



# BHARAT SANCHAR NIGAM LIMITED

(A GOVT.OF INDIA ENTERPRISE)  
QUALITY ASSURANCE AND INSPECTION CIRCLE  
II Floor, Sanchar Complex, WMS Compound,  
Jayanagar 5th Block, 9th Main, 47th Cross, Bengaluru-560041

## TECHNICAL SPECIFICATION EVALUATION CERTIFICATE

No. TSEC/BNG/B/OTD-88130:2019 /203 MAR 2024

Date: 21.03.2024

THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED BELOW CONFORMS TO TEC SPECIFICATION (GR / STANDARD) No. MENTIONED BELOW AND IS APPROVED FOR PROCUREMENT BY BSNL.THIS CERTIFICATE IS ISSUED SUBJECT TO THE TERMS AND CONDITIONS STIPULATED IN THE ANNEXURE.

PRODUCT: Optical Time Domain Reflectometer (Mini) Type-A

MODEL No: 1131

SPECIFICATION NO. : TEC Standard No: TEC 88130:2019  
(Earlier Specification No. TEC/GR/TX/OTD-002/04 AUG 2019)

SOFTWARE VERSION: NIL

ISSUED ON : 21.03.2024

VALID FROM : 01.07.2023  
TO  
30.06.2026

ISSUED TO :  
(Manufacturer)

M/s. Andig Systems,  
34/2, 3<sup>rd</sup> Floor, 10<sup>th</sup> Cross,  
Rajaji Nagar, 1<sup>st</sup> N Block  
Bangalore-560010

- REMARKS: 1. This TSEC is issued due to renewal and GR upgradation of TSEC No. TSEC/BNG/J/OTD-02/03/033. JUN 2020 dated 22.06.2020 valid upto 30.06.2023.  
2. List of Accessories to be supplied along with the product is enclosed as Annexure-A.



*Uma S.*  
AGM (TSA)  
O/o CGM (QA & INSP), BNG



## ANNEXURE

No. TSEC/BNG/B/OTD-88130:2019 /203 MAR 2024

Date: 21.03.2024

### I. TERMS AND CONDITIONS

- I. Quality Assurance and Inspection Circle may at any time and at its absolute discretion, for any reason(s) as it deems fit, suspend or cancel the TECHNICAL SPECIFICATION EVALUATION CERTIFICATE (TSEC). QA and Inspection Circle may modify any of the terms of the Certificate or specifications, which the holder must at his own expense, may comply with.
- II. **No modification without necessary permission /approval from QA and Inspection Circle is permitted in design (Hardware/Software), Engineering and /or facilities in the approved model subsequent to the issue of this certificate. In case of any modification in the product without permission/approval from QA and Inspection Circle, the certificate shall be deemed to have been cancelled and may need fresh certificate.**
- III. During the validity of certificate, QA and Inspection Circle reserves the right to inspect and or test this product at any premises where it is in use, or at the place of manufacturer. If any deterioration in performance of the approved product is noticed during inspection and / or testing or its use in BSNL/BBNL/MTNL network, the QA and Inspection Circle serves the right to cancel/suspend the Certificate.
- IV. In case of any dispute at any stage during the validity of this Approval the verdict of the Competent Authority of BSNL QA and Inspection Circle shall be final and binding on the manufacturer.
- V. The certificate is valid only up to the date mentioned in the certificate and may be renewed, if required, by applying at least three months prior to the expiry date of this certificate. After expiry of the certificate, the case will be treated as a fresh case.
- VI. **Issue of this Approval does not ensure that the BSNL shall necessarily place order on the manufacturer for this product. It merely qualifies the product for meeting the clauses of the relevant Generic Requirement (GR). Actual supply of equipment to BSNL shall depend on their procurement policy and procedures.**
- VII. For any change in the source/Raw material, fresh Approval should be obtained.
- VIII. The Approved equipment/product shall be clearly marked or affixed with following
  - a) Model No. and Serial number
  - b) Manufacturer name
  - c) TSEC number

II. Infrastructure Assessment No. CGM (QA & I)/TSEC/BNG/B/IA/23-24/092 dated 07.03.2024, valid up to: 31.03.2029



*Uma.S.*  
AGM (TSA)  
O/o CGM (QA & INSP), BNG

TO:

1. Sr. DDG, TEC, K.L.Bhavan, Janpath, New Delhi
2. PGM (MM) , Bharat Sanchar Bhavan, Janpath, New Delhi
3. GM (South) QA & Inspection, New Delhi
4. DGM (QA & INSP), Bangalore
5. DGM (CACT), QA & Inspection, Bangalore
6. DGM (CG), QA & Inspection, Bangalore
7. Office Copy / Guard File
8. Applicant : **M/s Andig Systems,**

**34/2, 3<sup>rd</sup> Floor, 10<sup>th</sup> Cross,  
Rajaji Nagar, 1<sup>st</sup> N Block  
Bangalore-560010**

*S. Shivaprasad*

SDE (TSA)  
O/o CGM (QA & INSP), BNG



## ANNEXURE-A

No. TSEC/BNG/B/OTD-88130:2019 /203 MAR 2024

Date: 21.03.2024

Name of the Equipment: OTDR

Model No: 1131

### OPTICAL TIME DOMAIN REFLECTOMETER (Packing list)

Sl.No	Description	Quantity	Remarks
1	Optical Time Domain Reflectometer	1 no	ok
2	AC/DC Adapter 10V/3A	1 no	ok
3	Dummy Fibre/Launch Fibre; 500meters length of tight jacket(900 microns) FC-PC connectorised single mode fibre (as per ITU-T Rec 652) in suitable metallic box (hermitically sealed) with input & output connector-adapter mounted outside the box	1 no	ok
4	Universal Connector Adapter	2 nos for each type of connector	ok
5	Pen Drive/Flash Memory 16GB or Higher	2 nos	ok
6	Bare Fibre Connector for each port	1 no for each port	ok
7	Carrying Case	1 no	ok
8	Basic Trouble Shooting card	1 no	ok
9	Operational Manual (Hard Copy & Soft Copy)	1 no	ok



  
BRIJESH SINGH  
Sub Divisional Engineer (QA & I)  
Telecom QA Circle, BSNL  
Tirupati