



Bharat Sanchar Nigam Ltd.

(A Government of India Enterprise)

O/o C.G.M.T. UP (East) Circle Hazratganj Lucknow-226001

Our website: www.upe.bsnl.co.in

No. Rectt/M-94/TTA/OS/2012/12

Date: 30.04.2013

Examination Notification

Applications are invited from eligible Indian citizens for filling up 108 posts of Telecom Technical Assistants (TTA) for various SSAs of UP (East) Telecom Circle in IDA pay scale of Rs. 13600-25420. Detailed vacancy position of SSAs is indicated in **Annexure-B** of this notification.

Note: Telecom Technical Assistants (TTA) is a SSA cadre. The candidates if selected, will be considered against vacancies of that SSA only against which they have applied/appeared. However, he/she may be transferred/deputed anywhere in India in emergent circumstances in the interest of service.

The posts of various SSAs of UP (East) Telecom Circle will be filled up through a competitive examination scheduled to be held on 30th June, 2013 from 10.00 AM to 01.00 PM. Successful candidates will have to undergo thorough medical test held by a Medical Board, followed by completion of pre-appointment formalities. Detailed scheme and syllabus of the examination is also detailed in **Annexure-C** of this notification. Other details of examination are given below.

Minimum qualifying marks: -

Category/Community of applicant	Minimum qualifying marks in the paper	Minimum qualifying marks in each of three parts
General (OC) Candidate	40%	30% (i.e. 6, 27, 27 respectively)
SC/ST/OBC	33%	20% (i.e. 4, 18, 18 respectively)

Note: There will be negative marking for each wrong answer, 25% marks of that question will be deducted.

Age Limit: - Between 18 to 27 years as on the closing date of receipt of applications form which is 13-05-2013.

Relaxation in age limit: -

S. No.	Category or Community	Relaxation
1	Scheduled Caste and Scheduled Tribe (SC and ST)	Five years.
2	Other Backward Caste (OBC)	Three years.
3	General Physically Handicapped (OC-PH)	Ten years.
4	SC/ST Physically Handicapped (SC-PH or ST-PH)	Fifteen years
5	Other Backward Caste Physically Handicapped (OBC-PH)	Thirteen years
6	Departmental candidates (OC or General)	Age upto 40 years
7	SC/ST Departmental candidates	Age upto 45 years
8	Other Backward Caste (OBC) Departmental candidates	Age upto 43 years
9	Ex-Servicemen, residents of Jammu and Kashmir and any other special categories indicated by Government of India	In accordance with instructions or orders issued by Government of India.

Note: The crucial date for determining the age limit shall be the closing date of receipt of application form of candidates from across India (not the closing date prescribed for those in Assam, Nagaland, Meghalaya, Arunachal Pradesh, Mizoram, Manipur, Tripura, Sikkim, Laddah Division of Jammu and Kashmir state, Lahaul and Spiti District and Pangi sub Division of Chamba District of Himachal Pradesh, Andaman and Nicobar Islands or Lakhdweep).

Minimum Educational Qualification: - Three years Engineering Diploma in Telecommunication/Electronics/Electrical/Radio/Computer Science/Information Technology (IT)/Instrumentation Technology or M.Sc. in Electronics.

Disqualification: - No person who,

- (i) has entered into or contracted marriage with a person having a spouse living, or
 - (ii) having a spouse living has entered into or contracted marriage with any person,
- shall be eligible for appointment to the post of Telecom Technical Assistants (TTA).

Bond & Training: -

- (i) Candidates selected against vacancies for direct recruitment shall execute a Bond in the specified format prescribed by the Company to serve in BSNL for a period of two years from the date of appointment as Telecom Technical Assistants (TTA).
- (ii) Candidates selected for the post of Telecom Technical Assistants (TTA) shall have to successfully undergo training as per the training plan before their appointment as Telecom Technical Assistants (TTA).
- (iii) During the period of training, recruited Telecom Technical Assistants (TTA) will be entitled for stipend (training allowance) as decided by BSNL from time to time.

Facilities offered to SC/ST candidates: -

- (i) Travelling allowance – As per provisions laid in BSNL Corporate Office no. 14-1/2008-Rectt.(Pt) dated 04.01.2010. The candidates are required to submit their claim in prescribed format as per **Annexure-D** at the end of the examination.
- (ii) Free of cost pre-examination training to be held at Lucknow only will have to be offered in respect of willing SC/ST applicants without any travelling and lodging allowance. Applicants will have to submit their willingness with the application form. Schedule of training and venue etc will be intimated separately at website.

Examination Fee: -

- (i) Demand draft of Rs. 500/- (Five hundred) in favour of Accounts Officer (Cash) office of CGMT, BSNL UP (East) Telecom Circle Lucknow payable at Lucknow, in case of General (OC) and Other Backward Caste (OBC).
- (ii) The applicants of SC/ST/Physically Handicapped communities will not be required to pay examination fee.

IMPORTANT: Candidature of any applicant is liable to be cancelled any time during Recruitment process (i.e. before or after conduction of examination) in case he/she does not fulfil any of the eligibility conditions laid in this notification or relevant Rules of TTA.

Closing Date for receipt of application form:-

Application form duly filled in and complete in every respect should be sent to AGM (Recruitment, O/o Chief General Manager Telecom BSNL, UP (East) Circle Hazratganj, Lucknow-226001, so as to reach on before 13-05-2013.

“APPLICATION FOR TTA-2012 Exam (.....SSA)”

should be written in bold letters on the top of envelope containing duly filled in Application Form.

Application received after closing date and incomplete in any respect shall summarily be rejected and no communication in this regard shall be entertained.

BSNL will not be responsible for any postal delay.

Enclosures: - Please submit the following in the order as given below:-

- (1) Bank Draft of Rs. 500/- from non exempt categories (OC/OBC). (Please mention personal details such as name, father's name etc. at the back side of demand draft)
- (2) Admit Card (Duly filled) in two copies (applicants copy and office copy).
- (3) Two self addressed envelopes (23cm x 11 cm)
- (4) Application form complete in all respect.
- (5) Copies of certificates i.e. proof of age, educational qualification & Caste certificate etc, self attested by the applicant.
(Necessary certificate from a Govt. Hospital/Medical Board in respect of Physically Handicapped application).
- (6) Five recent identical passport size photographs (without attestation), out of which (i) two photographs should be pasted on the application form, (ii) each of two photographs (unattested) should be pasted on each copy of admit cards and, (iii) one spare photograph with name & father's name mentioned at the back side to be attached with the Application Form.

Applicants are also directed to fill their particulars asked in proforma of admit card too.


Asstt. General Manager (Recruitment)



Bharat Sanchar Nigam Ltd.

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APPLICATION FORM FOR RECRUITMENT OF TELECOM TECHNICAL ASSISTANT IN BSNL

IMPORTANT NOTES – (I) Before filling this form, read the detailed advertisement carefully.

(II) All entries should be made in CAPITAL LETTERS.

1. Name of recruitment unit: _____

(Please choose anyone SSA from the list given in Annexure-B)

2. Name in capital letters (Please keep one box blank between first, middle and last name)

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3. Father's/Husband's name in capital letters (Please keep one box blank between first, middle and last name)

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4. Date of Birth (dd/mm/yyyy) 5. Age as on 13.05.2013 6. Whether claiming age relaxation

																	Choose: .	Yes	No	
																	Yes or No			

7. Gender Male or Female)	8. Marital Status (Married/ Unmarried)	9. Nationality	10. Category belongs to SC/ST/OBC/PH
		Country	By Birth or Domicile

11. Category (Write, as applicable)

Whether BSNL employee (Yes/No) if yes, mention HRMS No.	Whether registered under Employment Exchange of the respective SSA (Yes/No). If yes, mention registration No.	If physically Handicapped (Attach. Medical Certificate as in Annexure- A)		Whether Govt. employee (Yes/No)	Whether belong to Ex-Servicemen/J&K- Please specify
		Whether LOCOMOTIVE or HEARING Impairment	Percentage of disability employee		

12. Address for correspondence (in capital letters)

Name :-							
Address:-							
City:-							
State :-	Pin Code: <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
e-mail address:							
Mobile No.							
Telephone No. (with STD Code)							

Please affix one recent passport size photograph without attestation

Signature of Candidate

13. Educational Qualification (Diploma in Engineering. & above)

Name of Engineering Diploma/Degree with Discipline	University/ Institute	Month & Year of Passing	As per the Advertisement whether eligible (Yes/No.)

14. Permanent Address (in capital letters)

Name :-
 Father's/Husband's Name:-
 Address
 Pin Code:

Please affix one recent passport size photograph without attestation

15. Declaration to be given by OBC candidate only, eligible to avail reservation applicable to OBC (Please cross if not applicable):

I.....son/daughter of Shri.....resident of village/town/cityDistrict..... Statehereby declare that I belong to thecommunity which is recognized as a backward class by the Government of India for the purpose of reservation in services as per orders contained in Department of Personnel and Training Office Memorandum NO. 36012/22/93-Estt.(SCT), dated 8.9.1993. It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in column 3 of the Schedule to the above referred Office Memorandum dated 8.9.1993 and amended vide OM No. 36033/3/2004-Estt. (Res.) Dated 14.10.2008.

DECLARATION TO BE SIGNED BY THE APPLICANT

I do hereby declare that all the statement made in the application are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any particular information given above being found false or incorrect, my candidature for the post of Telecom Technical Assistant is liable to be rejected or cancelled and in the event of any mis-statement or discrepancy in the particulars being detected after my appointment, my services are liable to be terminated forthwith without any notice to me.

I also understand that if appointed, I would rank junior to any TTA who had been appointed earlier by the erstwhile DOT/DTS/DTO or BSNL or any other candidate who had already qualified in the TTA examination but not appointed as TTA by BSNL so far. Similarly, candidates of TTA examination held prior to my appointment will also rank en-bloc senior to me

Place:

(Signature of the Applicant)

Date:



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Telecom Technical Assistant Examination-2012

Admit Card (Office copy)

Identical
photograph of the
applicant as on the
application form
(Passport size)

Roll No

(To be filled by the office)

Please allow Mr./Mrs*/Ms*
Son/Daughter/of Mr* whose photograph is
affixed on the admit card, to appear in the Examination for recruitment of Telecom
Technical Assistant-2012 of the Bharat Sanchar Nigam Limited at (venue of
examination centre)on date/time

*(to be filled by applicant)

Date
Place

Signature
Designation.....
For Bharat Sanchar Nigam Limited



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Our website: www.upe.bsnl.co.in

Telecom Technical Assistant Examination-2012

Admit Card (Applicant's copy)

Identical
photograph of the
applicant as on the
application form
(Passport size)

Roll No

(To be filled by the office)

Please allow Mr./Mrs*/Ms*
Son/Daughter/of Mr* whose photograph is
affixed on the admit card, to appear in the Examination for recruitment of Telecom
Technical Assistant-2012 of the Bharat Sanchar Nigam Limited at (venue of
examination centre) on date/time

*(to be filled by applicant)

Date
Place

Signature
Designation.....
For Bharat Sanchar Nigam Limited

NAME & ADDRESS OF THE INSTITUTE/HOSPITAL

Certificate No.....

Date.....

DISABILITY CERTIFICATE

Recent Photograph of the candidate showing the disability duly attested by the Chairperson of the Medical Board.

This is certified that Shri/Smt/Kum.....
son/wife/daughter of Shri.....
age.....sex..... identification marks(s) is suffering
from permanent disability of following category:

A. Locomotors or cerebral palsy :

- (i) BL – Both legs affected but not arms.
- (ii) OL – One leg affected (right or left) (a) Impaired reach
(b) Weakness of grip
(c) Ataxic
- (iii) BH - Stiff back and hips (Cannot sit or stoop)
- (iv) MW – Muscular weakness and limited physical endurance.

B. Blindness or Low Vision:

- (i) B : Blind
- (ii) PB: Partially Blind

C. Hearing Impairment:

- (i) D - Deaf
- (ii) PD - Partially Deaf

(Delete the category whichever is not applicable)

File No. Staff/M-34/Corr./5

Dated.: 15.04.2013.

Allotment of Seats in TTA Cadre - Outsider Quota (Category wise) For Recruitment Year-2012

Sl NO.	Name of SSA	Category wise allotment of Seats out of 108					Vacancies for Horizontal Reservation	
		OC	SC	ST	OBC	Total	PH	Ex-Ser.
1	Lucknow	1	5	0	9	15	0	1
2	Allahabad	3	1	0	0	4	0	0
3	Azamgarh	4	0	0	0	4	0	0
4	Basti	0	2	0	4	6	0	0
5	Deoria	---	---	---	---	---	---	---
6	Farrukhabad	1	0	0	1	2	0	0
7	Faizabad	5	0	0	0	5	0	0
8	Gorakhpur	2	0	1	0	3	0	0
9	Jhansi	2	1	0	2	5	0	0
10	Kanpur	15	7	0	7	29	0	2
11	Lakhimpur	0	0	0	1	1	0	0
12	Mirzapur	3	0	0	1	4	0	0
13	Sultanpur	1	0	0	0	1	0	0
14	Varanasi	7	3	0	2	12	0	1
15	Bahraich	---	---	---	---	---	---	---
16	Banda	3	0	0	0	3	0	0
17	Barabanki	1	0	0	0	1	0	0
18	Ballia	---	---	---	---	---	---	---
19	Fatehpur	0	1	0	0	1	0	0
20	Ghazipur	---	---	---	---	---	---	---
21	Gonda	---	---	---	---	---	---	---
22	Hardoi	2	0	0	0	2	0	0
23	Hamirpur	---	---	---	---	---	---	---
24	Jaunpur	---	---	---	---	---	---	---
25	Mau	0	1	0	1	2	0	0
26	Orai	---	---	---	---	---	---	---
27	Pratapgarh	1	0	0	0	1	0	0
28	Raebareli	1	0	0	0	1	0	0
29	Sitapur	---	---	---	---	---	---	---
30	Shahjahanpur	2	1	0	0	3	0	0
31	Unnao	2	0	0	1	3	0	0
	TOTAL	56	22	1	29	108		

(Shashi Bhusan) 13
Asstt. General Manager

ANNEXURE C

SCHEME & SYLLABUS FOR TTA DIRECT RECRUITMENT EXAMINATION

The standard of Paper in General ability test will be such as may be expected of an Engineering Diploma holder. The standard of papers in other subjects will approximately be that of Diploma level of an Indian Polytechnic. There shall be a single multiple choice objective type Paper of 3 hrs. duration as per details given below:

<u>Paper</u>	<u>Marks</u>	<u>Time allowed</u>
PART - I GENERAL ABILITY TEST	20	3 hrs.
PART - II BASIC ENGINEERING	90	
PART - III SPECIALIZATION	90	

Note: 1. The candidate is required to obtain minimum qualifying marks in each of these parts as may be prescribed by the BSNL.

Detailed syllabus

PART-I: GENERAL ABILITY TEST - 20 MARKS

The candidate's comprehension and understanding of General English shall be tested through simple exercise such as provision of antonyms and synonyms, fill in the blanks and multiple-choice exercise etc. This shall also include questions on current events, general knowledge and such matters of everyday observation and experiences as may be expected of Diploma holder.

PART-II: BASIC ENGINEERING - 90 MARKS

Detailed Syllabus is as under:

- Applied mathematics: Co-ordinate Geometry; Vector Algebra; Matrix and Determinant; Differential Calculus; Integral Calculus; Differential equation of second order; Fourier series; Laplace Transform; Complex Number; Partial Differentiation.
- Applied Physics: Measurement-Units and Dimension; Waves, Acoustics, Ultrasonic; Light; Laser and its Application, Atomic Structure and Energy Levels.
- Basic Electricity: Electrostatics, Coulomb's law, Electric field, Gauss's theorem, concept of potential difference; concept of capacitance and capacitors; Ohm's law, power and energy, Kirchoff's voltage, current laws and their applications in simple DC circuits, Basic Magnetism; Electro Magnetism; Electromagnetic Induction; Concept of alternating voltage & current; Cells and Batteries; Voltage and Current Sources; Thevenin's theorem, Norton's theorem and their applications.

Prakash

4. Electronics Devices and Circuits: Classification of materials into conductor, semi conductor, insulator etc, electrical properties, magnetic materials, various types of relays, switches and connectors, Conventional representation of electric and electronic circuits elements. Active and passive components; semi conductor Physics; Semiconductor Diode; Bipolar transistor & their circuits; Transistor Biasing Stabilization of operating point; Single stage transistor amplifier; field effect transistor, Mosfet circuits applications.

Multistage Transistor Amplifier; Transistor Audio Power Amplifiers; Feedback in Amplifier; Sinusoidal Oscillators; Tuned Voltage Amplifiers; Opto Electronics Devices and their applications; Operational Amplifier; Wave shaping and switching circuits.

Block diagram of I.C. Timer (such as 555) and its working, Motivation Circuits, Time Base Circuits, Thyristory and UJT; Regulated Power Supply.

5. Digital Techniques: Applications and advantages of digital systems; number system (binary and hexadecimal); Logic Gates; Logic Simplification; Codes and Parity; Arithmetic Circuits; Decoders, Display Devices and Associated Circuits; Multiplexers and De-multiplexers; Latches and Flip Flops; Counters; Shift Registers; Memories; A/D and D/A converters.

PART-III: SPECIALIZATION - 90 MARKS

Detailed Syllabus is as under:-

1. Electrical:

3 phases vs. single-phase supply, Star Delta connections, relation between phase & line voltage power factor and their measurements; construction and principles of working of various types of electrical measuring instruments. All types of motor and generator-AC & DC transformers, starters, rectifiers, inverters, battery charges, batteries, servo and stepper motors, contactor control circuits, switchgear, relays, protection devices & schemes, substation, protective relaying, circuits breaker, generator protection, transformer protection, feeder & lightning protection, feeder & bus bar protection, lightning arrestor, earthing, voltage stabilizer & regulators, power control devices & circuits, phase controlled rectifiers, inverters, choppers dual converters, cycloconverters; power electronics application in control of drivers, refrigeration & air-conditioning.

2. Communication:

Modulation and demodulation – principles and operation of various types of AM, FM and PM modulators/demodulators; pulse modulation – TDM, PAM, PPM, PWM, Multiplexing. Principles and applications of PCM.

Introduction of Basic block diagram of digital and data communication systems, Coding error detection and correction techniques; Digital Modulation Techniques – ASK, ICW, FSK, PSK; Characteristics/working of data transmission circuits; UART, USART; Modems; Protocols and their functions, brief idea of ISDN interfaces, local areas Network; Carrier Telephony – Features of carrier telephone system.

Microwave Engineering; Microwave Devices; Wave-guides; Microwave Components; Microwave Antennas; Microwave Communication Systems- Block diagram & working principals of microwave communication link.

RSK

3. Network, Filters and Transmission Lines:

Two port network, Attenuators; Filters, Transmission Lines and their applications, characteristic impedance of line; concept of reflection and standing waves on a transmission line; Transmission line equation; Principles of impedance matching, Bandwidth consideration of a transmission line.

4. Instruments and Measurements:

Specification of instruments – accuracy, precision, sensitivity, resolution range, Errors in measurements and loading effect; principles of voltage, current and resistance measurements; Transducers, measurement of displacement & strain, forces & torque measuring devices, pressure measuring devices, flow measuring devices, power control devices & circuits. Types of AC milli voltmeters- Amplifier rectifier and rectifier amplifier; Block diagram explanation of a basic CRO and a triggered sweep oscilloscope, front panel controls; impedance Bridges and Q-Meters.

Principles of working and specifications of logic probes, signature analyzer and logic analyzer, signal generator, distortion factor meter, spectrum analyzer.

5. Control Systems:

Basic elements of control system, open and closed loop system, concept of feedback, Block diagram of control system. Time lag, hysteresis, linearity concepts. Self-regulating and non-self regulating control systems. Transfer function of simple control components, single feedback configuration.

Time response of systems.

Stability Analysis Characteristics equation, Routh's table, Nyquist criterion, Relative stability, phase margin and gain margin.

Routh Hurwitz criterion, root locus techniques, Bode plot, Power plot, Gain margin and phase margin.

6. Microprocessors:

Typical organization of a microcomputer system & functions of its various blocks, Architecture of a Microprocessors; Memories and I/O Interfacing; Brief idea of M/C assembly languages, Machines & Mnemonic codes, Instruction format and Addressing mode; concept of Instruction set; programming exercises in assembly language; concept of interrupt; Data transfer techniques – sync data transfer, interrupt driven data transfer, DMA, serial output data, serial input data.

7. Computer:

Computer and its working, types of computers, familiarization with DOS and Windows – concept of file, directory, folder, Number Systems, Data representation; Programming – Elements of a high level programming language, PASCAL, C; Use of basic data structures; Fundamentals of computer architecture, Processor design, Control unit design, memory organization, I/O system organization. Microprocessors- microprocessor architecture, instruction set and simple assembly level programming. Microprocessors based system design: typical examples. Personal computers and their typical uses, data communication principles, types and working principles of modems, Network principles,

S. R. K. Gupta

OSI model, functions of data link layer and network layer, networking components; communications protocols - X.25, TCP/IP.

Database Management System – Basic concepts, entity relationship model, relational model, DBMS based on relational model.

Pratik Kant
AOS (P-III)

भर्ती अनुभाग/Recruitment Cell

कार्यालय मुख्य महाप्रबन्धक /O/o Chief General Manager,
उत्तर प्रदेश (पूर्वी) परिमंडल/ UP(East) Telecom Circle
हजरतगंज लखनऊ-226001/ Hazaratganj, Lucknow-226001
दूरभाष / Telephone No.0522-2614555,2612831,2628950
फैक्स / Fax: +91-522-2616555
ई-मेल / E-mail: rectt_upe@bsnl.co.in



भारत संचार निगम लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enterprise)

**Form for reimbursement of Travelling Allowance in respect of SC/ST candidates for attending
Written Test Exam. for the post of TTA-2012) at _____ Centre.**

1. Name of Applicant :
2. Roll Number :
3. Whether SC or ST :
(Attested photo copy of the certificate enclosed) :
4. Residential Address :
(As given in Application Form) :
5. Address from where journey has been performed :
6. Whether employed or not :
7. If employed, whether in Central/State Govt. or Central/State Govt. Corporation, Public Sector Undertaking. Private Sector etc. :
8. Details of Journey and Rail/Bus fare etc :

Date of Journey	From	To	Mode of Journey	Class of Travel Bus/ Rail	Distance travelled (one side)	Ticket number	Fare (in Rs.)

CERTIFIED THAT

- a) I am unemployed and a certificate of Unemployment issued by MP/MLA or a Gazetted Officer of the place where I normally reside is enclosed.
- b) I have not claimed/will not claim T.A. for this journey from any other source.
- c) I have actually travelled by the shortest route and by the class/mode for which I have preferred the claim.
- d) I do hereby declare that all the statements made in the application are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any particular information given above found false or incorrect, necessary action as deemed fit may be taken by BSNL.

Dated:

Signature of Applicant

Note:

Candidate will have to submit original ticket for inward journey. The payment will be made by BSNL through cheque.

For use of BSNL

Verified by

(Signature of Designated Officer of BSNL)

Admissible Amount Rs. _____

Signature of DDO