

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5646796°

Longitude

79.9888076°

Local 11:44:29 AM

GMT 06:14:29 AM

Altitude -85.599998 meters

Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.563957°

Longitude

79.9887678°

Local 11:43:31 AM

GMT 06:13:31 AM

Altitude 0 meters

Tuesday, 06-10-2020



BENEFITS AND FUTURE SCOPE:

- The technique provides larger benefits when the number of parallel filters is large.
- The proposed scheme can also be applied to the IIR filters. Future work will consider the evaluation of the benefits of the proposed technique for IIR filters.
- The extension of the scheme to parallel filters that have the same input and different impulse responses is also a topic for future work.

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5643918°

Longitude

79.9887994°

Local 11:30:48 AM

GMT 06:00:48 AM

Altitude -78.5 meters

Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5640728°

Local 11:57:04 AM

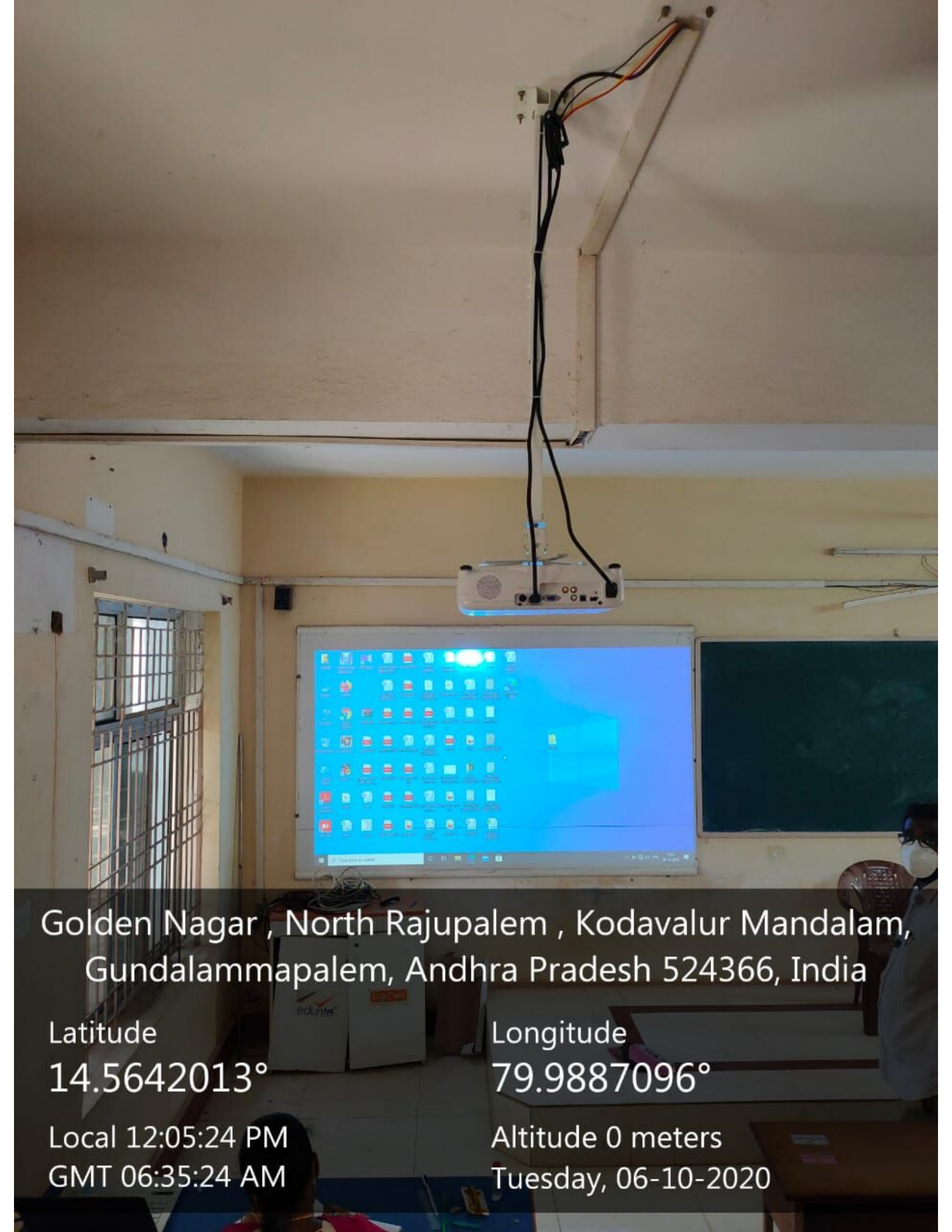
GMT 06:27:04 AM

Longitude

79.9887228°

Altitude -56.100002 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5642013°

Longitude

79.9887096°

Local 12:05:24 PM

GMT 06:35:24 AM

Altitude 0 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5645082°

Longitude

79.9887434°

Local 11:33:35 AM

GMT 06:03:35 AM

Altitude 0 meters

Tuesday, 06-10-2020



1679 - 1702 (24)
1476 - 1499 (24)



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5643724°

Longitude

79.9886716°

Local 12:16:12 PM

GMT 06:46:12 AM

Altitude -65.300003 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5642786°

Longitude

79.9887067°

Local 11:23:38 AM

GMT 05:53:38 AM

Altitude -65.300003 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5645874°

Longitude

79.9887762°

Local 11:16:57 AM

GMT 05:46:57 AM

Altitude 0 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5644574°

Longitude

79.988708°

Local 11:20:00 AM

GMT 05:50:00 AM

Altitude 0 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5640614°

Longitude

79.9887502°

Local 11:27:39 AM

GMT 05:57:39 AM

Altitude -72.200005 meters

Tuesday, 06-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5645235°

Longitude

79.9887365°

Local 11:36:23 AM

GMT 06:06:23 AM

Altitude 0 meters

Tuesday, 06-10-2020

INTRODUCTION :

- Digital filters are widely used in signal processing and communication systems.
- In some cases, the reliability of those systems is critical, and fault tolerant filter implementations are needed.
- As technology scales, it enables more complex systems that incorporate many filters. In those complex systems, it is common that some of the filters operate in parallel.

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5641849°

Local 12:07:41 PM

GMT 06:37:41 AM

Longitude

79.9888045°

Altitude -74.599998 meters

Sunday, 18-10-2020

BENEFITS AND FUTURE SCOPE:

- The technique provides larger benefits when the number of parallel filters is large.
- The proposed scheme can also be applied to the IIR filters. Future work will consider the evaluation of the benefits of the proposed technique for IIR filters.
- The extension of the scheme to parallel filters that have the same input and different impulse responses is also a topic for future work.

Room - 9

AV 200909001537 - 1582 (24)

AV 200909001356 - 1379 (24)

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5644859°

Longitude

79.9887532°

Local 11:38:04 AM

GMT 06:08:04 AM

Altitude -83.599998 meters

Sunday, 18-10-2020

- An interesting property for these parallel filters is that the sum of any combination of the outputs $y_i[n]$ can also be obtained by adding the corresponding inputs $x_i[n]$ and filtering the resulting signal with the same filter $h[l]$.

$$y_1[n] + y_2[n] = \sum_{l=0}^{\infty} (x_1[n-l] + x_2[n-l]) \cdot h[l] \quad (2)$$

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5646628°

Longitude

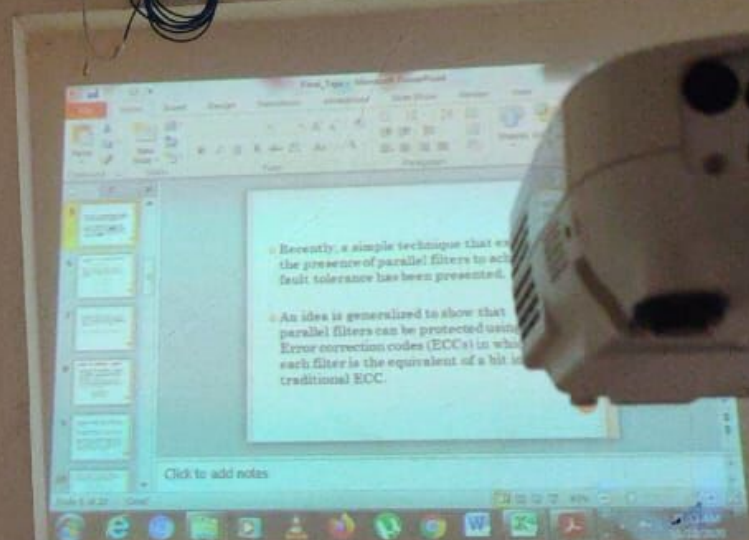
79.9887572°

Local 12:13:41 PM

GMT 06:43:41 AM

Altitude -85.599998 meters

Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5647217°

Local 11:13:28 AM

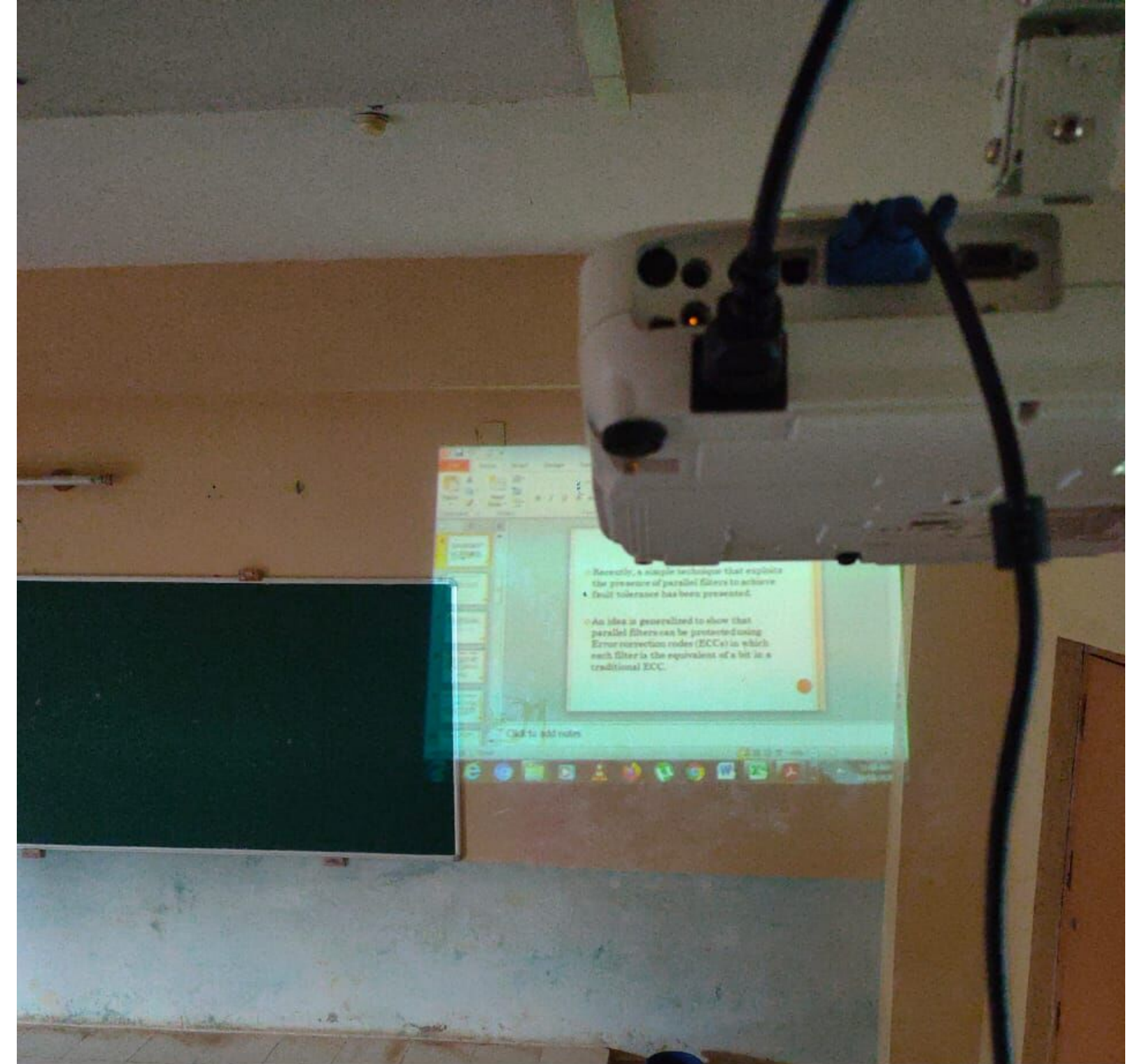
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Longitude

79.9887857°

Altitude -85.5 meters

Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5646657°

Longitude

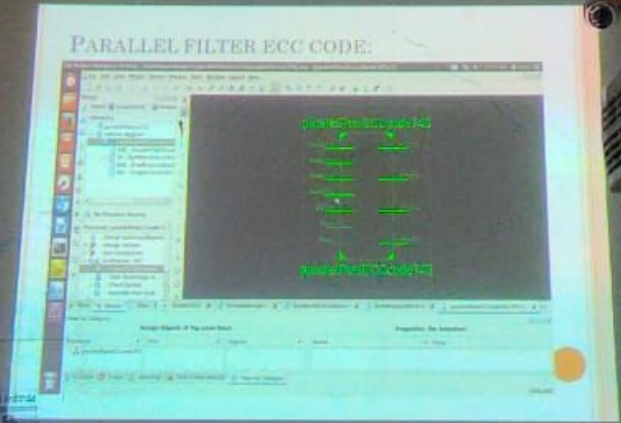
79.988795°

Local 11:09:01 AM

GMT 05:39:01 AM

Altitude -85.599998 meters

Sunday, 18-10-2020



Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5646677°

Longitude

79.9887299°

Local 11:56:59 AM

GMT 06:26:59 AM

Altitude -85.5 meters

Sunday, 18-10-2020

01511 - 1534 (24)
001302 - 1331 (24)

BENEFITS AND FUTURE SCOPE

- The technique provides larger benefits when the number of parallel filters is large.
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- The extension of the scheme to parallel filters that have the same input and different impulse responses is also a topic for future work.



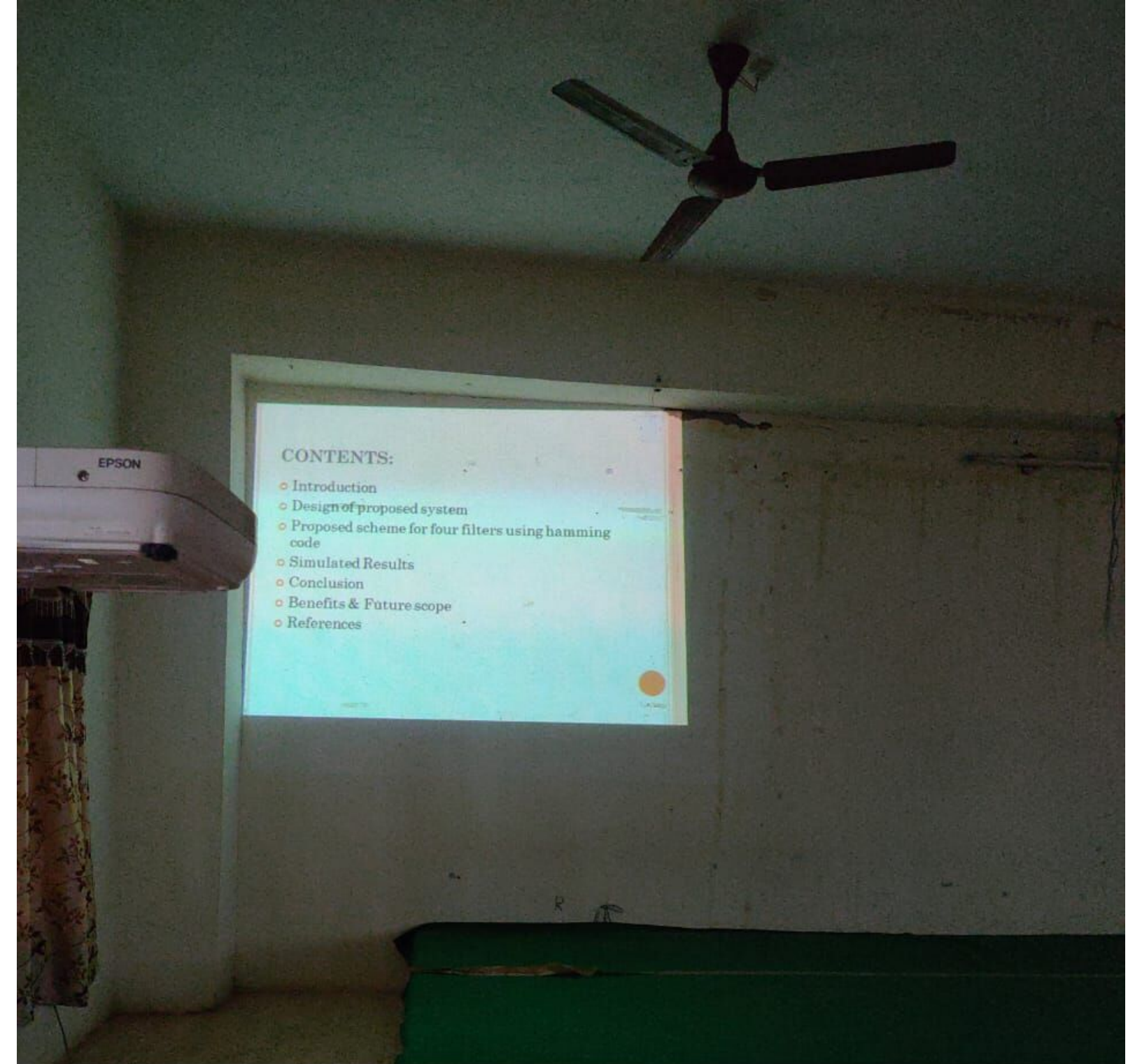
Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude
14.5644888°

Longitude
79.9887561°

Local 11:35:06 AM
GMT 06:05:06 AM

Altitude -85.5 meters
Sunday, 18-10-2020



CONTENTS:

- Introduction
- Design of proposed system
- Proposed scheme for four filters using hamming code
- Simulated Results
- Conclusion
- Benefits & Future scope
- References

Golden Nagar , North Rajupalem , Kodavalur Mandalam,
Gundalammapalem, Andhra Pradesh 524366, India

Latitude

14.5647608°

Longitude

79.9886645°

Local 12:00:32 PM

GMT 06:30:32 AM

Altitude -85.5 meters

Sunday, 18-10-2020