

**IN THE COURT OF PRINCIPAL DISTRICT  
AND SESSIONS/SPECIAL JUDGE, UDUPI**

**CASE No: Spl.Case 58/2021 PW: 10**

**CW: 13**

Name of the Witness : Venkatesh G.N.  
Husband Name : Nana Rao  
Age : 38 Years  
Occupation : Senior Scientific Officer, RFSL, Hubli  
Address : Hubli

**Evidence recorded through VC**

Duly sworn on 04-04-2025.

**Chief examination by: Spl Public Prosecutor.**

1) From 2014 to 2021 I worked as Scientific Officer and Senior Scientific Officer at FSL Bengaluru.

While issuing a certificate in Crime No.3/2019 of ACB, Udupi, I was serving as Senior Scientific Officer, in F.S.L, Bengaluru.

2) I have undergone 14<sup>th</sup> foundation course in Forensic Science at NICFS, New Delhi in 2014 and at Bengaluru. I am regularly attending online Courses and workshops conducted by National Forensics University Gujrat.

3) On 24-05-2019, our office received sealed articles from Anti Corruption Bureau, Udupi Police Station, in Crime No.03/2019 through PC-1207 (CW-17) with a requisition for scientific examination and report. On examination, I found seals on the articles were intact and tallied with sample seal. The description found on the articles corresponds to that of those present in the invoice.

**MATERIALS EXAMINED**

Sl.No	Description of Article/s	IO Marking
1	One DVD said to contain conversational speeches of complainant and accused copied from mobile phone.	Article No. 1
2	One CD said to contain conversational speeches of complainant and accused recorded using voice recorder	Article No.13
3	One Cd said to contain sample speeches of accused Sri Ramesh Manjunath Vernekar recorded using voice recorder	Article No.21
4	One CD said to contain sample speeches of accused Sri Munaaf recorded using voice recorder	Article No.22

**Method of analysis**

**PACKING: paper cover**

**1. Visual Observation:**

**Article number 1:** One Sony DVD-R bearing serial number MFP639WJI5221570, writing on DVD read as “ACB PS Udupi Cr No.03/2019, U/s 7 P.C Act (Amendment) 1988, Article 1.

**Article Number 13:** One SONY CD-R bearing serial number D3121VL30200874LH, writing on CD read as “ACB PS Udupi Cr No. 03-2019, U/s 7 P.C. Act (Amendment) 1998, Trap voice Record.

**Article Number 21:** One SONY CD-R bearing serial number D121VL30200878LH, Writing on CD read as “ACB PS Udupi Cr No. 03-2019, U/s 7, 12 PC Act (Amendment) 1998.

**Article Number 22:** One SONY CD-R bearing serial number C31212VL3022044ILH, Writing on CD read as “ACB PS Udupi Cr No. 03-2019, U/s 7, 12 PC Act (Amendment) 1998.

**SAMPLING:**

The audio recordings found in CD's and DVD were copied. The analysis were done on copied data. The audio file format is converted to wave file format using free make audio converter software 1.1.9. Then the digital speech signals are analyzed using Computerized Speech Laboratory Model -4500 instrument. The speech samples are sampled at 8 KHz using down sampling.

**Methods of Speech Comparison:**

**3. Auditory analysis: Perception/Listening/Aural**

**Article Number 1:** The DVD contain one audio file. In audio file namely IMG\_6313(1) has conversational speeches of more than three male speakers said to be complainant and accused. The conversational speeches are in Kannada, English and Unknown language. Before conversational speeches vehicular noises perceived. The conversational speeches of accused's and complainant starts perceived for an audio duration (10.15-11.37 sec). The speech words in IO sent transcribed copy perceived. Accused male speaker said to be of Sri. Ramesh Manjunath Vernekar says: ಅಲ್ಲಲ್ಲ ರಿಫಂಡ್ ಕೇಳ್ತಾರೆ" (183.84-186.16 sec) “ಇನ್ನುರೆನ್ಸ್ ಅಮೌಂಟ್ ರಿಫಂಡ್ ಅಲ್ಲಂದಾನೆ ಬರೋದು" (186.97-189.87 sec). Accused male speaker said to be of Sri. Munaaf says: “ ಏತುಂಡು ಸರ್" (343.45-344.31 sec), “ ವರ್ಜೇಕರ್ " (356.56-357.09 sec). Perceived words said to be of accused's were separately transcribed and sufficient clear production of vowels in uttered words were selected for analysis.

**Article Number 13:** The CD contain one audio file. The audio file namely 190316\_0155 has conversational speeches of three male speakers male and one female speaker said to be of complainant and accused. The conversational speeches are in Kannnda, English and Unknown language. The speech words in IO sent transcribed copy perceived. Accused male speaker said to be of Sri. Ramesh Manjunath Vernekar says : “ ಕೈಗೆ ಸಿಗುವುದಿಲ್ಲ ಅದು ಅಕೌಂಟಿಗೆ ಹೋಗಿ ಆಮೇಲೆ ತೆಗೆಬಹುದು ” (1812.53-1814.30 Sec) Accused male speaker said to be of Sri Munaaf says: “ಫೋನ್ ಮಾಡಿದರಾ ಅವರು” (1033.85-1035.30sec). Accused and IO conversational speeches perceived. Perceived words said to be of accused’s were separately transcribed and sufficient clear production of vowels in uttered words were selected for analysis.

**Article Number 21:** The CD contains six audio files. The audio files contains read speeches said to be of accused male speaker Sri Ramesh Manjunath Vernekar. The speeches are in Kannada and English Language. Accused male speaker said to be of Sri Ramesh Manjunath Vernekar says: “ ಅಲ್ಲ ರೀಫಂಡ್ ಕೇಳಾರೆ”, “ ಇನ್ಸುರೆನ್ಸ್ ಅಮೌಂಟು ರೀಫಂಡ್ ಅಲ್ಲಂದಾನೆ ಬರೋದು” and “ಕೈಗೆ ಸಿಗುವುದಿಲ್ಲ ಅದು ಅಕೌಂಟಿಗೆ ಹೋಗಿ ಆ ಮೇಲೆ ತೆಗೆಬಹುದು” in all six audio files. The speeches are read once in six audio files. The speech words in transcript and copy perceived and considered for further analysis.

**Article Number 22:** The CD contains six audio files. The audio files contains read speeches said to be Accused male speaker Sri Munaaf. The speeches are in Kannada, English and Unknown Language. Accused male speaker said to be of Sri.Munaaf says: “ಏತುಂಡು ಸರ್”, “ ವರ್ನೀಕರ್ ” and “ ಫೋನ್ ಮಾಡಿದರಾ ಅವರು ” in all six audio files. The speeches are read once in six audio files. The

speech words in transcript copy perceived and considered for further analysis.

The respective speeches said to be accused male speaker Sri Ramesh Manjunath Vernekar and accused male speaker Sri Munaaf were separately segregated from questioned and sample recordings and stored on to the computer for further analysis.

The perceptual evaluation of respective segregated speeches of accused's male speakers said to be of Sri. Ramesh Manjunath Vernekar and Sri. Munaaf from questioned and sample recordings are similar with respect to fluency, speaking style and accent.

#### **4. FEATURE EXTRACTION METHOD:**

Cepstrum represents source characteristics of speech sounds. The vowels in similar words were selected from segregated speeches of questioned and sample recordings of male speakers. The digitized speech signals were analyzed using Fast Fourier Transform algorithm for cepstrum feature extraction of vowel speech sound in a selected word. Similarities were observed in cepstral peak for vowels in similar words selected from questioned and sample recordings.

#### **OPINION**

Comparison of speeches based in auditory and feature extraction methods has revealed that:

1. The respective speeches said to be of accused male speaker Sri Ramesh Manjunath Vernekar sound recorded in DVD marked as article number 1 and respective speeches said to be of

Sri Ramesh Manjunath Vernekar found recorded in CD marked as article number 13 are similar and belongs to same male speaker.

2. The respective speeches said to be accused male speaker Sri.Ramesh Manjunath Vernekar found recorded in DVD marked as article number 1, CD marked as article number 13, sample speeches found recorded as in CD marked as article number 21 are similar and belongs to same male speaker.

3. The sample speeches said to be of accused male speaker Sri Ramesh Manjunath Vernekar found recorded in CD marked as article number 21 are natural flow of speeches.

4. The respective speeches said to be of accused male speaker Sri Munaaf found recorded in DVD marked as article number 1 and respective speeches said to be of Sri Munaaf found recorded in CD marked as article number 13 are similar and belongs to same male speaker.

5. The respective speeches said to be of accused male speaker Sri Munaaf found recorded in DVD marked as articles number 1, CD marked as article number 13, sample speeches found recorded in CD marked as article number 22 are similar and belongs to same male speaker.

6. The sample speeches said to be of accused male speaker Sri.Munaaf found recorded in CD marked as article number 22 are natural flow of speeches.

4) Accordingly, I issued Report. The Report now shown to me is the same. It bears my signature. The same is marked as **Ex.P.35** and signature of the witness is marked as **Ex.P.35 (a)**.

5) After conducting examination and issuing my opinion, I had resealed the articles and returned to the I.O with sample seal. Now I see the sample seal and same is marked as **Ex.P.36** and signature of the witness is marked as **Ex.P.36 (a)**.

6) Findings of audio recordings examination are the part of my report. They are in 9 sheets accompanied by my certificate issued under Section 65(B) of Indian Evidence Act. Those findings along with 65(B) certificate are marked at **Ex.P.37** and signature thereon is marked as **Ex.P. 37 (a)**.

**Cross-examination by:** Sri. A.B.H. Advocate for Accused: Deferred as time sought.

Re examination: Nil.

(Dictated and typed in open court)

R.O.I. & A.C

Sessions Judge/Special Judge,  
Udupi.

