BHARAT SANCHAR NIGAM LIMITED (A Government of India Enterprises)

Recruitment of Junior Telecom Officers (Telecom) under Special Recruitment Drive(SRD-2013) for Persons with Disabilities(PWD) in Tamilnadu Telecom Circle

CLOSING DATE OF RECEIPT OF APPLICATION: 05/09/2014

EXAMINATION DATE: 23/11/2014 (SUNDAY)

Bharat Sanchar Nigam Limited of **Tamilnadu Circle(BSNL)** will fill up about 4 **backlog vacancies** (subject to variation depending on the availability of vacancies) of Junior Telecom Officers (JTO) reserved for Persons with disabilities (PWD) through an open competitive examination under **Special Recruitment Drive** to be held on **23/11/2014** as per the details given below.

Number of vacancies	PWD(LI)	PWD(HI)	Total
JTO(Telecom)	-	4	4

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, etc. as admissible as per company rules.

The emolument at the minimum of the pay scale will be around Rs 25,000/- excluding HRA, perks, medical benefits, etc.

2. Selection & Service liability

The Junior Telecom Officer is a Circle-based Cadre and the candidates would be selected against the vacancies in Tamilnadu Circle and required to serve minimum of 5 years in Tamilnadu Circle only or until they are promoted to All India Cadre, whichever is earlier. 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 Corporation from time to time.

3. Eligibility

- 3.1 **Nationality:** Only Indian Nationals would be eligible to apply.
- 3.2 Educational Qualification:

3.2.1 **JTO (TELECOM)**

Applicant must possess as on 31/12/2014, Bachelor of Engineering/ Bachelor of Technology or equivalent Engineering Degree in any of the following disciplines from a recognized engineering college/University:

- i).Telecommunication
- ii).Electronics
- iii).Radio
- iv).Computer
- v).Electrical
- vi).Information Technology
- vii).Instrumentation
- viii) Industrial Electronics

3.3.(a) AGE

The external applicant for JTOs (Telecom) 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:-

- For PWD candidates upto 10 years for OC candidate; 15 years for SC/ST and 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 by upto 5 years in accordance with the instructions or orders issued by the BSNL
 - ii) BSNL employees who are eligible to apply for the post of JTO(T) should send their applications through their controlling unit.
 - **iii)** 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 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 will be taken for determining the age of the candidate.. 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 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 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 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 : 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 question. The standard of papers 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 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.

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:

- 6.1 Examination centre will be CHENNAI for Tamilnadu Circle candidates.
- 6.2 Address to which applications are to be sent

The Assistant General Manager(Rect& Estt))
O/o the CGM Telecom, BSNL
Tamilnadu Telecom Circle
Fifth Floor, New administrative Building
No.16, Greams Road,
Chennai-600 006.

6.3 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 AGM(Rect&Estt), O/o the CGM Telecom, BSNL, Tamilnadu Telecom Circle, No-16,Greams Road, Chennai-600 006". The envelope containing application form should be marked "Application for J.T.Os (Telecom) Examination-2013 for PWD" in bold letters on top of the envelope.

Original advertisement or photocopy 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

Since the examination is exclusively for Persons with Disabilities (PWD), there will be no examination fees for such candidates. However, a necessary certificate from a Govt. Hospital/Medical Board in support of his/her claim for being disabled has to be attached with the application form as per the enclosed proforma (Annexure 'B') by the disabled persons who

would otherwise be eligible for appointment to the post on the basis of the standards of medical fitness prescribed for the post (including any concessions specifically extended to the physically disabled).

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 application forms 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 fulfill 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 fulfill 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 fulfillment of all eligibility conditions.

10. (a) Travelling Allowance to SC/ST candidates:

The applicants belonging to SC/ST categories will be entitled to T.A for appearing in the examination on 23/11/2014 as per provisions of Ministry of Finance (Deptt of Expenditure) O.M.No.19014/3/77-E IV (B) dated 17.02.1978. SC/ST candidates shall eligible for Travelling Allowance by second class sleeper passenger train fare by the shortest route from the railway station nearest to their normal place of residence, or from which they actually performed the journey, whichever is nearer. To the place of examination centre and back to the same station provided the distance travelled by train each way exceeds 30 KMs. The candidates are required to produce the following documents on the exam date.

- (a) Filled up TA Form in the format attached as per ANNEXURE- C
- (b) Unemployment Certificate issued by MP/MLA or Gazetted Officer of the place where the candidate normally resides.
- (c) Copy of Rail/Bus Ticket of the journey performed by the candidate.

10.(b) Pre-recruitment training (for SC/ST /Minority communities only):

Necessary arrangement will be made for conduct of pre examination training belonging to the eligible SC/ST/Minority candidates before conduct of examination. The venue and date will be intimated later in our website.www.tamilnadu.bsnl.co.in. All expenses regarding travelling, boarding, lodging etc., will be borne by the candidates for attending this pre examination training at the declared venues.

11. 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 Corporation 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 plan laid down and amended by the Company from time to time.

12. List of enclosures:

- a). Four identical passport size photographs out of which Two should be pasted (not stapled or pinned) on the application form and the other two attached to the application(not to be pasted or attested).
- b). Two self addressed unstamped envelopes of 27 X 12 cms size.
- c). Medical certificates in respect of Physically Handicapped candidates as per the enclosed proforma.(ANNEXURE-B)
- d). Certificate of apprentice training if undertaken in BSNL successfully.

13 **Disqualifications**: No person

- 13.1 who has entered into or contracted a marriage with a person having a spouse living, or
- 13.2 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.

14. No request for withdrawal of candidature received from a candidate after he/she has submitted his/her 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.tamilnadu.bsnl.co.in from time to time for any further instruction/information.
- 2. For any Inquiry or in case of any difficulty, the applicant may contact on telephone number 044-28290639, 044-28290339 during office hours.
- 3. The application form of unsuccessful candidates and 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 (TELECOM) UNDER SPECIAL RECRUITMEN DRIVE FOR PWD IN BSNLTAMILNADU CIRCLE

IMPORTANT NOTES: (I) BEFORE FILLING THIS FORM, READ DETAILED ADVERTISEMENT CAREFULLY.
(II) ALL ENTRIES SHOULD BE MADE IN CAPITAL LETTERS.

1. Post, applied for:

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Signature of the Applicant ↑

13. Educational Quali	fication (B.E./B. Tech & Above).		
Name of Degree Course with strea	, and the second	Month & Year Passing	As per the Advertisement whether eligible (Yes/No)
14. Permanent Addres	ss (in capital letters)		
Name : Father's/Husbar Address :	id's Name :	pass	se affix one recent sport size tograph without station
Village/town/city	given by OBC candidate only, eligibresidenthereby declar munity which is recognized as a base of reservation in services as per ng Office Memorandum No. 36012/2: to not belong to persons/sections (Cre above referred Office Memorandum de t.(Res.) Dated 14.10.2008.	son/daughterI re that I ackward class by orders contained 2/93-Estt.(SCT), d	of Shri of District belong to the the Government of I in Department of lated 8.9.1993. It is oned in column 3 of
1	DECLARATION TO BE SIGNED BY T	HE APPLICANT	
correct to the best of information given about Telecom Officer is liadiscrepancy in the patterminated forthwith whas the right to post/tappointed I would have I also understate earlier by the erstwhile	eclare that all the statements made in my knowledge and belief. I understate by being found false or incorrect, nuble to be rejected or cancelled and articulars being detected after my applithout any notice to me. I am willing to ransfer me to any part of the country e to serve the Circle allotted for the peared that if appointed, I would rank junic to DOT/DTS/DTO or BSNL or any other but not appointed as JTO by BSNL server.	and that in the event candidature for in the event of a cointment, my serve anywhere in at their discretion riod of five years. To to any JTO who er candidate who here	ent of any particular rethe post of Junior ny mis-statement or ices are liable to be India. I agree BSNL. I understand that if had been appointed
Place:		(Signaturo	of the Applicant)

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.

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.

NAME & ADDRESS OF THE INSTITUTE/HOSPITAL

Certificate No		Date
	DISABILITY CE	RTIFICATE
		Recent Photograph of the candidate showing the disability duly attested by the Chairperson of the Medical Board.
son/wife/daughter of Shri		agesexng from permanent disability of following
A. Locomotors or cere	ebral palsy :	
(i) BL – Both legs affected but	not arms.	
(ii) OL – One leg affected (right of	or left) (a) Impair	red reach
	(b) Weak	kness of grip
	(c) Ataxio	
(iii) BH - Stiff back and hips (Can	not sit or stoop)	
(iv) MW – Muscular weakness ar	nd limited physical	l endurance.
B. Blindness or Low Vision:		
(i) B: Blind		
(ii) PB: Partially Blind		
C. Hearing Impairment:		
(i) D - Deaf		
(ii) PD - Partially Deaf		

B-(i)(ii) & C (i) - not applicable in BSNL

(Delete the category whichever is not applicable)

Re-as	ssessment of thi	is progressive/non-progressive/ is case is not recommended r's months*.	•	•
3.	Percentage of d	lisability in his/her case is	. percent.	
4. disch	Sh./Smt./Kum arge of his/her du	meets ties:-	the following physical	requirements for
(i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) (x) (xi)	PP-can perform w KC-can perform w S-can perform w ST-can perform w ST-can perform w-can perform H-can perform w H-can perform	n work by kneeling and crouching work by bending.	Yes/No Yes/No	
(Dr) (Dr) (Dr)
	Member	Member	Ch	airperson
M	edical Board	Medical Board	Medio	cal Board
			Medical superinten	ountersigned by the ident/CMO/Head of Hospital (with seal)

^{*}Strike out which is not applicable.

(A Government of India Enterprise) Office of Chief General Manager Tamilnadu Telecom. Circle

	Written Te	st Exam.	for the po	st of JTO (SRD-2	013) at	Co	entre.
1.	Name of Ap	plicant		:			
2.	Roll Number	ſ		:			
3.	Whether SC	or ST					
	(Attested ph	otocopy o	of the certifi	icate enclosed):			
4.	Residential A	Address		:			
	(As given in	Applicatio	n Form)				
5.	Address from	n where jo	ourney has	been			
	performed	•	•	:			
6.	Whether en	ployed or	not	:			
7.		-		State Govt. or			
	Central/Stat	e Govt. Co	orporation,	Public Sector			
	Undertaking. Private Sector etc :						
8.	Details of Jo	•		re etc:			
Date of		То	Mode of	Class of Travel	Distance	Ticket	Fare
Journey	,		Journey	Bus/ Rail	travelled (one side)	number	(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
Batea.	Signature of Applicant

Note: 1. Candidate will have to submit original ticket for inward journey. The payment will be made by BSNL through cheque.

For use of BSNL

<u>ı oı</u>	USE OF DOINE
Verified by	
	(Signature of Designated Officer of BSNL)
Admissible Amount Rs	_
	Signature of DDO