



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

QF-105

No.: CGM (QA & I)/TSEC/NCR/B/IA/25-26/147

Dated: 08.12.2025

INFRASTRUCTURE ASSESSMENT ADVICE

1	Name and Address of the Manufacturer	M/s Aksh Optifibre Limited, F-1080, Phase-III, RIICO Industrial Area, Bhiwadi-301019, District: Alwar (Rajasthan)
2	Reference Letter of CGM(QA) Bangalore	CGM(QA&IC)/TSA/NCR/EP/I-896/430/24-25/8 Dated : 12.12.2024 & Registration No.: NCR/448/24-25 Dated 12.12.2024 CGM (QA&IC)/TSA/NCR/EP/I-966/019/25-26/7 dated 03.07.2025 and Registration No. NCR/099/25-26 dated 02.07.2025 & CGM (QA&IC)/TSA/NCR/EP/I-916/482/24-25/08 dated 02.07.2025 with Registration No. NCR/098/25-26 dated 02.07.2025
3	Name of the product (s)	A) Metal Free O.F. Cable (G652D Fibre) B) Metal Free O.F. Cable with double HDPE Sheath (G652D Fibre) C) Self-Supporting Metal Free Aerial O.F. Cable (For Hilly & Rural Area) D) Self-Supporting Metal Free Aerial O.F. Cable (For Urban Areas) E) High Count Metal Free O.F. Cable (Ribbon type) for Access Network F) Micro Duct Optical Fibre Cable G) Optical Fibre Drop Cable with Installation Accessories H) Optical Fibre Cable for FTTH Applications (G657A Fibre) I) Armoured Optical Fibre Cable for Direct Burial J) Armoured Optical Fibre Cable for Duct Application K) Metal Free Ribbon Optical Fibre Cable with double HDPE sheath (G652 D Fibre) (48F/96F/288F) L) a) Type A: 48 Ribbon Fiber Intrusion Proof Fiber Optic Cable [(2x12F Ribbon G.655 + 2x12F Ribbon G.652D) +8F G.652D Sensory Fibers] for NLD Routes. b) Type B: 48 Ribbon Fiber Non Intrusion Proof Fiber Optic Cable [2x12F Ribbon G.655 + 2x12F Ribbon G.652D] for NLD Routes. c) Type C: 48 Ribbon Fiber Intrusion Proof Fiber Optic Cable [4x12F Ribbon G.652D + 8F G.652D Sensory Fibers] for Access Network. d) ADSS Optical Fibre Cable for Aerial Installation Type B: 48F Ribbon Fiber Non Intrusion Proof Fiber Optic Cable [2x12F Ribbon G.655 + 2x12F Ribbon G.652D] for NLD Routes. e) ADSS Optical Fibre Cable for Aerial Installation Type C: 48F Ribbon Fiber Intrusion Proof Fiber Optic Cable [4x12F Ribbon G.652D + 8F G.652D Sensory Fibers] for Access Network. M) Self-Supporting (ADSS) Metal Free Optical Fibre Cables (Type-I A, Type-I B, Type-II A, Type-II B, Type-III A & Type-III B for installation along the power line alignments. N) Flexible Optical Fibre Cable (For Indoor Application) O) Armoured Optical Fibre Cable for Underground duct application (Type- I & Type-II) P) Aerial Drop Optical Fibre Cable with Installation Accessories (For Last Mile Application) (Short span) Q) 2F/4F Optical Fibre Drop Cable (G.657A) for extending last mile connectivity to FTTH Customers R) Non Zero Dispersion Shifted Single Mode Metal Free Optical Fibre Cable S) Outdoor Drop Optical Fibre Cable (Fig "8" Type) with installation Accessories. T) Non Zero Dispersion Shifted Single Mode Armoured Optical Fibre Cable U) 6F Aerial Drop Optical Fibre Cable for Last Mile Applications (Short Span)



**BHARAT SANCHAR NIGAM LIMITED**

(A GOVT.OF INDIA ENTERPRISE)

QUALITY ASSURANCE & INSPECTION CIRCLE

II Floor, Sanchar Complex, WMS Compound

Jayanagar 5th Block, 9th Main, 47th Cross, Bengaluru - 560041

QF-105

No.: CGM (QA & I)/TSEC/NCR/B/IA/25-26/147

Dated: 08.12.2025

4	Specification No.(with amendments if any)	V) 24F & 48F Armoured Optical Fibre Cable for Underground duct application with G652D Fibre (Semi Dry Core) A) TEC 85140:2007 DT-01.06.2007 B) As per BSNL & BBNL Tenders C) TEC-85020: 2018, DT 01/04/2018 D) TEC 85090, 01.04.2018 E) TEC-85030:2006, DT 01.03.2006 F) TEC-851300:2005, DT-01.07.2005 G) TEC-85120:2021, DT :01.03.2021 H) TEC 85160:2021 DT: 01.03.21 I) TEC-85010:2003, DT-01.09 2003 J) TEC-85170:2011, DT-01.03.2011 K) Tender No.CA/NOFN/OFC/T-609/2017 Dated 15.12.2017 with Amendment Dated 12.01.2018 Tender No. CA/MMT/NOFN/Selection of PIA/T-610/2017Dated 29.12.2017 L) Tender No. CA/CNP/NFS OFC/T-441/2013 dated 21.06.2013 M) TEC-85190:2022, DT-01.03.2022 N) TEC-85110:2021, DT-01.03.2021 O) TEC-85170:2011DT-01.03.2021 P) TEC-85200:2022 DT-01.03.2022 Q) NWP-Broadband Cell, BSNLCO LetterNo.32-64/2013-NWP-B/FTTH Dated 09.12.2013 WITH Addendum Dated 13.01.2014) R) TEC-85050:2015, DT-01.12.2015 S) TEC-85100:2005, DT-01.09.2005 T) GR/OFC-08/01 Aug 2001, Amndt. No. 1 dated 29.06.2004 U) TEC 85220:2022 dated 01.09.2022 V) TEC 85170:2024
5	Date of infrastructure Assessment	27.06.2025, 28.08.2025 to 29.08.2025
6	Proposed manufacturing plan (Indigenous/CKD/SKD/HTOT etc)	Indigenous
7	Collaborations (Foreign) if any	Nil
8	Present status of manufacturing	Under Regular production/Manufacturing
9	Test infrastructure	
	a) Inward Goods Inspection (IGI)	Adequate
	b) Plants and Machineries	Adequate
	c) Test jigs	Adequate
	d) Final product testing facilities	Adequate
10	Repair facilities	Not Applicable
11	Manufacturing Facility a) Mechanical parts Assembly b) Card/ Unit Level Assembly	Not Applicable Not Applicable
12	Production Capacity	A) Metal Free Optical Fibre Cable a) Up to 48F: 235620 Km /Annum/3 Shifts OR b) For 96F: 176715 Km /Annum/3 Shifts OR B) Metal Free O.F. Cable with double HDPE Sheath (G652D Fibre)



No.: CGM (QA & I)/TSEC/NCR/B/IA/25-26/147

Dated: 08.12.2025

		<p>160650 Km /Annum/3 Shifts OR</p> <p>c) Type C: 48 Ribbon Fiber Intrusion Proof Fiber Optic Cable [4x12F Ribbon G.652D + 8F G.652D Sensory Fibers] for Access Network 85680 Km /Annum/3 Shifts OR</p> <p>d) ADSS Optical Fibre Cable For Aerial Installation Type B: 48 Ribbon Fiber Non Intrusion Proof Fiber Optic Cable [2x12F Ribbon G.655 + 2x12F Ribbon G.652D] for NLD Routes 160650 Km /Annum/3 Shifts OR</p> <p>e) ADSS Optical Fibre Cable For Aerial Installation Type C: 48 Ribbon Fiber Intrusion Proof Fiber Optic Cable [4x12F Ribbon G.652D + 8F G.652D Sensory Fibers] for Access Network 85680 Km /Annum/3 Shifts OR</p> <p>M) ADSS Optical Fibre Cable For laying along power line alignments</p> <p>a) Upto 48F: 207060 Km /Annum/3 Shifts OR b) For 96F: 155295 Km /Annum/3 Shifts OR</p> <p>N) Flexible Optical Fibre Cable (For Indoor Application)</p> <p>a) 171360 Km /Annum/3 Shifts OR</p> <p>O) Armoured Optical Fibre Cable for Underground Duct Application (Type-I & Type-II)</p> <p>a) Upto 48F: 207060 Km /Annum/3 Shifts OR b) For 96F: 155295 Km /Annum/3 Shifts OR</p> <p>P) Aerial Drop Optical Fibre Cable with accessories (For Last Mile Application)</p> <p>a) 385560 Km /Annum/3 Shifts OR</p> <p>Q) 2F/4F Optical Fibre Drop Cable (G.657A) for extending last mile connectivity to FTTH Customers</p> <p>a) 385560 Km /Annum/3 Shifts OR</p> <p>R) Non Zero Dispersion Shifted Single Mode Metal Free Optical Fibre Cable</p> <p>a) Upto 48F: 235620 Km /Annum/3 Shifts OR b) For 96F: 176715 Km /Annum/3 Shifts OR</p> <p>S) Outdoor Drop Optical Fibre Cable (Fig "8" Type) with installation Accessories.</p> <p>a) 385560 Km /Annum/3 Shifts OR</p> <p>T) Non Zero Dispersion Shifted Single Mode Armoured Optical Fibre Cable</p> <p>a) Upto 48F: 207060 Km /Annum/3 Shifts OR b) For 96F: 155295 Km /Annum/3 Shifts</p> <p>U) 6F Aerial Drop Optical Fibre Cable for Last Mile Applications (Short Span) 385560 km/Annum/3Shift OR</p> <p>V) 24F & 48F Armoured Optical Fibre Cable for underground Duct Application with G652D Fibre (Semi Dry Core) Upto 48F : 207060 Km/Annum/3 Shifts</p>
13	Conditions, if any	Nil



BHARAT SANCHAR NIGAM LIMITED

(A GOVT.OF INDIA ENTERPRISE)

QUALITY ASSURANCE & INSPECTION CIRCLE

II Floor, Sanchar Complex, WMS Compound

Jayanagar 5th Block, 9th Main, 47th Cross, Bengaluru - 560041

QF-105

No.: CGM (QA & I)/TSEC/NCR/B/IA/25-26/147

Dated: 08.12.2025

- a) Upto 48F: 235620 Km /Annum/3 Shifts **OR**
b) For 96F: 176715 Km /Annum/3 Shifts **OR**

C) Self-Supporting Metal Free Aerial O.F. Cable (For Hilly & Rural Area)

- a) Upto 48F: 207060 Km /Annum/3 Shifts **OR**
b) For 96F: 155295 Km /Annum/3 Shifts **OR**

D) Self-Supporting Metal Free Aerial O.F. Cable (For Urban Areas)

- a) Upto 48F: 207060 Km /Annum/3 Shifts **OR**
b) For 96F: 155295 Km /Annum/3 Shifts **OR**

E) High Count Metal Free O.F. Cable (Ribbon Type for Access Network)

- a) For 48/96F : 155295 Km /Annum/3 Shifts **OR**
b) For 144F: 103530 Km /Annum/3 Shifts **OR**
c) For 288F: 51765 Km /Annum/3 Shifts **OR**
d) For 576F: 25883 Km /Annum/3 Shifts **OR**

F) Micro Duct Optical Fibre Cable

- a) 207060 Km /Annum/3 Shifts **OR**

G) Optical Fibre Drop Cable with Installation Accessories

- a) 385560 Km /Annum/3 Shifts **OR**

H) Optical Fibre Cable for FTTH Applications (G657A Fibre)

- a) 385560 Km /Annum/3 Shifts **OR**

I) Armoured Optical Fibre Cable for Direct Burial

- a) Upto 48F: 207060 Km /Annum/3 Shifts **OR**
b) For 96F: 155295 Km /Annum/3 Shifts **OR**

J) Armoured Optical Fibre Cable for Duct Application

- a) Upto 48F: 207060 Km /Annum/3 Shifts **OR**
b) For 96F: 155295 Km /Annum/3 Shifts **OR**

K) Metal Free Ribbon Optical Optical Fibre Cable with double HDPE sheath (G652 D Fibre) (48F/96F/288F)

- a) For 48F: 155295 Km /Annum/3 Shifts **OR**
b) For 96F: 77648 Km /Annum/3 Shifts **OR**
c) For 288F: 25883 Km /Annum/3 Shifts **OR**

L) Duct and ADSS Optical Fibre Cable for Aerial Installation:

- a) Type A: 48 Ribbon Fiber Intrusion Proof Fiber Optic Cable [(2x12F Ribbon G.655 + 2x12F Ribbon G.652D) +8F G.652D Sensory Fibers] for NLD Routes
85680 Km /Annum/3 Shifts **OR**

- b) Type B: 48 Ribbon Fiber Non Intrusion Proof Fiber Optic Cable [2x12F Ribbon G.655 + 2x12F Ribbon G.652D] for NLD Routes





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

QF-105

No.: CGM (QA & I)/TSEC/NCR/B/IA/25-26/147

Dated: 08.12.2025

14	Recommendation	Recommended for the Products at SI no. 3 as per specifications at SI. no. 4 and production capacities at SI no. 12 above.
15	Remarks, if any	This IAA is issued due to inclusion of 24F & 48F Armoured OFC against GR tec 85170:2024 in existing IAA No. CGM (QA&I)/TSEC/NCR/B/IA/25-26/099 dated 04.09.2025 valid up to 30.09.2025 and supersedes the same.
16	Validity (5 years)	30.09.2029



AGM (TSA)
O/o CGM (QA&I), Bengaluru

Copy to:

1. PGM (North), QA & Inspection Circle, New Delhi
2. DGM, QA & Inspection Circle, New Delhi.
3. DGM (CG), QA & Inspection Circle, Bangalore.
4. DGM (CACT) Bangalore
5. M/s Aksh Optifibre Limited, F-1080, Phase-III, RIICO Industrial Area, Bhiwadi-301019, District: Alwar (Rajasthan)
6. IAA Guard File/Concerned file.