



INTERNET, A BASIC RIGHT

**Expression of Interest for Leasing
of Dark Fibers of OPGW & ADSS
Installed
in
Kerala Fibre Optic Network**

Tender Ref No: KFON/EOI-Dark Fiber/2023-24 / 02 Dt
30.06.2023

June 2023

Published by
Kerala State Information Technology Infrastructure
Limited *First Floor, Saankethika, PF Road, Pattom palace*
P.OThiruvananthapuram- 695004

SCOPE :

There is an increasing demand for dark fibre in the Telecom market in view of factors such as focus on increasing digitization and e-governance by the Govt. of Kerala, substantial increase in bandwidth-hungry applications, emphasis on real-time data analytics and Artificial Intelligence, requiring 5G technology, etc. Therefore, to leverage KFON's captive OFC network, KFON intends to empanel Telecom Service providers for a minimum period of Two Years for leasing its spare dark fiber left after its own captive usage. KFON has Infrastructure Category – I (IP-I) registration, under which it can lease spare dark fibre along its OPGW/ADSS network to Telecom Service Providers (TSP) on long-term basis.

Background:

KFON has an extensive Optical fiber network spreading over 25000 KMs (Including OPGW and ADSS) across the state of Kerala in the existing towers of Transmission network and electricity distribution poles of KSEB. KFON got 24 fibers in the deployed OPGW network and 48/24/12 Core ADSS cables. Out of this, some of the fibers are used for KFON captive purpose and remaining fibers of OPGW/ADSS network have been proposed for leasing out along the route length of over 25000 KMs. Communication Network diagram showing the POPs of communication network of KFON Optical fibers proposed for leasing is enclosed in Annexure-I. Section wise details are placed under Annexure-II.

Intent of EOI:

KFON intends to lease out Spare Dark Fibers to interested Internet Service providers /Telecom operator /Companies in India herein called as Lessee. KFON is interested in offering its spare OPGW/ADSS Dark Fibers for commercial Telecom use on as is where is basis. These spare fibers owned by KFON are presently not in use and available for use by the party to whom spare fibers shall be leased out. However, KFON reserves its first right to use the above spare fibers in case such need arises. In such case KFON may use leased out fibers subject to mutual consent. In case fibers are not available or lessee is not agreeable to allow usage by KFON, KFON shall have right to terminate lease agreement on three (3) months' notice. In case of termination of agreement, lease charges shall be payable in proportion to the time, spare fibers have been rented on lease.

Expression of Interest (EoI):

KFON hereby invites applications for EoI from interested parties who wish to utilize the offered spare fibers on commercial (as passive infrastructure) basis. Applicants shall ensure that they meet the Eligibility Criteria as defined at Annexure-I and Qualifying requirements as defined below. The application shall be submitted strictly as per KFON format along with relevant supporting documents in support of meeting Eligibility Criteria. KFON will consider the applications for suitability in line with the terms and conditions brought out hereunder and shortlist the applicants based on the information provided by them vide this EoI. KFON may call the parties who have submitted their Expression of Interest for discussions regarding the terms & conditions for leasing of spare dark fibers, limitations if any and to comply to the queries of the applicants. Applicants finally selected based on the EoI process will be invited to enter into definitive Lease Agreement with KFON to this effect.

Minimum Lease Rate:

Lease rate will be charged as below. Tax applicable will be charged extra.

Period		Rate of Item (Rs)				Rack Collocation Charges (Rs)	
From	To	Fiber (Per KM/fiber/Annum)				Per Rack Unit/Annum#	OTC/OFC Drop (Rs)
		OPGW		ADSS			
		DWSM	DSSM	Intercity routes	Intracity routes*		
01-04-2023	31-03-2024	11825	10644	6000	4000	11900	8750
01-04-2024	31-03-2025	12771	11496	6600	4400	12495	9188
01-04-2025	31-03-2026	13793	12415	7260	4840	13120	9647

* Not applicable in Municipal corporations and Grade-1 Municipalities. Intercity rates shall be applicable at these locations.

The mentioned rack collocation charges are applicable only for passive devices. For active devices up to 3 KVA power rating, an additional amount of Rs 5000/month shall be applicable.

For further period, A yearly hike of 10% on the ADSS, 8% on the OPGW and 5% on Collocation charges shall be applicable.

Offered SLA:

KFON shall endeavor to maintain the dark fiber on the offered lease OFC network with 99.9% of availability for OPGW and 99.5% of availability for ADSS respectively, on monthly basis, with the exception of Force Majeure and Planned Outages.

- a. The uptime percentages will be calculated up to two decimal points, e.g. 99.99%
- b. The downtime will be calculated in Hours, rounded up to the two decimal points.
- c. The Penalty will be applicable only to individual links separately. Thus, if the availability of only particular A – B link goes below offered SLA, the penalty will be imposed only for that link.
- d. The monetary value of the penalty on monthly basis shall be computed by taking / evaluating the compounded down time on a pro-rata basis from the monthly service fee.

Maximum Time to Respond/ Mean Time to Resolve (MTTR)

Network Component	Maximum Time to Respond	Mean Time to Resolve
OPGW/ADSS OFC	30 Minutes	6 Hours

Calculation of % Uptime:

The link availability in terms of % uptime is calculated as below and then rounded up to two decimal points:

% Uptime =

$$\frac{((\text{no.of days in a month} * 24 \text{ hours} * 60 \text{ min.}) - \text{link down time(in mts)}) * 100}{(\text{No.of days in a month} * 24 \text{ hours} * 60 \text{ min.})}$$

(No.of days in a month * 24 hours * 60 min.)

General information and Terms & Conditions:

- a. List of OPGW/ADSS Links proposed to be leased is enclosed along with length in Kms & end stations in Annexure-I
- b. Fibers shall be leased for a minimum period of Two years subsequently lease can be renewed on annual basis as per mutually agreed terms and conditions for a further period of 10 years.
- c. Fibers shall be allocated based on availability of spare fibers. Participation in this EoI does not ensure allocation of fibers.
- d. Preference shall be given to the bidders who are interested in leasing large quantities of fibers as well as longer leasing periods.
- e. OPGW/ADSS fibers shall be leased on as is where is basis.
- f. UPS supply shall be arranged by KFON at the KFON's POP wherever possible. Lessee need to indicate the approximate power requirement. In, locations where KFON is unable to provide the power supply, the Lessee need to make necessary arrangements on their own.
- g. Tapping of fibers will be only at the KSEB substations/KFON POP for OPGW/Intercity ADSS. Mid-section tapping is not allowed. In case of Intra-city routes, tapping of fibers shall be done at KSEB Substations/KFON POPs as well as KFON's Joint enclosure/street box. No new joint enclosure shall be created for the purpose of tapping the fibers. External cables shall be taken outside KSEB premises through the route and medium specified by KFON. All the cable entries shall be sealed against intrusion of pests. All additional works will be at the cost of lessee.
- h. The last mile connectivity i.e KFON OFC tapping point to lessee location is not in the scope of KFON. Lessee has to make necessary arrangements.
- i. Breakdowns in the last mile connectivity or at the equipment termination points will not be in the scope of KFON.
- j. The preventive and emergency maintenance of leased Dark Fibers shall be carried out by KFON. For carrying out such works, lessee shall extend reasonable help to the KFON.
- k. KFON shall be entitled to a maximum of 4 hours of Planned Outages with maximum four (4) Maintenance Windows per year, thus totaling 16 hours of outages per year. Such downtime shall not be treated as part of downtime for Service Level calculations. KFON shall give minimum 48-hour notice in case of any such planned outages.
- l. The operation and maintenance of OPGW/ADSS Cable shall be under the KFON scope. KFON shall grant access to the lessee to enter into KSEB substation/KFON POP premises for installation, testing, Operation and Maintenance (O&M) activities of their equipment in the presence of KFON's engineers. Lessee need to intimate at least 8 hours in advance.
- m. KFON reserves the right to deny lease of fiber to any of the Lessee without assigning any reason.
- n. All the fibers used shall comply with G.652, and the overall loss including the splicing loss shall be as per the following specification:
 - Max attenuation @ 1550nm:0.25db/km + 0.05db * Planned Splice + 0.5db*connector.
 - Max attenuation @ 1310nm:0.35db/km + 0.05db * Planned Splice + 0.5db*connector.
- o. The Lessee should ensure sufficient power budget (at least 5 dB margin) in the terminal equipment as there is a chance of increase/decrease in fiber lengths.
- p. One Quarter lease charges for the required link to be given in the form of Treasury Fixed Deposit (TFD) in favor of KFON Ltd for the period of contract.
- q. No sub-leasing is permitted by KFON, incase if any lessee is found in involving sub-leasing activities, KFON shall have the right to terminate the agreement with immediate effect and the TFD shall be forfeited.
- r. There shall be restricted entry to the KSEB/KFON premises. Identity cards for two of the personnel of the lessee shall be issued for the maintenance of their equipment.
- s. On completion of lease period, Lessee shall withdraw all installations and hand over the site in clear condition.
- t. Lessee shall obtain no dues certificate from Lessor on completion of Lease period.
- u. The lease agreement between KFON & Lessee shall be subject to the rules and regulation of Govt. of Kerala / any other regulator from time to time. All statutory approvals are to be obtained by the Lessee at their cost.
- v. Any license fees, Taxes, Duties in respect of user services of the leased facility to the Govt. of India / Govt.

-
- of Kerala /any other regulator (“Statutory Duties”) should borne by the Lessee. The Lessee should agree and acknowledge that they shall be responsible for their Statutory Duties.
- w. KFON/KSEB shall not be liable to pay any compensation to Lessee in case of a communication breakdown due to shutdown / breakdown of OFC cables.
 - x. In case the KFON, due to load growth and other reasons re-design/re-engineer/re-route of its transmission/distribution lines entailing re-designing/re-engineering/re-routing of the optical fiber cables on KSEB’s transmission/distribution lines, then KFON shall provide an alternate route/optic fiber for Lessee, solely at its own cost only for the OFC offered by KFON portion excluding last mile connectivity. KFON shall give sufficient advance intimation to the Lessee and shall ensure smooth changeover so that non-availability of leased OPGW/ADSS links is avoided. The change over time should not be treated as non-availability time.
 - y. These terms are proposed terms by KFON. However, intended users are free to suggest modification/change/propose new terms which may be considered by KFON for leasing of spare fibers.
 - z. Lessee may specify the requirement of dark fiber apart from the links mentioned in Annexure-II, KFON will check the feasibility and revert to the prospective Lessee on the availability of dark fibers.

Termination Rights

In the following events the dark fibers leased to Lessee shall be liable to get disconnected / disabled by KFON. KFON is the authorized entity to issue disconnection notice.

- a. The Lessee transfers its rights to any other entity without prior intimation/approval of KFON, except allowed assignment. However, a separate lease agreement to be signed by the new entity with the same terms and conditions as specified in this EOI.
- b. Lessee sublets assets to any agency, whomsoever without the permission of KFON.
- c. The Lessee damages KFON/KSEB's system owing to malfunctioning/improper use/nonstandard construction of the leased OFC and connected system of the lease holder.
- d. The Lessee uses the leased dark fibers for any illegal and unlawful activity.
- e. Rules and regulations implemented by Government of India/Government of Kerala /any regulation from time to time demands so.
- f. When the Grid condition so warrants.
- g. The Lessee has engaged in corrupt or fraudulent practices.

FORMAT-1 (Covering Letter)

To

Sub: EOI for Leasing of dark fibers of OPGW/ADSS Installed in KFON.

Ref: Notice Inviting EOI-

Sir,

We hereby submit our “EOI for Leasing of dark fibers of OPGW/ADSS Installed in KFON” in full compliance with terms and conditions of the above referred Expression of Interest document.

(Signature of Applicant with seal)

FORMAT-2 (Application Format)

To

Dear Sir,

Sub: Leasing of Spare Dark Fibers of OPGW/ADSS installed in KFON

Having examined the EOI document for **Leasing of Spare Dark Fibers of OPGW /ADSS installed in KFON**, I the undersigned, submit herewith the following information / data / documents:

Application format:

1	Name of the firm	
2	Full Address	
3	Telephone No. E-Mail	
4	Contact Person and Mobile No. E-Mail	
5	Purpose of leasing	
6	Copy of Internet Service License/UnifiedLicense (ISP or NLD Authorization or IP-1 license) Telecom License/permission/Clearance from the concerned licensing Authority i.e, Dept. Of Telecom, Govt. of India up-loaded?	
7	Area/Circle where Telecom service is	
8	Certificate in support of Experience up-loaded?	

For and on behalf of Lessee Company
M/s.....

FORMAT-3 (Details of the Route)

Sl. No	Name of the Link (As per Annexure-II)	Length of the route (Kms)	No. of Fibers Lessee Wants to Quote

(Signature of Applicant with seal)

Annexure I

Eligibility Criteria:

- a. Telecom operators, Telecom infrastructure providers having experience in Telecom Network Operations and having a valid license from the competent authority for the right of use of optical fibers on lease.
- b. Firms with IP-1 registration issued by DOT, Govt. of India shall be considered as eligible Lessee.
- c. The Lessee should possess the valid registration as an entity.
- d. The Lessee should not be blacklisted or debarred or suspended by the Government for any reason. A self-declaration to be submitted by the Lessee.
- e. The Lessee must be an Internet Service Provider/Unified Licensee with (ISP) or NLD Authorization/ Mobile Network provider/ Telecom operator/ other Company having own telecom network and possess a valid Telecom License/permission/clearance from the concerned Licensing Authority i.e., Dept of Telecom, Govt. of India for the intended telecom business envisaged by utilizing KFON dark fibers.

Lessee must submit documents in support of the above conditions.

Documents to be Submitted:

- a. Certificate of Incorporation
- b. GST Registration certificate
- c. CA audited financial statements for the last 3 FYs.
- d. Copy of PAN
- e. The Lessee must be an Internet Service Provider/Unified Licensee with (ISP) or NLD Authorization/ Mobile Network provider/ Telecom operator/ other Company having own telecom network and possess a valid Telecom License/permission/clearance from the concerned Licensing Authority i.e., Dept of Telecom, Govt. of India for the intended telecom business envisaged by utilizing KFON dark fibers. Lessee must submit document in support of the same.
- f. The Lessee must furnish the documents in support of experience in providing telecom services or having telecom network for its own use.

Annexure - II

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
1	Alappuzha	ADSS	Thakazhy-Punnapra	48F	12.608	8
2	Alappuzha	ADSS	Nangiarkulangara-Karuvatta	48F	10.508	8
3	Alappuzha	ADSS	Edathua-Chumatra	48F	21.036	8
4	Alappuzha	ADSS	Chumatra-Thiruvalla	48F	4.569	8
5	Alappuzha	ADSS	Mavelikara-Nangiarkulangara-Punnapra	48F	42.156	8
6	Alappuzha	ADSS	Mannar - Mavelikkara	48F	13.571	8
7	Alappuzha	ADSS	Mannar -Thiruvalla	48F	20.227	8
8	Alappuzha	ADSS	Thakazhi - Karuvatta	48F	17.965	8
9	Alappuzha	ADSS	Nangiarkulangara-Mavelikkara	48F	12.515	8
10	Alappuzha	ADSS	Vallikkunnam-Kattanam	48F	11.75	8
11	Alappuzha	ADSS	Vallikkunnam-Ochira	48F	11.95	8
12	Alappuzha	ADSS	Punnapra-Alappuzha	48F	11.2	8
13	Alappuzha	ADSS	Pathirappalli-Cherthala	48F	21.72	8
14	Alappuzha	ADSS	NewPallom-Kuttanad	48F	33.9	8
15	Alappuzha	ADSS	Kuthiyathodu-Thykkattusseri	48F	7.96	8
16	Alappuzha	ADSS	Kayamkulam-Ochira	48F	11.93	8
17	Alappuzha	ADSS	Nangiarkulangara-Kayamkulam	48F	11.75	8
18	Alappuzha	ADSS	Kattanam-Edappon	48F	12.4	8
19	Alappuzha	ADSS	Chethala-Kuthiyathodu	48F	12.63	8
20	Alappuzha	ADSS	Chengannur-Mannar	48F	12.17	8
21	Alappuzha	ADSS	Chellanam-kuthiyathode	48F	16.35	8
22	Alappuzha	ADSS	Alappuzha-Pathirappally	48F	7.25	8
23	Alappuzha	ADSS	Alappuzha-Kuttanad	48F	17.8	8
24	Ernakulam	ADSS	Alangad-Kurumassery	48F	16	8
25	Ernakulam	ADSS	Ambalamughal-Puthencruz	48F	11.73	8
26	Ernakulam	ADSS	Angamali-Kurumassery 110	48F	10	8
27	Ernakulam	ADSS	Ayyampuzha-Kaladi	48F	18.7	8
28	Ernakulam	ADSS	Ayyampuzha-Karukutty	48F	20.05	8
29	Ernakulam	ADSS	Brahmapuram-Ambalamughal	48F	11.71	8
30	Ernakulam	ADSS	ErnakulamNorth-Perumanoor	48F	5.92	8
31	Ernakulam	ADSS	Kalady-Malayattur	48F	8.16	8
32	Ernakulam	ADSS	Kalamassey-NPOL	48F	4.63	8
33	Ernakulam	ADSS	Kandanad-Panangad	48F	16	8
34	Ernakulam	ADSS	Koovappady-Kuruppumpadi	48F	8.91	8
35	Ernakulam	ADSS	Koovappady-Malayattur	48F	8.56	8
36	Ernakulam	ADSS	Kuruppumpadi-Perumbavoor	48F	8.13	8
37	Ernakulam	ADSS	Mazhuvannur-Moovattupuzha	48F	6.5	8
38	Ernakulam	ADSS	Mulavukadu-Edappally	48F	9.6	8
39	Ernakulam	ADSS	Mulavukadu-Njarakkal	48F	12.1	8
40	Ernakulam	ADSS	NewVyttila/Kadavanthara-Mattanchery	48F	5.4	8
41	Ernakulam	ADSS	Njarakkal-Cherai	48F	14.93	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
42	Ernakulam	ADSS	Northparavur-Varappuzha	48F	10.19	8
43	Ernakulam	ADSS	NorthParur-Alangad	48F	7.4	8
44	Ernakulam	ADSS	NPOL-Kakkanad	48F	4.55	8
45	Ernakulam	ADSS	panampallyNagar-Perumanoor	48F	0.9	8
46	Ernakulam	ADSS	PanampallyNagar-Vyttila	48F	5.34	8
47	Ernakulam	ADSS	Perumanoor-Ernakulam North	48F	5.92	8
48	Ernakulam	ADSS	Perumbavoor-Vengola	48F	7.63	8
49	Ernakulam	ADSS	Puthencruz-Mazhuvannur	48F	15.85	8
50	Ernakulam	ADSS	Puthenvelikkara-Kurumassery110	48F	9.7	8
51	Ernakulam	ADSS	Puthenvelikkara-Vadakkekara	48F	16.57	8
52	Ernakulam	ADSS	Vadakkekara-North Paravur	48F	11.18	8
53	Ernakulam	ADSS	Vengola-Kizhakkambalam	48F	13.6	8
54	Ernakulam	ADSS	Perumbavoor - Kothamangalam	48F	23.73	8
55	Ernakulam	ADSS	NOC-Kalamassery	48F	10.935	8
56	Ernakulam	ADSS	Koothattukulam- Moovattupuzha	48F	23.971	8
57	Ernakulam	ADSS	Aluva- Perumbavoor	48F	15.411	8
58	Ernakulam	ADSS	Kalamassery-Aluva	48F	7.559	8
59	Ernakulam	ADSS	NOC - Aluva	48F	17.65	8
60	Ernakulam	ADSS	Kothamangalam - Moovattupuzha	48F	14.328	8
61	Ernakulam	ADSS	Koothattukulam-Piravom	48F	18.446	8
62	Ernakulam	ADSS	Panangad - Kalamassery	48F	0.3	8
63	Ernakulam	ADSS	NOC - Brahmapuram	48F	3.423	8
64	Ernakulam	ADSS	Brahmapuram-Kalamassery	48F	12.511	8
65	Idukki	ADSS	Kothamangalam-Karimanal	48F	36.7	8
66	Idukki	ADSS	Upputhara-Peerumedu	48F	26.7	8
67	Idukki	ADSS	Upputhara-Kattappana	48F	22.73	8
68	Idukki	ADSS	Udumbannur-vannappuram	48F	20	8
69	Idukki	ADSS	Thodupuzha-Kaloorkkadu	48F	15.73	8
70	Idukki	ADSS	Pothanikkadu-kaloorkkadu	48F	15.6	8
71	Idukki	ADSS	Idukki-Kulamavu	48F	22.18	8
72	Idukki	ADSS	Peerumedu-Vandiperiyar	48F	24.5	8
73	Idukki	ADSS	Peerumedu-Mundakkayam	48F	32.3	8
74	Idukki	ADSS	Chengulam-Pallivasal	48F	19.8	8
75	Idukki	ADSS	Pallivasal-Marayur	48F	57.9	8
76	Idukki	ADSS	Adimali-Pallivasal	48F	22.5	8
77	Idukki	ADSS	Kuyilimala-Vazhathope	48F	3.5	8
78	Idukki	ADSS	Idukki - Thodupuzha	48F	28.186	8
79	Idukki	ADSS	Thodupuzha - Udumbannur	48F	21.909	8
80	Idukki	ADSS	Senapathy-Kuthunkal	48F	16.478	8
81	Idukki	ADSS	Kattappana-Nedumkandam	48F	21.104	8
82	Idukki	ADSS	Nedumkandam-Senapathy	48F	29.635	8
83	Idukki	ADSS	Vazhathope-Kattappana	48F	32.575	8
84	Kannur	ADSS	Kanhirode-Pazhassi	48F	20.77	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
85	Kannur	ADSS	Mangad-Thaliparamba	48F	10.241	8
86	Kannur	ADSS	Mundayad-Mangad	48F	24.083	8
87	Kannur	ADSS	Pazhassi-Tholambra	48F	14.57	8
88	Kannur	ADSS	Mundayad-Puthiyatheru	48F	6.166	8
89	Kannur	ADSS	Tholambra-Koothuparamba	48F	19.473	8
90	Kannur	ADSS	Koothuparamba- Pinarayi	48F	13.127	8
91	Kannur	ADSS	Puthiyatheru-Azhikode	48F	7.69	8
92	Kannur	ADSS	Azhikode-Payyangadi	48F	22.033	8
93	Kannur	ADSS	Thottada-Mundayad	48F	9.997	8
94	Kannur	ADSS	Pinarayi-Thottada	48F	11.983	8
95	Kannur	ADSS	Puthur-koothuparamba	48F	15.27	8
96	Kannur	ADSS	Nadukani-Thaliparamba	48F	13.5	8
97	Kannur	ADSS	Koothuparamba-Nedumpoil	48F	26.63	8
98	Kannur	ADSS	Kanhirode-Kuttiyattur	48F	11.9	8
99	Kannur	ADSS	Tholambra-Iratty	48F	31.1	8
100	Kannur	ADSS	Thaliparamba-Payannur	48F	30.51	8
101	Kannur	ADSS	Thaliparamb-Pariyaram	48F	13.85	8
102	Kannur	ADSS	Thalassery-Kodiyeri	48F	4.63	8
103	Kannur	ADSS	Pariyaram-Payyangadi	48F	12.75	8
104	Kannur	ADSS	Panoor-puthur	48F	12.1	8
105	Kannur	ADSS	Nedumpoil-Tholambra	48F	17.1	8
106	Kannur	ADSS	Kuttiyattur-Sreekantapuram	48F	24.4	8
107	Kannur	ADSS	kodiyeri-Panoor	48F	7.76	8
108	Kannur	ADSS	KannurTown-Chovva	48F	7.88	8
109	Kannur	ADSS	Ezhimala-Payyangadi	48F	13.18	8
110	Kannur	ADSS	Cherupuzha-Alakode	48F	28	8
111	Kannur	ADSS	Azheekode-KannurTown	48F	7.7	8
112	Kannur	ADSS	Alakode-Nadukkuni	48F	24	8
113	Kannur	ADSS	Payyannur-Payyannur Town	48F	6.2	8
114	Kannur	ADSS	Dharmadom-Thalassery	48F	11.45	8
115	Kannur	ADSS	Dahrmadom-Pinarayi	48F	8.5	8
116	Kasargod	ADSS	West Eleri-Cheruvathur	48F	17.755	8
117	Kasargod	ADSS	Belur-WestEleri	48F	25.824	8
118	Kasargod	ADSS	Mylatty-Vidhyanagar	48F	19.221	8
119	Kasargod	ADSS	Mylatty-Belur	48F	23.827	8
120	Kasargod	ADSS	Neeleswaram-Kanjanhad	48F	21.937	8
121	Kasargod	ADSS	Kanjangad-Mylatty	48F	22.817	8
122	Kasargod	ADSS	Mylatty-Vidhyanagar2	48F	14.6419	8
123	Kasargod	ADSS	Neeleswaram-Cheruvathoor	48F	12.1866	8
124	Kasargod	ADSS	Vidyanagar-Ananthapuram	48F	11	8
125	Kasargod	ADSS	Perla-Badiyadukka	48F	13	8
126	Kasargod	ADSS	PayyannurTown-Thrikkarippur	48F	12	8
127	Kasargod	ADSS	Cheruvathur-Thrikkarippur	48F	15	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
128	Kasargod	ADSS	Ananthapuram-perla	48F	27	8
129	Kasargod	ADSS	Manjeswaram-Ananthapuram	48F	26.43	8
130	Kasargod	ADSS	Belur-Rajapuram	48F	17	8
131	Kasargod	ADSS	WestEleri-Rajapuram	48F	27.69	8
132	Kollam	ADSS	Sasthamkotta-Karunagappally	48F	20.95	8
133	Kollam	ADSS	Puthur-Sasthamkotta	48F	12.62	8
134	Kollam	ADSS	Pooyappalli-Ambalappuram	48F	10	8
135	Kollam	ADSS	Parippally-Paravoor	48F	16.59	8
136	Kollam	ADSS	Paravoor-Kottiyam	48F	11.6	8
137	Kollam	ADSS	Ochira-Karunagappally	48F	10.22	8
138	Kollam	ADSS	Kundara-Ezhukone	48F	10	8
139	Kollam	ADSS	Kottiyam-Kananallur	48F	8.45	8
140	Kollam	ADSS	kottarakkara-Chengamanad	48F	16.59	8
141	Kollam	ADSS	Kilimanoor-Kallambalam	48F	20.33	8
142	Kollam	ADSS	Kilimanoor-Kadakkal	48F	12.59	8
143	Kollam	ADSS	Kavanad-Perinad	48F	14.25	8
144	Kollam	ADSS	Kananallur-Ayathil	48F	9.77	8
145	Kollam	ADSS	Kallambalam-Parippally	48F	10	8
146	Kollam	ADSS	Ezhukone-Ambalappuram	48F	7.11	8
147	Kollam	ADSS	Ayoor-Kadakkal	48F	19.45	8
148	Kollam	ADSS	Ambalappuram-Kottarakkara	48F	6.68	8
149	Kollam	ADSS	Adichanallur-Pooyappally	48F	9.85	8
150	Kollam	ADSS	Adichanallur-Kottiyam	48F	10.27	8
151	Kollam	ADSS	Anchal-Thenmala	48F	31.15	8
152	Kollam	ADSS	Sasthamkotta-Mavelikara	48F	35.035	8
153	Kollam	ADSS	Parippally-Ayoor	48F	20.459	8
154	Kollam	ADSS	Ayoor- Anchal	48F	12.516	8
155	Kollam	ADSS	Chengamanad-Ambalapuram	48F	16.75	8
156	Kollam	ADSS	Anchal - Edamon	48F	25.137	8
157	Kollam	ADSS	Chengamanad - Punalur	48F	17.316	8
158	Kollam	ADSS	Punalur - Edamon	48F	13.756	8
159	Kollam	ADSS	Ambalappuram-Puthoor(Kottarakkara)	48F	11.67	8
160	Kollam	ADSS	Puthoor(Kottarakkara)-Sasthamkotta	48F	12.595	8
161	Kottayam	ADSS	New Pallom-Kottayam(Kanjikuzhy)	48F	6.073	8
162	Kottayam	ADSS	Pala-Ramapuram	48F	12.833	8
163	Kottayam	ADSS	Kuravilangadu-Ettumanoor	48F	12.254	8
164	Kottayam	ADSS	Ramapuram-Koothattukulam	48F	13.232	8
165	Kottayam	ADSS	Gandhinagar-Ettumanoor	48F	11.004	8
166	Kottayam	ADSS	Kottayam(Kanjikuzhy)-Gandhinagar	48F	12.126	8
167	Kottayam	ADSS	Koothattukulam-Kuravilangad	48F	21.099	8
168	Kottayam	ADSS	Vakathanam-Karukachal	48F	12	8
169	Kottayam	ADSS	Vaikom-Kadathuruthi	48F	16.31	8
170	Kottayam	ADSS	Thrikkodithanam-Vakathanam	48F	11	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
171	Kottayam	ADSS	Peerumedu-Vagamon	48F	24.2	8
172	Kottayam	ADSS	Pala-Paika	48F	17.09	8
173	Kottayam	ADSS	NewPallom-Changanassery	48F	17	8
174	Kottayam	ADSS	Kodimatha-kanjikkuzhy	48F	5.15	8
175	Kottayam	ADSS	Kodimatha-Chengalam	48F	11	8
176	Kottayam	ADSS	kidangoor-pala	48F	14.76	8
177	Kottayam	ADSS	Karukachal-Mallappally	48F	13.85	8
178	Kottayam	ADSS	Karukachal-Pampady	48F	8	8
179	Kottayam	ADSS	Kaduthuruthi-Kuravilangad	48F	16.17	8
180	Kottayam	ADSS	Ettumanoor-Kidangoor	48F	13.41	8
181	Kottayam	ADSS	Erattupetta-Paika	48F	16.09	8
182	Kottayam	ADSS	Erattupetta-Vagamaon	48F	29.25	8
183	Kottayam	ADSS	Changanassery-Thrikkodithanam	48F	5	8
184	Kottayam	ADSS	Mundakkayam-Erumeli	48F	24.45	8
185	Kozhikode	ADSS	Vadakara-Thiruvallur	48F	11	8
186	Kozhikode	ADSS	Vadakara-Melady	48F	19.2	8
187	Kozhikode	ADSS	Thambalamanna-Urumi	48F	12.9	8
188	Kozhikode	ADSS	Thambalamanna-Agasthyarmozhi	48F	15	8
189	Kozhikode	ADSS	Thamarassery-Thambalamanna	48F	17.9	8
190	Kozhikode	ADSS	Ramanattukara-Nallalam	48F	8.8	8
191	Kozhikode	ADSS	Quilandy-Balusserly	48F	12.51	8
192	Kozhikode	ADSS	Puthiyara-Chevayur	48F	5.62	8
193	Kozhikode	ADSS	Nadapuram-orkkatteri	48F	15.7	8
194	Kozhikode	ADSS	Meppayur-Melady	48F	10.81	8
195	Kozhikode	ADSS	Meppayur-Balusserly	48F	24.9	8
196	Kozhikode	ADSS	Mavoor-kuttikkattur	48F	16.03	8
197	Kozhikode	ADSS	Mankavu-Puthiyara	48F	3.8	8
198	Kozhikode	ADSS	Mankavu-GandhiRoad	48F	7.9	8
199	Kozhikode	ADSS	Kunnamangalam-Thamarassery	48F	24.85	8
200	Kozhikode	ADSS	Kunnamangalam-Koduvally	48F	14.65	8
201	Kozhikode	ADSS	GandhiRoad-WestHill	48F	7.84	8
202	Kozhikode	ADSS	Chevayur-Westhill	48F	15.45	8
203	Kozhikode	ADSS	Chevayoor-Kuttikkattur	48F	6.8	8
204	Kozhikode	ADSS	Agasthyarmozhi-Mavoor	48F	11.44	8
205	Kozhikode	ADSS	Thambalamanna-Urumi	48F	14.35	8
206	Kozhikode	ADSS	Thiruvallur-Nadapuram	48F	17.75	8
207	Kozhikode	ADSS	Ramanattukara-Cheleri	48F	8.47	8
208	Kozhikode	ADSS	Koduvally - Chevayur	48F	16.774	8
209	Kozhikode	ADSS	Chakkittippara-Meppayur	48F	20.398	8
210	Kozhikode	ADSS	Keezhisserly-Nallalam	48F	28.981	8
211	Malappuram	ADSS	Keezhisserly-Edavanna	48F	24.433	8
212	Malappuram	ADSS	Pulamanthole-Makapparamba	48F	19.803	8
213	Malappuram	ADSS	Valluvambram-Keezhisserly	48F	9.503	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
214	Malappuram	ADSS	Edavanna-Wandoor	48F	14.517	8
215	Malappuram	ADSS	Makaraparamba-Malappuram	48F	8.484	8
216	Malappuram	ADSS	Melattur-Thazhekode	48F	25.519	8
217	Malappuram	ADSS	Pulamanthole-Thazhekode	48F	25.885	8
218	Malappuram	ADSS	Malappuram-Valluvambram	48F	11.238	8
219	Malappuram	ADSS	Wandoor-Melattur	48F	23.331	8
220	Malappuram	ADSS	Koppam-Thazhekode-Alanellur-Mannarkad	48F	56.308	8
221	Malappuram	ADSS	Areekkode-Malapparamba	48F	34.171	8
222	Malappuram	ADSS	Valluvambram-Manajeri	48F	14	8
223	Malappuram	ADSS	Nilambur-Edakkara	48F	15	8
224	Malappuram	ADSS	Malappuram-Mankada	48F	21	8
225	Malappuram	ADSS	Kuttippuram - Thiruvegappura	48F	14.5	8
226	Malappuram	ADSS	Koppam-Thiruvegappura	48F	18.5	8
227	Malappuram	ADSS	Edavanna-Nilambur	48F	19	8
228	Malappuram	ADSS	Chelari-Keezhissery	48F	19.85	8
229	Malappuram	ADSS	Thazhekode-Perinthalmanna	48F	13.16	8
230	Malappuram	ADSS	Thavanoor-Ponnani	48F	18	8
231	Malappuram	ADSS	Pookkottupadam-Kalikavu	48F	18.67	8
232	Malappuram	ADSS	Perinthalamanna-mankada	48F	11	8
233	Malappuram	ADSS	Othukkungal-Malappuram	48F	10.86	8
234	Malappuram	ADSS	Kuttippuram-Thirunavaya	48F	14.88	8
235	Malappuram	ADSS	Koppam-Pulamanthole	48F	5.5	8
236	Malappuram	ADSS	Koottanad-Thrithala	48F	6.47	8
237	Malappuram	ADSS	Kooriyad-Edarikode	48F	9	8
238	Malappuram	ADSS	kalikavu-Wandoor	48F	16.48	8
239	Malappuram	ADSS	Edakkara-Pookkottupadam	48F	24.5	8
240	Malappuram	ADSS	Chalissery-Thrithala	48F	16.75	8
241	Malappuram	ADSS	Areecode-Kizhissery	48F	12.05	8
242	Malappuram	ADSS	Areecode-Edavanna	48F	19.62	8
243	Malappuram	ADSS	Pattambi-Koppam	48F	11.19	8
244	Malappuram	ADSS	Koottanad-Chalissery	48F	5.6	8
245	Malappuram	ADSS	Edarikode-Othukkungal	48F	10.3	8
246	Malappuram	ADSS	Chelari-Parappanangadi	48F	19.55	8
247	Malappuram	ADSS	Kooriyad-Parappanangadi	48F	10.8	8
248	Malappuram	ADSS	Thavanoor-Kuttipuram	48F	16.05	8
249	Malappuram	ADSS	Thirunavaya-Tirur	48F	13.43	8
250	Palakkad	ADSS	Nenmara-Kannampully	48F	13.197	8
251	Palakkad	ADSS	Chittadi-Vadankkencherry	48F	12.297	8
252	Palakkad	ADSS	Nenmara-Chittadi	48F	15.534	8
253	Palakkad	ADSS	Pazhayannur-Vadankkenchery	48F	19.736	8
254	Palakkad	ADSS	Vennakkara - Kannampully	48F	20.06	8
255	Palakkad	ADSS	Kannampully-Koduvayoor	48F	8.26	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
256	Palakkad	ADSS	Thazhekodde-Alenellur	48F	16.22	8
257	Palakkad	ADSS	Kongad-Sreekrishnapuram	48F	19.12	8
258	Palakkad	ADSS	Cherpulassery- Sreekrishnapuram	48F	12.88	8
259	Palakkad	ADSS	Alenellur-Mannarkkad	48F	17.9	8
260	Palakkad	ADSS	Velanthavalam-Walayar	48F	12.14	8
261	Palakkad	ADSS	Meenakshipuram-Kozhinjampara	48F	20.4	8
262	Palakkad	ADSS	Vaidyuthibhavan-MedicalCollege	48F	6.05	8
263	Palakkad	ADSS	Vadakkanchery-Alathur	48F	15.53	8
264	Palakkad	ADSS	Parali-Kongad	48F	14.56	8
265	Palakkad	ADSS	Pallassana-Nenmara	48F	14.94	8
266	Palakkad	ADSS	Meenakshipuram-Muthalamada	48F	10.52	8
267	Palakkad	ADSS	Maniampara-Vennakkara	48F	20.1	8
268	Palakkad	ADSS	Maniampara-Parali	48F	10.46	8
269	Palakkad	ADSS	Kozhinjampara-Velanthavalam	48F	11.11	8
270	Palakkad	ADSS	Kozhinjampara-Chittur	48F	34.42	8
271	Palakkad	ADSS	Kollenkode-muthalamada	48F	11.8	8
272	Palakkad	ADSS	Kollengode-Pallassana	48F	8.77	8
273	Palakkad	ADSS	Kanjikode-MedicalCollege	48F	14.65	8
274	Palakkad	ADSS	Alathur-Kannampully	48F	8	8
275	Palakkad	ADSS	Vennakkara-Vydyuthibhavan	48F	4.9	8
276	Palakkad	ADSS	Mannarkad-Agali	48F	34.5	8
277	Palakkad	ADSS	Chittur-(Muthalamada/Meenakshipuram)	48F	14.4	8
278	Palakkad	ADSS	Koduvayur-Pallasana	48F	10.49	8
279	Pathanamthitta	ADSS	Ranni-Ranni-Perinad	48F	13.657	8
280	Pathanamthitta	ADSS	Ranni Perinad - Pathanamthitta	48F	21.563	8
281	Pathanamthitta	ADSS	Pathanamthitta-koodal	48F	20.3	8
282	Pathanamthitta	ADSS	Pathanamthitta-Konny	48F	12.2	8
283	Pathanamthitta	ADSS	Konny-Koodal	48F	11.19	8
284	Pathanamthitta	ADSS	Adoor-Koodal	48F	21.49	8
285	Pathanamthitta	ADSS	Adoor-Edappon	48F	23.01	8
286	Pathanamthitta	ADSS	Kumbanad-Mallappally	48F	14.94	8
287	Pathanamthitta	ADSS	Kumbanad-Kozhanchery	48F	12.06	8
288	Pathanamthitta	ADSS	Kozhanchery-Chengannur	48F	13.53	8
289	Thiruvananthapuram	ADSS	Paruthippara Core POP-Vydyuthibhavan	24F	5.316	8
290	Thiruvananthapuram	ADSS	Paruthippara - Thirumala	48F	12.198	8
291	Thiruvananthapuram	ADSS	Paruthippara Core POP-SDC-II	24F	12.415	8
292	Thiruvananthapuram	ADSS	Paruthippara - TERLS	48F	13.439	8
293	Thiruvananthapuram	ADSS	Kazhakkootam-SDCII	24F	2.415	8
294	Thiruvananthapuram	ADSS	Balaramapuram-Thirumala	48F	14.58	8
295	Thiruvananthapuram	ADSS	Nedumnagad-Chullimanoor	48F	7.5	8
296	Thiruvananthapuram	ADSS	kazhakootam-kulathoor	48F	0.658	8
297	Thiruvananthapuram	ADSS	Thirumala-Vattiyoorkkavu	48F	13.9	8
298	Thiruvananthapuram	ADSS	Paruthippara-Vattiyoorkkavu	48F	13	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
299	Thiruvananthapuram	ADSS	Chullimanoor-Vithura	48F	10.97	8
300	Thiruvananthapuram	ADSS	Vizhinjam-Poovar	48F	18.44	8
301	Thiruvananthapuram	ADSS	Vithura-Palode	48F	20.57	8
302	Thiruvananthapuram	ADSS	Vellarada-Parassala	48F	24.8	8
303	Thiruvananthapuram	ADSS	Vellarada-Neyyattinkara	48F	24	8
304	Thiruvananthapuram	ADSS	varkala-Kadakkavoor	48F	15.92	8
305	Thiruvananthapuram	ADSS	Thirumala-Karamana	48F	5.38	8
306	Thiruvananthapuram	ADSS	Parassala-Poovar	48F	21.65	8
307	Thiruvananthapuram	ADSS	Palode-Venjarammoodu	48F	33.2	8
308	Thiruvananthapuram	ADSS	Karamana-PowerHouse	48F	3.79	8
309	Thiruvananthapuram	ADSS	Kadakkvoor-Attingal	48F	12.52	8
310	Thiruvananthapuram	ADSS	Attingal-Venjaranmoodu	48F	11.87	8
311	Thiruvananthapuram	ADSS	Paruthippara-SDC-1	48F	5	8
312	Thiruvananthapuram	ADSS	MedicalCollege-Secretariate	48F	5.67	8
313	Thiruvananthapuram	ADSS	Secretariate-PowerHouse	48F	4.25	8
314	Thrissur	ADSS	Viyyur-Poomala	48F	11.9	8
315	Thrissur	ADSS	Valappad-Anthikkad	48F	7.95	8
316	Thrissur	ADSS	Vellangallur-Irinjalakkuda	48F	8.84	8
317	Thrissur	ADSS	Tarur-Vadakkanchery	48F	17.73	8
318	Thrissur	ADSS	Tarur-Pazhayannur	48F	11.04	8
319	Thrissur	ADSS	Puthur-ollur	48F	8.95	8
320	Thrissur	ADSS	Puthukkad-Puthur	48F	12.8	8
321	Thrissur	ADSS	Punnayoorkkulam-Chavakkad	48F	18.41	8
322	Thrissur	ADSS	Pattikkad-Madakkathara	48F	11.45	8
323	Thrissur	ADSS	Pariyaram-Vellikulangara	48F	14.65	8
324	Thrissur	ADSS	Parappur-Mundur	48F	8.6	8
325	Thrissur	ADSS	parappukkara-Irinjalakkuda	48F	13.57	8
326	Thrissur	ADSS	Ollur-Pattikkad	48F	20.56	8
327	Thrissur	ADSS	Kunnamkulam-Parappur	48F	13.31	8
328	Thrissur	ADSS	Methala-Kodungallur	48F	10.75	8
329	Thrissur	ADSS	kunnamkulam-Konganoor	48F	10.9	8
330	Thrissur	ADSS	Koratty-Karukutty	48F	5.14	8
331	Thrissur	ADSS	Konganoor-Erumappetty	48F	13.89	8
332	Thrissur	ADSS	Kodungallur-Vellangallur	48F	9.43	8
333	Thrissur	ADSS	Kaipamangalam-kattur	48F	13.99	8
334	Thrissur	ADSS	Erumappetty-Athani	48F	16.36	8
335	Thrissur	ADSS	Chirakkal-Cherppu	48F	12.34	8
336	Thrissur	ADSS	Cherppu-Palakkal	48F	6.66	8
337	Thrissur	ADSS	Chelakkara-Pazhayannur	48F	16.39	8
338	Thrissur	ADSS	Chelakkara-Mullurkkara	48F	11.12	8
339	Thrissur	ADSS	Chavakkad-Guruvayoor	48F	11.59	8
340	Thrissur	ADSS	Chalakkudy-Vellikulangara	48F	15	8
341	Thrissur	ADSS	Chalakkudy-Pariyaram	48F	8.22	8

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
342	Thrissur	ADSS	Chalakkudy-Koratty	48F	5.8	8
343	Thrissur	ADSS	Athani-Mundoor	48F	9.64	8
344	Thrissur	ADSS	Anthikkad-Chirakkal	48F	7.3	8
345	Thrissur	ADSS	Anchangadi-Methala	48F	21	8
346	Thrissur	ADSS	Anchangadi-kaipamangalam	48F	10.43	8
347	Thrissur	ADSS	Vadanappally-Kandassankadavu	48F	6.63	8
348	Thrissur	ADSS	Parappukkara-Chalakkudy	48F	17.85	8
349	Thrissur	ADSS	Mullassery-Vadanapally	48F	15.15	8
350	Thrissur	ADSS	Wadakancherry-Poomala	48F	11.2	8
351	Thrissur	ADSS	Pudukkad-Chalakkudy	48F	25.221	8
352	Thrissur	ADSS	Pudukad - Ollur	48F	9.378	8
353	Thrissur	ADSS	Viyyur-Madakkathara	48F	8.021	8
354	Thrissur	ADSS	Ollur - Viyyur	48F	14.549	8
355	Thrissur	ADSS	Ponnani-Punnayurkulam	48F	16.515	8
356	Wayanad	ADSS	Kalpetta-Kaniampetta	48F	10.068	8
357	Wayanad	ADSS	Mananthavadi-Nedumpoyil	48F	41.7	8
358	Wayanad	ADSS	Kaniampetta-Anjukunnu-Mananthavadi	48F	33.1	8
359	Wayanad	ADSS	Kaniampetta-Meenangadi	48F	12.82	8
360	Wayanad	ADSS	Kuthumunda-Kalpetta	48F	16.225	8
361	Wayanad	ADSS	Kuthumunda-Meenangadi	48F	22.72	8
362	Wayanad	ADSS	Pulpalli-Mananthavadi	48F	30	8
363	Wayanad	ADSS	Meenangadi-SultanBatheri	48F	15.65	8
364	Wayanad	ADSS	Kaniyambetta-Padinjarethara	48F	23.68	8
365	Wayanad	ADSS	Kaniampetta-Pulppally	48F	30.67	8
366	Wayanad	ADSS	Anjukunnu-Padinjarethara	48F	30.65	8
367	Pathanamthitta	OPGW	Sabarigiri - New Pallom	48F	68.172	4
368	Alappuzha	OPGW	Thaikkattussery LILO (SL Puram - Aroor)	48F	0.993	4
369	Thrissur	OPGW	Lower Periyar- Madakkathra	48F	101.828	4
370	Wayanad	OPGW	Kaniampetta LILO (Areekode (Tower no 32)-Nallalam)	48F	55.707	4
371	Kottayam	OPGW	Edamon - Sabarigiri (CKT-1)	48F	53.878	4
372	Kollam	OPGW	CO014KLM-Paruthipara - Edamon	48F	52.777	4
373	Ernakulam	OPGW	AO055EKM-Kandanad - Vaikom	48F	10.001	4
374	Ernakulam	OPGW	Brahmapuram - Kandanad	48F	11.846	4
375	Idukki	OPGW	CO008IDK- Idukki(Moolamattom) - New Pallom	48F	48.711	4
376	Idukki	OPGW	PO096IDK-Neriamangalam - Myloor	48F	46.25	4
377	Kasargod	OPGW	AO062KSD-Cheruvathur LILO (Mylatty-Thaliparamba)	48F	2.908	4
378	Idukki	OPGW	AO058IDK-Neriamangalam - Kuthungal	48F	16.399	4
379	Idukki	OPGW	AO057IDK-Udumbannoor- Sengulam	48F	24.216	4
380	Thiruvananthapuram	OPGW	PO132TVM-Medical Collage (TVM) - Paruthippra	48F	3.007	4

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
381	Thiruvananthapuram	OPGW	PO131TVM-Kattakkada 110 KV - Parssala	48F	18.53	4
382	Kozhikode	OPGW	CO021KKD-Panoor - LILO Quilandy	48F	38.917	4
383	Kollam	OPGW	PO110KLM-Chavara - Kavanad	48F	7.652	4
384	Kollam	OPGW	CO015KLM-Edamon - Kundara	48F	38.019	4
385	Alappuzha	OPGW	Mattanchery LILO (Chellanam-Aroor)	48F	7.51	4
386	Ernakulam	OPGW	PO087EKM-Brahmapuram - New Vyttila	48F	7.472	4
387	Thrissur	OPGW	PO135TCR-Guruvayoor LILO (Kunnamkulam - Athani)	48F	5.682	4
388	Thrissur	OPGW	PO134TCR-Kandasankadavu-LILO Guruvayoor	48F	15.324	4
389	Idukki	OPGW	CO009IDK-Lower Periyar - Idukki	48F	34.94	4
390	Palakkad	OPGW	CO033PLK-Shornur -Parali	48F	32.469	4
391	Palakkad	OPGW	CO032PLK-Madakkathara -Shornur	48F	29.983	4
392	Kasargod	OPGW	SO143KSD-Vidhyanager - Manjeswaram	48F	29.635	4
393	Alappuzha	OPGW	SL Puram -Aroor	48F	29.383	4
394	Kottayam	OPGW	PO112KTM-New Pallom - Kanjirappally	48F	28.893	4
395	Kannur	OPGW	PO103KNR-Payyannur LILO (Mylatty-Thaliparamba)	48F	3.167	4
396	Pathanamthitta	OPGW	UO164IDK-Pathanamthitta - Kakkad	48F	27.898	4
397	Kannur	OPGW	PO098KNR-Mattannur - Iritty	48F	12.909	4
398	Alappuzha	OPGW	SL Puram - Punnapra	48F	27.504	4
399	Palakkad	OPGW	PO129PLK-Palakkad - Kollenkode	48F	26.702	4
400	Malappuram	OPGW	CO025MLP-Malapuram - Tirur	48F	25.152	4
401	Kasargod	OPGW	PO105KSD-Cherupuzha LILO (Mylatty-Thaliparamba)	48F	16.345	4
402	Thrissur	OPGW	CO045TCR-Madakkathara - Kodakara LILO	48F	24.232	4
403	Idukki	OPGW	PO095IDK-Adimali LILO [Neriamangalam - Myloor]	48F	0.308	4
404	Palakkad	OPGW	PO124PLK-Arangottukara - Edappal	48F	22.54	4
405	Malappuram	OPGW	CO026MLP-Tirur Lilo - Edappal	48F	22.054	4
406	Thiruvananthapuram	OPGW	SO146TVM-Terls - Veli	48F	4.084	4
407	Ernakulam	OPGW	PO091EKM-Chalakkudy - Kodungallur	48F	21.447	4
408	Thrissur	OPGW	CO050TCR-Angamaly - Chalakudy	48F	21.366	4
409	Kollam	OPGW	CO018KLM-Edappon - Pathanamthitta	48F	21.317	4
410	Kasargod	OPGW	SO142KSD-Payyangadi - Ezhimala	48F	7.078	4
411	Palakkad	OPGW	PO128PLK-Vennakkara - Palakkad	48F	21.228	4
412	Idukki	OPGW	SO140IDK-Neriamangalam LILO (Udumbannoor-Sengulam)	48F	0.383	4
413	Ernakulam	OPGW	CO007EKM-Angamaly - Kalamassery	48F	20.744	4
414	Kannur	OPGW	CO012KNR-Mundayad - Koothuparamba	48F	20.471	4
415	Pathanamthitta	OPGW	PO130PTA-Punalur-Koodal	48F	19.789	4
416	Kannur	OPGW	AO060KNR-Thaliparamba - Payyangadi	48F	9.092	4

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
417	Kollam	OPGW	CO016KLM- Kundara - Parippally	48F	19.593	4
418	Palakkad	OPGW	CO035PLK-Vennakkara- Kalladikode	48F	20.558	4
419	Palakkad	OPGW	PO126PLK-Ottappalam - Cherpulassery	48F	19.188	4
420	Kannur	OPGW	CO011KNR-Koothuparamba - Nedumpoyil	48F	18.97	4
421	Kannur	OPGW	PO099KNR-Kanhirode - Mattannur	48F	18.393	4
422	Alappuzha	OPGW	Edappon-Kayamkulam	48F	18.189	4
423	Kasargod	OPGW	PO104KSD- Vidyanagar - Mulleria	48F	17.499	4
424	Ernakulam	OPGW	CO006EKM-Kalamassery - Panangad	48F	17.177	4
425	Thrissur	OPGW	CO048TCR-Athani - Kunnamkulam	48F	16.396	4
426	Palakkad	OPGW	AO073PLK-Pazhayannur - Vadakkencherry	48F	16.255	4
427	Ernakulam	OPGW	PO092EKM-Kalamassery - Malayattur	48F	27.201	4
428	Malappuram	OPGW	CO030MLP-Manjeri 220 KV - Areekode	48F	16.012	4
429	Thiruvananthapuram	OPGW	CO043TVM- Attingal - Parippally	48F	15.857	4
430	Kollam	OPGW	PO109KLM-Chavara LILO(Sasthamkotta-Kundra)	48F	17.101	4
431	Ernakulam	OPGW	AO056EKM-Pirovam LILO (Kandanad - Viacom)	48F	15.844	4
432	Alappuzha	OPGW	Punnapra - Edathua	48F	15.664	4
433	Kottayam	OPGW	PO115KTM-Pala - Muttom	48F	15.302	4
434	Ernakulam	OPGW	PO089EKM-Kalamassery - Edapally	48F	4.964	4
435	Thrissur	OPGW	PO136TCR-Viyyur - Kandasankadavu	48F	15.803	4
436	Palakkad	OPGW	UO196PLK-Shornur - Koppam	48F	14.82	4
437	Thiruvananthapuram	OPGW	AO078TVM-Pothencode - Nedumangad	48F	14.791	4
438	Malappuram	OPGW	CO024MLP- Malapuram - Kizhisseri	48F	17.74	4
439	Palakkad	OPGW	CO036PLK-Kalladikode - Mannarkad	48F	14.164	4
440	Malappuram	OPGW	CO029MLP-Malapuram - Malaparmba	48F	13.571	4
441	Ernakulam	OPGW	UO155EKM-Edayar - North parur	48F	10.112	4
442	Thrissur	OPGW	UO211TCR-Cherpu LILO (Madakkathara - Valappad)	48F	1.923	4
443	Thrissur	OPGW	UO210TCR-Madakkathara - Valappad	48F	28.186	4
444	Kottayam	OPGW	AO064KTM-Ayarkunnam - Pala	48F	13.349	4
445	Thiruvananthapuram	OPGW	AO076TVM-Nedumangad - New Kattakkada 220 KV	48F	13.258	4
446	Kozhikode	OPGW	CO023KKD-Pinarayi- Panoor	48F	12.765	4
447	Idukki	OPGW	UO169IDK-Idukki(Moolamattam)- Pallivasal	48F	36.897	4
448	Kottayam	OPGW	AO063KTM-New Pallom - Ayarkunnam	48F	12.738	4
449	Pathanamthitta	OPGW	AO074PTA-Kozhencherry - Ranni	48F	12.727	4
450	Kannur	OPGW	PO100KNR-Sreekanthapuram LILO (Kanhirode - Mattannur)	48F	12.342	4
451	Pathanamthitta	OPGW	AO075PTA-Pathanamthitta - Kozhencherry	48F	12.288	4
452	Kozhikode	OPGW	PO119KKD-Kuttiyadi - Chakkittippara	48F	12.028	4
453	Kottayam	OPGW	PO086EKM-Kanjirappally - Erumeli	48F	11.447	4

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
454	Palakkad	OPGW	AO072PLK-Ottappalam - Pazhayannur	48F	11.446	4
455	Kozhikode	OPGW	AO069KKD-Chakkittippara - Kakkayam	48F	11.016	4
456	Kozhikode	OPGW	PO120KKD-Nadapuram - Kuttiyadi	48F	10.563	4
457	Thiruvananthapuram	OPGW	CO042TVM- Pothencode - Attingal	48F	10.33	4
458	Ernakulam	OPGW	UO157EKM-Irinjalakuda LILO (Madakkathara - Valappad)	48F	12.422	4
459	Thrissur	OPGW	CO047TCR-Madakkathara - Athani	48F	10.22	4
460	Kollam	OPGW	PO107KLM-Ayathil LILO(Kundara-Paripally)	48F	9.941	4
461	Thiruvananthapuram	OPGW	SO145TVM-Parippally - Varkala	48F	9.678	4
462	Malappuram	OPGW	CO028MLP-Koppam - Malaparmba	48F	9.627	4
463	Thiruvananthapuram	OPGW	AO077TVM-Kattakkada 110 KV - Thirumala	48F	9.406	4
464	Thiruvananthapuram	OPGW	UO205TVM- Kilimanoor LILO (Edamon - Paruthippara)	48F	9.307	4
465	Palakkad	OPGW	CO034PLK-Parali - Vennakkara	48F	9.152	4
466	Palakkad	OPGW	PO125PLK-Shornur - Arangottukara	48F	9.029	4
467	Malappuram	OPGW	CO027MLP-Ponnani LILO (Tirur-Edappal)	48F	8.083	4
468	Thrissur	OPGW	CO046TCR-Chalakkudy - Kodakkara	48F	7.618	4
469	Kollam	OPGW	PO111KLM-Kundara - Perinad	48F	7.679	4
470	Ernakulam	OPGW	CO010IDK-Panangad - Aroor	48F	6.539	4
471	Palakkad	OPGW	SO148TCR-Palakkad - Walayar	48F	6.144	4
472	Kannur	OPGW	AO059KNR-Kanhirode LILO (Mundayad-Koothuparamba)	48F	5.962	4
473	Palakkad	OPGW	SO144PLK-Palakkad - Kanjikode	48F	5.498	4
474	Palakkad	OPGW	PO122PLK-Malampuzha LILO (Vennakkara- Kalladikode)	48F	5.385	4
475	Alappuzha	OPGW	Chellanam - Aroor	48F	5.192	4
476	Alappuzha	OPGW	Mavelikkara LILO (Edappon-Kayamkulam)	48F	4.811	4
477	Thiruvananthapuram	OPGW	CO039TVM-Kazhakkuttam - Terls	48F	4.731	4
478	Palakkad	OPGW	PO127PLK-Kozhinjampara LILO (Palakkad - Kollenkode)	48F	4.34	4
479	Ernakulam	OPGW	PO090EKM-Edapally - Kaloor	48F	4.107	4
480	Malappuram	OPGW	CO031MLP-Manjeri LILO (Malapuram -Nilambur)	48F	3.508	4
481	Ernakulam	OPGW	PO088EKM-New Vytilla - Kadavanthara	48F	2.995	4
482	Kozhikode	OPGW	AO066KKD-Meppayyur LILO (Panoor-Quilandy LILO)	48F	2.366	4
483	Kannur	OPGW	SO141KNR-Kubannur LILO (Vidyanagar - Manjeswaram)	48F	2.14	4
484	Thiruvananthapuram	OPGW	AO080TVM-New kattakkada 220 KV - Kattakkada 110 KV	48F	1.718	4
485	Kannur	OPGW	PO102KNR-Thalassery LILO (Pinarayi - Panoor)	48F	1.631	4
486	Malappuram	OPGW	CO212MLP-Manjeri LILO - Manjeri 220KV	48F	1.533	4

Sl no	District	Fiber Type (OPGW/ADSS)	Link Name	Type of Fibre	Fibre length	Fiber pairs intended for leasing
487	Kollam	OPGW	CO017KLM-Ambalappuram LILO(Edamon - Kundara)	48F	1.326	4
488	Thiruvananthapuram	OPGW	AO079TVM-Aruvikkara LILO (Nedumangad - New Kattakkada 220KV)	48F	1.28	4
489	Kannur	OPGW	AO061KNR-Kanjangad LILO (Mylatty-Thaliparamba)	48F	1.158	4
490	Kannur	OPGW	PO101KNR-Orkatteri LILO (Panoor - LILO Quilandy)	48F	1.126	4
491	Palakkad	OPGW	PO123PLK-Kootanad LILO (Arangottukara - Edappal)	48F	0.842	4
492	Palakkad	OPGW	AO071PLK-Pathiripala LILO (Shornur - Parali)	48F	0.74	4
493	Palakkad	OPGW	CO037PLK-Wadakkanchery LILO(Madakkathara -Shornur)	48F	0.736	4
494	Kollam	OPGW	PO108KLM-Pathanapuram LILO (Punalur-Koodal)	48F	0.544	4
495	Palakkad	OPGW	AO070PLK-Ottappalam LILO (Shornur -Parali)	48F	0.375	4
496	Thrissur	OPGW	UO208TCR-Pullazhy LILO (viyyur - Kandasankadavu)	48F	0.373	4
497	Kozhikode	OPGW	PO117KKD-Vadakara LILO (Panoor-Quilandy LILO)	48F	0.36	4
498	Thrissur	OPGW	PO138TCR-Mala LILO (Chalakkudy - Kodungallur)	48F	0.278	4
499	Ernakulam	OPGW	UO158EKM-Kattoor LILO (Valappad - Irinjalakuda)	48F	0.204	4
500	Kottayam	OPGW	PO113KTM-Pampady LILO (New Pallom - Kanjirappally)	48F	0.122	4
501	Palakkad	OPGW	LILO Pattambi (Arangottukara-Edappal)	48F	3.109	4
502	Thiruvananthapuram	OPGW	Kattakkada - Vizhinjam	48F	19.479	4
503	Thrissur	OPGW	Mannuthy LILO(Madakkathara-Kodakara LILO)	48F	0.122	4
				Total Length	7624	

PoP_Locations - Feasible Drop Points

FID	Name	District	Latitude	Longitude
1	Parassala	Thiruvananthapuram	8.365420341	77.15499878
2	Vizhinjam	Thiruvananthapuram	8.394889832	76.98519897
3	Neyyattinkara	Thiruvananthapuram	8.41767025	77.07910156
4	Balaramapuram	Thiruvananthapuram	8.437029839	77.04979706
5	Vellarada	Thiruvananthapuram	8.447999954	77.19010162
6	Power House (TVPM)	Thiruvananthapuram	8.48622036	76.94950104
7	Karamana	Thiruvananthapuram	8.489359856	76.96450043
8	Thirumala	Thiruvananthapuram	8.492250443	76.99299622
9	Kattakkada	Thiruvananthapuram	8.498669624	77.0714035
10	Veli	Thiruvananthapuram	8.506560326	76.89459991
11	LA Complex	Thiruvananthapuram	8.507719994	76.94760132
12	Peyad	Thiruvananthapuram	8.519530296	77.01789856
13	Medical College (Thiruvananthapuram)	Thiruvananthapuram	8.520719528	76.92749786
14	Vattiyurkavu	Thiruvananthapuram	8.533359528	76.99520111
15	Paruthippara	Thiruvananthapuram	8.534420013	76.94020081
16	TERLS	Thiruvananthapuram	8.53674984	76.87729645
17	Kazhakootam	Thiruvananthapuram	8.564829826	76.87689972
18	Aruvikkara	Thiruvananthapuram	8.567529678	77.02189636
19	Nedumangadu	Thiruvananthapuram	8.601940155	77.0062027
20	Pothencode	Thiruvananthapuram	8.605560303	76.87819672
21	Chullimannur	Thiruvananthapuram	8.638030052	77.02449799
22	Vithura	Thiruvananthapuram	8.657110214	77.07559967
23	Venjaramoodu	Thiruvananthapuram	8.669859886	76.91929626
24	Kadakkavoor	Thiruvananthapuram	8.683609962	76.7779007
25	Attingal	Thiruvananthapuram	8.690970421	76.84909821
26	Palode	Thiruvananthapuram	8.731499672	77.01609802
27	Varkala	Thiruvananthapuram	8.752140045	76.73249817
28	Kilimanoor	Thiruvananthapuram	8.778530121	76.88130188
29	Kallambalam	Thiruvananthapuram	8.787500381	76.78710175
30	Parippally	Kollam	8.813639641	76.77539825
31	Paravoor	Kollam	8.820280075	76.67569733
32	Kadakkal	Kollam	8.821889877	76.92810059
33	Kottiyam	Kollam	8.8582201	76.67630005
34	Adichanalloor	Kollam	8.876139641	76.73320007
35	Ayathil	Kollam	8.889889717	76.61979675
36	Ayoor	Kollam	8.88918972	76.85150146
37	Kannanalloor	Kollam	8.9103899	76.67810059
38	Kavanad	Kollam	8.913559914	76.55719757
39	Pooyappally	Kollam	8.922060013	76.771698
40	Anchal	Kollam	8.937609673	76.9095993
41	Perinad	Kollam	8.947190285	76.61039734
42	Thenmala	Kollam	8.956219673	77.06790161
43	Kundara	Kollam	8.959469795	76.67379761
44	Chavara	Kollam	8.972499847	76.53720093
45	Ezhukone	Kollam	8.975000381	76.72810364
46	Ambalappuram	Kollam	8.978560448	76.75749969
47	Edamon	Kollam	8.992469788	77.0007019
48	Kottarakkara	Kollam	8.999219894	76.7786026
49	Chengamanad	Kollam	9.008640289	76.8167038
50	Punalur	Kollam	9.013030052	76.92790222
51	Puthoor(Kottarakkara)	Kollam	9.039170265	76.72489929
52	Sasthamkotta	Kollam	9.065079689	76.64459991
53	Karunagappally	Kollam	9.075559616	76.53359985
54	Pathanapuram	Kollam	9.088749886	76.86270142
55	Ochira	Kollam	9.120220184	76.50019836
56	Vallikunnam	Alappuzha	9.125749588	76.56030273
57	Adoor	Pathanamthitta	9.155280113	76.75119781
58	Koodal	Pathanamthitta	9.158530235	76.85310364
59	Kattanam	Alappuzha	9.176280022	76.57659912

PoP_Locations - Feasible Drop Points

60	Kayamkulam	Alappuzha	9.187529564	76.48310089
61	Edappon	Alappuzha	9.217670441	76.62779999
62	Konny	Pathanamthitta	9.231360435	76.8431015
63	Mavelikkara	Alappuzha	9.238080025	76.53900146
64	Pathanamthitta	Pathanamthitta	9.256079674	76.7826004
65	Nangiarkulangara	Alappuzha	9.261810303	76.4571991
66	Sabarigiri	Pathanamthitta	9.307689667	77.07230377
67	Mannar	Alappuzha	9.314689636	76.54750061
68	Karuvatta	Alappuzha	9.31814003	76.41970062
69	Chengannur	Alappuzha	9.317970276	76.62120056
70	Kozhencherry	Pathanamthitta	9.323060036	76.70700073
71	Edathua	Alappuzha	9.362139702	76.46859741
72	Ranni	Pathanamthitta	9.360830307	76.79370117
73	Ranni-Perinad	Pathanamthitta	9.361809731	76.85690308
74	Kumbanadu	Pathanamthitta	9.366999626	76.65670013
75	Thakazhy	Alappuzha	9.376469612	76.39649963
76	Thiruvalla	Pathanamthitta	9.385310173	76.58390045
77	Kochu Pampa	Pathanamthitta	9.387940407	77.15080261
78	Chumatra	Pathanamthitta	9.408670425	76.57479858
79	Triveni	Pathanamthitta	9.415280342	77.06559753
80	Punnapra	Alappuzha	9.426139832	76.34609985
81	Kuttanad	Alappuzha	9.437939644	76.42169952
82	Mallappally	Pathanamthitta	9.445329666	76.66329956
83	Thrikkodithanam	Kottayam	9.449780464	76.56490326
84	Changanassery	Kottayam	9.464559555	76.55190277
85	Alappuzha	Alappuzha	9.500639915	76.32920074
86	Karukachal	Kottayam	9.511719704	76.63009644
87	Vakathanam	Kottayam	9.512330055	76.57289886
88	Kanjirappally	Kottayam	9.547109604	76.79309845
89	Poovanthuruth (Pallom)	Kottayam	9.548560143	76.52770233
90	New Pallom	Kottayam	9.548749924	76.52890015
91	Pathirappally	Alappuzha	9.551690102	76.32499695
92	Mundakkayam	Kottayam	9.551110268	76.8660965
93	Pampady	Kottayam	9.552809715	76.64430237
94	Kootickal	Idukki	9.559249878	76.88629913
95	Vandiperiyar	Idukki	9.57269001	77.08190155
96	Kodimatha	Kottayam	9.579000473	76.52300262
97	Kottayam (kanjikuzhy)	Kottayam	9.582249641	76.53970337
98	Peerumedu	Idukki	9.592280388	76.97360229
99	Chengalam	Kottayam	9.600689888	76.48329926
100	Ayarkunnam	Kottayam	9.630689621	76.6072998
101	Gandhinagar	Kottayam	9.631830215	76.52490234
102	SL Puram	Alappuzha	9.643059731	76.34329987
103	Paika	Kottayam	9.658920288	76.72309875
104	Vagamon	Kottayam	9.683469772	76.89749908
105	Ettumanoor	Kottayam	9.689080238	76.55490112
106	Chertalai	Alappuzha	9.69742012	76.31729889
107	Kidangoor	Kottayam	9.698860168	76.61109924
108	Erattupetta	Kottayam	9.69919014	76.77279663
109	Upputhara	Idukki	9.700360298	77.02570343
110	Pala	Kottayam	9.725359917	76.68000031
111	Kattappana	Idukki	9.752059937	77.11109924
112	Kaduthuruthy	Kottayam	9.756389618	76.48149872
113	Vaikom	Kottayam	9.761110306	76.41269684
114	Kuravilangadu	Kottayam	9.765190125	76.56459808
115	Thaikattussery	Alappuzha	9.774749756	76.36060333
116	Kuthiathode	Alappuzha	9.777999878	76.31479645
117	Idukki	Idukki	9.789369583	76.86000061
118	Kulamavu	Idukki	9.796059608	76.88510132
119	Ramapuram	Kottayam	9.800749779	76.65699768

PoP_Locations - Feasible Drop Points

120	Nedumkandam	Idukki	9.822999954	77.15000153
121	Vazhathope	Idukki	9.841139793	76.95819855
122	Chellanam	Ernakulam	9.856030464	76.26930237
123	Koothattukulam	Ernakulam	9.867219925	76.59770203
124	Aroor	Alappuzha	9.884189606	76.29679871
125	Piravom	Ernakulam	9.891440392	76.48940277
126	Thodupuzha	Idukki	9.897669792	76.70410156
127	Udumpanoor	Idukki	9.908920288	76.83209991
128	Kandanad	Ernakulam	9.914250374	76.38249969
129	Panangad	Ernakulam	9.918060303	76.32009888
130	Mattancherry	Ernakulam	9.936280251	76.25450134
131	Kuthunkal	Idukki	9.936059952	77.10710144
132	Wellington Island	Ernakulam	9.944219589	76.28459993
133	Kadavanthara	Ernakulam	9.94742012	76.29979706
134	Senapathy	Idukki	9.951080322	77.18099976
135	Panampally Nagar	Ernakulam	9.955719948	76.29689789
136	Perumanoor	Ernakulam	9.956390381	76.29060364
137	Neriamangalam	Idukki	9.953419685	76.97949982
138	New Vytilla	Ernakulam	9.960109711	76.32260132
139	Fort Kochi	Ernakulam	9.961330414	76.23870087
140	Vytilla	Ernakulam	9.963500023	76.31950378
141	Ambalamughal	Ernakulam	9.964500427	76.39060211
142	Kalloorkadu	Ernakulam	9.966859818	76.6536026
143	Puthencruz	Ernakulam	9.976670265	76.45359802
144	Chengulam	Idukki	9.976099968	77.03079987
145	Marine Drive	Ernakulam	9.98266983	76.27380371
146	Vannapuram	Idukki	9.980690002	76.79540253
147	Ernakulam North	Ernakulam	9.993780136	76.27610016
148	Brahmapuram	Ernakulam	9.99557972	76.37270355
149	Kaloor	Ernakulam	10.0024004	76.29820251
150	Kakkanad	Ernakulam	10.00940037	76.34100342
151	Mazhuvannoor	Ernakulam	10.01159954	76.52870178
152	Muvattupuzha	Ernakulam	10.01469994	76.56410217
153	Adimali	Idukki	10.01480007	76.93920135
154	Njarakkal	Ernakulam	10.01980019	76.22689819
155	Pothanikadu (Myloor)	Ernakulam	10.01959991	76.64579773
156	Karimanal	Ernakulam	10.02169991	76.83809662
157	NPOL	Ernakulam	10.02610016	76.33499908
158	Mulavukadu	Ernakulam	10.02960014	76.25869751
159	Kizhakkambalam	Ernakulam	10.0369997	76.41850281
160	Edappally	Ernakulam	10.03789997	76.29340363
161	Kothamangalam	Ernakulam	10.05389977	76.61380005
162	Kalamassery	Ernakulam	10.0571003	76.33139801
163	Edayar	Ernakulam	10.08349991	76.31539917
164	Vengola	Ernakulam	10.08619976	76.46230316
165	Edathala	Ernakulam	10.08909988	76.38960266
166	Varapuzha	Ernakulam	10.09140015	76.26439667
167	Aluva	Ernakulam	10.09959984	76.35639954
168	Kuruppampady	Ernakulam	10.11359978	76.51789856
169	Perumbavoor	Ernakulam	10.11590004	76.45890045
170	Alangadu	Ernakulam	10.12220001	76.29689789
171	Rayonpuram	Ernakulam	10.12450027	76.45600128
172	North Parur	Ernakulam	10.14459991	76.25669861
173	Koovappady	Ernakulam	10.16650009	76.49759674
174	Vadakkekkara	Ernakulam	10.171109966	76.19819641
175	Angamaly	Ernakulam	10.17240047	76.37259674
176	Kurumassery33	Ernakulam	10.17650032	76.32929993
177	Kurumassery	Ernakulam	10.17980003	76.32250214
178	Puthenvelikkara	Ernakulam	10.18029976	76.26730347
179	Malayattur	Ernakulam	10.18290043	76.46790314

PoP_Locations - Feasible Drop Points

180	Kalady	Ernakulam	10.18480015	76.42610168
181	Methala	Thrissur	10.19890022	76.18019867
182	Kodungallur	Thrissur	10.2269001	76.21240234
183	Mala	Thrissur	10.23480034	76.27719879
184	Karukutty	Thrissur	10.24129963	76.37390137
185	Annamanada	Thrissur	10.24629974	76.3132019
186	Ossigin (KCPL) Thrissur	Thrissur	10.26000023	76.32409668
187	Ayyampuzha	Ernakulam	10.25990009	76.46089935
188	Koratty	Thrissur	10.26379967	76.35520172
189	Vaiga Threads	Thrissur	10.26399994	76.35489655
190	Anchangady	Thrissur	10.27110004	76.15229797
191	Velangallur	Thrissur	10.28069973	76.20539856
192	Chalakudy	Thrissur	10.31060028	76.34049988
193	Pariyaram (Thrissur)	Thrissur	10.3135004	76.38829803
194	Irinjalakkuda	Thrissur	10.33209991	76.21520233
195	Kaipamangalam	Thrissur	10.33269978	76.12550354
196	Kallettumkkara	Thrissur	10.3508997	76.27410126
197	Vellikulangara	Thrissur	10.35659981	76.41369629
198	Kattur	Thrissur	10.37580013	76.17669678
199	Kodakara	Thrissur	10.37639999	76.32050323
200	Parappukara	Thrissur	10.38090038	76.26689911
201	Valappad	Thrissur	10.40159988	76.11920166
202	Chirakkal	Thrissur	10.42510033	76.15910339
203	Pudukkad	Thrissur	10.42650032	76.27559662
204	Anthikkad	Thrissur	10.43970013	76.12670135
205	Cherpu	Thrissur	10.43949986	76.20189667
206	Palakkal	Thrissur	10.46700001	76.21549988
207	Ollur	Thrissur	10.47959995	76.25189972
208	Puthur (Thrissur)	Thrissur	10.48069954	76.28540039
209	Kandassankadavu	Thrissur	10.48340034	76.11260223
210	Vadanappally	Thrissur	10.4861002	76.08519745
211	Pullazhy	Thrissur	10.52630043	76.16999817
212	Mullassery	Thrissur	10.54139996	76.10189819
213	Nelliampathy	Palakkad	10.54049969	76.69760132
214	Pattikad	Thrissur	10.54310036	76.33270264
215	Viyyur	Thrissur	10.55650043	76.21779633
216	Chittadi	Palakkad	10.55679989	76.52490234
217	Madakkathara	Thrissur	10.56210041	76.26889801
218	Parappur	Thrissur	10.57530022	76.12709808
219	Chavakkad	Thrissur	10.59379959	76.01599884
220	Nenmara	Palakkad	10.59389973	76.58409882
221	Vadankkencherry	Palakkad	10.59860039	76.47840118
222	Guruvayoor	Thrissur	10.60050011	76.05840302
223	Mundur	Thrissur	10.60239983	76.16020203
224	Kollenkode	Palakkad	10.60630035	76.7173996
225	Poomala	Thrissur	10.61209965	76.23970032
226	Athani	Thrissur	10.61429977	76.2059021
227	Muthalamada	Palakkad	10.61390018	76.79660034
228	Pallassana	Palakkad	10.62460041	76.66519928
229	Kunnamkulam	Thrissur	10.63409996	76.08640289
230	Meenakshipuram	Palakkad	10.63840008	76.82949829
231	Alathur	Palakkad	10.64099979	76.55789948
232	Wadakkancherry	Thrissur	10.65649986	76.26139832
233	Kannampully	Palakkad	10.66090012	76.60299683
234	Chittur	Palakkad	10.67039967	76.75309753
235	Koduvayur	Palakkad	10.67609978	76.6493988
236	Tarur	Palakkad	10.67850018	76.4654007
237	Punnayurkulam	Thrissur	10.6850996	75.99410248
238	Erumappetty	Thrissur	10.68610001	76.15789795
239	Konganoor	Thrissur	10.68760014	76.07900238

PoP_Locations - Feasible Drop Points

240	Pazhayannur	Thrissur	10.69890022	76.4240036
241	Vannamada	Palakkad	10.70020008	76.83940125
242	Chelakkara	Thrissur	10.70339966	76.34120178
243	Muloorkara	Thrissur	10.70489979	76.28179932
244	Chalissery	Palakkad	10.73880005	76.11340332
245	Kozhinjampara	Palakkad	10.73750019	76.81729889
246	Medical College-Palakkad (Chandranagar)	Palakkad	10.7531004	76.66919708
247	Maniampara	Palakkad	10.75339985	76.52559662
248	Koottanadu	Palakkad	10.75809956	76.13020325
249	Vennakkara	Palakkad	10.75879955	76.63159943
250	Ponnani	Malappuram	10.7730999	75.94709778
251	Aragottukara	Thrissur	10.77340031	76.20829773
252	Vydhuyuthi Bhavan - Palakkad	Palakkad	10.77210045	76.65339661
253	Ottappalam	Palakkad	10.7741003	76.39759827
254	Shornur	Palakkad	10.78079987	76.28559875
255	Velanthavalam	Palakkad	10.77859974	76.85569763
256	Kanjikode	Palakkad	10.78919983	76.7397995
257	Palakkad	Palakkad	10.79080009	76.77729797
258	Thrithala	Palakkad	10.79640007	76.11489868
259	Pathirippala	Palakkad	10.79590034	76.48400116
260	Edappal	Malappuram	10.79990005	76.00879669
261	Parali	Palakkad	10.7986002	76.56330109
262	Pattambi	Palakkad	10.81130028	76.20510101
263	Walayar	Palakkad	10.81219959	76.8227005
264	Malampuzha	Palakkad	10.82839966	76.64479828
265	Thavanoor (Thrikannapuram)	Malappuram	10.85159969	75.98860168
266	Kongad	Palakkad	10.85429955	76.53109741
267	Thiruvegappura	Palakkad	10.85719967	76.11889648
268	Tirunavaya	Malappuram	10.86289978	75.9720993
269	Koppam	Palakkad	10.87489986	76.1977005
270	Cherupulassery	Palakkad	10.88739967	76.32180023
271	Sreekrishnapuram	Palakkad	10.89150047	76.40180206
272	Kuttippuram	Malappuram	10.89640045	76.04509735
273	Pulamanthole	Malappuram	10.90159988	76.1937027
274	Kalladikode	Palakkad	10.91059971	76.54489899
275	Tirur	Malappuram	10.92679977	75.91329956
276	Malapparamba	Malappuram	10.94950008	76.15920258
277	Thazhekcode	Malappuram	10.95219994	76.30580139
278	Perinthalmanna	Malappuram	10.97869968	76.22409821
279	Mannarkad	Palakkad	10.99890041	76.47059631
280	Edarikode	Malappuram	11.00220013	75.98200226
281	Makaraparamba	Malappuram	11.00669956	76.12419891
282	Alanellur	Palakkad	11.00660038	76.354599
283	Mankada	Malappuram	11.01159954	76.17849731
284	Othukungal	Malappuram	11.0284996	76.03489685
285	Kooriyad	Malappuram	11.0486002	75.9464035
286	Malappuram	Malappuram	11.05420017	76.09140015
287	Melattur	Malappuram	11.07299995	76.26470184
288	Agali	Palakkad	11.10210037	76.64859772
289	Valluvambram	Malappuram	11.13099957	76.04389954
290	Chelari	Malappuram	11.13529968	75.895401
291	Manjery	Malappuram	11.13519955	76.11840057
292	Kinfra33	Malappuram	11.14960003	75.88990021
293	Keezhissery	Malappuram	11.16720009	75.99019623
294	Ramanattukara	Kozhikkode	11.1782999	75.86299896
295	Kalikavu	Malappuram	11.17679977	76.32260132
296	Nallalam	Kozhikkode	11.20660019	75.80840302
297	Wandoor	Malappuram	11.21179962	76.22799683
298	Edavanna	Malappuram	11.21529961	76.14330292
299	Areekode	Malappuram	11.22570038	76.03959656

PoP_Locations - Feasible Drop Points

300	Mankavu	Kozhikkode	11.23649979	75.80560303
301	Puthiyara	Kozhikkode	11.25339985	75.79039764
302	Pookottumpadam	Malappuram	11.25710011	76.28780365
303	Gandhi Road	Kozhikkode	11.26360035	75.76930237
304	Kuttikattur	Kozhikkode	11.26879978	75.85379791
305	Chevayur	Kozhikkode	11.26970005	75.81839752
306	Mavoor	Kozhikkode	11.26930046	75.97280121
307	Velannur	Kozhikkode	11.29559994	75.9190979
308	Nilambur	Malappuram	11.29679966	76.24569702
309	Kunnamangalam	Kozhikkode	11.30749989	75.88580322
310	Westhill	Kozhikkode	11.31190014	75.75930023
311	Agasthyamoozhi	Kozhikkode	11.3416996	75.96469879
312	Koduvally	Kozhikkode	11.34840012	75.86499786
313	Edakkara	Malappuram	11.36670017	76.32499695
314	Urumi	Kozhikkode	11.36979961	76.05329895
315	Thambalamanna	Kozhikkode	11.38650036	76.01650238
316	Thamarasserry	Kozhikkode	11.44349957	75.95539856
317	Quilandy	Kozhikkode	11.44680023	75.7405014
318	Balussery	Kozhikkode	11.45720005	75.81909943
319	Melady	Kozhikkode	11.52729988	75.63559723
320	Meppayur	Kozhikkode	11.52789974	75.70580292
321	Kuthumunda	Wayanad	11.57059956	76.08769989
322	Chakkittippara	Kozhikkode	11.57680035	75.82089996
323	Vadakara	Kozhikkode	11.60840034	75.60279846
324	Thiruvallur	Kozhikkode	11.61139965	75.65869904
325	Kalpetta	Wayanad	11.63720036	76.06390381
326	Kuttiadi	Kozhikkode	11.65429974	75.75720215
327	Orkatteri	Kozhikkode	11.66549969	75.59850311
328	Meenangadi	Wayanad	11.66639996	76.15380096
329	Sultan Battery	Wayanad	11.67409992	76.25489807
330	Padinjarethara	Wayanad	11.67529964	75.95760345
331	Kaniampetta	Wayanad	11.6868	76.08309937
332	Nadapuram	Kozhikkode	11.69779968	75.68000031
333	Panoor	Kannur	11.73190022	75.56340027
334	Kodiyeri	Kannur	11.74720001	75.52490234
335	Anjukunnu	Wayanad	11.7517004	76.04879761
336	Thalassery	Kannur	11.76799965	75.52510071
337	Puthoor (Kannur)	Kannur	11.77340031	75.59780121
338	Dharmadam	Kannur	11.78059959	75.47429657
339	Pulpally	Wayanad	11.80749989	76.16000366
340	Pinarayi	Kannur	11.81159973	75.48930359
341	Mananthavadi	Wayanad	11.81110001	75.99590302
342	Thottada	Kannur	11.8423996	75.42279816
343	Koothuparamba	Kannur	11.84829998	75.57209778
344	Nedumpoyil	Kannur	11.85359955	75.74330139
345	Chova	Kannur	11.86839962	75.40370178
346	Kannur Town	Kannur	11.87839985	75.35959625
347	Mundayad	Kannur	11.89459991	75.40670013
348	Tholambra	Kannur	11.89459991	75.67479706
349	Puthiyatheru	Kannur	11.90579987	75.375
350	Pazhassi	Kannur	11.9076004	75.58409882
351	Kanhirode	Kannur	11.91619968	75.46130371
352	Azhikode	Kannur	11.92520046	75.34329987
353	Mattannur	Kannur	11.94970036	75.61299896
354	Kuttiyatoor	Kannur	11.96010017	75.49620056
355	Mangad	Kannur	11.98219967	75.3742981
356	Ezhimala	Kannur	12.01159954	75.207901
357	Iritty	Kannur	12.02200031	75.69920349
358	Payyangadi	Kannur	12.02630043	75.26260376
359	Thaliparamba	Kannur	12.03390026	75.3423996

PoP_Locations - Feasible Drop Points

360	Sreekantapuram	Kannur	12.04319954	75.50440216
361	Pariyaram (Kannur)	Kannur	12.07699966	75.28939819
362	Nadukani	Kannur	12.10369968	75.40879822
363	Payyanur Town	Kannur	12.11680031	75.22029877
364	Thrikarippur	Kasargod	12.12269974	75.18270111
365	Payyannur	Kannur	12.15289974	75.2233963
366	Alakode	Kannur	12.19900036	75.45619965
367	Cheruvathur	Kasargod	12.21020031	75.16609955
368	Cheruppuzha	Kannur	12.26109982	75.35320282
369	Nileswaram	Kasargod	12.26679993	75.15740204
370	West Elery	Kasargod	12.30290031	75.27850342
371	Kanjangad	Kasargod	12.34249973	75.1128006
372	Belur	Kasargod	12.39260006	75.1812973
373	Mylatty	Kasargod	12.44960022	75.05799866
374	Vidyanagar	Kasargod	12.52340031	75.01570129
375	Mulleriya	Kasargod	12.54559994	75.16680145
376	Badiadukka	Kasargod	12.58279991	75.07820129
377	Ananthapuram	Kasargod	12.58409977	74.98069763
378	Perla	Kasargod	12.64659977	75.10050201
379	Kubannur	Kasargod	12.6704998	74.94599915
380	Manjeswaram	Kasargod	12.71800041	74.91249847
381	Cherai		10.12689972	76.20059967
382	Parappanangadi		11.03950024	75.86930084
383	Pallivasal		10.03120041	77.05079651
384	Marayur		10.26130009	77.17030334
385	Erumeli		9.465680122	76.83399963
386	Rajapuram		12.43449974	75.27079773
387	Secretariate		8.498000145	76.94979858
388	Muttathara		8.462459564	76.93270111
389	Ambalavayal		11.61859989	76.20829773
390	Kundala		10.14360046	77.19860077
391	Poovar	Thiruvananthapuram	77.06002808	77.06002808