

CDTI CHANDIGARH E-Newsletter



Bureau of Police Research & Development, MHA

Vol.1, No.11, Oct to Dec, 2022



From the Director's Desk



It gives me immense satisfaction that the editorial board of CDTI Chandigarh is successfully bringing out Quarterly e-Newsletters of the Institute for the last more than two years. CDTI Chandigarh conducts training modules for middle levels in-service Police officers related to all aspects of police working and investigation. The modules are designed with the objective of updating the knowledge of participating officers and making them aware about all latest case laws, rulings, SOP's and trends apart from sensitizing them about scientific aids to investigation and importance of soft skills. Not only police officers from all over the country but police officers from SAARC countries also regularly come for various training programmes to the institute. Since 2018 CDTI Chandigarh started conducting training programmes for Judicial officers & Prosecutors too and it is a matter of pride that such training courses have been always highly rated by the participants. We have experts from different fields associated with us and it is our continuous endeavour to provide quality inputs to participating officers.

The e-Newsletter helps us to reach out to the stakeholders and keep them informed about the course and other activities being undertaken at the institute. I look forward to suggestions from readers to make the training modules better and more enriching.

JAI HIND

RANI BINDU SACHDEVA, IPS
DIRECTOR
CDTI CHANDIGARH

From the Editor's Desk



Warm greetings to the readers. I am glad to present the 4th edition of the E-Issue (Oct to Dec)of CDTI Chandigarh Newsletter for the year 2022.

During this quarter, CDTI Chandigarh successfully conducted Eighteen (18) training programs including Offline & Online courses/ webinars for Police Officers, Judicial officers & Prosecutors and Administrative Officers, on the different topics concerning Organized Crimes, Scientific aids to Investigation, Cyber Crime cases, Cases related to Women Safety and POCSO Act., Wild life offences and Financial Frauds and many more. It was fulfilling to see the healthy participation of the trainee officers in the training programs both online and offline.

This Newsletter consist of sections depicting all the events during this period including Training program, Field visits, Community sensitization programs and other events celebrated at CDTI Chandigarh. This issue also showcases the glimpses of 49th foundation day of CDTI Chandigarh, visits of dignitaries and achievements of the Staff.

We are hereby presenting you these memorable experiences. I would also like to take this opportunity to thank the contributors of this Newsletter and to the Director CDTI Chandigarh, Ms. Rani Bindu Sachdeva, IPS, for her continuous guidance and support. I hope you enjoy this edition & provide us with your valuable feedback.

JAI HIND

SONAL, Dy.SP CDTI CHANDIGARH

DETAILS OF COURSES/WEBINAR CONDUCTED AT CDTI, CHANDIGARH W.E.F. Oct to Dec, 2022

S/No.	Name of Course	Duration	Nos. of Participants
01	Offline course on 'Use of Videgraphy/Photography at the scene of crime during the Investigation'	10.10.22 to 12.10.22	30
02	Physical Mode course on Mobile Forensics	17.10.22 to 21.10.22	33
03	Webinar on 'Cyber Crime Awareness & emerging trends' for police officers	19.10.22	52
04	Physical Mode short duration course on 'Use of Videography/ Photography of scene of crime'	26.10.22 to 28.10.22	30
05	Physical Mode course on 'Capacity building for Women Police officer'	31.10.22 to 04.11.22	13
06	Physical Mode Course on 'Investigation of NDPS Cases.	07.11.22 to 11.11.22	36
07	Physical Mode Course on 'Investigation of Cyber Crime cases & use of Dark Web and Crypto Currency.	14.11.22 to 18.11.22	32
08	Physical Mode course on 'Investigation of Crime against Children (NCPCR) & Women	21.11.22 to 25.11.22	18
09	01 day Regional seminar on "Cyber hygiene and safe use of Cyber space" (NCC Cadets – Girls)	22.11.22	80
10	Webinar on 'Ethical Values for effective police working for police officers	23.11.22	39
11	DSI Physical Mode course on 'Investigation of Economic Crime cases'	28.11.22 to 09.12.22	15
12	03 days Online course on 'Sensitization of Police Personnel on the implementation of provisions mentioned in transgender persons (Protection of Rights) Act 2019 & Rule 2020	29.11.22 to 01.12.22	38
13	Online 03 days Cyber Crime awareness training program for police officers	06.12.22 to 08.12.22	49
14	Physical Mode course on 'Collection & Preservation of Digital Evidence	12.12.22 to 16.12.22	25
15	Physical Mode course on 'Investigation of Crime against Children & Juvenile Justice.	19.12.22 to 23.12.22	34
16	Webinar on 'Use of Technology in prison administration' for Prisons officers	21.12.22	41
17	DSI Physical Mode Course on 'Investigation of Cyber Crime cases	26.12.22 to 06.01.23	24
18	03 days online training program on 'Gender Sensitization for the Police Personnel (NCW)	27.12.22 to 29.12.22	40
		TOTAL	629

Course Calendar w.e.f. Jan'2023 to Mar, 2023 in r/o CDTI, Chandigarh

S/No.	Name of Course	Duration
01	03 days' Specific Online Course for SIC Police Officers of Arunachal	04.01.23 to 06.01.23
	Pradesh on 'Handling of Digital Evidence in cases of Economic Offences	
	and Corruption cases'	
02	Physical Mode Investigation of Organised Crime.	09.01.23 to 20.01.23
03	Online Short duration Course on Law & Order & Management of VIP Security.	17.01.23 to 19.01.23
04	Physical Mode Training programme for Prosecutors on Women Safety.	23.01.23 to 27.01.23
05	Webinar on 'Cyber Crime Awareness' for Judicial officers & Prosecutors	24.01.23
06	Physical Mode Course on Stress Management and Wellness for Police Officers.	30.01.23 to 03.02.23
07	Physical Mode Course on Investigation of Organised Crime.	06.02.23 to 10.02.23
08	DSI Physical Mode Course on Investigation of Economic Crime Cases.	13.02.23 to 24.02.23
09	Online Short duration course on Investigation of Rape Cases.	14.02.23 to 16.02.23
10	Webinar on 'Use of Drone technology for criminal activities & its counter use for surveillance' for police officers.	20.02.23
11	Physical Mode 03 days' Cyber Crime Awareness Training programme for Police Officers.	22.02.23 to 24.02.23
12	DSI Physical Mode Course on Investigation of Road Accident Cases	27.02.23 to 03.03.23
13	Physical Mode Course on Inculcation of Soft Skills.	06.03.23 to 10.03.23
14	Physical Mode Course on 'Use of Drone technology in Law Enforcement and Police Investigation.	13.03.23 to 17.03.23
15	Webinar on 'NARCO Terrorism and role of CPOs in countering it' for CPOs officers	15.03.23
16	Physical Mode Course on Investigation of Organised Financial Crimes and Money Laundering Crimes.	26.03.23 to 24.03.23
17	Physical Mode Short duration course on Internal Security Challenges & use of technology for meeting these challenges and Border Surveillance for CPOs	27.03.23 to 29.03.23

SOCIAL INITIATIVES BY CDTI

OUR CYBER FACULTY SH. GURCHARAN SINGH, DURING A TALK ON CYBER AWARENESS AT GOVT MODEL SENIOR SECONDARY SCHOOL SECTOR 16 CHANDIGARH, DEC'2022





Our Cyber Faculty Sh. Gurcharan Singh, during an Orientation session organized by Chd Police to celebrate National Cyber Security Month,

UT police holds orientation for cyber interns

Chandigarh: The UT police Tuesday organised an orientation session for cyber interns to celebrate National Cyber Security Month at S D College. About 450 cyber interns attended the orientation. DGP Praveer Ranjan inaugurated the orientation session. Central Detective Training Institute cyber expert Gurcharan Singh delivered a lecture about various cyber crimes like financial frauds, easy loan apps, calls from people immigration or electricity department authorities, etc.

Indian Express Dt:12.10.2022

A SESSION ON CYBER HYGIENE FOR NCC STUDENTS CONDUCTED AT CDTI CHANDIGARH BY MS. POOJA CHAUDHARY, DY.SP, NOV'2022



OUR CYBER FACULTY SH. GURCHARAN SINGH DELIEVERING A SESSION ON CYBER SAFETY AT GOVT MODEL SENIOR SECONDARY SCHOOL SECTOR-33 CHANDIGARH, DEC'2022





SH. NAND KISHORE, DY.SP, CONDUTED A WORKSHOP ON CYBER HYGIENE AT SVKM'S NMIMS DEEMED UNIVERSITY, NEW CHANDIGARH CAMPUS, NOV'2022

TRAINING COURSES @ CDTI



Course on Mobile Forensics held in Oct'2022



SIMULATION EXERCISE DURING THE COURSE ON "USE OF VIDEOGRAPHY/ PHOTOGRAPHY OF SCENE OF CRIME" IN OCT'2022







SH. KULDEEP CHAHAL, IPS, SSP CHANDIGARH DURING THE VALEDICTORY SESSION

COURSE ON "CAPACITY BUILDING FOR WOMEN POLICE OFFICERS" IN NOV'2022



SH. J P SINGH, IPS, IGP, HIMACHAL PRADESH DELIEVERD A TALK ON VARIOUS ASPECTS OF CAPACITY BUILDING.



SIMULATION EXERCISE TO LIFT THE EVIDENCES FROM THE SCENE OF CRIME

SH. ANANYA GAUTAM, IG, FIU, MOHALI PUNJAB, DURING THE VALEDICTORY SESSION IN THE COURSE ON "INVESTIGATION OF NDPS CASES" NOV'2022





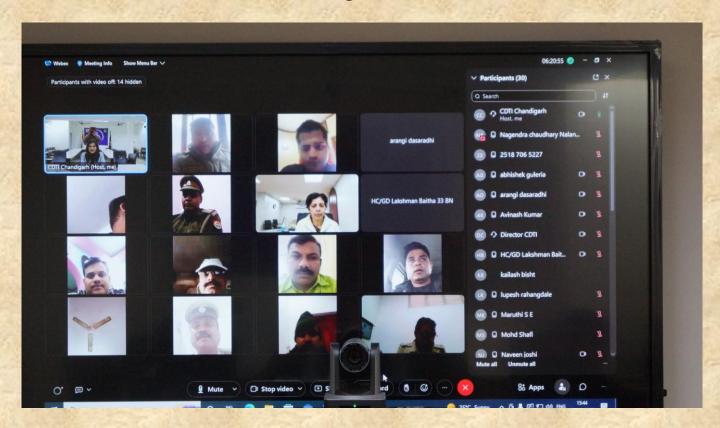
SH. M.S RAWAT, ADG ITBP & SH. ASHOK TIWARI, IPS, IG, ITBP DURING THE VALEDICTORY SESSION IN THE COURSE ON "INVESTIGATION OF CRIME AGAINST CHILDREN & JUVENILE JUSTICE" IN DEC'2022





ONLINE TRAINING GOURSES @ GDTI

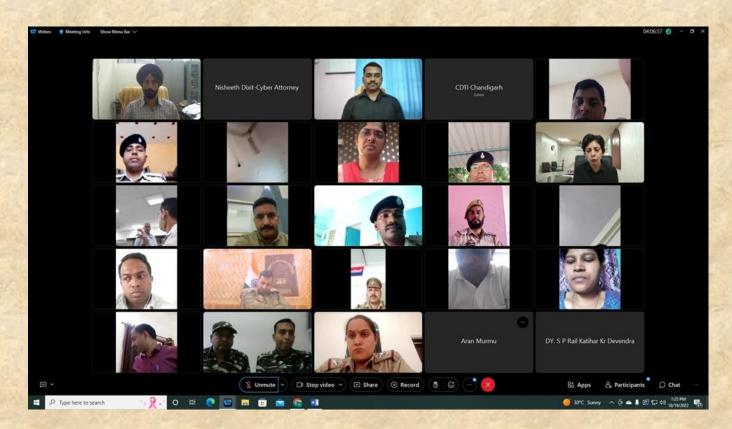
Sensitization of Police Personnel on the provisions mentioned in Transgender Persons (Protection of Rights) Act, 2019, in Nov'2022



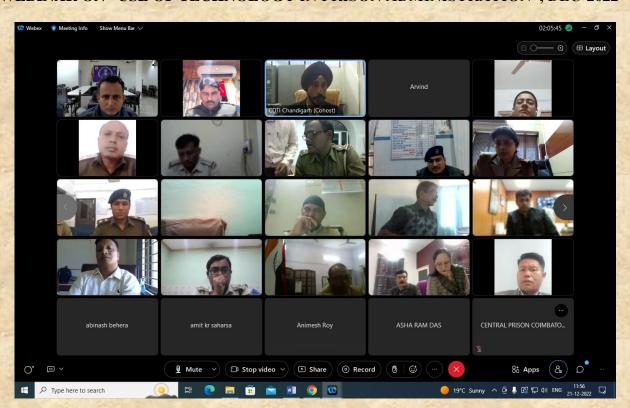


MX DHANANJAY CHAUHAN, TRANSGENDER WELFARE BOARD, CHANDIGARH ALSO DEVLIEVERD A SESSION DURING THE COURSE

WEBINAR ON "CYBER CRIMES AWARENESS AND EMERGING TRENDS" IN OCT'2022



WEBINAR ON "USE OF TECHNOLOGY IN PRISON ADMINISTRATION", DEC'2022

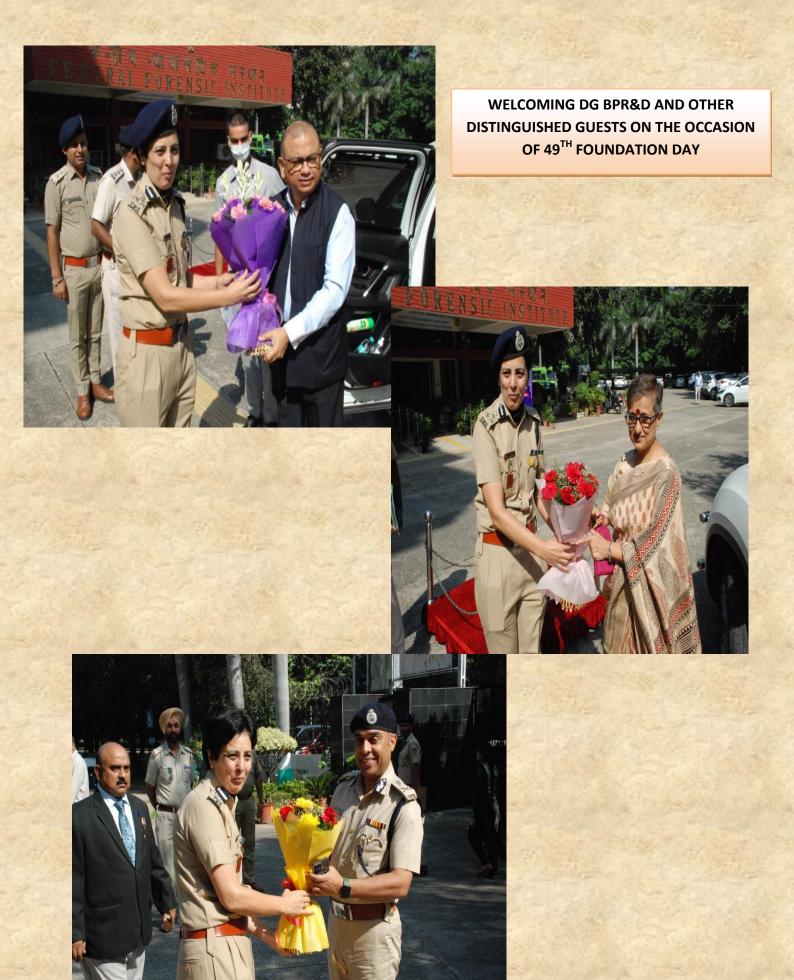


Some Glimpses of 49th Foundation day celebrated at CDTI Chandigarh on 03.10.22





PRESENTATION OF GUARD OF HONOUR TO SH. BALAJI SRIVASTAVA, IPS, DG BPR&D





SH. PRAVEER RANJAN, IPS, DGP CHANDIGARH DURING 49TH FOUNDATION DAY AT CDTI CHANDIGARH



SH. BALAJI SRIVASTAVA, IPS, DG BPR&D, ENLIGHTENING THE LAMP ON THE OCCASION OF 49TH FOUNDATION DAY



Himachal Pradesh Police orchestra "Harmony of Pines" performed on the foundation day at CDTI Chandigarh



Members of orchestra "Harmony of Pines" awarded with DGs DISC & Commendation Certificate

Staff of CDTI Chandigarh awarded with DGs Disk and CC during the foundation day.





Sh. Amardeep, Dy.SP, (Left) and Sh. Gurcharan Singh, Cyber Faculty, CDTI Chandigarh (Right) awarded with DG's Disc and Commendation certificates



Ms. Seema Dhawan, UDC, CDTI Chandigarh awarded with DG's Disc and Commendation certificates

Remembering and Honouring the brave Heroes of the Nation



"Rashtriya Ekta Divas" on 31.10.2022



"Police Commemoration Day" on 21.10.2022

Detection and Prevention of Malware Attacks on Mobile Phone Device

Mobile malware is a malicious software specifically designed to target mobile devices such as smart phones and tablets with the intention to gain the access to the private data of the user. As large size of users is now using mobile phone devices instead of desktop computers, the criminals and fraudsters are now targeting the mobile phone devices to steal the private information. As wireless phones and PDA networks have become more and more common and grown in complexity, it has become very difficult to ensure their safety and security against the vulnerabilities arising out of viruses and malware attacks.

Common Types of Mobile Malware Attacks
Following are the most common mobile malware
attacks:-

Adware

Adware also known as "spam" delivers unsolicited malicious advertisements, which lead to hampering the performance of the devices and also prompt users to download more harmful types of malware.

Viruses

A mobile phone virus is a malicious program that targets Mobile Phone devices. On virus infection, a mobile phone can become a source for spreading the virus by transmitting messages or link to other vulnerable devices thereby replicating the virus on other devices on click or download.

Worms

A worm is a type of malware that infects other devices while remaining active on infected systems. Unlike viruses, worms do not need human action to spread once they are in a network or system.

Trojans

Trojan malware is a file, program, or piece of code that appears to be legitimate and safe, but is actually malware. Trojans are generally bind inside legitimate software and crafted to spy on victim's device or steal data.

Bots

A bot is a software program that performs an automated task without requiring any user's interaction. Bots can execute attacks much faster than humans ever could. A device with a bot infection can spread the bot to other devices which is known as botnet. This network of bot-compromised machines can then be controlled and used to launch massive attacks such as DDoS attacks or brute force attacks; often without the device owner being aware of its role in the attack.

Ransomware

Ransomware is the most common form of malware which encrypts data in the devices and holds it for ransom. If the ransom is not paid within the



stipulated deadline, the cyber criminals threatens to delete the same or expose it on the cyber space especially dark web.

Spyware

Installed as a program on your device spyware is capable of monitoring your activities, location and data and also steals sensitive information like passwords, usernames, and email accounts. In many cases, spyware looks like a legitimate application, work silently in the background and quietly collect data. Even such spywares never get noticed till the device performance is degraded and the anti-malware scanner is run on the device.

Rootkits

Rootkits are malware that stealthily achieve their objective by modifying operating system code and data and install malware or use devices as a source of a botnet to circulate spam on other devices and lead to DDoS.

Symptoms of Malware Attacks on the Mobile Phone devices, Following are the symptoms of malware attacks on your smartphone devices: -

Device symptoms

The device is performing slower than usual.

Phone battery started to drain faster.

Phone getting overheat.

Long loading time.

Increase in data usage

Your device isn't receiving any new OS updates.

A significant, unexpected decrease in storage space on your device

Browser symptoms

Frequent pop-up ads and will not go away.

Unwanted Chrome extensions or toolbars keep coming back.

Your browsing seems out of your control, and redirects to unfamiliar pages or ads

Your Chrome homepage or search engine keeps changing without your permission

Unusual behaviour of Applications

You see apps on your phone that you haven't used or downloaded before.

Your contacts in the address book have suddenly started receiving emails or social media messages from you, but you didn't send the same.

Prevention against Malware attacks

No matter what forms of malware intrudes into your devices, but it poses a great threat to the users and the organization as a whole by rendering them defunct. The following are the suggested preventive measures to safeguard your devices from the malware attacks.

a) Avoid third-party apps

While this is easier if you're using an iPhone, Android users selecting the "not enabling apps from unknown sources" and downloading apps with good reviews on Google Play keep Android phones safe. However, if you decide to utilize third-party applications, do your homework before downloading and installing them. Read the reviews; if the app has too many access permissions, do not download it.

b) Use secure Wi-Fi

Using unsecure Wi-Fi connections may make your devices vulnerable to data sniffing through man-inthe middle attacks and injection of viruses and the malwares.

c) Install antivirus protection.

Install Antivirus applications from the trusted source and run it regularly to ensure your device is clean. Don't forget to update your antivirus applications on regular intervals.

d) Don't jailbreak or root your device.

Doing so increases your risk of infection from untrusted third-party sources. Stay rooted and benefit from automatic security updates and patches.

e) Set up Passwords

The major objective of the malware is to paralyze the operations or steal sensitive information. To safeguard this, the users are advised to set up a strong password/access control on your device to defend the devices against intrusions and direct access to data.

f) Update your Operating System

Users should update the operating system the moment new version of update is available as running the old and outdated version of operating system is vulnerable to the security breach. The updated versions of the operating system comes with security patches which are developed by the developers after doing lot of research and development.

g) Setup Device Encryption

Device encryption is one of the important steps to protect your data stored in the mobile phone devices, but this aspect is mostly overlocked. Device encryption encrypts the data stored on your phone and can only be viewed or accessed by those with authentic credentials. With this feature, you can ensure that none of your sensitive data gets breached. To do this on the android devices - Go to Settings > Tap on Security option > Encrypt Device.

h) Check for Malware

Android also allows users to check for malware. Follow the steps as mentioned below and check if your phone is being infected with Android malware or not:

Open the Google PlayStore app Tap on the Menu icon Click on Play Protect Select Scan

If your Android is infected with malware, it gives a removal option. You can either manually run a scan or, by changing the settings, set it to automatic scan. Selecting an automatic scanning option is more efficient because you'd be altered whenever malware breaches your privacy.

Remove untrusted apps

Uninstall any apps that are unnecessary, untrusted, or from sources outside the Google Play Store.

On your Android phone or tablet, open the Settings app.

Tap Apps & notifications
See all apps.
Tap the apps you want to uninstall
Follow the on-screen instructions.

j) Do a Security Checkup

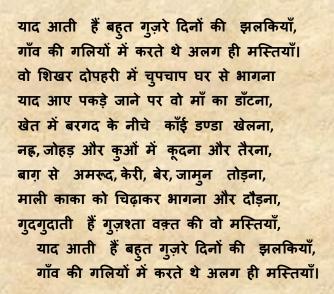
While using android devices, it's always advised to do the security check-up to identify any vulnerability. Following are the steps to do the security check-up. On your Android phone or tablet, open a web browser, like Chrome. Go to myaccount.google.com/security-checkup. To fix any security issues in your account, follow the steps.

References:-

Kaspersky Web portal Norton Community portal Lifehack.org

> By Gurcharan Singh, Cyber Faculty, CDTI, Chandigarh

पनघट



देर तक वो गाँव के गोरे कबड्डी खेलना, शाम ढलने पर परिन्दों की तरह घर लौटना, रात को कुतों का आँगन में बराबर भौंकना, दादी का लाठी उठाए उनके पीछे दौड़ना, तो कभी मुन्डेर पर आ मोरनी का बोलना, भोर होते ही वो चिड़ियों का चहकना, डोलना, गाँव के हर ज़र्र में थी कुछ अलग ही ख़ूबियाँ, याद आती हैं बहुत गुज़रे दिनों की झलकियाँ, गाँव की गलियों में करते थे अलग ही मस्तियाँ।



लहलहाती थी जवानी की फ़सल की बालियाँ, सज सँवर के जब चलें थीं गाँव की पनिहारियाँ, नीम नीचे बैठ सखियाँ खेलती थी गिट्टियाँ, खूब करते थे ठिठोली ज्येठ, देवर, भाभियाँ, तब कहाँ था मैल दिल में और कहाँ थी दूरियाँ, माफ़ कर देते थे पल में बच्चों की नादानियाँ, याद आती हैं बहुत गुज़रे दिनों की झलकियाँ, गाँव की गलियों में करते थे अलग ही मस्तियाँ।

बिक रहे हैं खेत अब बदले में दौलत बेशुमार, हो गये हैं गाँव के बच्चे मगर बे-रोज़गार, हैं सभी सामां यहाँ रिश्ते मगर हैं तार-तार, सभ्यता-संस्कृति यहाँ आँसू बहाए जार-ज़ार, उसपे कहते हैं मियाँ 'आए जवानी एक बार', दोस्त तो क्या, भाई भाई का नहीं है राज़दार, खेल सारे भूलकर खेले हैं ख़ूं की होलियाँ, याद आती हैं बहुत गुज़रे दिनों की झलकियाँ, गाँव की गलियों में करते थे अलग ही मस्तियाँ।

याद आए दिन ढले चूल्हे से उठता वो धुँआ साथ माँ के बेलती थी रोटियाँ दोनों बुआ, नाचते थे मोर गाते थे पपीहे गाँव में, नाचती थी गोरियाँ भी बाँध पायल पाँव में, काश! 'हसरत' वो समय फिर लौट आए गाँव में, हर शजर, कूचा, बशर फिर मुस्कुराए गाँव में। आने वाली पीढ़ी में हों ख़ूबियाँ ही ख़ूबियाँ, याद आती हैं बहुत गुज़रे दिनों की झलकियाँ, गाँव की गलियों में करते थे अलग ही मस्तियाँ।

> डॉ. सुशील 'हसरत' नरेलवी केन्द्रीय गुप्तचर प्रशिक्षण संस्थान, चण्डीगढ-160036

Article by Ms. Rani Bindu Sachdev, IPS, Director, CDTI Chandigarh & Sh. Gurcharan Singh, Cyber Faculty, published in the special edition of "The Indian Police Journal" brought out by BPR&D, New Delhi

Cyber Sexual Assault against Women – Vulnerability and Remedies



Rani Bindu¹ Gurcharan Singh²

Abstract

Crimes against women and girls are taking on new shapes with the ever-increasing rate of Internet access globally, the wider use of digital technologies and other communication technology which has opened new avenues for gender violence. Online and technology-facilitated crime against women happens on different platforms and using a variety of tools like video games or other videoconferencing platforms. These crimes are often committed across multiple jurisdictions without considering the responsibility and liability of intermediaries and perpetrators. In this article various aspects of Cyber sexual assault against women vis a vis their vulnerability and subsequent remedies have been discussed.

Keywords: Cyber Sexual Assault, Stalking, Bullying, Cybersex Trafficking, Virtual Rape, Morphing, Revenge Porn, IT Act, Counseling Centres.

Introduction

In India, "Cyber sexual assault" against women has been a topic that a few have thought about and even fewer have concentrated on; due to which a growing number of victims have suffered vulnerability. Crimes against women and girls are taking on new shapes with the ever-increasing rates of Internet access globally and the wider use of digital technologies. New forms of violence have also emerged due to the rapid penetration of cyberspace. The growing prevalence of mobile devices, social media, and other communication technology has opened new avenues for gender violence, with widespread content and digital footprint magnifying the consequences for the victims at individual, community and the societal

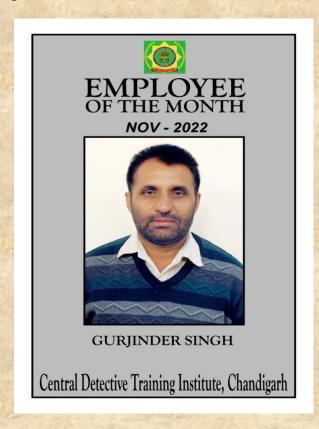
Online and technology-facilitated crime against women happens on different platforms and with a variety of tools, such as social media networks, messengers/private messaging apps, e-mails, dating apps, forums, video games or videoconferencing platforms etc. The violence is often evident to the public and shared without limitation by multiple means, therefore, re-victimizing the victims constantly in the process. These crimes are often carried out across multiple jurisdictions without considering the responsibility and liability of intermediaries and the perpetrators. Cybercrimes against women happening online and via new technologies have a serious impact on women's lives, their families, physical and psychological health,

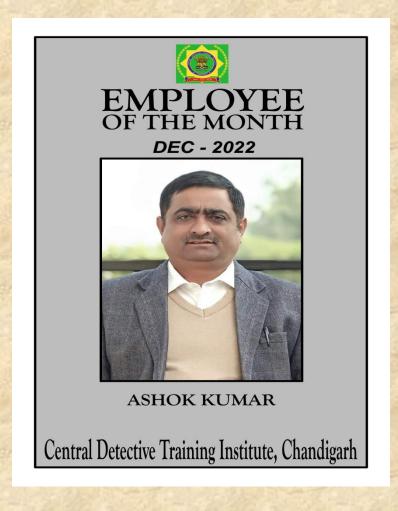
Author's Introduction:

1 IPS (HP:2006), Director, CDTI Chandigarh 2 Cyber Faculty, CDTI Chandigarh

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