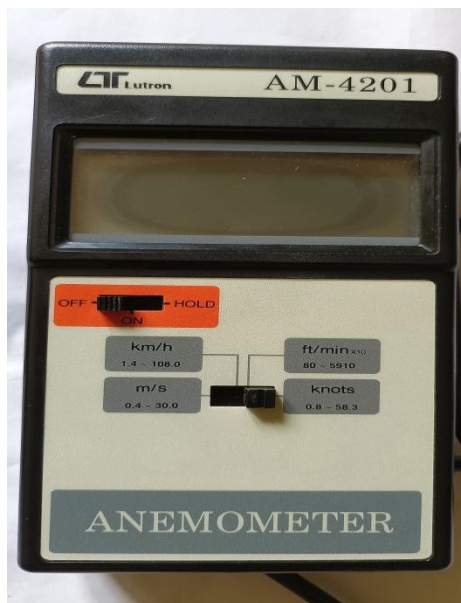
PROCESS TO MEASURE WIND SPEED WITH ALTITUDE

The instrument involved to measure wind speed with altitude is **DIGITAL ANEMOMETER**.

DIGITAL ANEMOMETER

Digital Anemometer consists of two main parts. Viz.,

- 1) Digital measurement box
- 2) Anemometer Wane Probe.



Anemometer probe consists of a small fan attached to a speedometer chord which is kept in a plastic casing. The total probe is



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



very light weight so as to hold it by hand with comfort. The chord is attached to measurement box which calculates the wind speed in various measuring units such as

Fpm, mps, kmph, knots etc.,.

The height is measured by using **ALTIMETER**. Students have constructed their own **ALTIMETER** by using a **METER SCALE** & a **HORIZONTAL BAR**. The bar is fixed normally to the scale.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



TAKING MEASUREMENTS



TAKING READINGS USING DIGITAL ANEMOMETER



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



The project was conducted in the beautiful location of **PADERU HILLS**. The hill chosen for this project connects **PADERU TOWN** to a remote village named **BARSINGI & DOKULURU**.

Students gathered at the foothill and took the initial readings of wind speed (with anemometer) & air temperature (with thermometer). Then they measured the height by **1m** uphill and took the next measurement.

Measurement of Altitude :-

A student will steadily place the meter scale normal to the ground level and gazes towards the front along the horizontal bar. Another student slowly walks in the forward direction and the student who watches over the bar carefully observes the forward moving student. When the feet of the student is clearly visible to the eye of the student who is gazing over the bar(at the edge of the horizontal bar) ...the student who is moving forward is made to stop. This is taken as **1 m altitude**.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.



The altitude measured in this method may not give a perfect altitude reading, but the innovative method used by the students is really appreciable.

Measurement of Wind Speed

When the **1 m** altitude position is marked on the ground surface, a student will hold the **wind wane probe** in one hand and the **digital measurement box** in another hand. The probe is placed along the direction of wind flow. The fan present in the probe rotates utilizing the wind force. A **10 second** count is given for the wind to pass through the fan of the probe. Then the **HOLD** button is pressed which is present on the measurement box and a fixed value of wind speed is displayed on the screen of the measurement box.

Measurement of Air Temperature

A thermometer is held with 2 fingers steadily nearly **5 feet** above the ground surface. The alcohol present in the bulb of the thermometer receives the warmth from the surroundings and gets heated and expands-up into the thin capillary tube. The reading of the



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



liquid present in the capillary tube is measured (corrected to 1^0). The readings are tabulated.

The altitude, wind speed & air temperature are tabulated in the following format :-

Sl. No.	Altitude (meters)	Air Temperature (0c)	Wind Speed (in m/sec)
1	1	25	0.5
2	2	24	0.6
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



CONCLUSION

The mini project titled **“WIND SPEED MEASUREMENT WITH ALTITUDE”** clearly spotlights the fact that the winds around hilly regions are much cooler than the winds over plain areas where sunlight falls directly over vast land coverage. Whereas over hilly regions the sunlight intensity is less compared to plain areas.

This study about wind is highly recommendable to science aspirants which help them to gain knowledge about **OUR MOTHER NATURE.**



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



PHOTO GALLERY





Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.





Government Degree College
Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu.jkc@gmail.com.



FINAL WORDS

I am very much grateful to **Dr. N.S. KRISHNA GARU**, Principal **GOVERNMENT DEGREE COLLEGE, PADERU** for giving me permission to conduct a MINI PROJECT entitled **‘WIND MEASUREMENT WITH ALTITUDE’** and continuously monitoring our progress till the completion of our project.

I appreciate all the students of **III B.Sc. (MPC & MPCs)** who took part in this project & without their collective effort, this project cannot be completed.

I am also thankful to all my **colleagues** who directly or indirectly supported me for completion of this project.

SHRI. P. CHANDRA SEKHAR M.Sc.,



Government Degree College
Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



DEPARTMENT OF PHYSICS

MINI-PROJECT 2021-2022

TITLE	:-	WIND SPEED MEASUREMENT WITH ALTITUDE
PARTICIPANTS :-		III B.Sc (MPC & MPCs) STUDENTS
DATE CONDUCTED :-		12- 02- 2022
GUIDED BY	:-	Shri P. CHANDRA SEKHAR M.Sc., Lecturer in Physics, Govt. Degree College, Paderu.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



INDEX

SL. NO.	TOPIC	PAGE NO.
1	INTRODUCTION	3
2	PROCESS TO MEASURE WIND SPEED WITH ALTITUDE	4
3	TAKING MEASUREMENTS	6
4	CONCLUSION	8
5	PHOTO GALLERY	9
6	FINAL WORD	14



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.



INTRODUCTION

The **WIND MEASUREMENT** is a keen aspect for knowing the details of changes in weather for a local area. Generally, the local **INDIAN METEOROLOGICAL DEPARTMENT** issues the data about weather 2 times a day for day-to-day usage by the sectors like **aviation, navigation, shipping, etc.,**.

The measurement of wind is generally taken by **METEOROLOGICAL DEPT.,** using some instruments like Pilot balloon, Altimetry & Android Anemometers.

Here we used **BATTERY OPERATED WIND ANEMOMETER (DIGITAL)** to measure wind speeds at various heights. The air temperature is measured by using **THERMOMETER** (graded to 1°C)



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



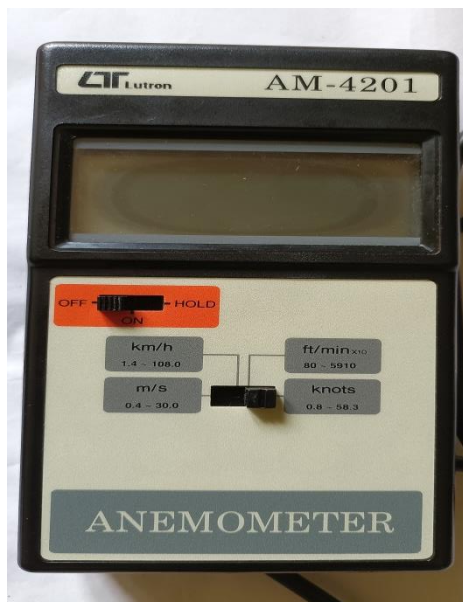
PROCESS TO MEASURE WIND SPEED WITH ALTITUDE

The instrument involved to measure wind speed with altitude is **DIGITAL ANEMOMETER**.

DIGITAL ANEMOMETER

Digital Anemometer consists of two main parts. Viz.,

- 1) Digital measurement box
- 2) Anemometer Wane Probe.





Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



Anemometer probe consists of a small fan attached to a speedometer chord which is kept in a plastic casing. The total probe is very light weight so as to hold it by hand with comfort. The chord is attached to measurement box which calculates the wind speed in various measuring units such as

Fpm, mps, kmph, knots etc.,.

The height is measured by using **ALTIMETER**. Students have constructed their own **ALTIMETER** by using a **METER SCALE** & a **HORIZONTAL BAR**. The bar is fixed normally to the scale.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu.jkc@gmail.com.



TAKING MEASUREMENTS



**ALTIMETER PREPARED BY STUDENTS
USING METERSCALE**



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.



The project was conducted in the beautiful location of **PADERU HILLS**. The hill chosen for this project connects **PADERU TOWN** to a remote village named **BARSINGI & DOKULURU**.

Students gathered at the foothill and took the initial readings of wind speed (with anemometer) & air temperature (with thermometer). Then they measured the height by **1m** uphill and took the next measurement.

Measurement of Altitude :-

A student will steadily place the meter scale normal to the ground level and gazes towards the front along the horizontal bar. Another student slowly walks in the forward direction and the student who watches over the bar carefully observes the forward moving student. When the feet of the student is clearly visible to the eye of the student who is gazing over the bar(at the edge of the horizontal bar) ...the student who is moving forward is made to stop. This is taken as **1 m altitude**.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



The altitude measured in this method may not give a perfect altitude reading, but the innovative method used by the students is really appreciable.

Measurement of Wind Speed

When the **1 m** altitude position is marked on the ground surface, a student will hold the **wind wane probe** in one hand and the **digital measurement box** in another hand. The probe is placed along the direction of wind flow. The fan present in the probe rotates utilizing the wind force. A **10 second** count is given for the wind to pass through the fan of the probe. Then the **HOLD** button is pressed which is present on the measurement box and a fixed value of wind speed is displayed on the screen of the measurement box.

Measurement of Air Temperature

A thermometer is held with 2 fingers steadily nearly **5 feet** above the ground surface. The alcohol present in the bulb of the thermometer receives the warmth from the surroundings and gets heated and expands-up into the thin capillary tube. The reading of the



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



liquid present in the capillary tube is measured (corrected to 1⁰). The readings are tabulated.

The altitude, wind speed & air temperature are tabulated in the following format :-

Sl. No.	Altitude (meters)	Air Temperature (°c)	Wind Speed (in m/sec)
1	1	25	0.5
2	2	24	0.6
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



CONCLUSION

The mini project titled “**WIND SPEED MEASUREMENT WITH ALTITUDE**” clearly spotlights the fact that the winds around hilly regions are much cooler than the winds over plain areas where sunlight falls directly over vast land coverage. Whereas over hilly regions the sunlight intensity is less compared to plain areas.

This study about wind is highly recommendable to science aspirants which help them to gain knowledge about **OUR MOTHER NATURE**.



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



PHOTO GALLERY



**TESTING THE WIND PROBE BEFORE THE ACTUAL
EXPERIMENT**



Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.





Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.





Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.





Government Degree College Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08935 250013

Email.ID :paderu,jkc@gmail.com.



STUDENTS WHO PARTICIPATED IN THIS MINI PROJECT





Government Degree College
Affiliated to Andhra University

(Upgraded to Model Degree College under RUSA 2.0)

Paderu, Alluri Sitharama Raju - District, AP.

Est:1985 NAAC "C" Grade phone no: 08985 250013

Email.ID :paderu,jkc@gmail.com.



FINAL WORDS

I am very much grateful to **Dr. V. CHITTABBAI GARU**, Principal **GOVERNMENT DEGREE COLLEGE, PADERU** for giving me permission to conduct a MINI PROJECT entitled **‘WIND MEASUREMENT WITH ALTITUDE’** and continuously monitoring our progress till the completion of our project.

I appreciate all the students of **III B.Sc. (MPC & MPCs)** who took part in this project & without their collective effort, this project cannot be completed.

I am also thankful to all my **colleagues** who directly or indirectly supported me for completion of this project.

SHRI. P. CHANDRA SEKHAR M.Sc.,