

**JOINING INSTRUCTIONS OF CTC(T&IT), CRPF, TIRIL ASHRAM, DHURWA,  
RANCHI, JHARKHAND****(GO'S TECHNICAL COURSE SL. NO. 34)****INTRODUCTION**

The Central Training College (Telecom) was established at Neemuch on 04<sup>th</sup> August, 1970 to train Signal personnel required for the CRPF Communications set-up. The communication network of the Force at that time was very small and largely confined to HF Radio only. Initially, CTC (T) was designed to train only Operators and Technicians on basic courses only. Subsequently scope of the training was further enlarged as the college was assigned the responsibility to train all categories of operators, technicians and crypto operators on upgrading and specialized courses. From 1975, the college also took over the responsibility to train GOs to convert them into Signal Officers.

In December 1986, CTC (T) was shifted from Neemuch to Ranchi and the twin offices of Signal Group Centre and CTC (Telecom) were functioning under one command till April' 2006. During restructuring of the Force, Signal Group Centre was discontinued and CTC (Telecom) was renamed as CTC (T&IT) and started functioning as independent training Institute with effect from 1<sup>st</sup> May' 2006.

The SASI (Technical) cum Radio Mechanic Grade-I Course conducted by CTC (T&IT) has been recognized equivalent to 3 years Diploma in Radio & Communication Engineering by the Ministry of Human Resource Development, GOI.

**FACULTIES**

CTC (T&IT) is now functioning as an independent Institution and has four faculties namely.

- Faculty of Communication Engineering (FCE)
- Faculty of Information Technology (FIT)
- Faculty of Field Communication (FFC)
- Faculty of Cryptology (FC)

Each faculty is commanded by a Gazetted officer. CTC (T&IT) conducts various courses i.e. basic, pre promotional, promotional, Miscellaneous/specialized courses with varied frequencies. We have a well equipped labs and rich library including e-library.

**OFFICERS OF THE INSTITUTION**

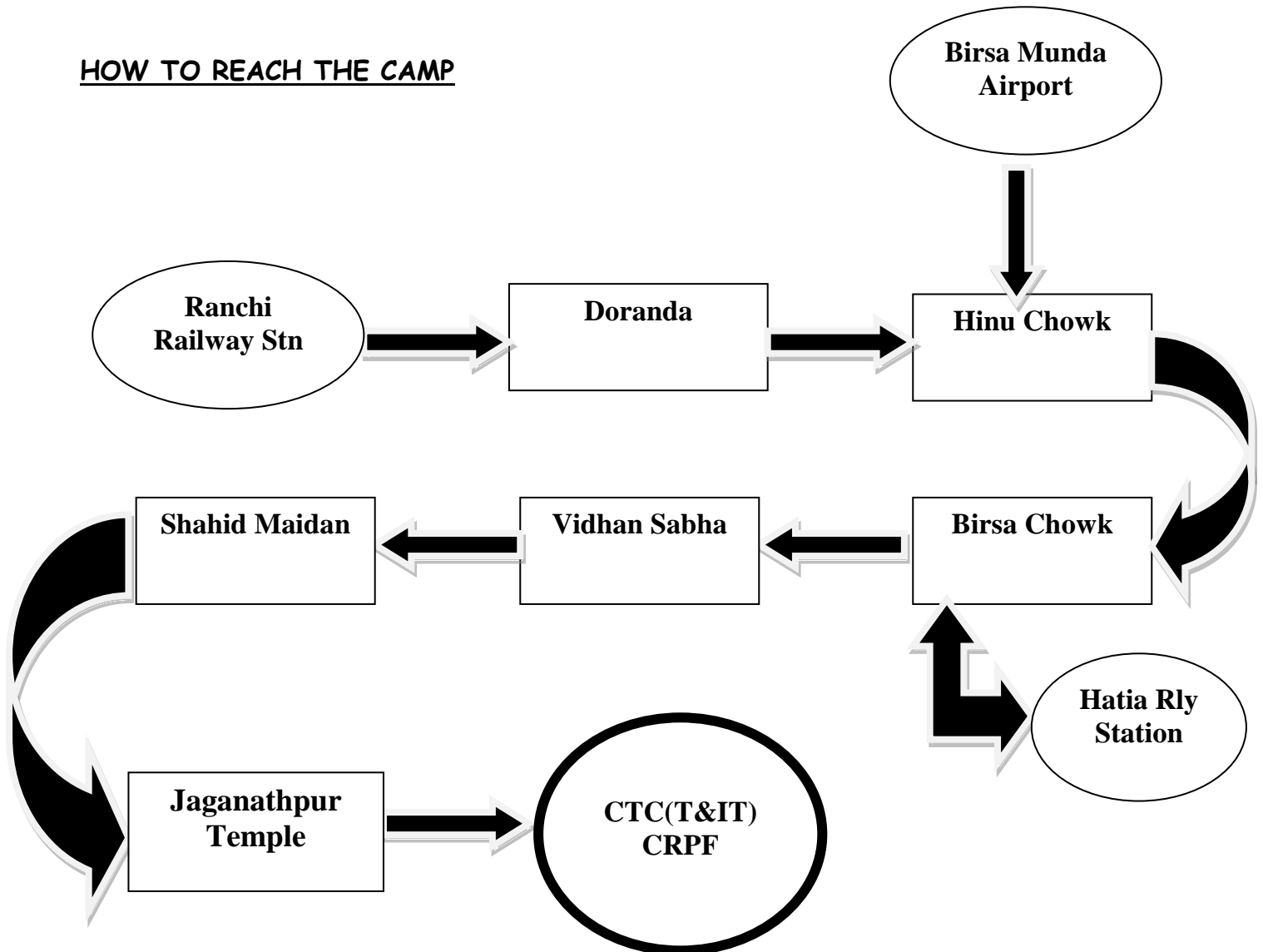
<b>Sl. No.</b>	<b>Name of Officers</b>	<b>Designation</b>
1.	Sh. Amit Taneja, DIGP	Principal
2.	Sh. Rajesh Kumar Sahay, Comdt	Vice Principal
3.	Dr. Amar Nath Saha, CMO(SG)	CMO(SG)
4.	Dr. Manoj Kumar, CMO(OG)	CMO(OG)
5.	Sh. Santosh Kumar, DC	Officer Commanding-FFC
6.	Sh. Sanjay Belwal, DC	DC (ADM), Officer Commanding- FC
7.	Sh. Vimal Singh, DC	QM (Tech), Officer Commanding-FCE
8.	Sh. Girish Kumar, AC	Officer Commanding-FIT
9.	Sh. Lokesh Choudhary, AC	MTO, Faculty Officer
10.	Sh. Ujjwal Kumar Singh AC	DC(Bldg), Faculty Officer

## **GENERAL INFORMATION**

The campus of CTC (T&IT) is located approximately 8 KMs. from Hatia railway station and 15 KMs. from Ranchi railway station. The exact location of the College is near Tiril Ashram which is adjacent to Jagannath temple, Dhurwa. The Nearest Railway station is Hatia which is directly connected with Delhi, Kolkata, Bangalore and Chennai by broad gauge railway lines. Also Ranchi airport is located 10 KMs from the CTC (T&IT).

Ranchi is a 'B' class city with approximately 3000 feet height from mean sea level. The town has moderately well established shops/malls which cater for normal requirements.

## **HOW TO REACH THE CAMP**



## **RECEPTION / CONTACT**

The Trainee Officers are required to report one day prior to the commencement of the course and are required to intimate their travel plan i.e. exact date and time of arrival well in advance to control room number 0651-2600011 for arranging reception at Ranchi/Hatia Railway Station or at Birsa Munda Airport, Ranchi as the case may be.

## **ABOUT RANCHI**

Ranchi is a capital of Jharkhand and the name Ranchi is derived from the previous name of the Oraon village at the same site, "Archi" this word was used for bamboo grove or stave. Ranchi lies at 23°22'N 85°20'E/ 23.36°N 85.33°E . Ranchi is located in the southern part of the Chhota Nagpur plateau, which is the eastern section of the Deccan plateau. Ranchi is known as the "City of Waterfalls" because of its numerous waterfalls, the most well known of which are Dassam Falls, Hundru Falls, Jonha Falls, Hirni Falls and Panchghagh Falls. Ranchi has a hilly topography and its dense tropical forests a combination that produces a relatively moderate climate compared to the rest of the state. Its climate is the primary reason why Ranchi was once the summer capital of the undivided State of Bihar and was designated a preferable "hill station". Summer temperatures range from 20 °C to 42 degrees, winter temperatures from 0 °C to 25 degrees. December and January are the coolest months, with temperatures dipping to the freezing point in some areas. Its average elevation is 651 m above sea level.

## **POSTAL ADDRESS**

Your postal address during training at this College will be as under:-

**GO's Technical Course Sl. No. 34**  
**CTC(T&IT), CRPF,**  
**PO: Dhurwa, Ranchi - 834 004 (Jharkhand)**  
**E-mail address –[ctcit@crpf.gov.in](mailto:ctcit@crpf.gov.in)**  
**Contact No.-0651-2600011**

## **BANKING FACILITIES**

The branches of following banks are available at Ranchi :

- i. State Bank of India
- ii. Punjab National Bank
- iii. Axis Bank
- iv. ICICI Bank
- v. Indian Overseas Bank
- vi. Central Bank of India
- vii. IDBI Bank
- viii. Oriental Bank of Commerce
- ix. Syndicate Bank
- x. HDFC Bank/Allahabad Bank

**Note:** *SBI ATM is available in our Campus.*

## **LIBRARY**

The college has a well stocked library including e-library and subscribes to various Technical Magazines. Trainees must take optimum use of library facilities, technical books will be issued to the trainees as per syllabus of the course.

## **CANTEEN FACILITIES**

CPC (Master/subsidiary canteen), Wet Canteen and Co-operative shop facilities are available within the campus. Items of daily needs are easily available.

## **MEDICAL FACILITIES**

A 20 bedded, well equipped hospital commanded by a CMO is situated within the campus of CTC (T&IT).

## **DOCUMENTS :**

The following documents are required in respect of trainee officers detailed for course:-

- a) Movement/ Office Order.
- b) Health Card
- c) Identity Card
- d) Return Journey Railway Warrant/ AEO
- e) ATM Card for cashless payments
- f) Passport Size Photo in uniform without cap -04 Nos.

## **UNIFORM/CLOTHING**

You are required to bring following items of clothing:-

- a) Winter / summer uniforms
- b) Beret and Peak Cap
- c) PT dress (White t-shirt & Full Pant, Half Pant)
- d) Formal dress with tie
- e) Camouflage dress for Outdoor Exercise
- f) Sports kit as per your needs.

## **SPORTS**

You are advised to bring your own racket if interested and the following games are played in CTC (T&IT).

- a) Volley Ball.
- b) Foot Ball.
- c) Basket Ball.
- d) Cricket
- e) Badminton
- f) Tennis.
- g) Snooker
- h) Table Tennis

## **ACCOMMODATION & MESSING**

You will be accommodated in Trainee Officers Hostel of this institution on sharing basis. It will be mandatory for you to dine in the GO's mess. On arrival, you are requested to indicate your preference about Veg or Non-Veg food. You are also requested to adhere to mess timing and dress regulations during your stay at CTC (T&IT) Ranchi. The trainee officers are expected to observe Mess discipline and service Etiquettes. You are also advised to clear your

Mess bills/dues regularly and timely. Bachelor accommodation on sharing basis will be provided and no officer is permitted to bring their families. The officer detailed for subject course may bring their buddy to accompany them during various exercises. The buddy accompany the officer should be in proper uniform and also bring their mufti dress.

### **LEAVE**

No leave will be granted during the course except extreme compassionate grounds.

### **WITHDRAWAL OF TRAINEES**

The trainees who do not conform to the laid down qualities requirements and are found unable to assimilate the subject of the course are liable to be returned to their units. The trainees who are unable to cope up with the training shall be returned to their units. Trainees found lacking in discipline will be subject to appropriate disciplinary action, withdrawal from the course and returned to their respective units.

### **DISCIPLINE**

All trainees are expected to maintain a high standard of discipline. Trainees will strictly adhere to the orders regulating discipline in the college. Consumption of liquor, lending and borrowing of money are strictly forbidden. Trainees will be permitted to go on outpass on Sundays and holidays only. The villages adjoining the campus and residential areas are out of bounds for all trainees. Officers coming for course may bring their buddies for assistance during various exercises. Before departure, buddies to be briefed on general discipline and turnout during their halt at this institution. Also plastic items/ carry bags are prohibited in the campus.

### **BIO-DATA FORM**

You are directed to mail your Bio-data on [ctcit@crpf.gov.in](mailto:ctcit@crpf.gov.in) on or before **25/12/2019** as per form attached.

### **AIM OF THE COURSE**

To impart detailed knowledge of communication systems held in signal range to officers so as to enable them to plan, engineer and manage communication systems efficiently both in the field and static environment.

<b>Radio Theory Part-I</b>
Electrical Fundamental, Electronic basic, Electronic ccts., Modern Comn. Techniques, Digital Principal, Digital communication, Microprocessor, Power supply system, Public Addressing system, Networking Selo / Polnet ,GPS, GIS, All HF sets / BEST covered in the syllabus
<b>Radio Theory Part-II</b>
Transmission line and wave propagation, Antenna theory, Line comn. and Line eqpts, Multi channel system, SMT/SMD Secrecy devices, Eqpts used in Police TeleComn, TX/RX system, SSB/VHF System, Allied electronic eqpts, Electronic warfare, All VHF sets covered in the syllabus
<b>Radio Procedure &amp; Organization.</b>
Police Comn. System (Telecomn), Organization of Signal Range/Bns./Coys, Radio procedure, Signal centre procedure and documentation, Signal security and Cryptography, Security of messages. Material Management/Procurement/Storage/ disposal, Inspection/ repair & maintenance of radio eqpts, Planning/establishing /running of radio station Art of presentation/Communication planning/ Signal Coy Comdr. duties/Adm. arrangement/Man Management etc.
<b>Radio Practicals part-I</b>
Specification check/tuning/identification of modules, programming of radio/scrambler features and installation /setup of HF/VHF/BEST sets and allied assys covered in the syllabus.
<b>Radio Practicals part-II</b>
Testing instruments/Specification check/installation/identification of main components/ blocks, care and maintenance, features of generators/charging sets /Btys/Bty chargers, line eqpts/terminals and allied assys covered in syllabus.
<b>Computer/IT Module</b>
Computer Hardware, System and Application Software, Microsoft Office Suit, Internet/ E-mail, Networking and Data communication, Lotus Notes, SELO Application and etc. Overview Of Networking Concepts: Basics, Classification, TCP/IP, Internet, Various Network Devices, IP Address, MAC Address, DNS Server, DHCP, Cyber Crimes An Overview: Definition and Types. Introduction To It Act 2000/2008 .
<b>Cipher Theory and Practical</b>
<b>Morse Reading &amp; Sending</b>
<b>Project &amp; Presentation</b>

## **CLEARANCE CERTIFICATE**

Every trainee Officer attending the course must obtain a clearance certificate on termination of the course.

**BIO – DATA**

01. Full Name (in block letter) :
02. Father's Name :
03. Date of Birth :
04. Date & Rank of appointment :
05. Date of appointment in the present rank :
06. Present unit & location :
07. Educational qualification :
  - i) Academic
  - ii) Professional
  - iii) Any other long term/short term courses done (online/distance) :
08. Cadre/Courses attended :
09. NOK :
10. Details of family :
11. Nearest Rly. Station (in block letters) :
12. Blood Group
13. Previous posting details with assignments :
14. Job experience in civil :
15. Job experience in government sector :
16. Project undertaken during study/job :
17. Permanent home address (with contact No.) :

Date :

Signature of Officer

Place :

## REFERENCE BOOKS

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<b>Sl. No.</b>	<b>Name of Books</b>	<b>Author</b>
01.	Electronic Communication System	George Kennedy
02.	Essential of Communication & Electronics	Slurz. Ostterhelo
03.	Electronics & Communication Simplified	A.K.Mani
04.	Fiber Optics Tech. & application	Stewart D Personid
05.	Micro processor & Micro computer	B.Ram
06.	Power Supply	Irvinf M Gottlieb
07.	Line Communication	Std .Publishers
08.	Principal of communication system	Taub and chilling
09.	Telecommunication switching system and network	Thiagarajan Vishwanathan
10.	Modern Digital Electronics	R.P.Jain
11.	Computer network	Andrew S. Tanenbaum
12.	Data and communication network	Willum Stallings
13.	Basic Electronic Solid State	B.L.Thereja
14.	Electronic & Radio Engg.	M.L.Gupta
15.	Grob Basic Electronics	B.Grob
16.	Electrical Technology	B.L.Thereja
17.	The ARRL Antenna Book	ARRL
18.	Electronics & Radio Engg.	Terman

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