BHARAT SANCHAR NIGAM LIMITED (A Government of India Enterprise)

Recruitment of Junior Telecom Officers (Telecom/Civil/Electrical) under Special Recruitment Drive(SRD) for Persons with Disabilities(PWD) In Karnataka Telecom Circle

CLOSING DATE OF RECEIPT OF APPLICATION: 05.09.2014 EXAMINATION DATE: 23/11/2014.

Bharat Sanchar Nigam Ltd. [BSNL], will fill up about 13 backlog vacancies of Junior Telecom Officers reserved for Persons with Disabilities (PWD) in Karnataka Telecom Circle through an open competitive examination to be held on 23/11/2014 as per the details given below: -

Number of vacancies for	PWD(LI)	PWD(HI)	Total
JTO (Telecom)	01	11	12
JTO (Civil)	NIL	NIL	NIL
JTO (Electrical)	-	-	01*

^{*} The vacancy is open to both PWD (LI) & PWD (HI) In respect of Physically Handicapped persons, candidates with following physical disability will be permitted:

- I) Hearing Impairment (HI) Partially Deaf
- II) Locomotive Impairment (LI) one arm or one leg or both legs affected

(Only such persons would be eligible for reservations/concessions/benefits who suffer from not less than 40% of relevant disability. 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 shall 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 the pay scale will be around Rs 31200/- excluding admissible allowances.

2. Selection & Service liability

The BSNL comprises a number of territorial Circles and functional Circles. The Junior Telecom Officer is a Circle-based Cadre and the candidates would be selected against the vacancies in Karnataka Circle. However, BSNL has the right to post any selected J.T.O. 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 Company from time to time.

- 3. Eligibility:
- **3.1**. **Nationality**: Only Indian Nationals would be eligible to apply.

3.2. Educational Qualifications:

3.2.1. JTO(Telecom)

Applicant must possess, Bachelor of Engineering/Bachelor of Technology or equivalent Engineering degree in any of the following disciplines from a recognized engineering college/university as on 31.12.2013.

i. Telecommunication, VI) Information Technology,

ii. Electronics, VII) Instrumentation

iii. Radio, iv. Computer, v. Electrical.

3.2.2. JTO (Electrical)

Applicant must possess as on 31.12.2013, Bachelor of Engineering, Bachelor of Technology Or equivalent in Electrical Engineering from a recognized Institution/University.

- **3.3(a)** Age: The external applicant for JTOs(Telecom) and JTOs (Electrical) should not be more than 30 years of age on the closing date for receipt of applications. However, the upper age-limit is relaxable as per standing instructions of Government of India on this subject for: -
- i) In respect of PWD candidates, up to 10 years for OC category; up to 15 years for SC/ST and up to 13 years for OBC.
- ii) Ex-Service Men will get the benefit of age relaxation as per central government rules;
- iii) 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 pertaining to "Residents of State of Jammu and Kashmir (Relaxation of Upper Age Limit for Recruitment to Central Civil Services & Posts) Rules 1997".

- **3.3(b)** i) For BSNL employees, the upper age-limit is relaxable upto 5 years in accordance with the instructions or orders issued by the BSNL;
- ii) Govt. servants 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, Persons 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 is as entered in Matriculation or Secondary School Leaving Certificate or in a certificate recognized 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 Municipal Corporation, Service records and the likes 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 competitive examination 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 in merit in select zone and all other eligibility conditions being equal.
- (b) The apprentices would not be required to get her/his 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 open Competitive Examination. The examination will be of three hours duration with one Question Paper containing the following three sections:-

For JTOs(Telecom)

Section-I: Engineering stream :

Section-II: Engineering stream :

Section-III: General Ability Test :

For JTOs(Electrical)

Section-I: Electrical Engineering stream: 50 questions (2 Marks each)

Section-II: Electrical Engineering stream: 50 questions (2 Marks each)

Section-III: General Awareness : 20 questions (2 Marks each)

The Question Paper will consist 120 questions and the Examination will be OMR based .The standard of Question paper in engineering subjects will be that of Engineering Examination of an Indian University.

However, there would be no separate time fixed for attempting the separate sections.

Detailed syllabus for JTOs (Telecom) and JTOs (Electrical) appear at Annexure 'A'. and Annexure 'B' respectively.

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, or Electrical 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 sheet shall be entertained in any case or under any circumstances.

6. Examination Centre

The examination centre will be at Bangalore and may be shifted if required at the sole discretion of BSNL Karnataka Telecom Circle.

7. Application Form

The specimen of the application form is included along with this Notification and the same is to be filled up **ONLINE**. Print out of the same to be taken and completed application with signature should be sent to DGM (R&E)/Exam Coordinator), O/o The C.G.M Telecom, BSNL, Karnataka Telecom Circle, No.1, Swamy Vivekananda Road, Halasuru, Bangalore-560 008 by Registered post along with all necessary documents.

. The envelope containing application form should be superscribed "Application for J.T.O (Telecom)SRD for PWD-2013" **OR** "Application for J.T.O (Electrical)SRD for PWD-2013" as the case may be, in bold letters.

8. No Fee to be payable

Since the examination is exclusively for Persons with Disabilities (PWD), there will be no examination fees for such candidates. However, an attested copy of necessary certificate in the format given as Annexure 'C' from a Govt. Hospital/Medical Board in support of his/her claim for being disabled is to be enclosed with the Application.

9. Closing date for receipt of Application Forms

Application forms complete in every respect must reach on or before **05.09.2014**. Applications received after the closing date or incomplete in any respect shall be summarily rejected and no communication in respect of the rejected applications shall be entertained. BSNL shall not be responsible for any 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 the 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 indicating their willingness to serve the Circle allotted and Company for a period of at least 5 years from the date of their appointment as JTOs. All candidates shall, before their appointment as JTOs have to successfully undergo prescribed training as per the training Schedule laid down and amended by the Company from time to time.

11. List of enclosures

- a. Three identical passport size photographs out of which two should be pasted (not to be stapled or pinned) on the application form, and one attached to the application form (not to be pasted or attested). One identical photograph to be retained by the Applicants for Admission Card purpose.
- b. Two self addressed unstamped envelopes of 27 x 12 cms size
- c. Attested copy of the Medical certificate in respect of Physically Disabled candidates in the format given in Annexure 'C'
- d. Certificate 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 or 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 personal 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.** Admit Cards: Admission cards will be issued to the eligible candidates only in due course.
- 14. No request for 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.karnataka.bsnl.co.in from time to time for any further instruction/information.
- 2. For any enquiry or in case of difficulty the applicant may contact on telephone number 080- 25306919, 080-25301742 during office hours or send an e-mail to ktkrectt123@gmail.co.in.



Email address:

BHARAT SANCHAR NIGAM LIMITED

[A Government of India Enterprise]

APPLICATION FOR RECRUITMENT OF JUNIOR TELECOM OFFICER (JTO) IN BSNL IMPORTANT NOTES: (I) BEFORE FILLING THIS FORM, READ DETAILED ADVERTISEMENT CAREFULLY. (II) ALL ENTRIES SHOULD BE MADE IN CAPITAL LETTERS.

Post applied for: Write clearly TELECOM or ELECTRICAL																													
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Name of Degree/ Course with stream	University/Institute	Month & Pas	Year of sing	As per the Advertisment whether eligible (Yes/No)		
14. Permanent Address (in	capital letters)					
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Address :				sport size		
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15. Declaration to be given	by OBC candidate only, eligible to a	 vail reser	vation app	olicable to OB	C:	
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India for the purpose on Personnel and Training is also declared that I do 3 of the Schedule to the	nunity which is recognized as a back of reservation in services as per ord Office Memorandum No. 36012/22/0 not belong to persons/sections (Cree above referred Office Memorandu 004-Estt.(Res.) Dated 14.10.2008.	ward clas ders conta 93-Estt.(S amy Laye	s by the Gained in E SCT), date er) mention	Sovernment of Department of d 8.9.1993. It ned in column		
DEC	LARATION TO BE SIGNED BY THE	APPLIC	ANT			
correct to the best of particular information given of Junior Telecom Office statement or discrepance are liable to be terminate in India. I agree BSNL	that all the statements made in the amy knowledge and belief. I undeven above being found false or incorper is liable to be rejected or cancelled in the particulars being detected and ed forthwith without any notice to make the right to post/transfer me to that if appointed I would have to	rstand the rect, my ded and in ter my ap e. I am wi any part	at in the candidature the ever open time to see the color of the color	event of any re for the post and of any mis- t, my services rve anywhere buntry at their		
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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
- 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.

3. Network theory

Network analysis techniques: Network theorem, transcient 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 Compartor; 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 convertors. 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 Propogation. 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.

SCHEME AND SYLLABUS FOR DIRECT RECRUITMENT OF JUNIOR TELECOM OFFICERS (ELECTRICAL) THROUGH OPEN COMPETITIVE EXAMINATION IN BSNL

For direct recruitment of JTO (Electrical), an objective type examination of one paper of three hours duration consisting of following sections will be conducted:-

Section-I: Electrical Engineering: 50 Questions (2 Marks Each)

Section-II: Electrical Engineering: 50 Questions (2 Marks each)

Section-III: General Awareness: 20 Questions (2 Marks Each)

- 1. The standard of paper in engineering subject will be that of Engineering Degree Examination of 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 paper will be given below.

SYLLABUS

SECTION -I ELECTRICAL ENGINEERING

1. EM Theory

Electric and magnetic field. Gauss's Law and Amperes Law. Fields in dielectrics, conductors and magnetic materials. Maxwell's equations, Time varying fields, Plane-Wave propagating in dielectric and conducting media. Transmission lines.

2. Electrical Materials

Band Theory, Conductors, Semi-conductors and Insulators. Super-conductivity. Insulators for electrical and electronic applications. Magnetic materials. Ferro and ferri magnetism, Ceramics, Properties and applications. Hall effect and its applications. Special semi conductors.

3. Electrical Circuits

Circuits elements Kirchoff's Laws. Mesh and nodal analysis. Network Theorems and applications. Natural response and forced response. Transient response and steady state response for arbitrary inputs. Properties of networks in terms of poles and zeros. Transfer function. Resonant circuits. Three phase circuits.

4. Measurements and Instrumentation

Units and Standard. Error analysis, measurement of current, Voltage, Power, Power-factor and energy. Indicating instruments. Measurement of resistance, inductance, Capacitance and frequency. Bridge measurements. Electronic measuring instruments. Digital Voltmeter and frequency counter Transducers and their applications to the measurement of non-electrical quantities like temperature, pressure, flow-rate displacement, acceleration, noise level etc.

5. Control System

Transient and steady state response of control system; Effect of feedback on stability and sensitivity, Root locus techniques; Frequency response analysis. Concept 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 system, Compensators; Industrial controllers.

SECTION-II ELECTRICAL ENGINEERING

1. Electrical Machines and Power Transformers

Magnetic Circuits – Analysis and Design of Power transformers Construction and testing. Equivalent circuits. Losses and efficiency. Regulation, Auto-transformer, 3-phase transformer. Parallel operation.

D.C. Machines, Construction, Excitation methods. Circuit models. Armature reaction and commutation. Characteristics and performance analysis. Generators and motors. Starting and speed control. Testing, Losses and efficiency.

Synchronous Machines. Construction. Circuit model. Operating characteristics and performance analysis. Induction Machines: Construction. Principle of operation. Rotating fields. Characteristics and performance analysis. Starting and speed control. Fractional KW moters. Single-phase synchronous and induction motors.

2. Power systems

Types of Power Stations, Hydro, Thermal and Nuclear Stations. Power transmission lines. Optimal power system/ transmission lines operation. Power system Transients. Power system protection circuit breakers. Relays.

3. Analog and Digital Electronics and Circuits

Semiconductor device physics, PN junctions and transistors, circuit models and parameters FET, Zener, tunnel, Schottky, photodiodes and their application, rectifier circuits, voltage regulators and multipliers, switching behavior of diodes and transistors. Small signal amplifiers, biasing circuits, frequency response and improvement, multistage amplifiers and feed-back amplifiers. Operational amplifiers wave shaping circuits. Multivibrators and flip-flops and their applications. Digital logic gate families, universal gates-combination circuits for arithmetic and logic operational, sequential logic circuits. Counters, registers, RAM and ROMs.

4. Microprocessor.

Microprocessor architecture-instruction set and simple assembly language programming. Interfacing for memory and I/O. application of Micro-processor in power system.

5. Communication Systems

Type of modulation; AM, FM and PM. Demodulations. Noise and bandwidth considerations. Digital communication system. Pulse code modulation and demodulation. Carrier communication. Frequency division and time division multiplexing.

6. Power Electronics

Power Semiconductor devices. Thyristors, Power transistor, GTO's and MOSFETS. Characteristic and operation. AC to DC Convertors; Single phase and three phase DC to DC Convertors; AC Regulators. Thyristors controlled reactors; switched capacitor network. Invertors; single phase and three phase. Pulse width modulation. Sinusoidal modulation with uniform sampling. Switched mode power supplies.

SECTION -III GENERAL ABILITY.

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. Question will also be included on events and developments in Tele Communications, History of India and Geography. These will be of a nature, which can be answered with out special study by an educated person.

Annexure-C

NAME & ADDRESS OF THE INSTITUTE/HOSPITAL

	Certificate No		Date
	<u>DIS</u>	ABILITY CERTIFICATE	
			Recent Photograph of the candidate showing the disability duly attested by the Chairperson of the Medical Board.
	fe/daughter of Shriication marks(s)	a(_
A.	Locomotors or cerebral	palsy:	
(i)	BL – Both legs affected but not ar	ms.	
(ii)	OL – One leg affected (right or left)	(a) Impaired reach	
		(b) Weakness of grip	
		(c) Ataxic	
III)	OA- One arm affected	(a) Impaired reach	
		(b) Weakness of grip	
		(c) Ataxic	
(iv)	BH - Stiff back and hips (Cannot sit	or stoop)	
(v)	MW – Muscular weakness and limit	ed physical endurance.	
В.	Blindness or Low Vision -		
		(I) B: Blind	
		(II) PB: Partially Blind	
C.	Hearing Impairment:	(i) D – Deaf	
		(II) PD- Partially Deaf	
(Delet	e the category which is not applicable	e)	

	ssment of this case	ressive/non-progressive/likely to is not recommended/ is recomme months*.	•	•
3.	Percentage of dis	ability in his/her case is p	ercent.	
4. disch	Sh./Smt./Kum arge of his/her dutie	meets the	e following physical re	equirements for
(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) (xi)	PP-can perform wo L-can perform wo KC-can perform wo S-can perform wo ST-can perform wo W-can perform wo SE-can perform wo H-can perform wo	work by kneeling and crouching. ork by bending. ork by sitting. ork by standing. ork by walking.	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No	
(Dr) (Dr) (Dr)
	Member	Member	Chair	person
M	ledical Board	Medical Board	Medica	l Board
			Medical superinten	ountersigned by the ident/CMO/Head of Hospital (with seal)

*Strike out which is not applicable.
