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BHARAT SANCHAR NIGAM LTD.

(A Govt. of India Enterprise)

Office of the Chief General Manager,

North East - I Circle, Shillong -793 001

NOTICE

**RECRUITMENT OF JUNIOR TELECOM OFFICER
(JTO) TELECOM UNDER SPECIAL RECRUITMENT
DRIVE(SRD)-2011 FOR PERSONS WITH
DISABILITY (PWD)**

**BSNL N.E-I Circle propose to recruit JTOs (T) in
the revised IDA pay scale of Rs 16400- 40500/-**

Closing date of receipt of Application is:
12.12.2011. For further details, please log on to
website: www.ne1.bsnl.co.in



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BHARAT SANCHAR NIGAM LTD.
(A Govt. of India Enterprise)
Office of the Chief General Manager,
North East - I Circle, Shillong -793 001.

No.Rectt-6/SRD/PWD/JTO/2011

Applications are invited from the eligible candidates for the recruitment to the post of Junior Telecom Officer under Special Recruitment Drive (SRD) only for Persons with Disabilities (PWD) at BSNL, North East-I Circle, Shillong-793001, as per the details given below:

1	Name of the Post	Junior Telecom Officer (Telecom)
2	No. of Post	4 (four)
3	Category	Persons with disabilities (PWD) 40 % Hearing Impairment (HI) OR Locomotive Impairment (LI)
4	Scale of Pay	IDA Pay scales of Rs 16400- 40500
5	Age Limit	Should not be more than 40 years of age on the closing date for receipt of applications. However, for SC/ST /OBC and Ex-servicemen as per standing instructions of Government of India. BSNL employees upper age limit relaxation by 5 years. Govt servants upto 5 years. For residents of J&K-Relaxation shall be in accordance with DoP &T's Notification No.15012/7/1991-Estt (D) dtd 7.12.2007.
6	Educational qualifications	B.E/B.Tech or equivalent Engineering degree in any of the following discipline from recognized engineering college/University: Telecom/Electronics/Radio/Computer/Electrical.
Note: For complete instructions, application format etc., please visit website: www.ne1.bsnl.co.in. Closing date of receipt of application is on 12.12.2011		

SD/-
Asstt. General Manager (HR)
Office of the Chief General Manager,
N.E-I Telecom Circle, Shillong-793001

भारत संचार निगम लिमिटेड
(भारत सरकार का उद्यम)
कार्यालय मुख्य महाप्रबंधक, उत्तर पूर्वी-1 दूरसंचार
परिमंडल, शिलांग - 793001

BHARAT SANCHAR NIGAM LTD.
(A Govt. of India Enterprise)
Office of the Chief General Manager
N.E. – I Telecom. Circle, Shillong–793 001

No.Rectt-6/SRD/PWD/JTO/2011

Recruitment of Junior Telecom Officer (Telecom) under special Recruitment Drive(SRD) for Persons with Disabilities(PWD)

CLOSING DATE OF RECEIPT OF APPLICATION : 12-12-2011

EXAMINATION DATE : 19-02-2012

Bharat Sanchar Nigam Ltd.(BSNL) NE-I Circle (Meghalaya, Mizoram and Tripura) will fill up about 4(four) [subject to variation depending on the availability of vacancies] backlog vacancies of Junior Telecom Officers (JTOs) reserved for Persons with Disabilities (PWD) through an open competitive competition to be held on 19-02-2012 as per details given below:-

Name of cadre	PWD(LI)	PWD(HI)	Total
JTO(Telecom)	1	3	4

Candidates with following physical disabilities will be permitted.

- i. Hearing Impairment (HI) Partially Deaf
- ii. Locomotive Impairment (LI) One arm or one leg or both legs affected.

(As per Central Govt. guidelines, the minimum degree of disability is 40% in order for a person to be eligible for any concession/benefit.)

The vacancies are interchangeable i.e. if vacancy of one category of disability remains unfilled, it may be filled by person of other category of disability.

1. **Scale of pay:** The Junior Telecom Officer will be appointed in the IDA pay scale of Rs. 16400-40500 with annual increment @ 3% of basic pay plus HRA, perks, Medical benefits, LTC etc. as admissible as per Company rules.
The emolument at the minimum of pay scale will be Rs. 20.500 excluding HRA, perks, Medical benefits, LTC etc.
2. **Selection for a particular Circle & Service liability :** The Junior Telecom Officer is Circle based cadre and the candidates would be selected against the vacancies in a particular circle and required to serve minimum of 5 years in that particular Circle only or until they are promoted to All India Cadre, whichever is earlier. However, BSNL has the right to post any selected JTO to any of the Circles either temporarily or on permanent basis. The decision of BSNL in this regard shall be

final and binding. The service conditions, seniority etc. of selected candidates will be determined as per prevailing rules of the Corporation from time to time.

3. Eligibility

3.1 Nationality : Only Indian Nationals would be eligible to apply

3.2 Educational Qualifications: Applicant must possess as on 12-12-2011, Bachelor of Engineering/Bachelor of Technology or equivalent Engineering Degree in any of the following disciplines from a recognised Engineering College/University:

- i. Telecommunication
- ii. Electronics
- iii. Radio
- iv. Computer
- v. Electrical

Candidates appearing in the final year degree examination may also apply provided they possesses the required educational qualification by 31-12-2011.

3.3(a) Age:

- i. For PWD candidates upto 40 years for OC , 45 years for SC/ST and 43 years for OBC candidates.
- ii. Ex-servicemen will get the benefit of age relaxation as per Central Government rules.
- iii. For resident of J&K - Relaxation shall be in accordance with DoP&T's Notification No. 15012/7/1991-Estt.(D) dated 7-12-2007 pertaining to "Residents State of Jammu & Kashmir (Relaxation of Upper Age Limit for recruitment to Central Civil services & Posts) Rule 1997".

- 3.3(b) i.** For BSNL employees the upper age limit is relaxable by 5 years in accordance with the instructions or orders issued by BSNL.
- ii. Govt. servant upto 5 years in accordance with the instructions or orders issued by the Central Govt.

Note I. Candidates belonging to SC/ST/OBC who are also covered under any other clause of 3(a) above viz those coming under the category of Ex-servicemen, Person domiciled in the state of J&K will be eligible for grant of cumulative age relaxation under both the categories. The candidates covered under clause 3(b) will get the maximum benefit that he or she will be getting under clause 3(a) or 3(b).

Note II. The date of birth entered in Matriculation or Secondary School Leaving Certificate or in a certificate recognised by an Indian University as equivalent to Matriculation or in an extract from a Register of Matriculates maintained by a University which extract must be certified by the proper authority of the University or in the Higher Secondary or an equivalent examination certificate. The certificates are required to be submitted only at the time of appointment. No other document relating to age like Horoscopes, affidavit, birth extracts from Municipals Corporation, Service record and the like will be accepted.

3.4 Further in respect of apprentices who have undergone apprentice training in BSNL successfully, there will be following provision:

- (a) An apprentice will be required to compete in the common competition conducted by BSNL along with other direct candidates and preference to the apprentices over non-apprentices direct candidates will be given only if apprentices secure equal place of merit in select zone and all other eligibility conditions being equal.
- (b) The apprentices would not be required to get his/her name sponsored by any employment exchange.
- (c) The apprentices would be entitled to age relaxation to the extent of the period for which the apprentice had undergone training as apprentice in the BSNL

4. Mode of selection and nature of question paper:

The mode of selection is through an All India Competitive Examination. The examination will be of three hours duration with question paper containing the following three sections:

Section- I	Engineering Stream	50 questions
Section- II	Engineering Stream	50 questions
Section- III	General Ability Test	20 questions

The question paper will be fully objective type with multiple options as answers to each questions. The standard of paper in Engineering subject will be that of Engineering Examination of an Indian University.

In the general ability test, special attention will be paid to assess the candidate's capacity for general awareness. The standard of paper in general ability test will be such as may be expected of an Engineering Graduate

However, there would be no separate time fixed for attempting the separate sections. Detailed syllabus for JTO(Telecom) appear at Annexure- 'A'

5. Minimum qualifying standards

BSNL may fix at its discretion minimum qualifying marks for each section as well as in the aggregate. Candidates obtaining less than minimum qualifying marks in any of the sections or in aggregate shall not be considered for inclusion in the merit list.

BSNL reserves the right to change the number of vacancies of Junior Telecom Officer in Telecom cadre.

The appearance of the name in the merit-list does not confer any right on the candidate for employment. A final call letter/appointment letter will be issued to the candidate after completion of all other formalities.

No request for revaluation of answer books shall be entertained in any case or under any circumstances.

6. Choice of Examination centre

The examination centre will be at Shillong i.e, Circle Headquarter City of the CGM NE-I Circle concern. Examination centre may be shifted if required at the sole discretion of BSNL.

7. Application Form

The specimen of the application form is included in this advertisement. Neatly typed [only on one side of paper] copy in A4 size [30 cms. X 20 cms.] may be used for making application. The completed application form should be sent by Registered Post to the GM(HR), O/o the Chief General Manager, BSNL, NE-I Circle, Shillong- 793001. The envelop containing application form should be marked, "**Application for JTOs (Telecom) examination- 2011 for PWD**" in bold letters on top of the envelop.

Original advertisement or photo copy of the format in the advertisement must not be used for applying and in case a candidate submits such an application the same will not be entertained. The given application format must be separately typed.

8. No Fee payable by PWD candidates

Since the examination is exclusively for Persons with Disabilities (PWD), there will be no examination fees for such candidates. However a medical certificate from a Govt. Hospital/Medical Board in support of his/her disability to be attached along with the application form.

9. Closing date for receipt of Application Forms

Application forms complete in all respect must reach on or before **12-12-2011**. Applications received after the closing date or incomplete in any respect shall be summarily rejected and no communication in respect of the rejected application forms shall be entertained. BSNL shall not be responsible for Postal delay.

The applicants would be admitted to the examination on the basis of the information furnished by them in their application form. They are, therefore, advised to ensure that they fulfil all eligibility conditions before applying. In case it is found at a later stage that the information furnished by an applicant is false or an applicant does not fulfil any of the eligibility conditions, the candidature of such applicants would be cancelled and no correspondence in this regard would be entertained. Issuance of an admit card for the examination will NOT confer ~~any~~ right for appointment. Appointment will be solely subject to fulfilment of all eligibility conditions.

10. Training and Bond

All candidates provisionally recruited shall execute Bonds in the format specified by the BSNL including their willingness to serve the Circle allotted and Corporation for a period of at least 5 years from the date of their appointment as JTOs. All candidates shall before their appointment as JTO have to successfully undergo prescribed training as per the training plan laid down and amended by the Company from time to time.

11. List of Enclosures

- a. Three identical passport size photographs out of which one should be pasted (not stapled or pinned) on the application form, duly attested, and other two attached to the application (not to be pasted or attested)
- b. Two self addressed unstamped envelopes 27 x 12 cms size.
- c. Medical certificate in respect of Physically Disability.
- d. Certificates of apprentice training if undertaken in BSNL successfully.

12. Disqualifications: No person

- 12.1 who has entered into or contracted a marriage with a person having a spouse living
or
- 12.2 who having a spouse living , has entered into a contracted marriage with any
person
shall be eligible for appointment to the post of JTO

Provided that BSNL may, if satisfied that such marriage is permissible under the provisional law applicable to such person and the other party to the marriage and there are other grounds for so doing. Exempt any person from the operation of this rule.

- 13.** No request of withdrawal of candidature received from a candidate after he has submitted his application will be entertained under any circumstances. Any dispute in regard to the recruitment will be subject to the Courts/Tribunals having jurisdiction over the place of concerned Circle office of BSNL where the candidate appearing in the examination.

NOTE:

1. Candidates in their interest are advised to refer to the BSNL website www.bsnl.co.in from time to time for any further instruction/information.
2. For any enquiry the applicant may contact on telephone No. 0364-2225650 during office hours.
3. The application form of unsuccessful candidates also that of ineligible candidates shall be retained for a period of three months from the date of declaration of the result.

BHARAT SANCHAR NIGAM LIMITED

[A Government of India Enterprise]

APPLICATION FOR RECRUITMENT OF JUNIOR TELECOM OFFICER (JTO) FOR PERSONS WITH DISABILITY ((PWD) IN BSNL

IMPORTANT NOTES: (I) BEFORE FILLING THIS FORM, READ DETAILED ADVERTISEMENT CAREFULLY.

(II) ALL ENTRIES SHOULD BE MADE IN CAPITAL LETTERS.

1. Post applied for: Write clearly TELECOM

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2. Name (in capital letters) (for S. No. 2 & 3 please keep one box blank between first name, middle name & last name)

3. Father's/Husband's Name (in capital letters)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

4. Date of Birth

Day
month
year

--	--	--	--	--	--

5. Age as on the closing date of receipt of application

YEAR
MONTH
DAY

--	--	--

6. Whether claiming age relaxation?

Write: Yes/No	
---------------	--

7

Gender [Male/Female]

8

Marital Status [Married/Unmarried]

9.

Nationality	
Country	By Birth or Domicile

10

CATEGORY belongs to SC/ST/OBC/GENERAL

11. Category (write, as applicable)

Whether BSNL employee (Yes/No). If yes, mention HRMS No.	Whether undergone apprentice training in BSNL successfully(Yes/No)	Physically Disabled (<i>Attach Medical Certificate</i>)		Whether Govt. employee (Yes/No).	Whether belongs to Ex-servicemen /J&K – Please specify
		whether LOCOMOTIVE or HEARING Impairment	Percentage of disability		

12. Address for correspondence (in capital letters)

Name :									
Father's/husband's name									
Address :									
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Mobile No.	Telephone No(with STD code)								

Please affix one recent passport size photograph

Signature of Candidate ↑

13. Educational Qualification (B.E./B. Tech & Above).

Name of Degree/ Course with stream	University/Institute	Month & Year of Passing	As per the Advertismen whether eligible (Yes/No)

14. Permanent Address (in capital letters)

Name	:								
Father's/Husband's Name	:								
Address	:								
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15. Declaration to be given by OBC candidate only, eligible to avail reservation applicable to OBC:
 I.....son/daughter of Shri
resident..... of
 village/town/city..... District.....
State hereby declare that I belong to the
community 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 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 being found false or incorrect, my candidature for the post of Junior Telecom Officer 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 am willing to serve anywhere in India. I agree BSNL has the right to post/transfer me to any part of the country at their discretion. I understand that if appointed I would have to serve the Circle allotted for the period of five years.

I also understand that if appointed, I would rank junior to any JTO who had been appointed earlier by the erstwhile DoT/DTS/DTO or BSNL or any other candidate who had already qualified in the JTO examination but not appointed as JTO by BSNL so far.

Place:

Date:

(Signature of the Applicant)

Answer - A

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Scheme and Syllabus for the Recruitment of Junior Telecom Officers(Telecom)

For Direct Recruitment of Junior Telecom Officers, an objective type Examination of 3 hours duration consisting of following sectional papers will be conducted:

SCHEME

- A. Engineering Stream Section - I
 - B. Engineering Stream Section - II
 - C. General Ability Test Section - III
1. The standard of paper in Engineering subjects will be that of Engineering Degree Examination of an Indian University.
 2. In the general ability test, special attention will be paid to assess the candidate's capacity for general awareness. The standard of paper in general ability test will be such as may be expected of an Engineering Graduate.
 3. The syllabus for engineering stream papers will be as given below.

SYLLABUS

SECTION - I

1. Materials and components

Structure and properties of Electronic Engineering materials, Conductors, Semiconductors and Insulators, Magnetic, Ferroelectric, Piezoelectric, Ceramic, Optical and Superconducting materials. Passive components and characteristics, Resistors, Capacitors and Inductors; Ferrites, Quartz crystal, Ceramic resonators, Electromagnetic and Electromechanical components.

2. Physical Electronics, Electronic Devices and ICs

Electrons and holes in semiconductors, Carrier Statistics, Mechanics of current flow in a semi-conductor, Hall effect; Junction theory; Different types of diodes and their characteristics; Bipolar Junction transistor; Field effect transistors; Power switching devices like SCRs, CTOs, power MOSFETs; Basics of ICs- bipolar, MOS and CMOS types; Basics of Opto Electronics.

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3. **Network theory**

Network analysis techniques: Network theorem, transient and steady state sinusoidal response, Transmission criteria: delay and rise time Elmore's and other definition, effect of cascading. Elements of network synthesis.

4. **Electromagnetic Theory**

Transmission lines: basic theory, standing waves, matching applications, microstrip lines; Basics of waveguides and resonators; Elements of antenna theory.

5. **Electronic Measurements and instrumentation**

Basic concepts, standards and error analysis; Measurements of basic electrical quantities and parameters; Electronic measuring instruments and their principles of working: analog and digital, comparison, characteristics, applications. Transducers; Electronic measurements of non-electrical quantities like temperature, pressure, humidity etc. Basics of telemetry for industrial use.

6. **Power Electronics**

Power Semiconductor devices, Thyristor, Power transistor, MOSFETs, Characteristics and operation. AC to DC convertors; 1-Phase and 3-phase DC to DC Convertors.

AC regulators. Thyristor controlled reactors, switched capacitor networks.

Inverters: Single-phase and 3-phase. Pulse width modulation. Sinusoidal modulation with uniform sampling. Switched mode power supplies.

SECTION-II

1. **Analog Electronic Circuits**

Transistor biasing and stabilization, Small Signal analysis. Power amplifiers. Frequency response, Wide band techniques, Feedback amplifiers. Tuned amplifiers. Oscillators. Rectifiers and power supplies. Operational Amplifier, other linear integrated circuits and applications. Pulse shaping circuits and waveform generators.

2. Digital Electronic Circuits

Transistor as a switching element; Boolean algebra, simplification of Boolean functions, Karnaugh Map and applications; IC Logic gates and their characteristics; IC logic families: DTL, TTL, ECL, NMOS, PMOS and CMOS gates and their comparison; Combinational logic circuits; Half adder, full adder; Digital Comparator; Multiplexer Demultiplexer; ROM and their applications. Flip-flops, R-S, J-K, D and T flip-flops; Different types of counters and registers; waveform generators. A/D and D/A converters. Semiconductor memories.

3. Control Systems

Transient and steady state response of control systems; Effect of feedback on stability and sensitivity, Root locus techniques; Frequency response analysis. Concepts of gain and phase margins; Constant-M and Constant-N Nichol's Chart; Approximation of transient response from Constant-N Nichol's Chart; Approximation of transient response from closed loop frequency response; Design of Control Systems, Compensators; Industrial controllers.

4. Communication systems

Basic information theory: Modulation and detection in analogue and digital systems; Sampling and data reconstruction. Quantization & Coding; Time division and frequency division multiplexing; Equalisation; Optical Communication: in free space & fibre optic; Propagation of signals at HF, VHF, UHF and microwave frequency; Satellite communication.

5. Microwave Engineering

Microwave Tubes and solid state devices, Microwave generation and amplifiers, Waveguides and other Microwave Components and Circuits, Microstrip circuits, Microwave antennas, Microwave Measurements, MASERS LASERS; Microwave Propagation. Microwave Communication Systems-terrestrial and satellite based.

6. Computer Engineering

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. Personal computers and their typical uses.

7. Microprocessors

Microprocessor architecture - Instruction set and simple assembly language programming. Interfacing for memory and I/O. Applications of Microprocessors in Telecommunications and power system.

SECTION-III

General ability test

The candidate's comprehension and understanding of General English shall be tested through simple exercises. Questions on knowledge of current events and of such matter of everyday observation and experience in their scientific aspects as may be expected of an educated person. Questions will also be included on events and developments in Telecommunications, History of India and Geography. These will be of a nature, which can be answered without special study by an educated person.