

DOKUMEN ATP

PROJECT OSP KKM PT. MORA TELEMATIKA INDONESIA 2017

LASTMILE : GO-JEK
NO KONTRAK / SPK : 949/ MTI/ PUR-CF/SPK/ IX/ 2015



KOPERASI KARYAWAN MORATELINDO
MENTENG
JAKARTA PUSAT

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COVER (Hard Cover)

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BAST

BERITA ACARA SERAH TERIMA (BAST) No.434 /BAST LASTMILE/ KKM / VII /2017

Berdasarkan SPK / Kontrak No : 949/ MTI/ PUR-CF/SPK/ IX/ 2015

Pada hari ini **Jum'at** Tanggal **23** Bulan **Juni** Tahun **2017** yang bertanda tangan dibawah ini:

Nama : Sugiharto
Perusahaan : PT. Mora Telematika Indonesia
Jabatan : Deputy CTO/Director
Alamat : Graha 9, lantai 5
 Jl. Penataran No.9 Proklamasi, Jakarta 10320

Untuk selanjutnya bertindak sebagai **PIHAK PERTAMA**

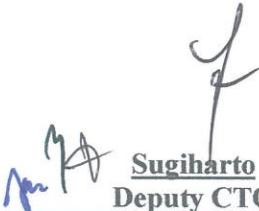
Nama : Chresna Ari Cipta
Perusahaan : KKM
Jabatan : Manager IKR
Alamat : Graha 9, lantai 3
 Jl. Penataran No.9 Proklamasi, Jakarta 10320

Untuk selanjutnya bertindak sebagai **PIHAK KEDUA**

Dengan ini KEDUA PIHAK, menyatakan persetujuan bahwa :

- **PIHAK KEDUA** telah menyelesaikan pekerjaan **Implementasi OSP Project Lastmile Go-Jek Blok M** sesuai dengan Purchase Order dari **PIHAK PERTAMA** No 949/ MTI/ PUR-CF/SPK/ IX/ 2015 tanggal 7 September 2015
- **PIHAK PERTAMA** menyatakan menerima hasil pekerjaan dimaksud dengan tidak ada keberatan terhadap pekerjaan yang telah diselesaikan oleh **PIHAK KEDUA**.
- **PIHAK PERTAMA** dan **PIHAK KEDUA** sepakat, bahwa sejak diterbitkannya Berita Acara Serah Terima (BAST) ini, maka masa pemeliharaan dimulai sampai 12 (duabelas) bulan berikutnya.

Demikian Berita Acara Serah Terima (BAST) pekerjaan ini dibuat dalam rangkap 2 (dua) asli, masing-masing ditandatangani oleh kedua pihak bermaterai cukup dan mempunyai kekuatan hukum yang sama untuk dipergunakan sebagaimana mestinya.

PIHAK PERTAMA	PIHAK KEDUA
PT. MORA TELEMATIKA INDONESIA	KOPERASI KARYAWAN MORATELINDO
 <u>Sugiharto</u> Deputy CTO	 <u>Chresna Ari Cipta</u> Manager IKR

BAUT

BERITA ACARA UJI TERIMA (BAUT)

Pekerjaan OSP Lastmile Go-Jek

Berdasarkan SPK/Kontrak No 949/ MTI/ PUR-CF/SPK/ IX/ 2015

Pada hari ini **Jum'at Tanggal 16 Bulan Juni Tahun 2017** yang bertanda tangan dibawah ini:

1. Nama : Abdul Yani
Jabatan : IKR Supervisor

Yang selanjutnya disebut **KOPERASI KARYAWAN MORATELINDO**

1. Nama : Fenny Rahayu
Jabatan : Project General Manager
2. Nama : Ilham Rahardian
Jabatan : Operation General Manager
3. Nama : Rosikin
Jabatan : Engineering General Manager

Yang selanjutnya disebut **PT. MORA TELEMATIKA INDONESIA**

Secara bersama-sama telah mengadakan pemeriksaan terhadap Closing ATP dengan hasil sebagai berikut:

- Pekerjaan telah diperiksa secara visual dan pengujian dengan hasil sebagai berikut :
- Dapat diterima
 - Dapat diterima dengan catatan
 - Tidak dapat diterima
- Hasil pemeriksaan pengujian terlampir

Demikian Berita Acara Uji Terima (BAUT) pekerjaan ini dibuat dalam rangkap 2 (dua) asli, untuk kedua belah pihak untuk dipergunakan sebagaimana mestinya.

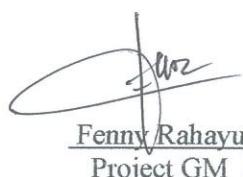
Diajukan oleh :

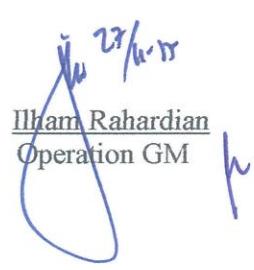
KKM


Abdul Yani
IKR Supervisor

Disetujui oleh :

PT. MORA TELEMATIKA INDONESIA


Fenny Rahayu
Project GM


Ilham Rahardian
Operation GM


Rosikin
Eng GM

BERITA ACARA LAPANGAN



BERITA ACARA LAPANGAN

Project OSP : Moratelindo 2017

Lastmile : Go-Jek

No Kontrak / SPK : No 949/ MTI/ PUR-CF/SPK/ IX/ 2015

Pada hari ini Jum'at tanggal 16 bulan Juni tahun 2017 (*dua ribu tujuh belas*) Kami yang bertandatangan di bawah ini :

I. Nama : Abdul Yani
Jabatan : IKR Supervisor
Perusahaan : Koperasi Karyawan Moratelindo

II. Nama : Mohammad Arisandi
Jabatan : Project Manager
Perusahaan : PT. Mora Telematika Indonesia

Berdasarkan laporan dan pengecekan di lapangan bersama Team Moratelindo dengan Team Koperasi Karyawan Moratelindo menerangkan bahwa :

Selesai dengan hasil baik.

Demikian Berita acara ini kami buat untuk diketahui sesuai dengan kondisi di lapangan dan dipergunakan sebagai kelengkapan data administrasi.

Diajukan oleh : KKM  (Abdul Yani)	Diverifikasi oleh : Project Manager PT. Mora Telematika Indonesia  (Mohammad Arisandi)
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SPK / PO

SURAT PERINTAH KERJA (SPK)

F/PRO/01.01

Jakarta, 7 September 2015
 NO : 949/MTI/PUR-CF/SPK/IX/2015

Kepada Yth.
Koperasi Karyawan Moratelindo
 Gedung Grha 9 lt.6
 Jl. Penataran no 9, Proklamasi, Jakarta 10320
 Telp. 31998600
 Attn: Ricky Dhamara

Dengan Hormat,

Berikut kami sampaikan Surat Perintah Kerja (SPK) dengan perincian sebagai berikut:

Project	Pekerjaan/Spesifikasi				RFS	PIC Moratel	PIC Vendor	
Project FTTB/FTTx Moratel 2015	Scope of work and unit price: A. INSTALLATION	No	Installation Unit	FTTx (In Rp)	FTTB (In Rp)	Based on EWO	• Eliezer 0813-82217959	• Ricky Dhamara 0818-06903619
				Service Only	Incl Material		• Ardiyan 0817-9020817	
		1	Internet Only	680,000	1,674,400			
		2	1 TV Only	760,000	1,754,400			• Chresna 0812-7949533
		3	1 Internet + 1 TV	760,000	1,754,400			
		4	1 Internet + 2 TV	810,000	1,877,900			
		5	1 Internet + 3 TV	860,000	2,001,400			
		6	FAT (Incl Terimasi)	500,000	N/A			
	B. MAINTENANCE & TROUBLESHOOT	No	Maintenance Unit	Unit Price				
		1	Troubleshoot di FAT	800,000				
		2	Troubleshoot FAT ke arah FDT	1,000,000				
		3	Troubleshoot FAT ke arah Closure	1,000,000				
Term of Payment: 100% after BAST	* Detail terlampir * Harga diatas hanya berlaku untuk project FTTb & FTTx * SPK ini berlaku sampai kontrak FTTb/FTTx antara Moratel dan KKM dilandatangkan							

Demikian kami sampaikan Surat Perintah Kerja ini, agar dapat dilaksanakan sebagaimana mestinya.

Atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Remarks:

1. Barang yang disupply dan atau Jasa yang dikerjakan harus sesuai dengan spesifikasi yang ditentukan Moratel.
2. Wajib menjamin keselamatan para karyawannya atau pihak lainnya yang terlibat dalam Pelaksanaan Pekerjaan dengan memastikan bahwa pihak yang terlibat dalam pelaksanaan Pekerjaan menggunakan perlengkapan penunjang keselamatan yang diantaranya penggunaan rompi, helm, kerja & perlengkapan lainnya.
3. Wajib memperhatikan dan mematuhi peraturan perundang-undangan dibidang perburuhan, bertanggung jawab atas keselamatan kerja seluruh karyawannya yang berkaitan dengan pelaksanaan Pekerjaan.
4. Pelaksanaan pekerjaan harus sesuai dengan ketentuan peraturan perundang-undangan yang berlaku terutama mengenai Hak atas Kekayaan Intelektual (HaKI) dan membebaskan Moratel dari segala tuntutan dan/atau gugatan serta segala akibat yang ditimbulkannya.
5. Sehubungan dengan penagihan Pajak Pertambahan Nilai (PPN), maka Moratel akan melakukan pembayaran atas penagihan nilai PPN tersebut kepada REKANAN apabila REKANAN telah melampirkan bukti pelaporan Faktur Pajak tersebut, berupa:
 - a. Copy Bukti Penerimaan Surat (BPS) yang dikeluarkan oleh Kantor Pelayanan Pajak (KPP)
 - b. Copy Form Induk Surat Pemberitahuan Masa (SPM) PPN 1111
 - c. Copy Form 1111 A2
 - d. Copy halaman terakhir 1111 A2
6. Bukti pelaporan pajak tersebut harus diberikan kepada Moratel paling lambat dua bulan dari tanggal Faktur Pajak. Jika hal ini tidak terpenuhi, maka Moratel berhak menolak melakukan pembayaran PPN.
7. Pembayaran atas dasar tagihan Dasar Pengenaan Pajak (DPP) tetap dapat dibayarkan pada saat jatuh tempo pembayaran, meskipun persyaratan sebagaimana dimaksud pada ketentuan di atas belum terpenuhi.

Hormat Kami,
PT Mora Telematika Indonesia



Yopie Widjaja
 Chief Financial Officer

BOQ

No.	Item Description	Satuan	BOQ Plan/PO Qty	BOQ Aktual Qty	Difference Qty	VENDOR NAME		Remarks
						Unit Price	Total Price	
1	PENGAMANAN & PERSIAPAN							
1,1	Rambu - rambu pengamanan	Ls	1	1	-	690.000,00	690.000,00	Survey
1,2	Pengadaan papan nama proyek	Ls			-			
1,3	Pengadaan batas / pagar proyek	Ls			-			
1,4	Pengadaan direksi kit + bedeng kerja	Ls			-			
1,5	Jasa Koordinasi & perijinan PU	meter			-			
1,6	Jasa Koordinasi & perijinan PJKA	track			-			
1,7	Jasa Koordinasi & perijinan Gas Negara	Ls			-			
1,8	Jasa Koordinasi & perijinan Jalan Tol	Ls			-			
1,9	Jasa Koordinasi & perijinan Private Area (site)	Ls	1	1	-	500.000,00	500.000,00	
1,10	Jasa Transportasi	Ls	1	1	-	1.500.000,00	1.500.000,00	
SUB TOTAL PENGAMANAN & PERSIAPAN							2.690.000,00	
2	A. MATERIAL							
2,1	Pengadaan Kabel FO duct type SM/D 24 Core	meter			0			
2,2	Pengadaan Kabel FO duct type SM/D 48 Core	meter			0			
2,3	Pengadaan Kabel FO duct type SM/D 96 Core	meter			0			
2,4	Pengadaan Kabel FO duct type SM/D 144 Core	meter			0			
2,5	Pengadaan Kabel FO aerial type SM/D 12 Core	meter	700	650	50			Provide by MTI
2,6	Pengadaan Kabel FO aerial type SM/D 24 Core	meter			0			
2,7	Pengadaan Kabel FO aerial type SM/D 48 Core	meter			0			
2,8	Pengadaan Kabel FO aerial type SM/D 96 Core	meter			0			
2,9	Pengadaan Kabel FO aerial type SM/D 144 Core	meter			0			
2,10	Pengadaan dan instalasi Jointing Closure for 24 core	set			0			
2,11	Pengadaan dan instalasi Jointing Closure for 48 core	set			0			
2,12	Pengadaan dan instalasi Jointing Closure for 96 core -6 Holes	set			0			
2,13	Pengadaan dan instalasi Jointing Closure for 144 core -6 Holes	set			0			
2,14	Pengadaan dan instalasi LABEL Joint Closure	set			0			
2,15	Pengadaan dan instalasi OTB 24 core (Rack Mounted) include FC - PC	set	1	1	0	1.900.000,00	1.900.000,00	Provide by KKM
2,16	Pengadaan dan instalasi OTB 48 core (Rack Mounted) include FC - PC	set			0			
2,17	Pengadaan dan instalasi OTB 96 core (Rack Mounted) include FC - PC	set			0			
2,18	Pengadaan dan instalasi OTB 144 core (Rack Mounted) include FC - PC	set			0			
2,19	Pengadaan dan instalasi LABEL OTB	set	1	1	0	10.000,00	10.000,00	Provide by KKM
2,20	Pengadaan dan instalasi Open Rack OTB Standard 19 inch	set			0			
2,21	Pengadaan dan instalasi LABEL untuk Rack	set			0			
2,22	Pengadaan dan instalasi Slack Storage Coll (Slack cable)	set			0			
2,23	Pengadaan dan instalasi Support Tiang KU / Temberang	set			0			
2,24	Pengadaan Tiang Besi 7 m	pcs			0			
2,25	Pengadaan Tiang Besi 9 m	pcs			0			
2,26	Pengadaan dan instalasi Fitting Dead end cable	set	2		2	90.000,00	180.000,00	Provide by KKM
2,27	Pengadaan dan instalasi Fitting Suspension cable	set			0	60.000,00		
2,28	Pengadaan dan instalasi Subduct HDPE 34/40 (Pipa Pvc)	btg	20	15	5			Provide by KKM
2,29	Pengadaan dan instalasi Warning tape	meter			0			
SUB TOTAL MATERIAL							2.090.000,00	
3	PEMBANGUNAN / PENANAMAN (SUBDUCT) KABEL TANAM LANGSUNG							
3,1	Jasa Pembuatan & perbaikan kembali alur tanam langsung (Termasuk dengan Subduct HDPE 33/40mm Merah - strip biru) dengan lintasan ;							
3,1,1	a. Jasa Boring Rojok (di semua permukaan / Lintasan)	meter			-			
3,1,2	b. Jasa Boring Manual / Mesin untuk crossing jalan	meter			-			
3,1,3	c. Jasa Boring KA	meter			-			
3,1,4	d. Jasa Pembuatan duct slum dengan sub duct	meter			-			
3,1,5	e. Jasa Galvan	meter			-	50.000,00	-	
3,2	Jasa Penanaman Tiang Kabel Uda + Label	Pcs			-			
3,3	Jasa Pembuatan jembatan gantung (hanging bridge) < 40 m termasuk konstruksi tiang double dan pemasangan aksesoris kabel	meter			-			
3,4	Jasa Pembuatan dan pemasangan pipa pengaman bergelvanized pada lintasan pari/sungai dengan konstruksi duct slumped/ menempel /pengikatan sendiri 1 pipa diameter 2" OD, 3 sif 4 mm WT	meter			-			
3,5	Jasa Pembuatan jembatan gantung (hanging bridge) > 40 m termasuk Konstruksi tiang 7m dan pemasangan aksesoris kabel	meter			-			
3,6	Jasa Pembuatan jembatan gantung (hanging bridge) > 40 m termasuk Konstruksi tiang dobel 9m / 12m dan pemasangan aksesoris kabel	meter			-			
3,7	Instalasi Clamp Subduct	meter	60	40	20,00	50.000,00	3.000.000,00	
3,8	Makadam	meter			-			
SUB TOTAL TANAM LANGSUNG							3.000.000,00	
4	PENGADAAN DAN INSTALASI HANDHOLE / PULLINGBOX							
4,1	Pengadaan HH type lurus uk. 90 x 100 x 120 cm tutup 1 (for Backbone)	set						

No.	Description / Item Description	Unit	BOQ Plan/PO		BOQ Actual Qty	Difference Qty	VENDOR NAME	Remarks
			Plan Qty	PO Qty				
4.2	Pengadaan HH type lurus uk. 80 x 80 x 120 cm tutup 1. (for Access)	set						
4.3	Jasa Penarikan Kabel Udara (serial)	meter	150	150		3.500,00	525.000,00	
4.4	Jasa Penarikan Kabel Indoor	ls	550	550		5.000,00		
4.5	Jasa Penarikan Kabel Tanem (Duct)	meter				-		
4.6	Pengedean Riser Pipe 2"	Blg				500.000,00	-	
SUB TOTAL HANDDOLE / PULLING BOX							525.000,00	
5	KELENGKAPAN GALIAN							
5.1	Penyambungan Kabel / Splicing							
5.1.1	a. Jasa Penyambungan di tengah	Core/tlk	2	2		1.000.000,00	2.000.000,00	
5.1.2	b. Jasa Terminusi OTB	Core	24	24		40.000,00	960.000,00	
5.1.3	c. Jasa Terminusi Terminal Box	Core					-	
SUB TOTAL KELENGKAPAN GALIAN							2.960.000,00	
6	UJI TERIMA & DOKUMENTASI							
6.1	Jasa Uji Terima Termasuk:	ls	1	1		1.000.000,00	1.000.000,00	
	a. Test HH (ducting & accessories)	-						
	b. Test PIT (buried)	-						
	c. Test Kabel	-						
6.2	Dokumentasi - Hardcopy ATP Binder (1 Set Asli + 3 Set Copy) Termasuk :	ls	1	1		500.000,00	500.000,00	
	a. Document ATP (refer to ATP File)	-						
	b. As Plan & As Built Drawing A3 (Format AutoCAD 2006)	-						
	c. As Plan & As Built KML A3 (Format Google Earth)	-						
	d. As Plan & As Built Allokasi Core Aktual	-						
	e. OTDR (origin file) dan End to End	-						
	f. RRD (reaktivitas pekerjaan)	-						
6.3	Softcopy ATP Binder (3pcs CD/DVD disc atau USB)	ls	1	1		500.000,00	500.000,00	
SUB TOTAL UJI TERIMA DAN DOKUMENTASI							2.000.000,00	
7	TOTAL JASA + MATERIAL						13.265.000,00	
8	DISCOUNT						-	
9	TOTAL JASA + MATERIAL SETELAH DISCOUNT						13.265.000,00	

Diajukan Oleh :
KOPERASI KARYAWAN MORATELINDO

Disetujui Oleh :
PT MORA TELEMATIKAN INDONESIA

(Abdul Yan)
IKR Supervisor

(Mohammed Arisandi)
Project Manager

(Heri Hermawan)
Engineering Manager

()
Procurement Manager

ACCEPTANCE TEST

FORM ACCEPTANCE TEST

Project : Moratelindo 2017 Inspection date :
 Segment ID : Go-Jek Lastmile : Go-Jek
 Near End test : Go-Jek Far End test : JB Lastpole Pasar Raya

ITEM	KRITERIA	ACTUAL KONDISI		KETERANGAN
Kabel Optik	Panjang Kabel Optik	300	meter	
	Jumlah core	VL	core	
	Stop Gold Kabel (kiri - kanan)	<input checked="" type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	
	Kabel Pabrikasi	<input checked="" type="checkbox"/> CSI	<input type="checkbox"/> Fujikura	<input type="checkbox"/> Embo
Subduct	<input type="checkbox"/> Mulitico	<input type="checkbox"/> Funakawa	<input type="checkbox"/> Bi	
	Warna Subduct Merah	<input checked="" type="checkbox"/> ya	<input type="checkbox"/> tidak	
	Strip Biru subduct (kiri kanan)	<input type="checkbox"/> ya	<input type="checkbox"/> tidak	
	Diameter subduct 40/34	<input type="checkbox"/> ya	<input type="checkbox"/> tidak	
Galian	Bahan subduct HDPE (Vinilon atau Union)	<input type="checkbox"/> ya	<input type="checkbox"/> tidak	
	Jenis Galian	<input type="checkbox"/> Open	<input type="checkbox"/> Boring	
	Kedalaman Galian			
	Tidak melalui saluran air	<input type="checkbox"/> ya	<input type="checkbox"/> tidak	
Tiang Crossing	Jumlah Tiang			
	Pondasi Tiang	<input type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	
	Diameter Pondasi		cm	
	Tinggi Pondasi		cm	
Closure / Joint Box	Label Tiang	<input type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	
		<input type="checkbox"/> ada		
	Jumlah		pcs	
	Merk			
	Kapasitas		core	
	Jumlah Hole /JB		line	
	Kerapihan closure	Rapi	Pcs	
		Tidak Rapi	Pcs	
	Jenis Closure			

ITEM	KRITERIA	ACTUAL KONDISI		KETERANGAN
Spare Kabel	Panjang Spare / handhole		meter	
	Rapi		slack	
	Kerapihan Spare Kabel	<input type="checkbox"/> Tidak Rapi		slack
Handhole	Jumlah Handhole		pcs	
	Jarak antar Handhole		mtr	
	Ukuran Handhole	1.2 x 0.9 x 1 m	<input type="checkbox"/> ya	<input type="checkbox"/> tidak
	Letak Handhole	Rata Tanah	<input type="checkbox"/> ya	<input type="checkbox"/> tidak
Tutup Handhole	Tutup Handhole	<input type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	
	Handhole ditutup	<input type="checkbox"/> ya	<input type="checkbox"/> tidak	
	Ukuran tutup Handhole	<input type="checkbox"/> ya	<input type="checkbox"/> tidak	
	Ukuran Lifting Handle	ø 19 mm	<input type="checkbox"/> ya	<input type="checkbox"/> tidak
Accesoris Handhole	Fixing Disk	Tersedia	Pcs	
		Tidak Tersedia	Pcs	
	Hanger Cable	Tersedia	Pcs	
		Tidak Tersedia	Pcs	
Marking Post	Jumlah Marking Post		pcs	
	Logo MTI	<input type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	
Label	Label tutup Handhole	<input type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	
	Label spare kabel HH	<input type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	
	Label Handhole	<input type="checkbox"/> ada	<input type="checkbox"/> Tidak ada	

NOTE :

Prepared by :
KOPERASI KARYAWAN MORATELINDO

Atau

Approved by :
PT. MORA TELEKOMUNIKASI INDONESIA

Achmad (Project)

2 _____

2 _____ (FOC)

3 _____ (Eng)



Print Out From OTDR

Project : Moratelindo 2017
Lastmile : Go-Jek

Inspection date :
Wavelength : 1550

FROM __OTB Go-Jek
to
FAT JB-BTQH

Note : Measurement result must be attached

Prepared by :
KOPERASI KARYAWAN MORATELINDO

1. Acni

Approved by :
PT. MORA TELEMATIKA INDONESIA

1. Achmad Chukiron (Project)

2. _____

2. _____ (FOC)

3. _____ (Eng)



Print Out From OTDR

Project : Moratelindo 2017
Lastmile : Go-Jek

Inspection date :
Wavelength : 1310

FROM __OTB Go-Jek
to
FAT JB-BTQH

Note : Measurement result must be attached

Prepared by :
KOPERASI KARYAWAN MORATELINDO
1 Atan.

Approved by :
PT. MORA TELEMATIKA INDONESIA
1 Richma chayudin Project)

2 _____ (FOC)

3 _____ (Eng)

FORM ACCEPTANCE TEST

Project : Go-Jek
 Segment ID :
 Near End test : Go-Jek

Inspection date :
 Lastmile : Go-Jek
 Far End test : FATJB - BTQH

ITEM	KRITERIA	ACTUAL KONDISI	KETERANGAN
Kabel Optik	Panjang Kabel Optik	300 meter	
	Jumlah core	12 core	
	Stip Gold Kabel	<input checked="" type="checkbox"/> ada <input type="checkbox"/> tidak ada	
	Label MTI pada kabel	<input checked="" type="checkbox"/> ada <input type="checkbox"/> tidak ada	
	Kabel Pabrikasi	<input checked="" type="checkbox"/> CSI <input type="checkbox"/> Fujikura <input type="checkbox"/> Embo <input type="checkbox"/> Multico <input type="checkbox"/> Funikawa <input type="checkbox"/> All	
Tiang MTI (Existing)	Total Jumlah Tiang	_____ Pcs	
	Tiang 7 Meter	_____ Pcs	
	Tiang 9 Meter	_____ Pcs	
Tiang MTI (New)	Total Jumlah Tiang	_____ Pcs	
	Tiang 7 Meter	_____ Pcs	
	Tiang 9 Meter	_____ Pcs	
Tiang PLN	Total Jumlah Tiang	1 Pcs	
	Tiang 7 Meter	1 Pcs	
	Tiang 9 Meter	_____ Pcs	
Kondisi Tiang (New)	Pondasi Tiang	<input type="checkbox"/> ada <input checked="" type="checkbox"/> tidak ada	
	Diameter Pondasi	_____ cm	
	Tinggi Pondasi	_____ cm	
	Label Tiang	<input type="checkbox"/> ada <input checked="" type="checkbox"/> tidak ada	
Closure / Joint Box	Jumlah	1 pcs	
	Merk		
	Kapasitas	48 core	
	Jumlah Hole /JB	_____ line	
	Kerapihan closure	Rapi 1 Pcs Tidak Rapi _____ Pcs	
	Ienis Closure	Wline	

ITEM	KRITERIA	ACTUAL KONDISI	KETERANGAN
Spare Kabel	Panjang Spare / slack	10 meter	
	Kerapihan Spare Kabel	Rapi 0% slack Tidak Rapi _____ slack	
	Jumlah Dead End	1 Pcs	
Accessories	Kerapihan Dead End	Rapi _____ Pcs Tidak Rapi _____ Pcs	
	Jumlah Suspension		
	Kerapihan Suspension	Rapi _____ Pcs Tidak Rapi _____ Pcs	
	Label / tiang	<input checked="" type="checkbox"/> ada <input type="checkbox"/> tidak ada	
	Bahan Label	<input checked="" type="checkbox"/> kaca <input type="checkbox"/> peng	
Label kabel/ tiang	Warna Label merah	<input checked="" type="checkbox"/> ya <input type="checkbox"/> tidak	
	Label 2pcs/tiang (kiri-kanan)	<input checked="" type="checkbox"/> ya <input type="checkbox"/> tidak	

NOTE :

Prepared by :
KOPERASI KARYAWAN MORATELINDO

Approved by :
PT. MORA TELEMATIKA INDONESIA

1
 Achmad {Project}

2 _____

2 _____ (FOC)

3 _____ (Eng)

**HASIL
PENGUKURAN
OTDR**



OTDR TEST RESULT CORE

LOCATION : GO-JEK - Fatmawati
DATE : 16/06/2017
OTDR TYPE : YOKOGAWA AQ1200
OTDR by : MULYADI
Segment/cluster/lastmile : GO-JEK
Panjang Gelombang : 1310 nm
Maks Loss : 0.24 db
(Panjang Fiber x 0.35)+(conector X 0.5)+(Joint X 0.1)

PTBL/09.05

PORT	CABLE			Already USED	Add Info	Pass/Fail
	LENGTH (Km)	TLOSS (dB)	Average (dB)			
1	0.77617	0.24	0.33	Bacup Link		
2	0.77617	0.24	0.33	Bacup Link		
3	0.77617	0.24	0.33	Used	JB Lastpole Sentraya	
4	0.77617	0.24	0.33	Idle		
5	0.77617	0.24	0.33	Idle		
6	0.77617	0.24	0.33	Idle		
7	0.77617	0.24	0.33	Idle		
8	0.77617	0.24	0.33	Idle		
9	0.77617	0.24	0.33	Idle		
10	0.77617	0.24	0.33	Idle		
11	0.77617	0.24	0.33	Idle		
12	0.77617	0.24	0.33	Idle		

Prepared by :

Koperasi Karyawan Moratelindo

Name: Hadi Utomo

Signatures: Project Manager Project

Date:

Approved by :

PT Mora Telematika Indonesia

Name: _____

Name: _____

Signatures: Project Manager FOC

Date:



OTDR TEST RESULT CORE

LOCATION : GO-JEK - Fatmawati
DATE : 16/06/2017
OTDR TYPE : YOKOGAWA AQ1200
OTDR by : MULYADI
Segment/cluster/las : GO-JEK
Panjang Gelombang : 1550 nm
Maks Loss : 0.10 db
(Panjang Fiber x 0.22)+(jumlah conector X 0.5)+(jumlah Joint X 0.1)



JPR/09.03

PORT	CABLE			Already USED	Add Info	Pass/Fail
	LENGTH (Km)	T.LOSS (dB)	Average (dB)			
1	0.77617	0.10	0.14	Bacup Link		
2	0.77617	0.07	0.09	Bacup Link		
3	0.77617	0.07	0.09	Used		
4	0.77617	0.06	0.08	Idle		
5	0.77617	0.06	0.08	Idle		
6	0.77617	0.06	0.08	Idle		
7	0.77617	0.06	0.08	Idle		
8	0.77617	0.06	0.08	Idle		
9	0.77617	0.06	0.08	Idle		
10	0.77617	0.06	0.08	Idle		
11	0.77617	0.06	0.08	Idle		
12	0.77617	0.07	0.09	Idle		

Prepared by :

Koperasi Karyawan Moratelindo

Name: Hadi Utomo

Signatures: Project Manager Project

Date:

Approved by :

PT Mora Telematika Indonesia

Name: Budi S.

Signatures: Project Manager Project

Date:

Name: _____

Signatures: Project Manager FOC

Date:

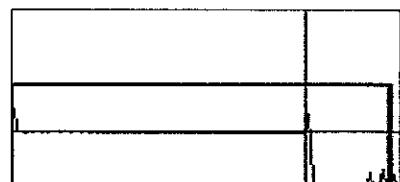
HASIL PENGUKURAN OTDR (grafik)

Trace Print

Page :1
File Name:C:\Users\Admin\Documents\GOJEK-GOJEK_0001_1310nm.SOR
Label :GOJEK

<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017

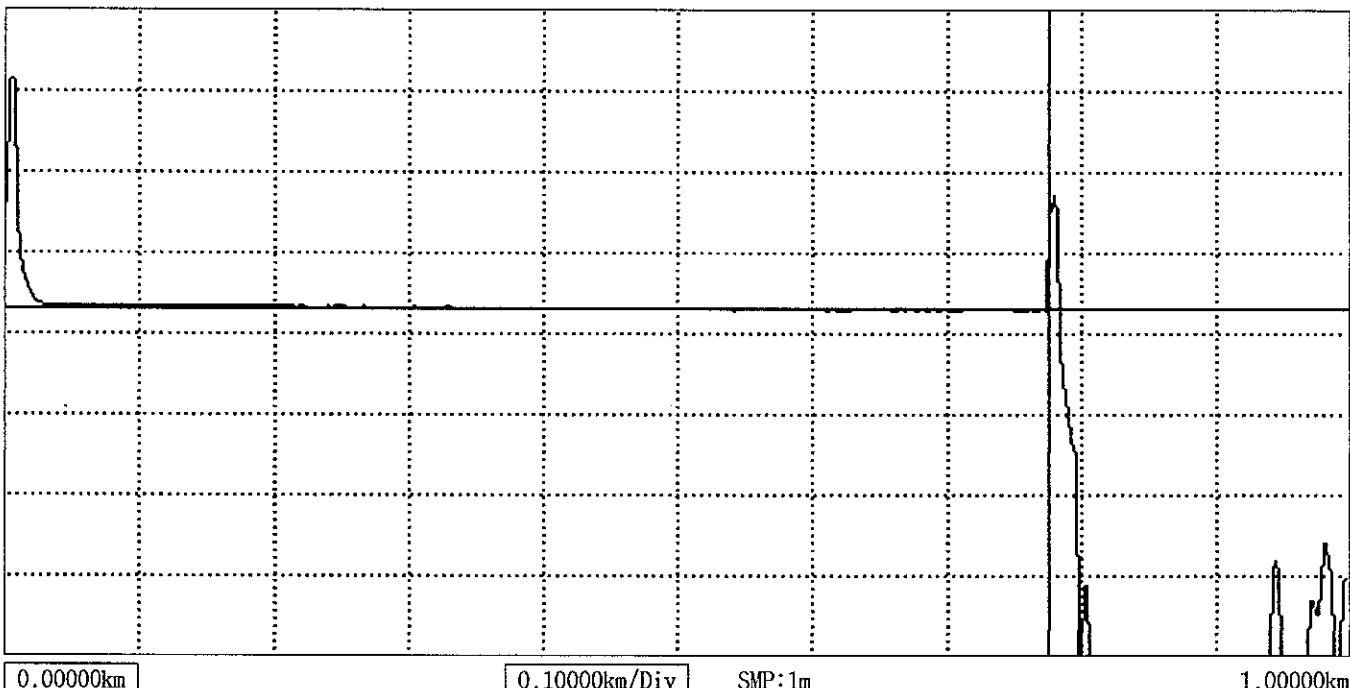


<< Trace >>

40.000 dB

5.0
dB/Div

TPA



1.00000km

SMP:1m

0.10000km/Div

0.00000km

<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	: MARKER1-2	LOSS	: MARKER2-3
DISTANCE	: ---.--- km	DISTANCE	: ---.--- km
SLOPE	: ---.--- dB/km	SLOPE	: ---.--- dB/km

<< Event List >>

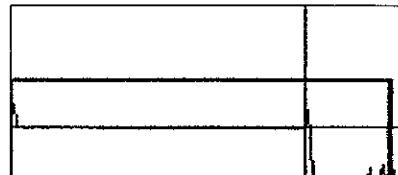
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\admin\Documents\GOJEK-GOJEK_0002_1310nm.SOR
Label :GOJEK

<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017

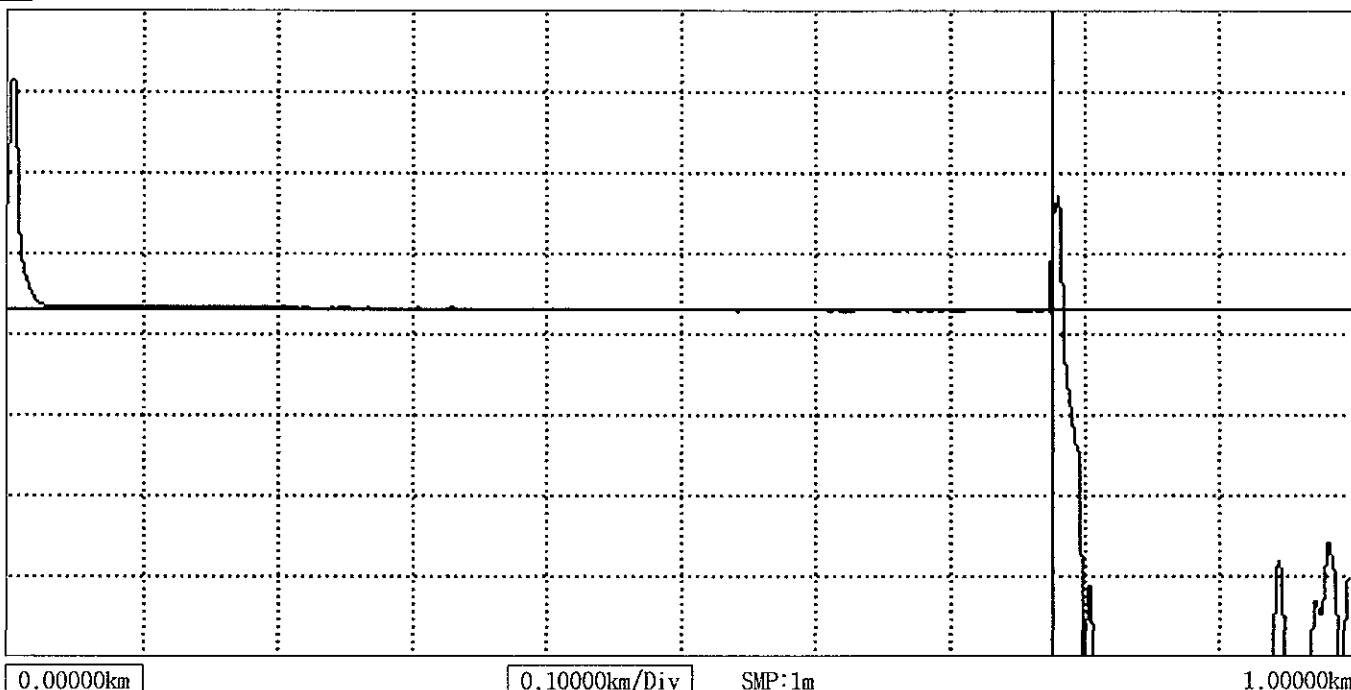


<< Trace >>

40.000 dB

5.0
dB/Div

TPA



1.00000km

SMP:1m

0.10000km/Div

0.00000km

<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- dB	
SLOPE	: ---.--- km	: ---.--- km	
	: ---.--- dB/km	: ---.--- dB/km	

<< Event List >>

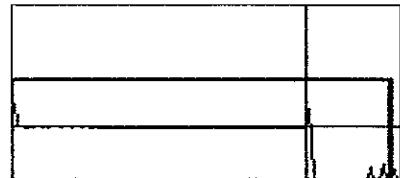
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

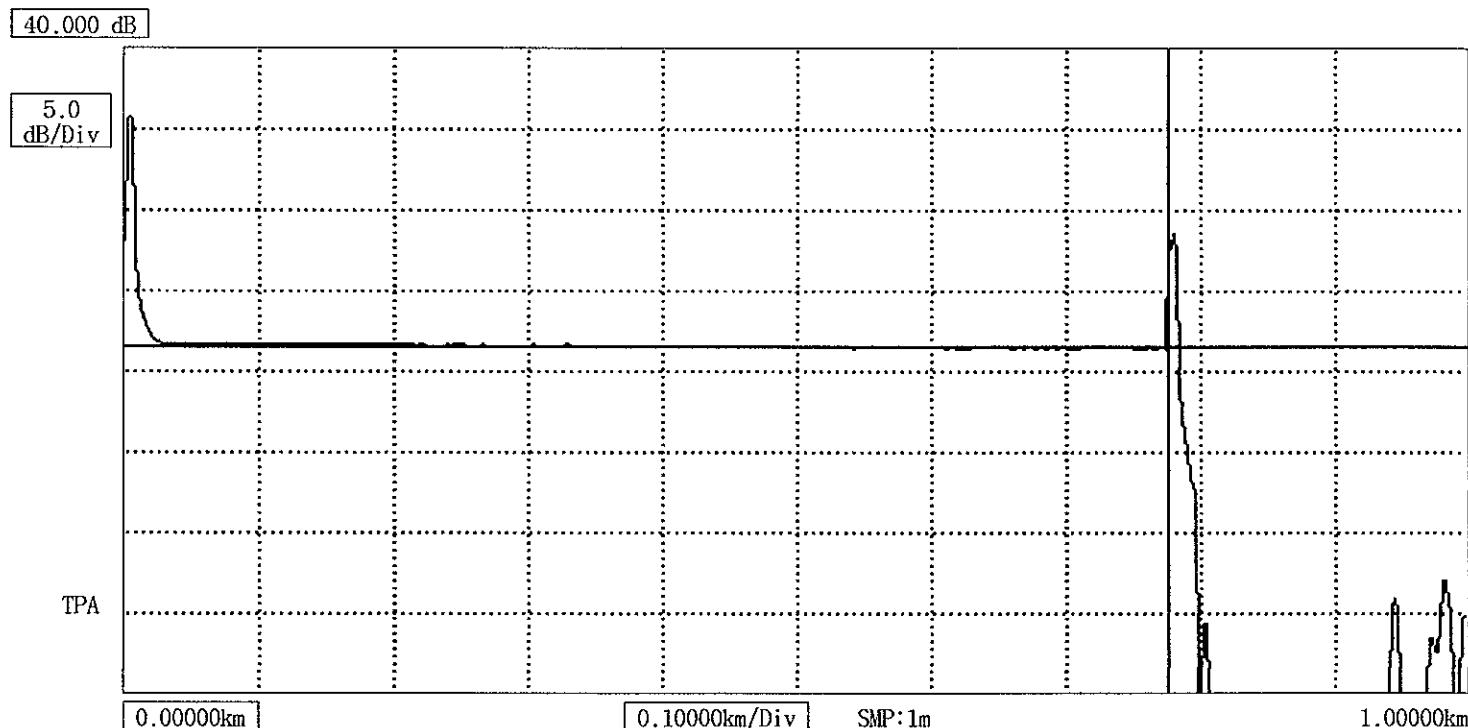
Page :1
File Name:C:\Users\admin\Documents\GOJEK-GOJEK_0003_1310nm.SOR
Label :GOJEK

<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	: MARKER1-2	LOSS	: MARKER2-3
DISTANCE	: ---.--- km	DISTANCE	: ---.--- km
SLOPE	: ---.--- dB/km	SLOPE	: ---.--- dB/km

<< Event List >>

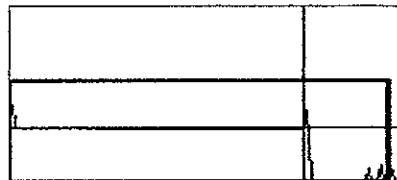
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\wadmin\Documents\GOJEK-GOJEK_0004_1310nm.SOR
Label :GOJEK

<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017

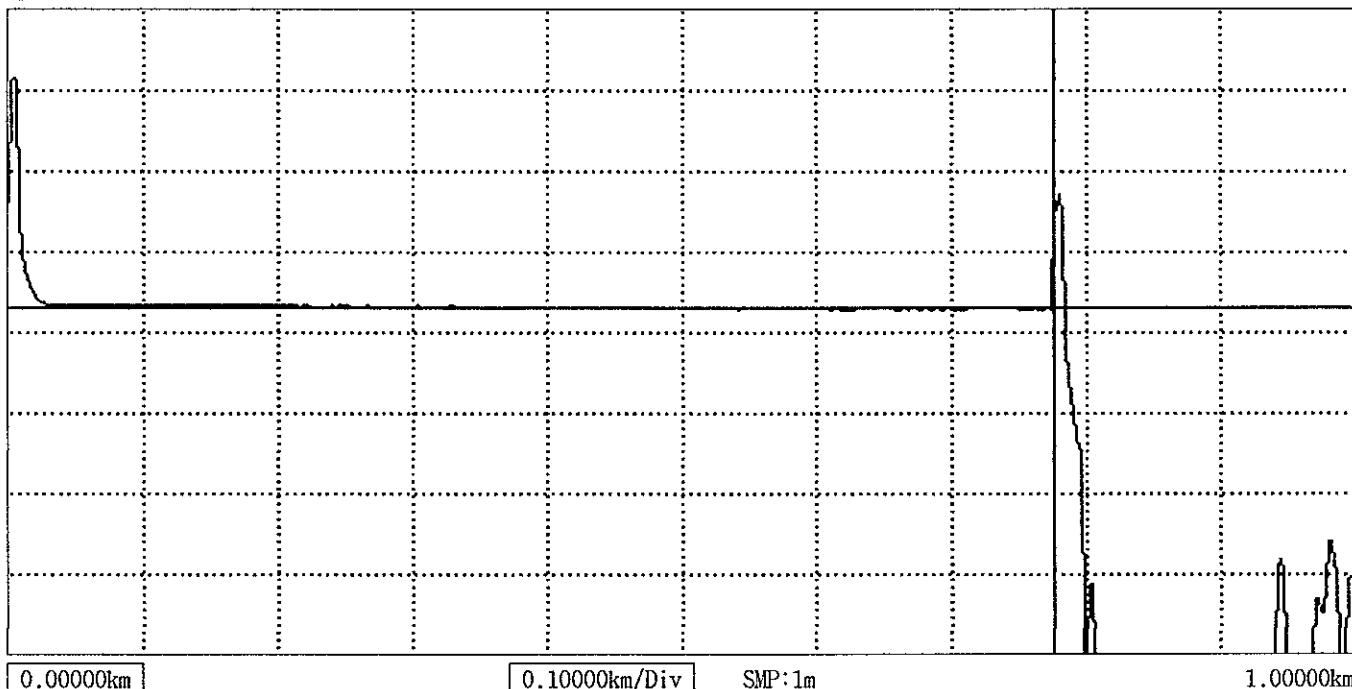


<< Trace >>

40.000 dB

5.0
dB/Div

TPA



1.00000km

<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- dB	
SLOPE	: ---.--- km	: ---.--- km	
		SLOPE	: ---.--- dB/km

<< Event List >>

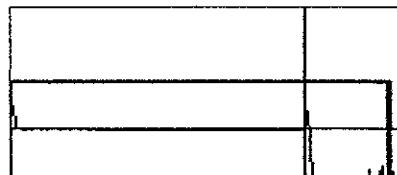
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-GOJEK_0005_1310nm.SOR
Label :GOJEK

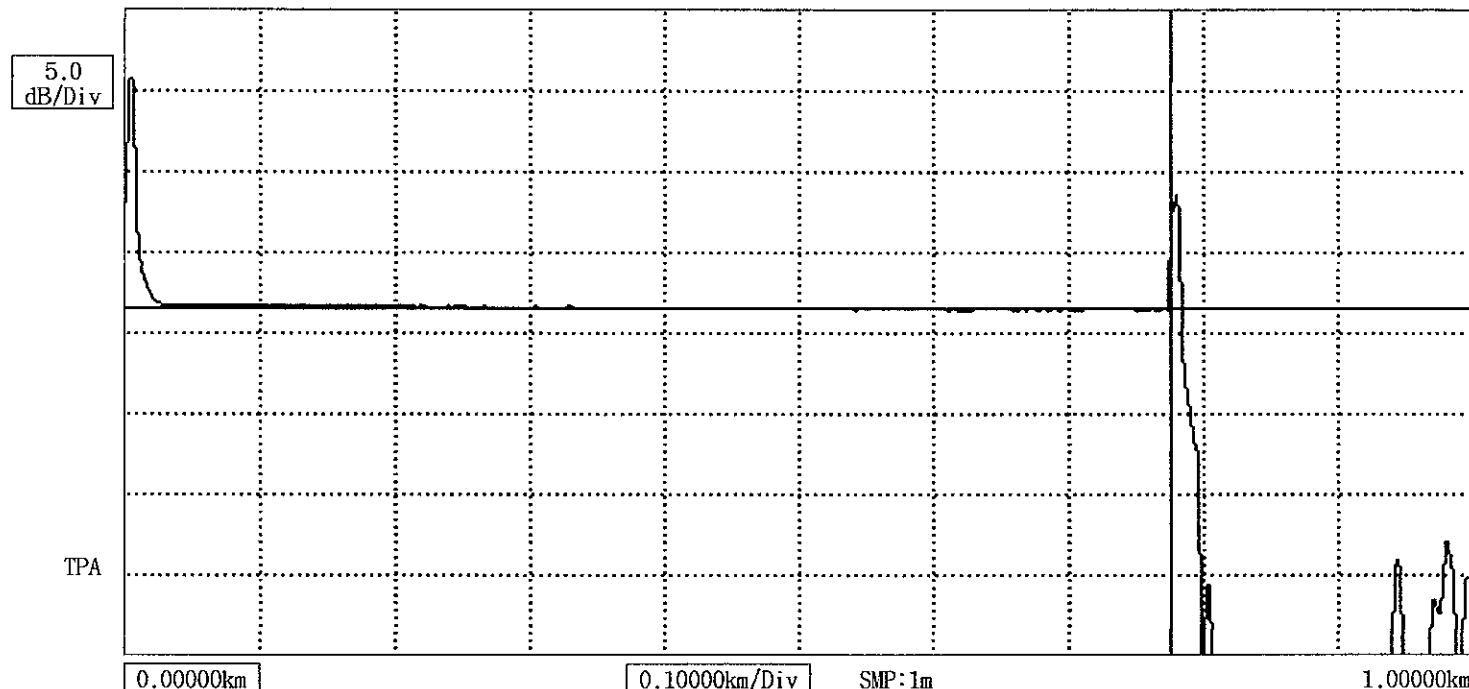
<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- dB	
SLOPE	: ---.--- km	: ---.--- km	
		SLOPE	: ---.--- dB/km

<< Event List >>

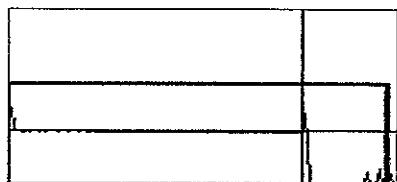
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-GOJEK_0006_1310nm.SOR
Label :GOJEK

<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017

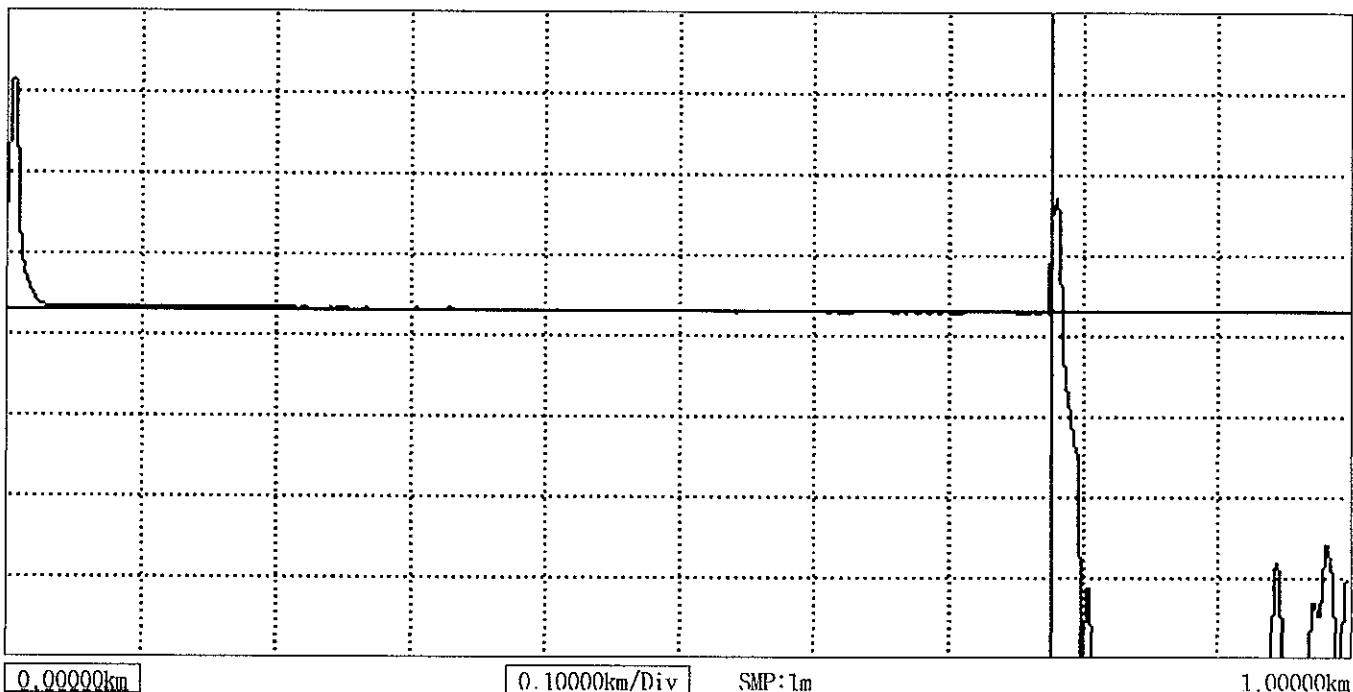


<< Trace >>

40.000 dB

5.0
dB/Div

TPA



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS : ---.--- dB MARKER1-2 DISTANCE : ---.--- km
DISTANCE : ---.--- km SLOPE : ---.--- dB/km
SLOPE : ---.--- dB/km MARKER2-3

<< Event List >>

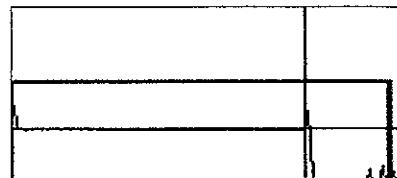
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-GOJEK_0007_1310nm.SOR
Label :GOJEK

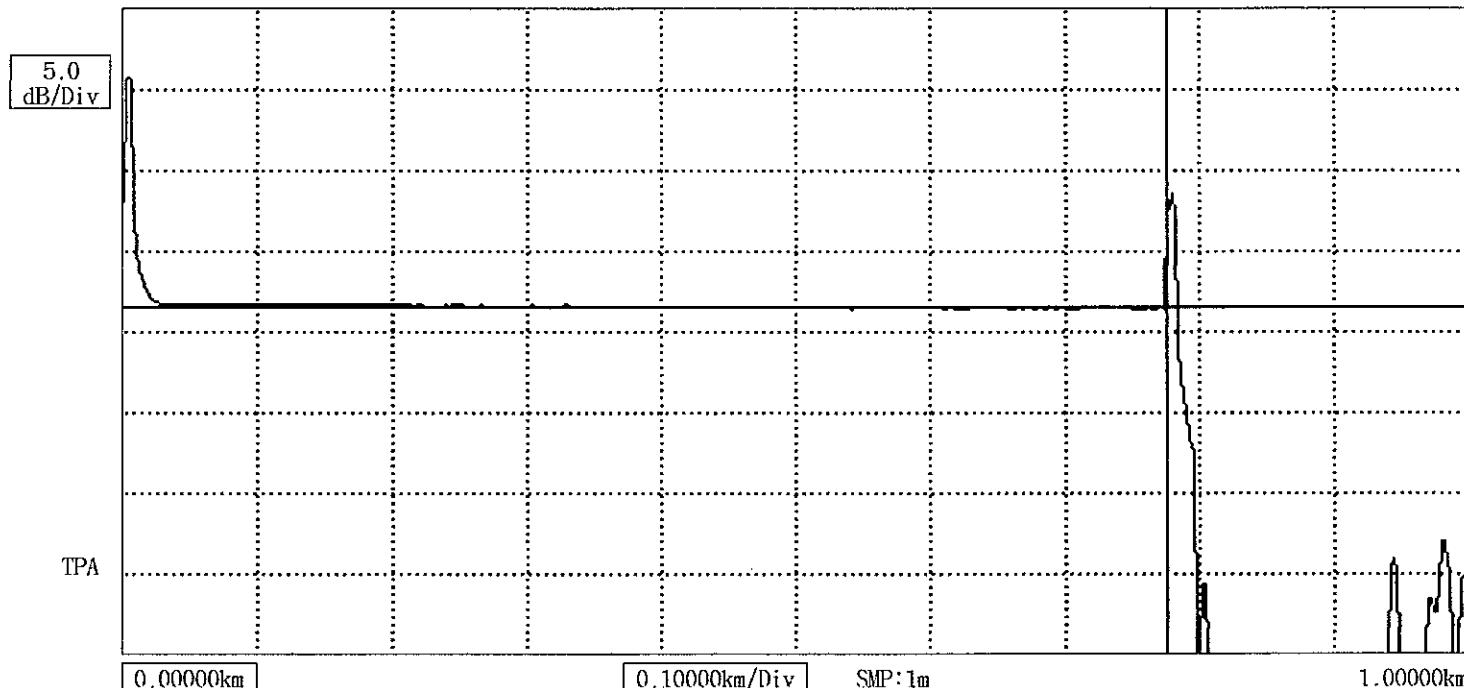
<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- km	: ---.--- dB
SLOPE	: ---.--- dB/km	DISTANCE	: ---.--- km
		SLOPE	: ---.--- dB/km

<< Event List >>

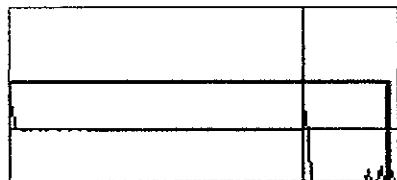
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-GOJEK_0008_1310nm.SOR
Label :GOJEK

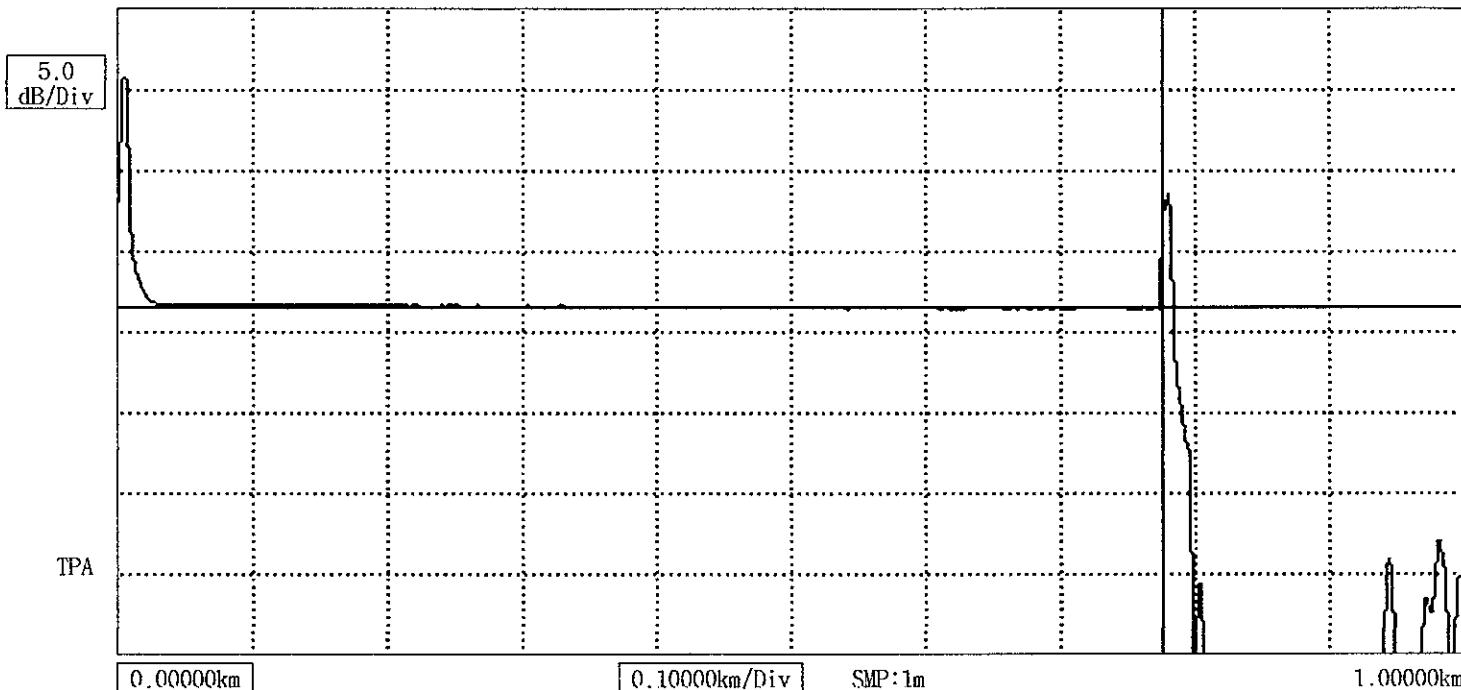
<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.:	0.77617 km	SPLICE LOSS :	---.---	dB
		RETURN LOSS :	---.---	dB
LOSS	MARKER1-2	LOSS	MARKER2-3	
DISTANCE	: ---.--- dB	: ---.--- km	: ---.--- dB	
SLOPE	: ---.--- dB/km	SLOPE	: ---.--- dB/km	

<< Event List >>

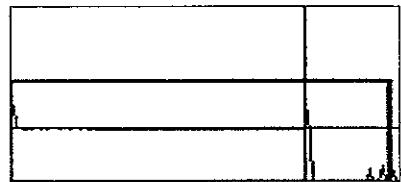
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0009_1310nm.SOR
Label :GOJEK

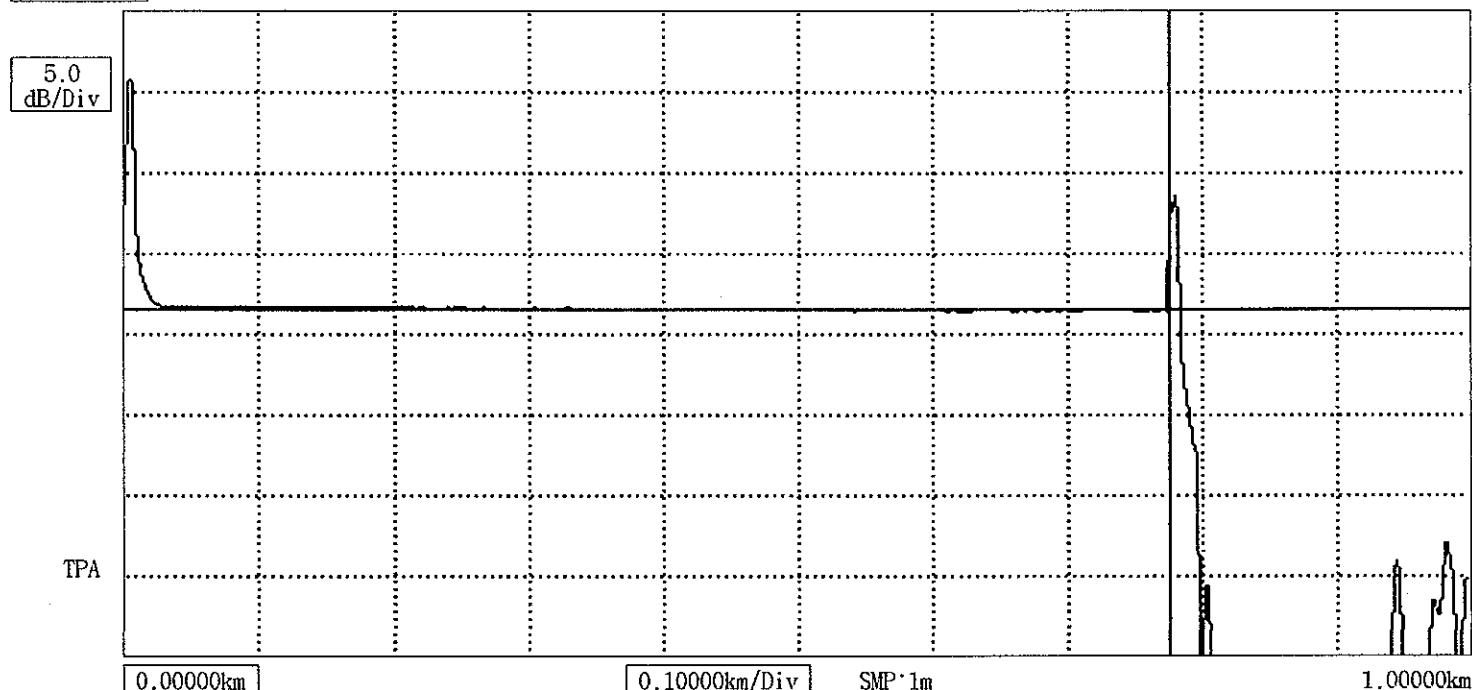
<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --.-- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- km	: ---.--- dB
SLOPE	: ---.--- dB/km	SLOPE	: ---.--- km
			: ---.--- dB/km

<< Event List >>

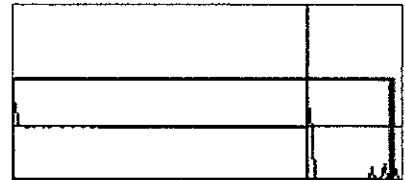
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0010_1310nm.SOR
Label :GOJEK

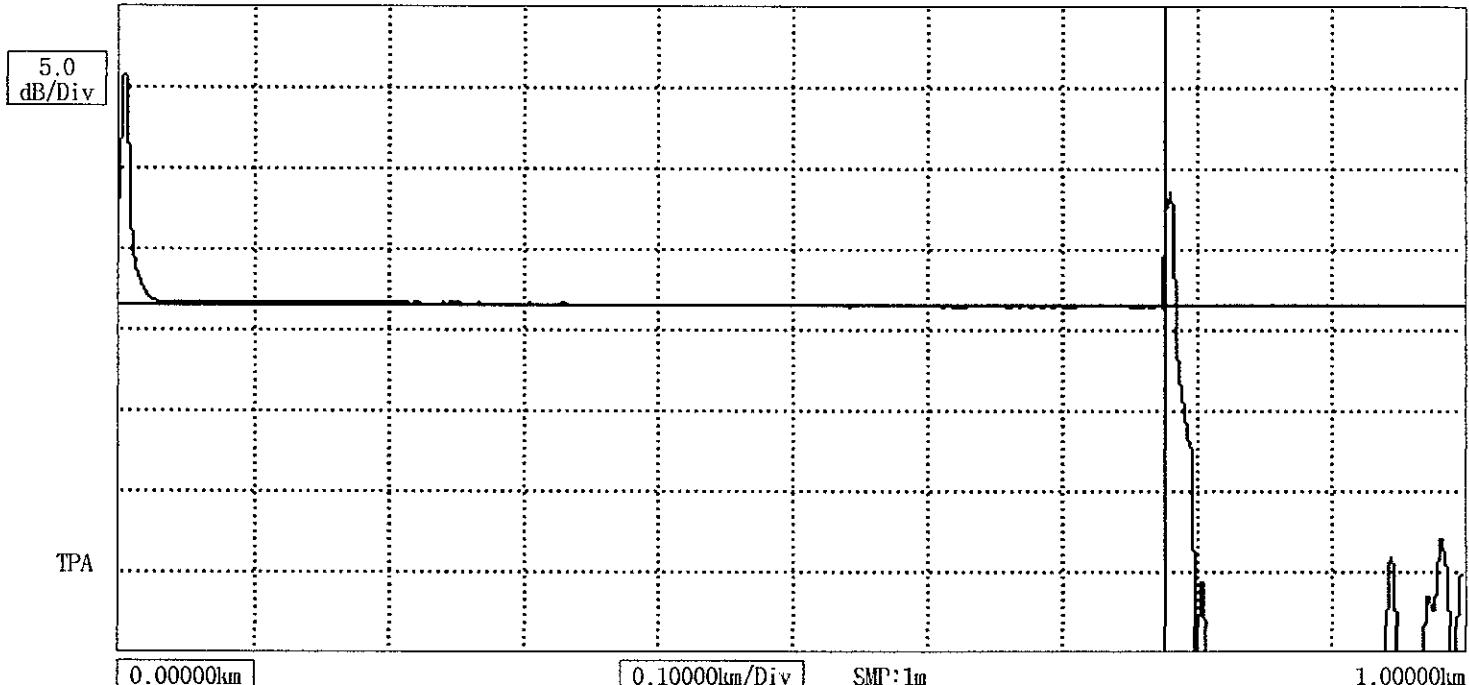
<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --.-- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	: MARKER1-2	LOSS	: MARKER2-3
DISTANCE	: ---.--- dB	DISTANCE	: ---.--- dB
SLOPE	: ---.--- km	SLOPE	: ---.--- km
	dB/km		dB/km

<< Event List >>

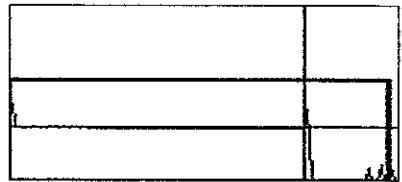
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\admin\Documents\GOJEK-WGOJEK_0011_1310nm.SOR
Label :GOJEK

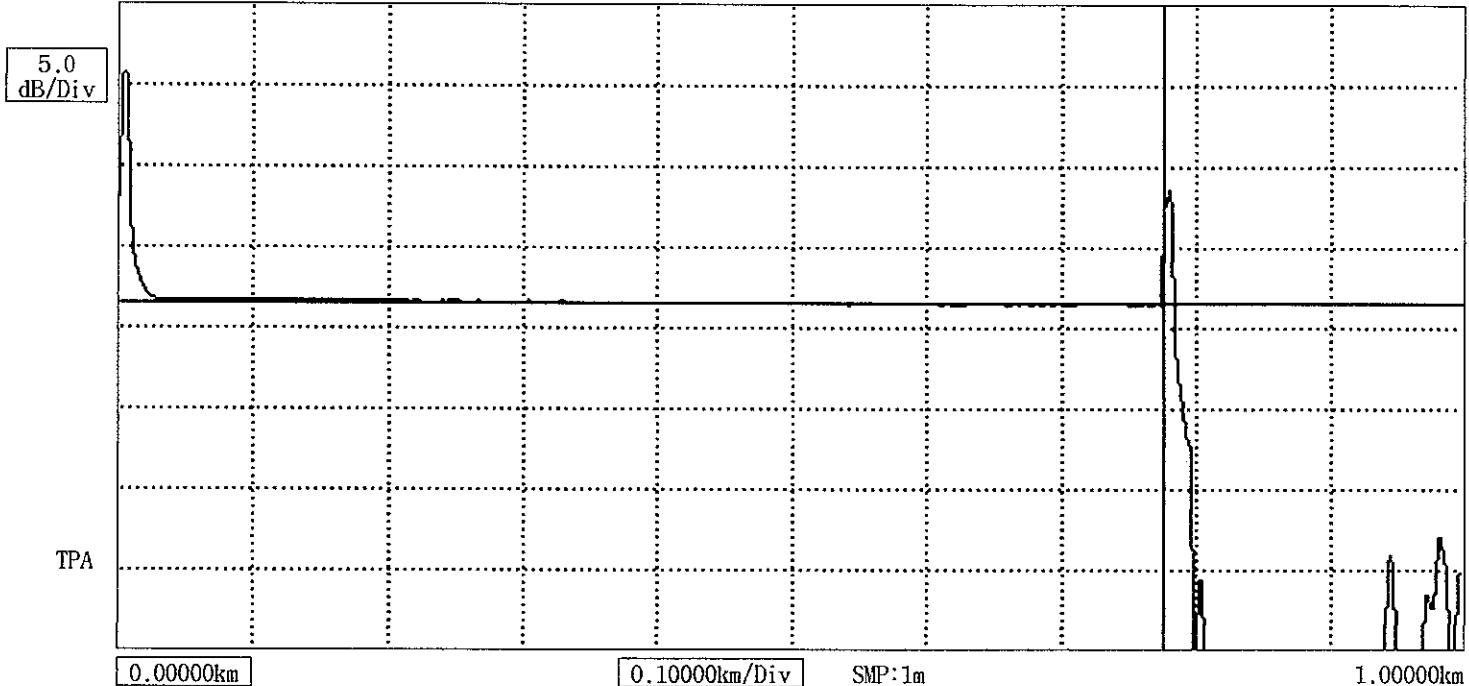
<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- dB	
SLOPE	: ---.--- dB/km	DISTANCE	: ---.--- km
		SLOPE	: ---.--- dB/km

<< Event List >>

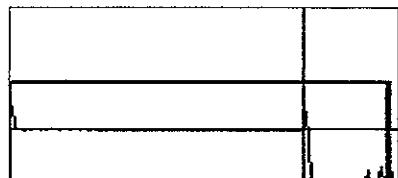
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0012_1310nm.SOR
Label :GOJEK

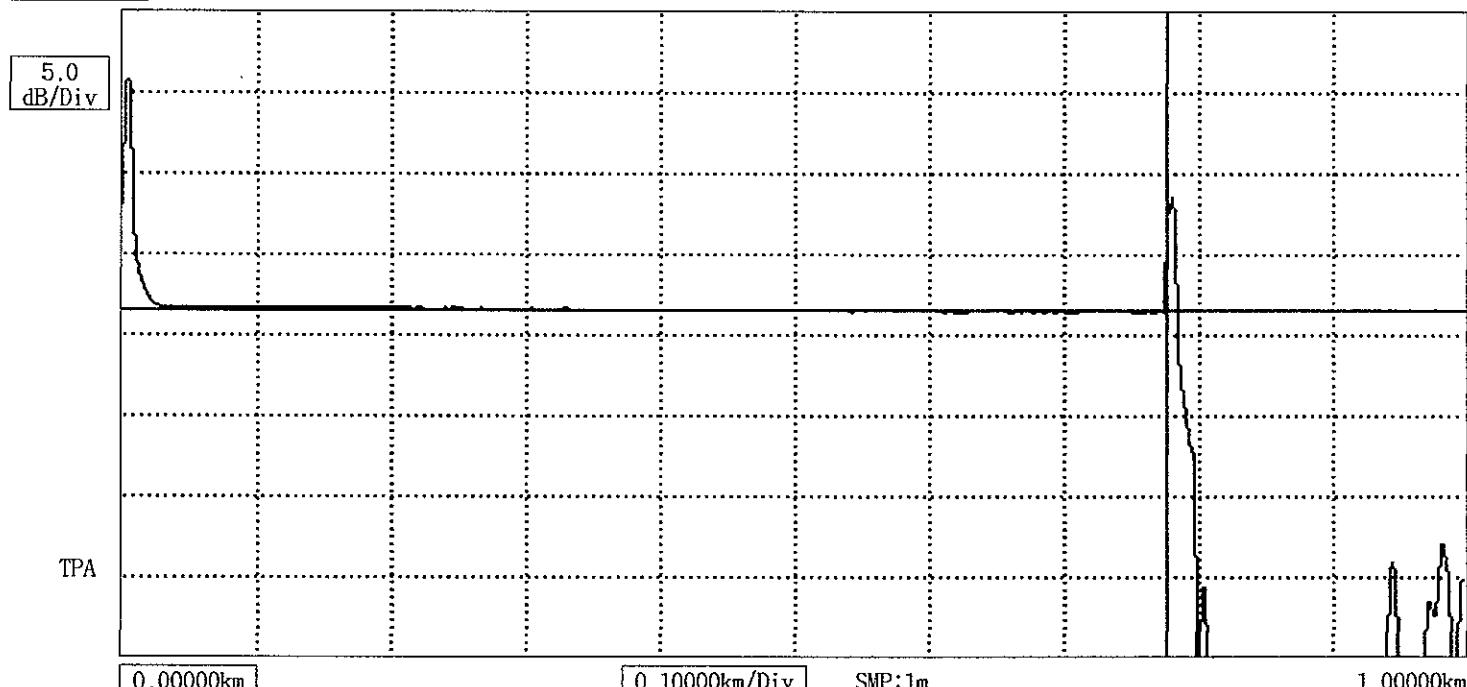
<< Measurement Condition >>

WAVELENGTH : 1310 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:39:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	: MARKER1-2	LOSS	: MARKER2-3
DISTANCE	: ---.--- dB	DISTANCE	: ---.--- dB
SLOPE	: ---.--- km	SLOPE	: ---.--- km
	dB/km		dB/km

<< Event List >>

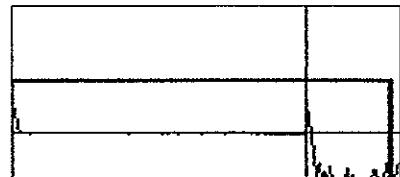
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	49.102	0.243	0.326	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0001_1550nm.SOR
Label :GOJEK

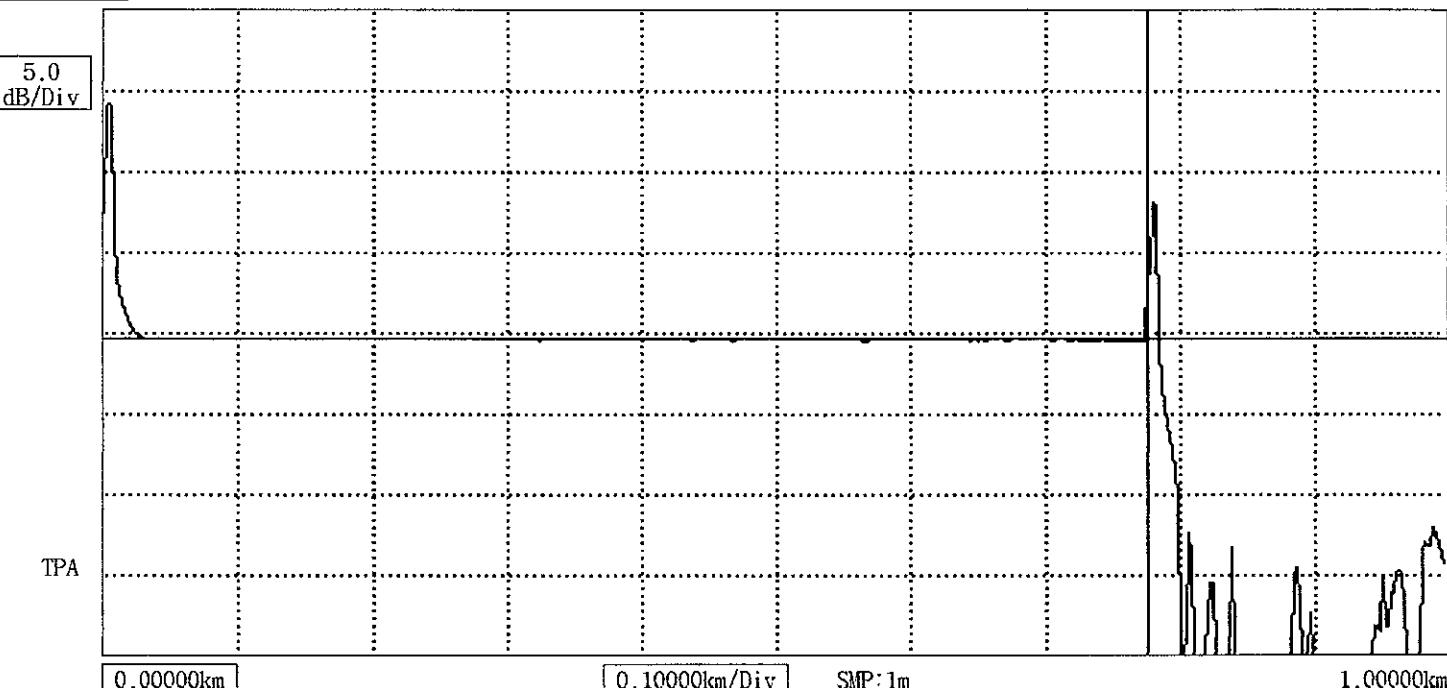
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- dB	
SLOPE	: ---.--- dB/km	: ---.--- km	SLOPE : ---.--- dB/km

<< Event List >>

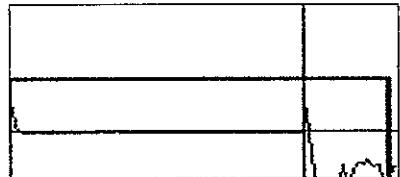
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	48.058	0.100	0.135	R	1.46000

Trace Print

Page :1
File Name:C:\Users\admin\Documents\GOJEK-WGOJEK_0002_1550nm.SOR
Label :GOJEK

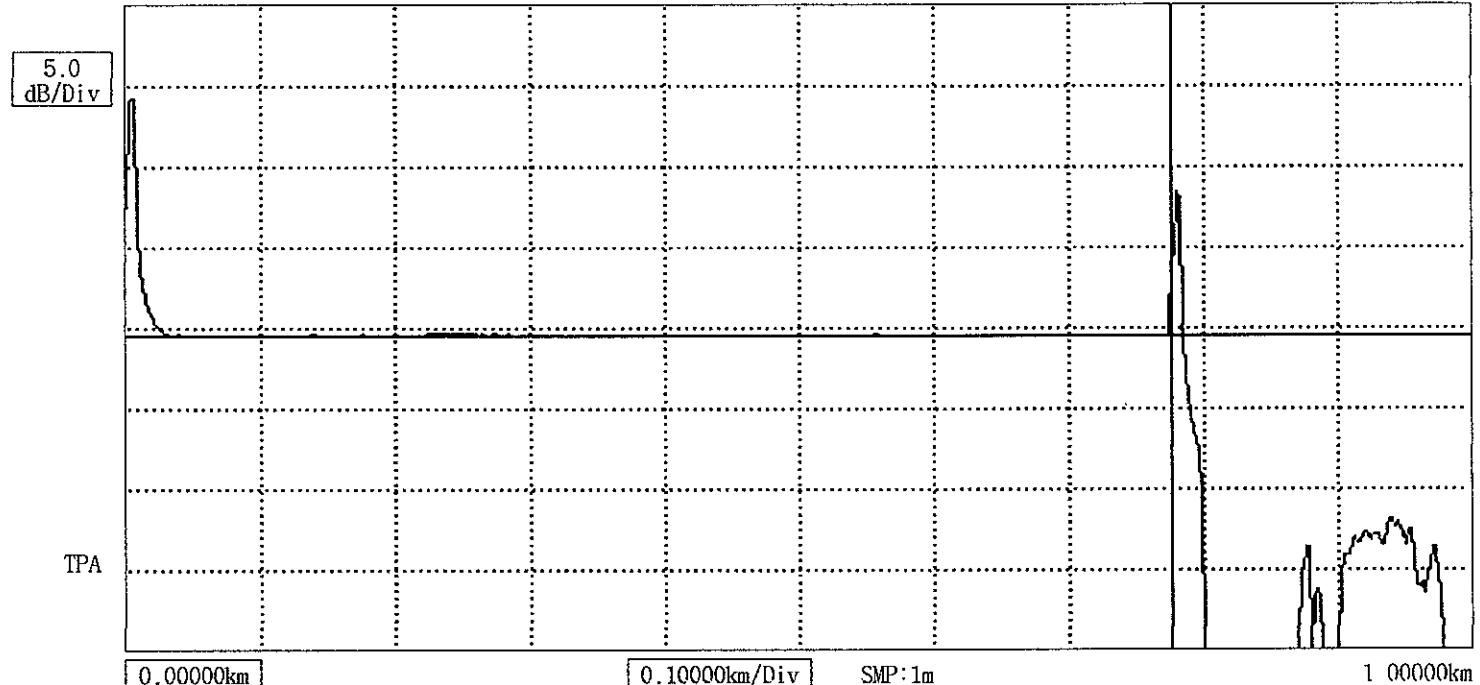
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- km	: ---.--- dB
SLOPE	: ---.--- dB/km	SLOPE	: ---.--- dB/km

<< Event List >>

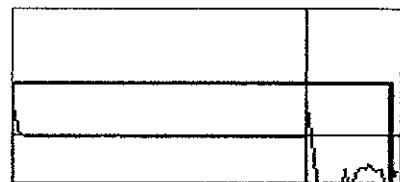
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.157	0.065	0.088	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-GOJEK_0003_1550nm.SOR
Label :GOJEK

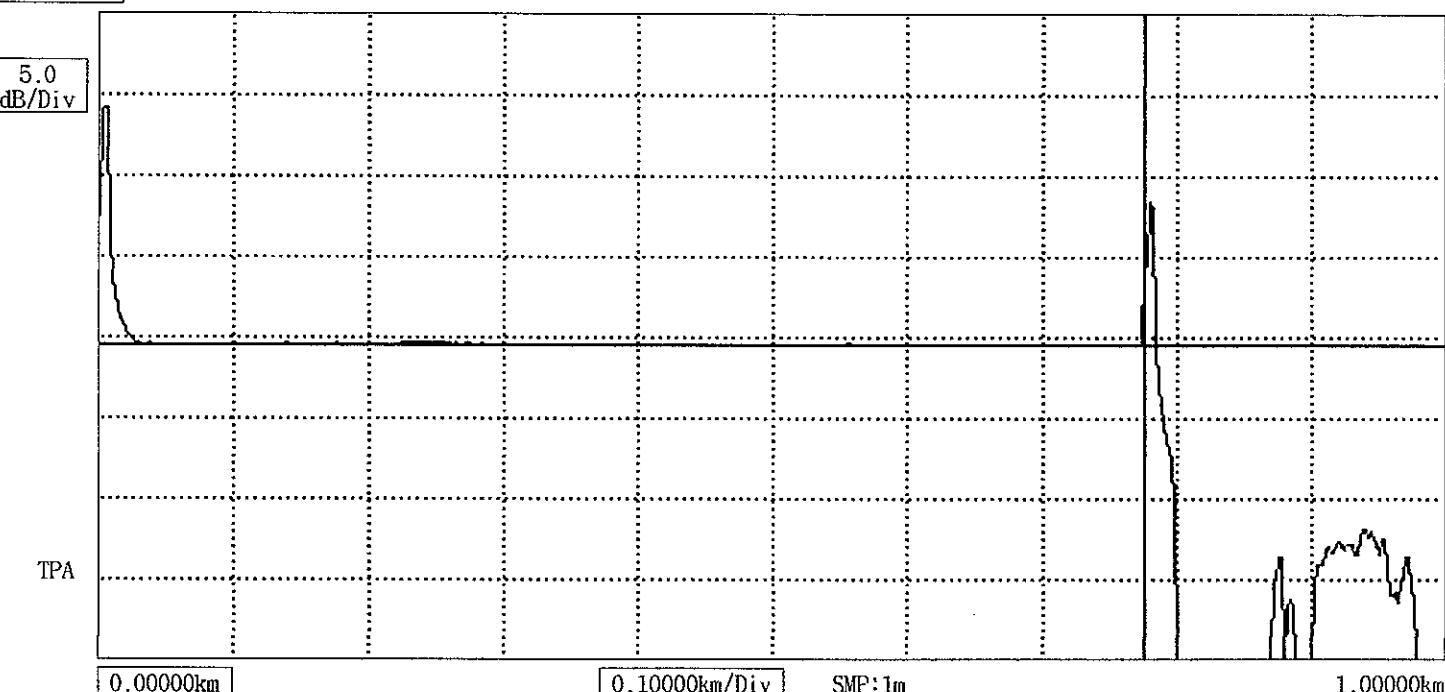
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2715
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	DISTANCE	: ---.--- dB
SLOPE	: ---.--- km	SLOPE	: ---.--- km
	dB/km		dB/km

<< Event List >>

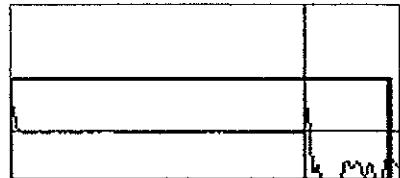
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.157	0.065	0.088	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0004_1550nm.SOR
Label :GOJEK

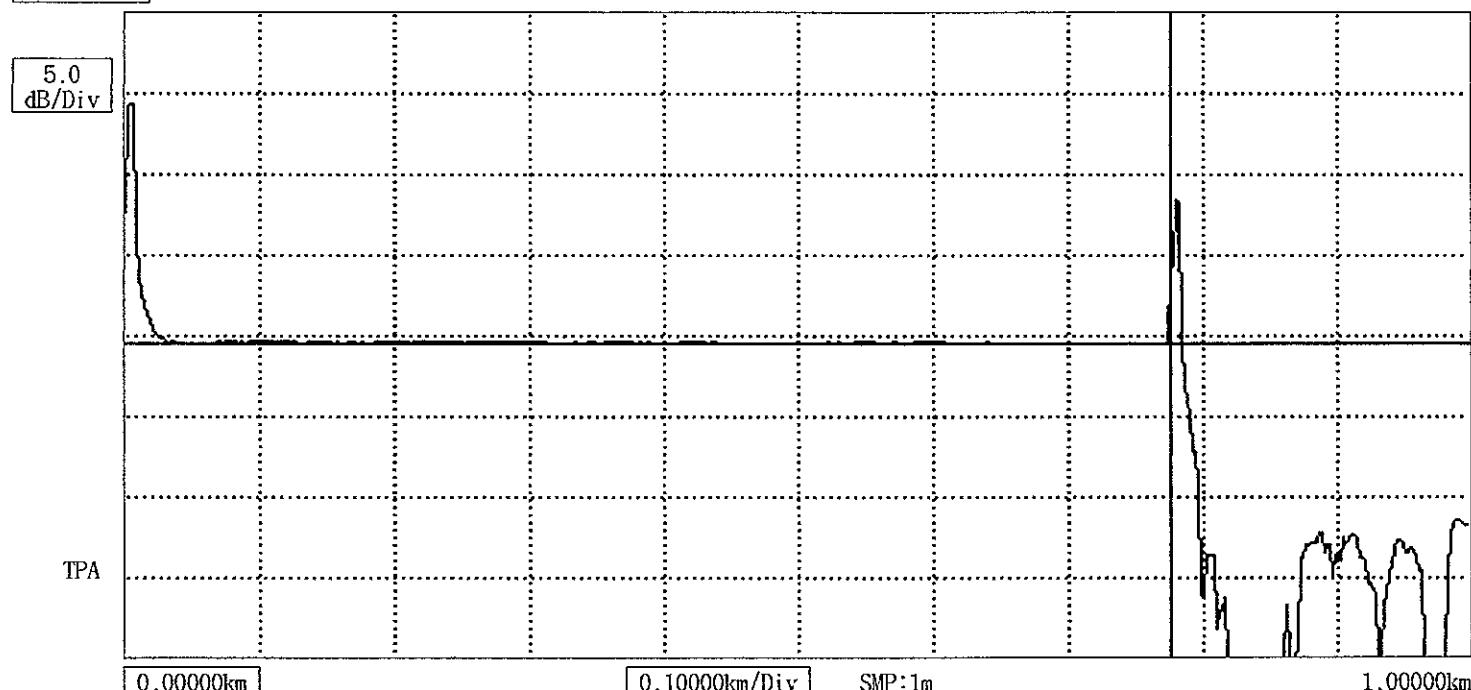
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- dB	: ---.--- dB	
SLOPE	: ---.--- dB/km	DISTANCE	: ---.--- km
		SLOPE	: ---.--- dB/km

<< Event List >>

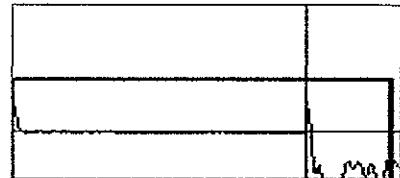
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-GOJEK_0005_1550nm.SOR
Label :GOJEK

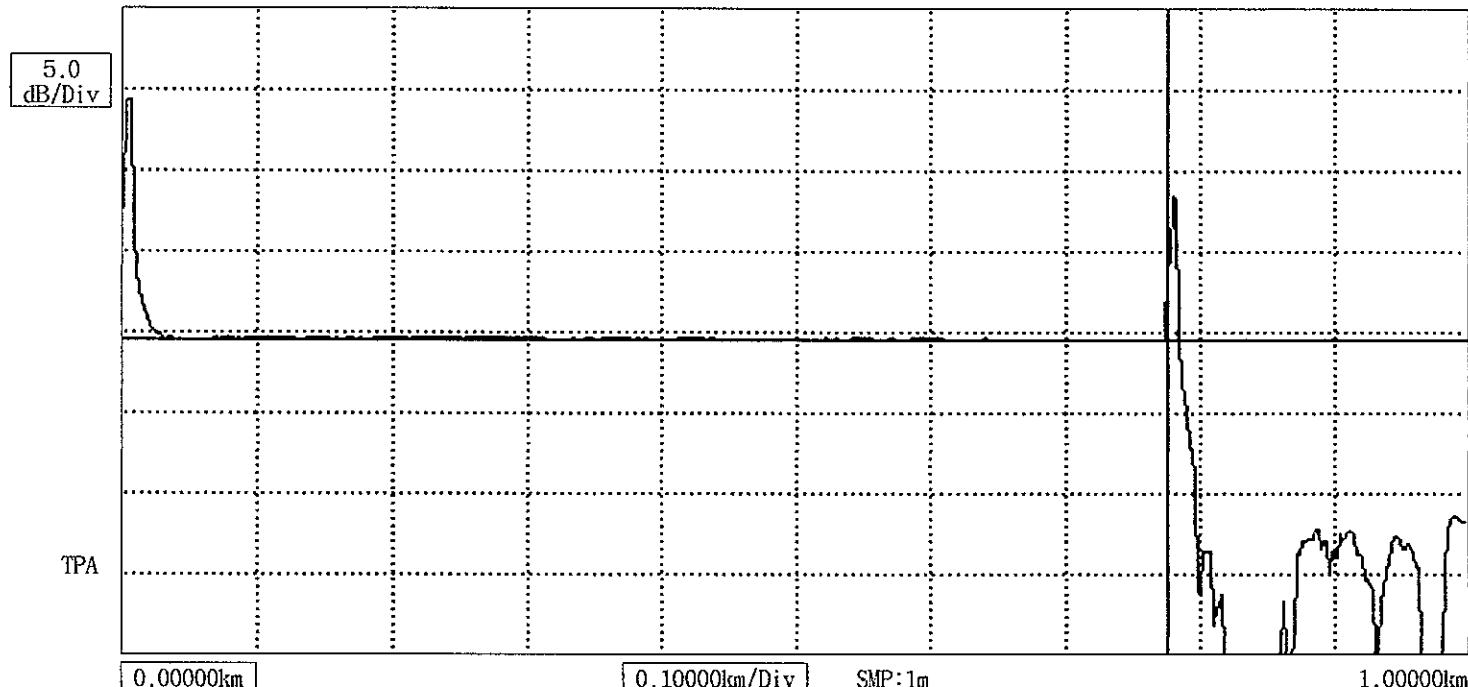
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2'15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --.-- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS : MARKER1-2 dB DISTANCE : MARKER2-3 dB
DISTANCE : ---.--- km SLOPE : ---.--- km
SLOPE : ---.--- dB/km SLOPE : ---.--- dB/km

<< Event List >>

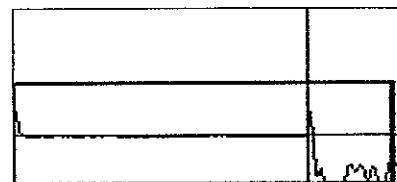
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Admin\Documents\GOJEK-WGOJEK_0006_1550nm.SOR
Label :GOJEK

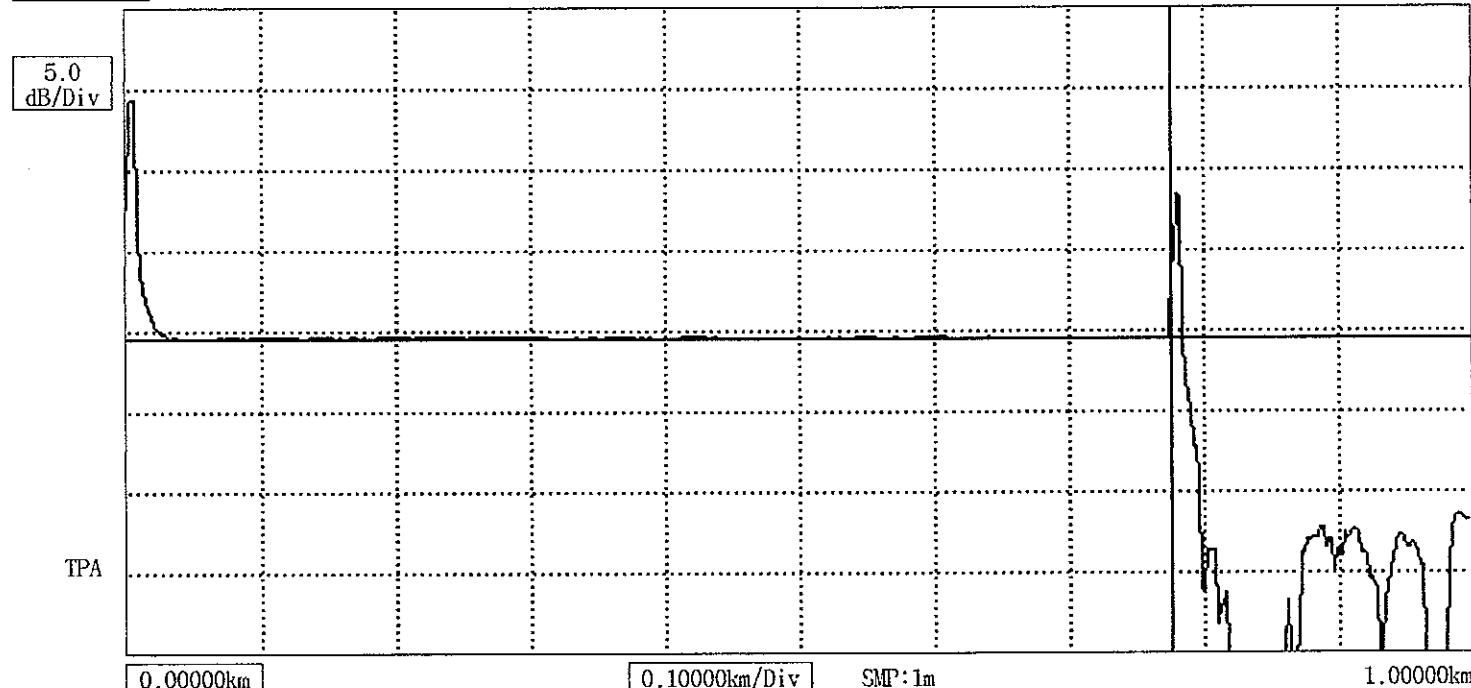
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	: ---.--- dB	MARKER1-2	LOSS	: ---.--- dB	MARKER2-3
DISTANCE	: ---.--- km		DISTANCE	: ---.--- km	
SLOPE	: ---.--- dB/km		SLOPE	: ---.--- dB/km	

<< Event List >>

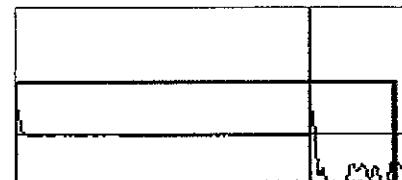
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0007_1550nm.SOR
Label :GOJEK

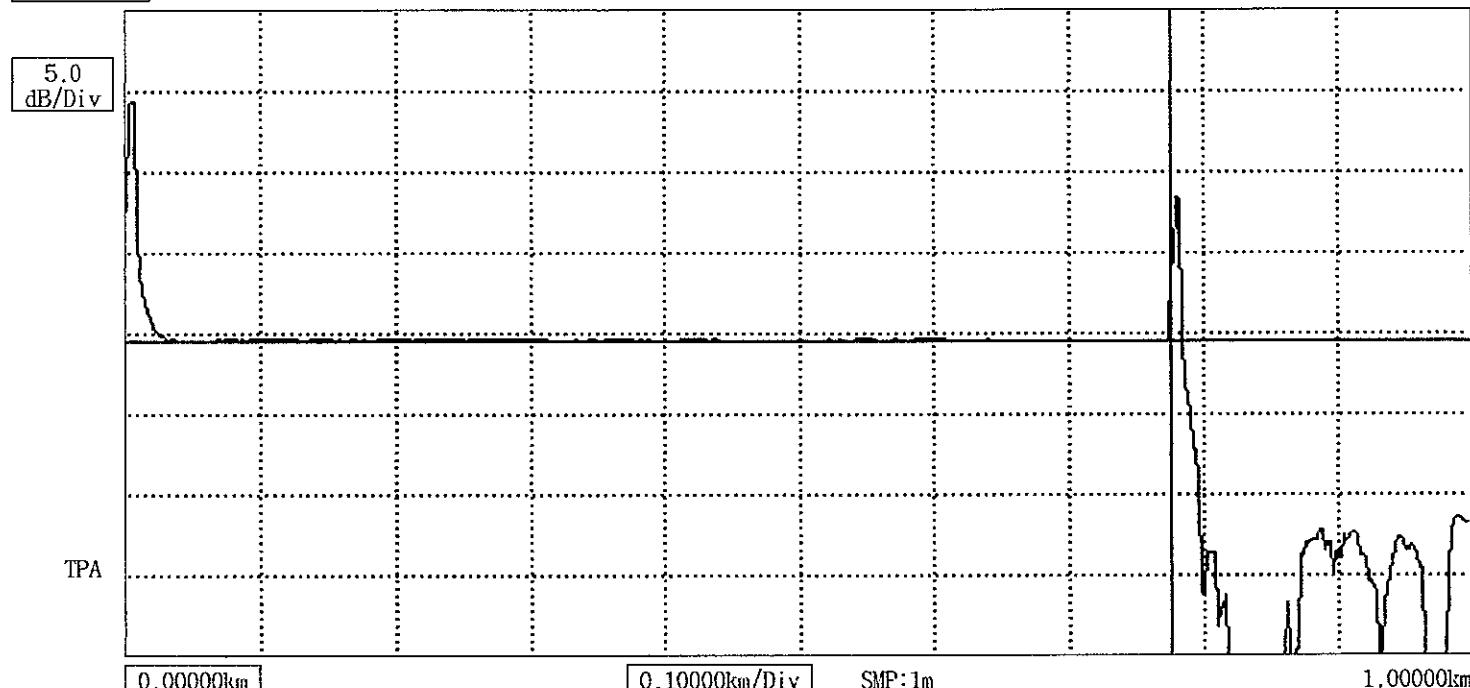
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --.-- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	: ---.---	dB	MARKER1-2	LOSS	: ---.---	dB
DISTANCE	: ---.---	km		DISTANCE	: ---.---	km
SLOPE	: ---.---	dB/km		SLOPE	: ---.---	dB/km

<< Event List >>

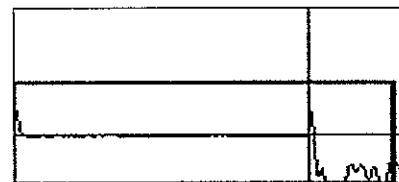
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0008_1550nm.SOR
Label :GOJEK

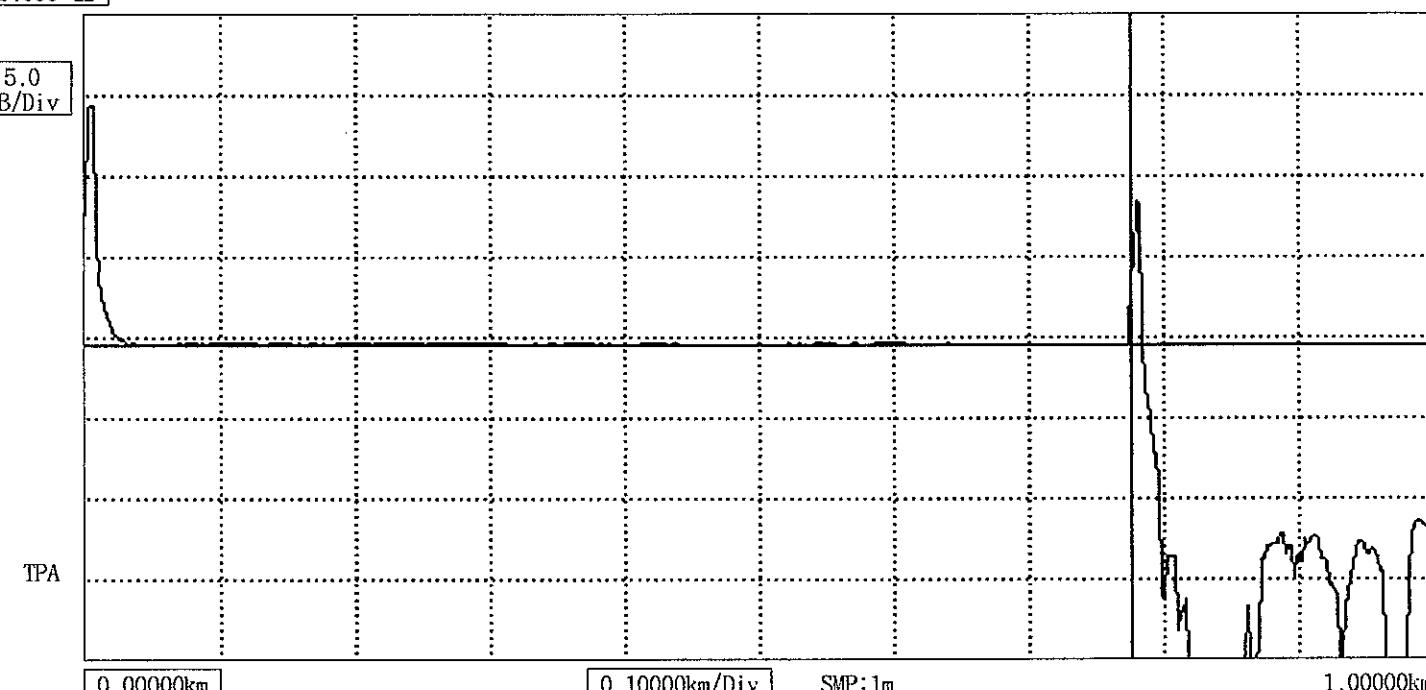
<< Measurement Condition >>

WAVELENGTH : 1550 nm IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:31:24 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.:	0.77617 km	SPLICE LOSS :	---	dB
		RETURN LOSS :	---	dB
LOSS	MARKER1-2	LOSS	MARKER2-3	
DISTANCE	: ----- dB	: ----- dB	: ----- dB	
SLOPE	: ----- km	DISTANCE	: ----- km	
	dB/km	SLOPE	: ----- dB/km	

<< Event List >>

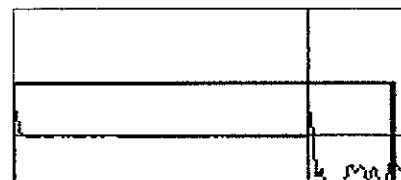
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0009_1550nm.SOR
Label :GOJEK

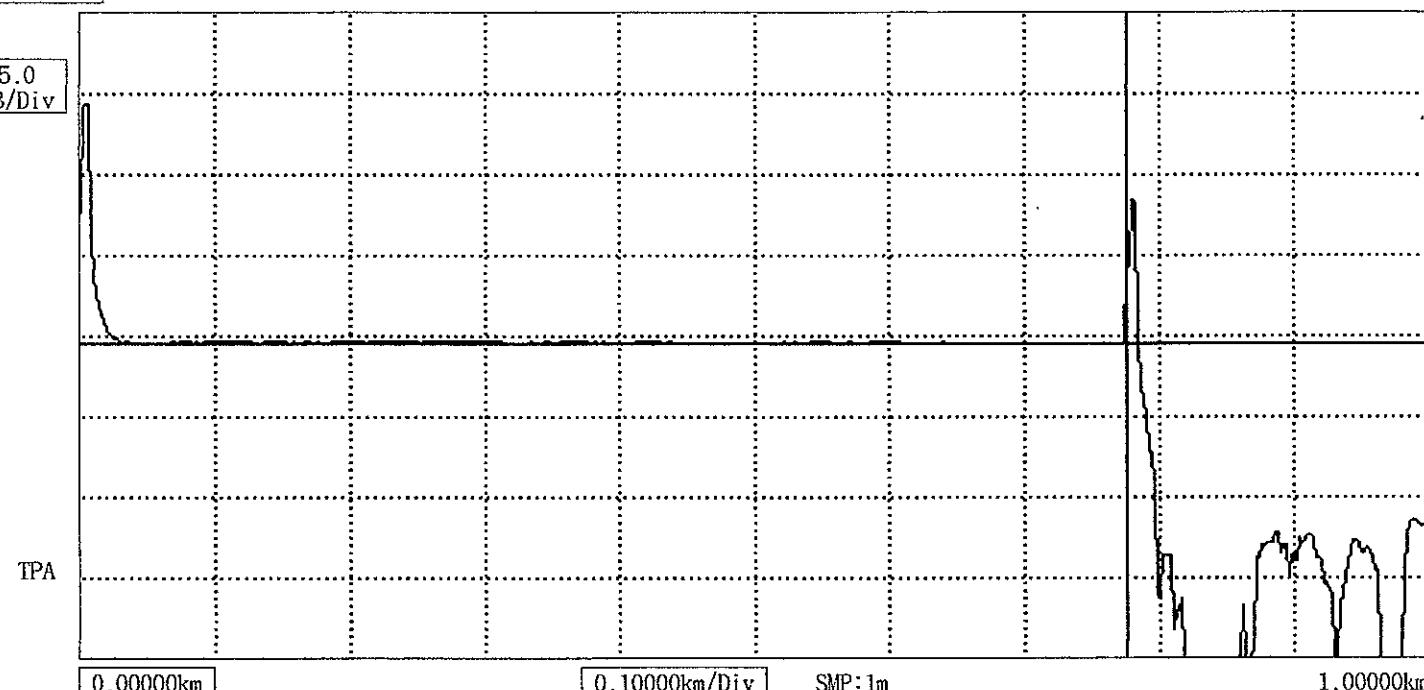
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2715
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:36:39 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : --- dB
RETURN LOSS : --- dB

LOSS	: MARKER1-2	LOSS	: MARKER2-3
DISTANCE	: --- km	DISTANCE	: --- km
SLOPE	: --- dB/km	SLOPE	: --- dB/km

<< Event List >>

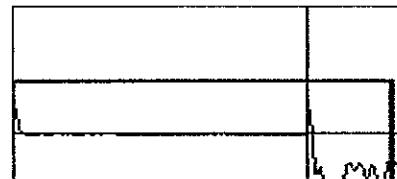
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\WGOJEK-WGOJEK_0010_1550nm.SOR
Label :GOJEK

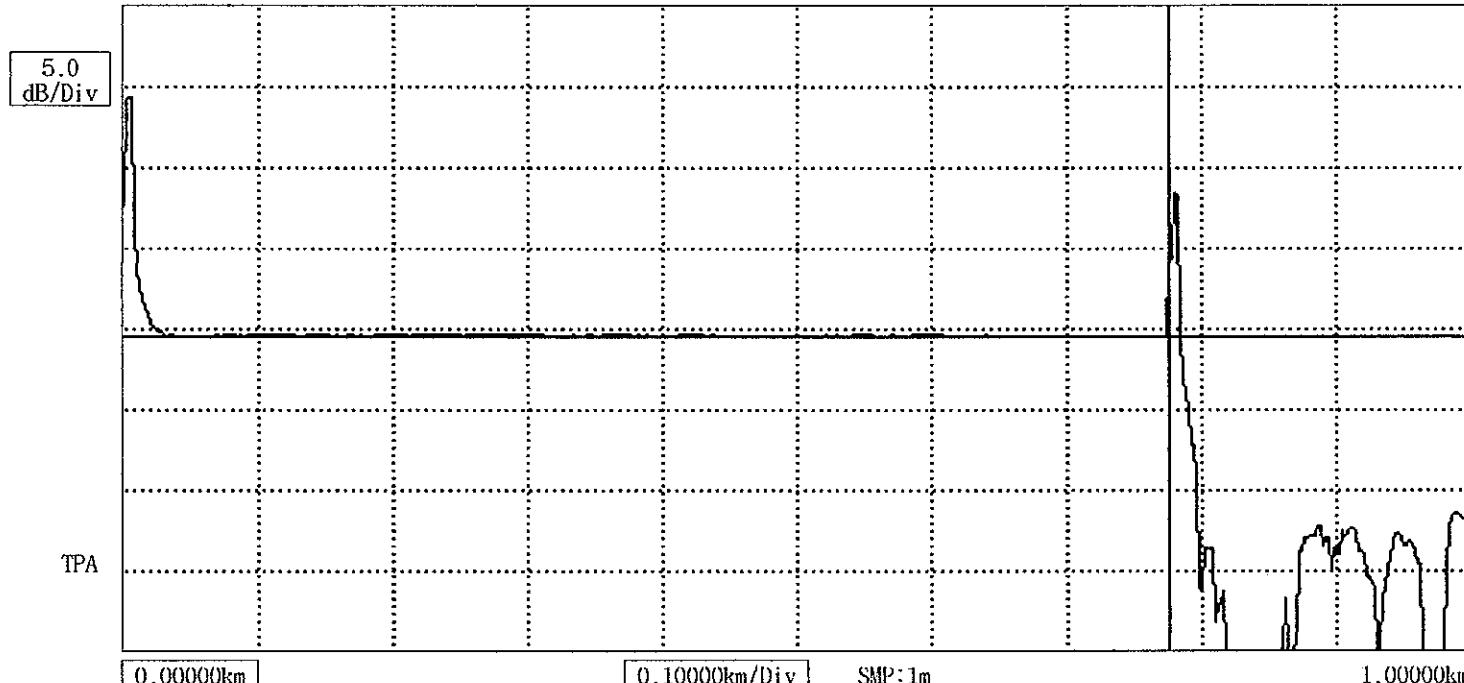
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:36:39 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist.: 0.77617 km SPLICE LOSS : ---.--- dB
RETURN LOSS : ---.--- dB

LOSS	MARKER1-2	LOSS	MARKER2-3
DISTANCE	: ---.--- km	DISTANCE	: ---.--- km
SLOPE	: ---.--- dB/km	SLOPE	: ---.--- dB/km

<< Event List >>

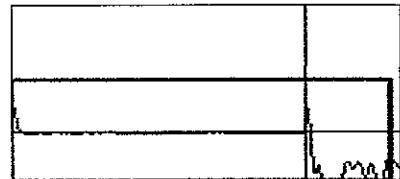
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Wadmin\Documents\GOJEK-WGOJEK_0011_1550nm.SOR
Label :GOJEK

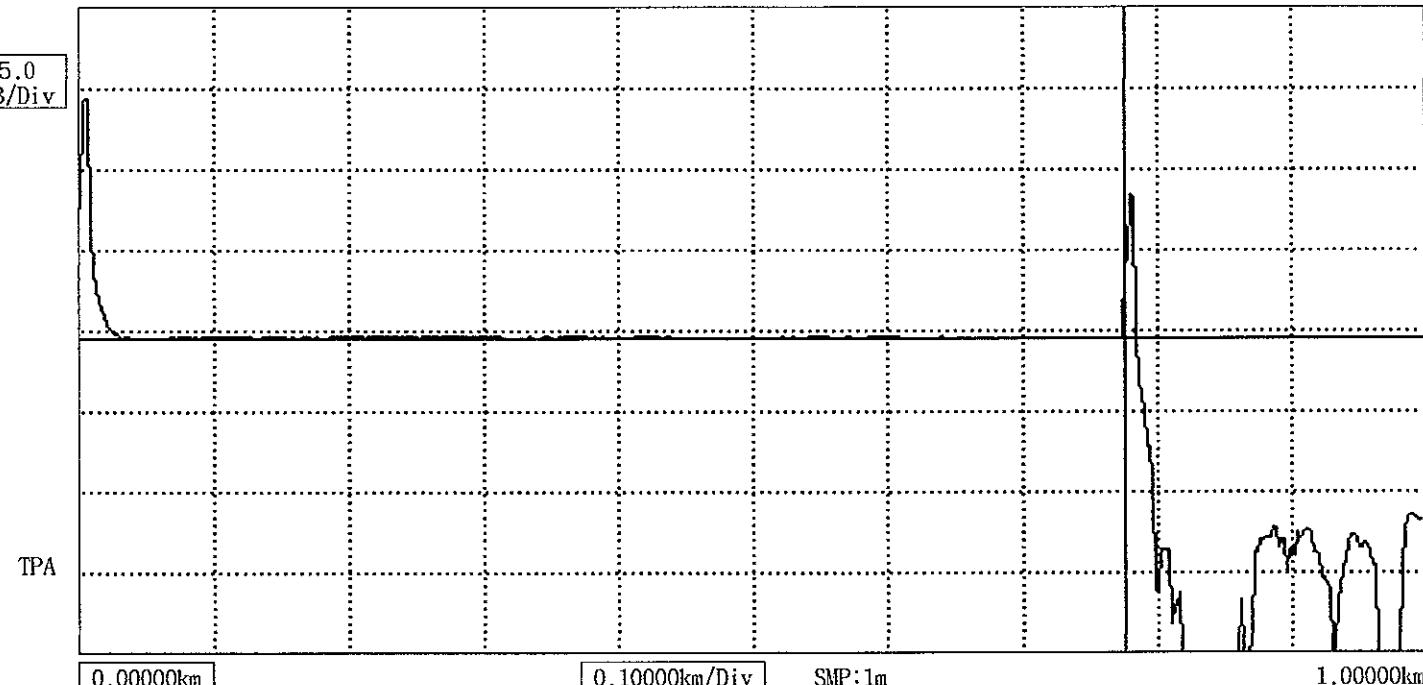
<< Measurement Condition >>

WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:36:39 2017



<< Trace >>

40.000 dB



<< Marker >>

CURSOR Dist. :	0.77617 km	SPLICE LOSS :	---	---	dB
		RETURN LOSS :	---	---	dB
		MARKER1-2			
LOSS	: ----- dB	LOSS	: ----- dB	MARKER2-3	
DISTANCE	: ----- km	DISTANCE	: ----- km		
SLOPE	: ----- dB/km	SLOPE	: ----- dB/km		

<< Event List >>

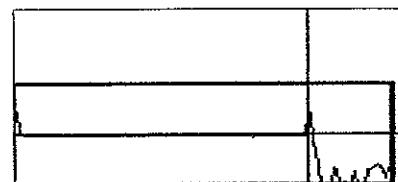
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	47.263	0.058	0.078	R	1.46000

Trace Print

Page :1
File Name:C:\Users\Admin\Documents\GOJEK-WGOJEK_0012_1550nm.SOR
Label :GOJEK

<< Measurement Condition >>

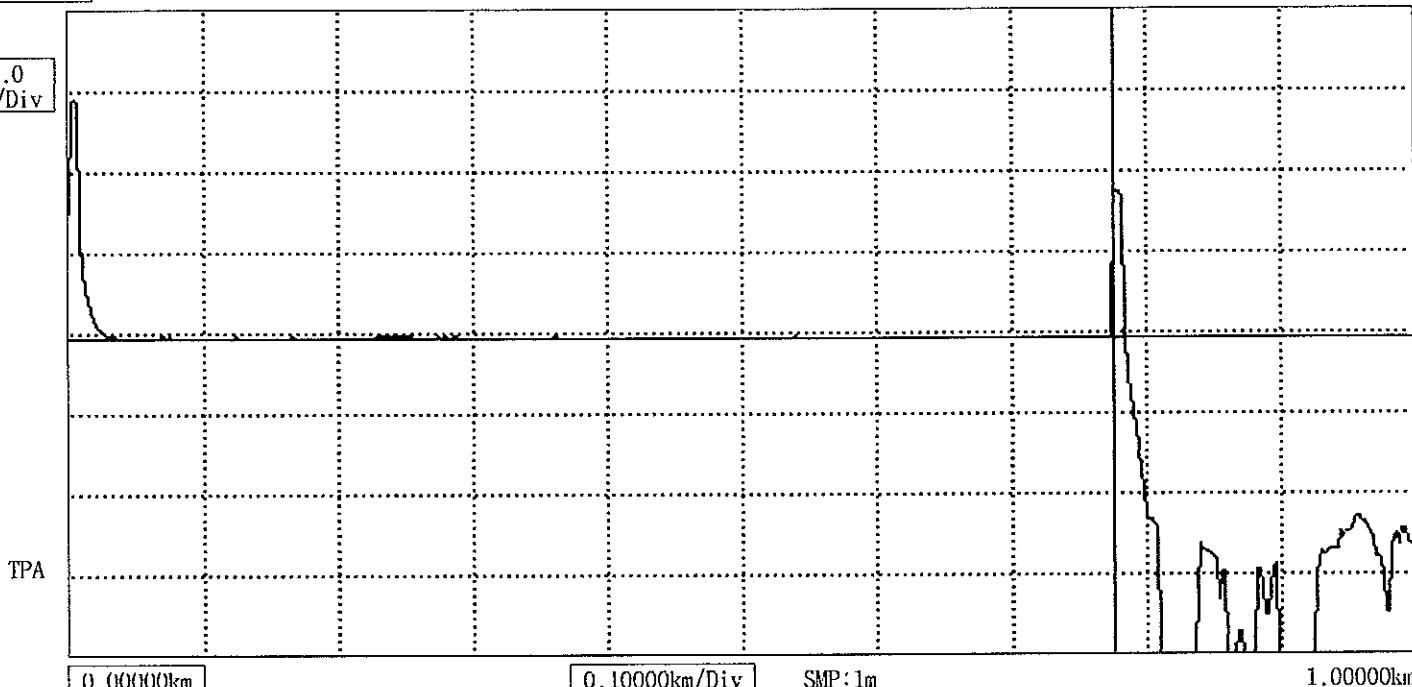
WAVELENGTH : 1550 nm SM IOR : 1.46000
PULSE WIDTH: 50 ns AVERAGE : 2^15
Dist. RANGE: 1 km DATA COUNT : 1000
ATTENUATION: --- dB Date/Time Stamp: Wed Jul 05 11:36:39 2017



<< Trace >>

40.000 dB

5.0
dB/Div



<< Marker >>

CURSOR Dist.:	0.77617 km	SPLICE LOSS :	---	---	dB
		RETURN LOSS :	---	---	dB
LOSS			MARKER1-2		
LOSS	:	---	---	dB	MARKER2-3
DISTANCE	:	---	---	km	LOSS
SLOPE	:	---	---	dB/km	DISTANCE
			SLOPE	:	---
				---	dB/km

<< Event List >>

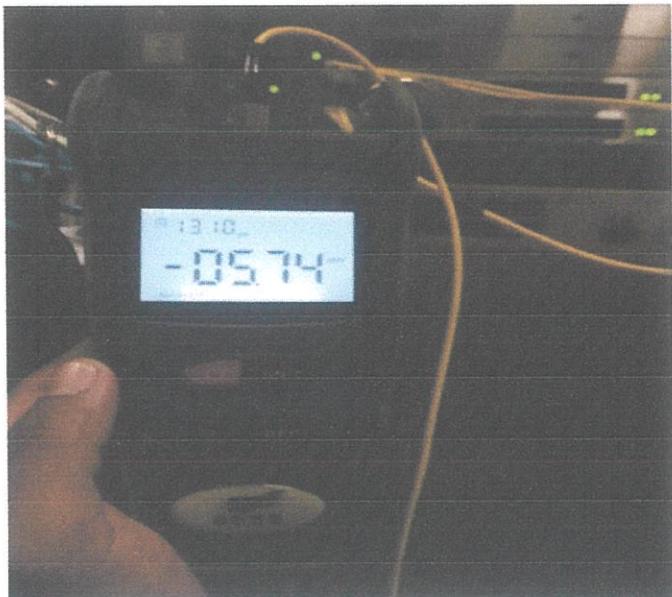
EVENT No.	DISTANCE (km)	SPLICE LOSS(dB)	RETURN LOSS(dB)	CUM LOSS (dB)	SLOPE (dB/km)	EVENT TYPE	IOR
END	0.77617	---	46.966	0.065	0.088	R	1.46000

HASIL
PENGUKURAN OPM
END TO END TEST

END TO END TEST RESULT

LOCATION A	: Fatmawati
LOCATION B	: OTB Go-Jek
DATE	: 16-06-2017
OPM TYPE	: FLIP Digital Power Meter
OLS TYPE	: FLIP Digital Power Meter
END TO END BY	: MULYADI
SECTION / CLUSTER / LASTMILE	: GO-JEK
Tx BY	: 1310
Tx KALIBRASI	: -5.74 dB

LOCATION A PORT	1310 nm			1550 nm			LOCATION B PORT
	Prx OPM	Loss (dBm)	Pass / Fail	Prx OPM	Loss (dBm)	Pass / Fail	
1	-05.74						
2	-07.10						



Signal Input SFP Fatmawati



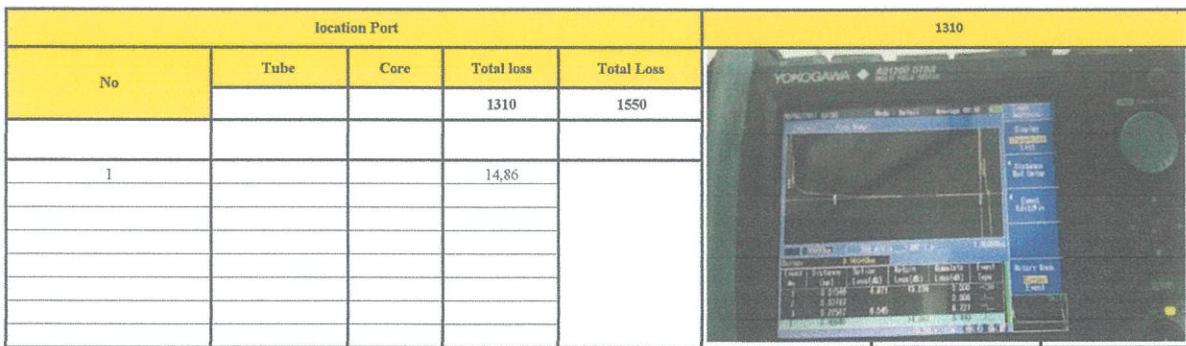
Signal Output OTB Server Room Gojek

Hasil Pengukuran End to End Test (Foto)



E TO END TEST RESULT

SEGMENT	<u>GO-JEK</u>	
LOCATION A	
LOCATION B	
DATE	
OTDR TYPE	<u>Yokogawa</u>	
End to End by	<u>Mulyadi</u>	
Cluster	
Panjang Gelombang	<u>1310</u>	nm
Kalibrasi	



Prepared by :
Koperasi Karyawan Moratelindo
Name: _____

Approved by :
PT Mora Telematika Indonesia
Name: Budi - S.

Name: _____

Signatures:

Signatures:

Signatures:

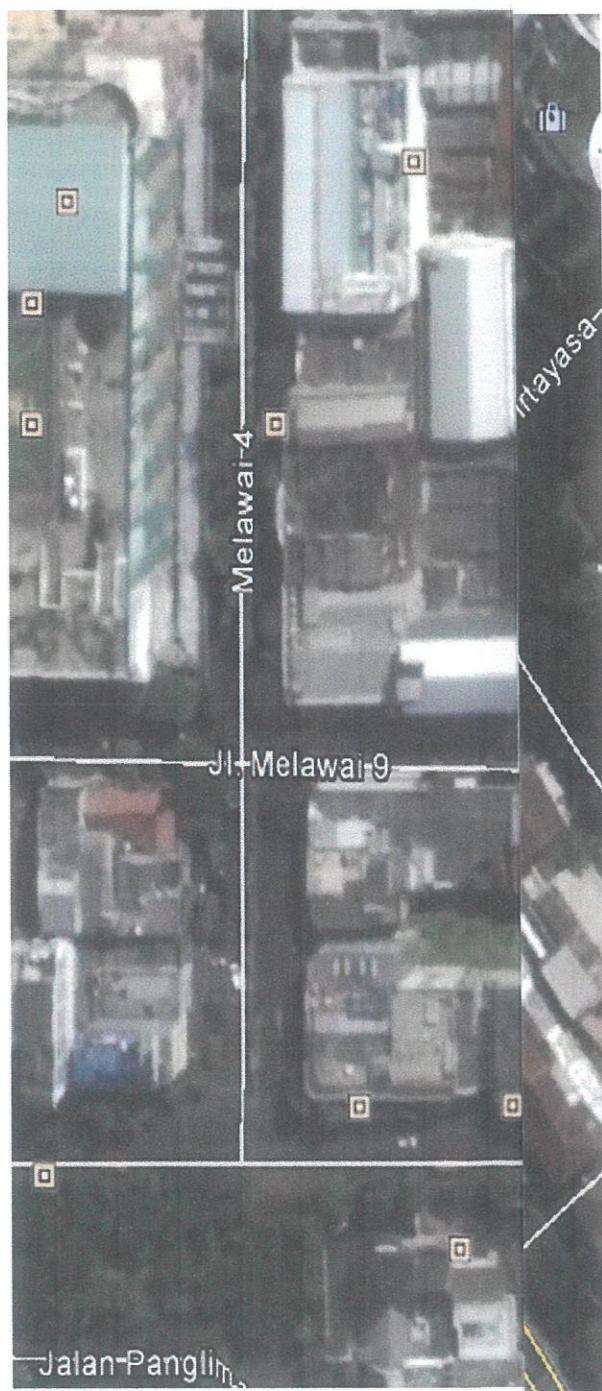
693

RINGKASAN DATA MARKING POLE

No.	Long	Lat	Alamat	Lokasi	New Pole				New JointBox dan Slack			
					No./Label Pole	Foto Pole	Label JB	Foto JointBox	Foto Hanger dan Slack-an	Foto JointBox	Foto Hanger dan Slack-an	
1	-6.245627°	106.803608°	JL. Tirtayasa	PLN								

AS PLAN

**PROJECT
LASTMIL
NO KONT**



KEY MAP

NOTES & LEGEND

- : Route FO 96 Core
- : Route FO 48 Core
- : Route FO 24 Core
- : Crossing Cable 96 Core x 2
- : Route Boring / Underground
- : Site RING
- : Site ACCESS
- : New Pole MTI
- : Existing Pole MTI
- : New HH MTI
- : Existing HH MTI
- : JB Sambung Lurus
- : JB Petikan
- : Crossing TOLL / Bina Marga
- : Crossing KAI
- : Slack

OWNER :

Moratelindo
broadband company

CONTRACTOR :

KK
KOPERASI KARYAWAN
MORATELINDO

CREATED BY Contractor:	VERIFIED BY Project:	ACKNOWLEDGE BY Plan / Eng. Optic:

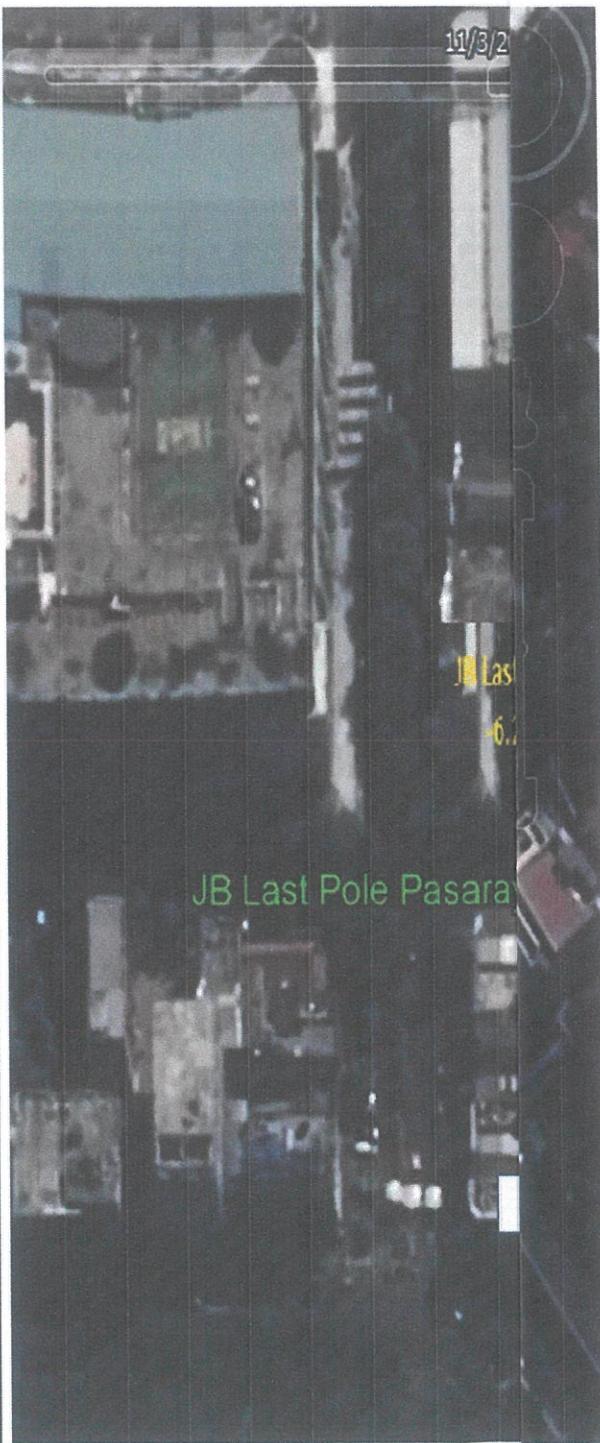
PROJECT NAME :
Project T-LINE

DRAWING TYPE :
As Plan Drawing

ROUTE SEGMENT :
GO-JEK

AS BUILT

PROJECT
LASTMII
NO KON



KEY MAP

NOTES & LEGEND

- : Route FO 96 Core
- : Route FO 48 Core
- : Route FO 12 Core
- : Route FO 24 Core
- : Route Boring / Underground
- : Site RING
- : Site ACCESS
- : New Pole MTI
- : Existing PLN
- : New HH MTI
- : Existing HH MTI
- : JB Sambung Lurus
- : JB Petikan
- : Crossing TOLL / Bina Marga
- : Crossing KAI
- : Slack

OWNER :



CONTRACTOR :



CREATED BY Contractor:	VERIFIED BY Project:	ACKNOWLEDGE BY Plan / Eng. Optic:

PROJECT NAME :
Project T-LINE

DRAWING TYPE :
As Built Drawing

ROUTE SEGMENT :
GO-JEK

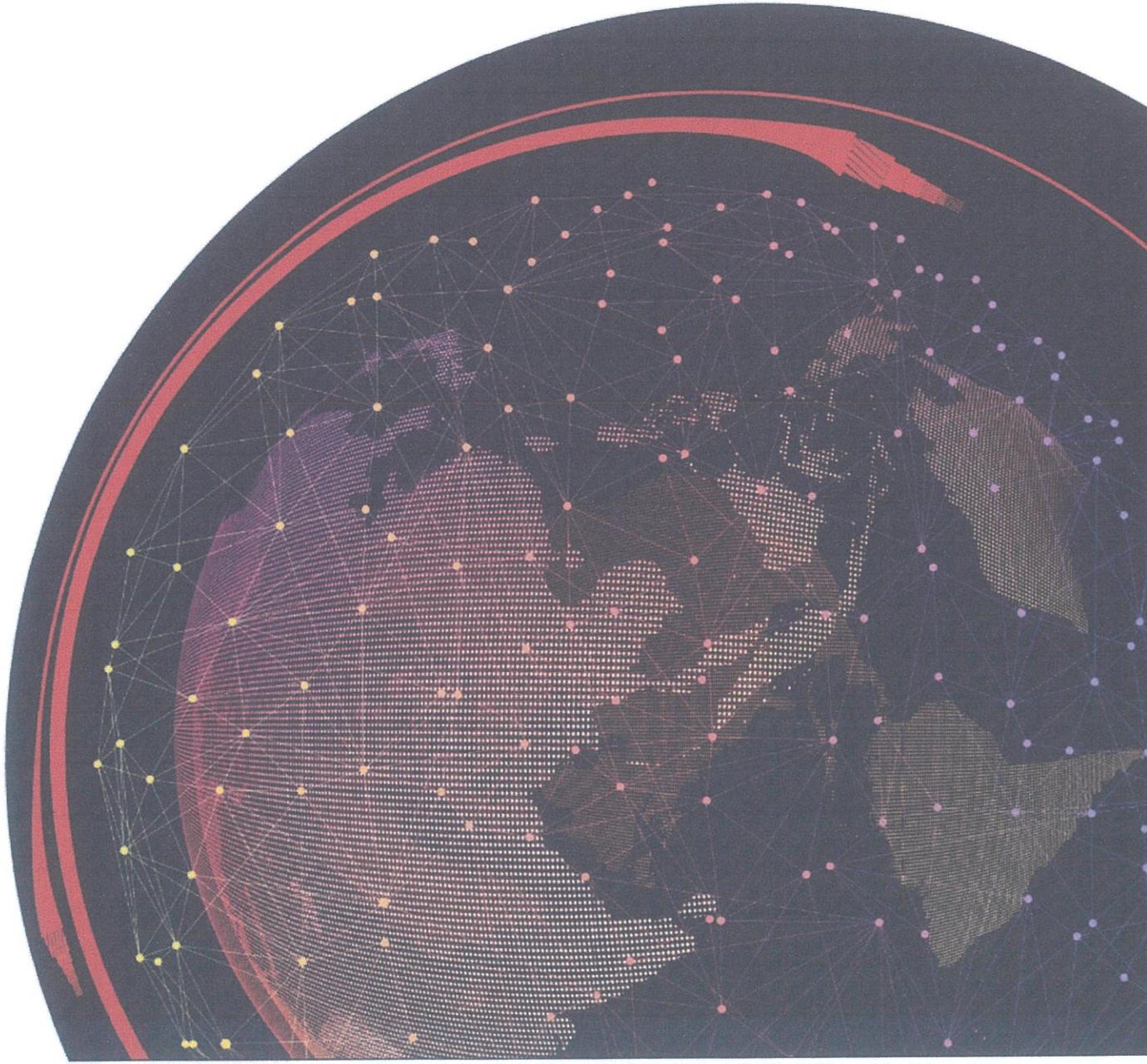
ALOKASI CORE



PT. Mora Telematika Indonesia

OSP Lastmile
GO-JEK

Project | *Juni 2017*



KEY MAP	
JointBox (JB)	: <input type="checkbox"/> New or <input checked="" type="checkbox"/> Existing
Label JB	:
Koordinat JB	:
Lokasi Sekitar JB	:
Alamat JB	:
Info Kabel 96 Ext di JB	:
Info Kabel 48 Ext di JB	:
Info Kabel 24 Ext di JB	:
JB Capacity	:
JB Line (Hole)	:
JB Type	:
JB Merk	:
PIC Moratel	:
PIC Vendor (Jointer)	:
Tanggal Eksekusi	:
Pukul	:

NOTES & LEGEND



OWNER:

Moratelindo
Diversified Company

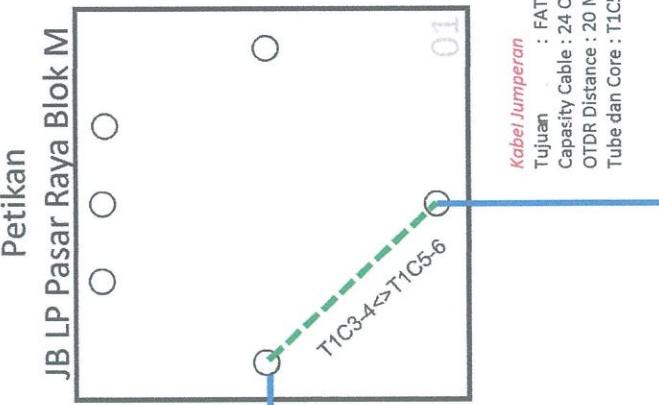
CONTRACTOR:

PROJECT NAME:
Project astmille Moratelindo

DRAWING TYPE:
As Built Allokasi Core (Aktual)

ROUTE SEGMENT:
GO-JEK

Petikan
JB LP Pasar Raya Blok M



Kabel Existing
Tujuan : Surveyor
Capacity Cable : core
OTDR Distance : 48 Core
Tube dan Core : T1C3-4

Kabel Jumperan
Tujuan : FAT JB-BTQH
Capacity Cable : 24 Core
OTDR Distance : 20 M
Tube dan Core : T1C5-6

KEY MAP	
JointBox (JB)	<input type="checkbox"/> New or <input checked="" type="checkbox"/> Existing
Label JB	:
Koordinat JB	:
Lokasi Sekitar JB	: Dekat JB LP Pasar Raya Blok M
Alamat JB	:
Info Kabel 96 Ext di JB	:
Info Kabel 48 Ext di JB	:
Info Kabel 24 Ext di JB	:
JB Capacity	: FAT JB
JB Line (Hole)	: FAT
JB Type	: Ficom
JB Merk	:
PIC Moratel	: Hadi Ismanto
PIC Vendor (Jointer)	: Mulyadi
Tanggal Eksekusi	: 16 Juni 2017
Pukul	: 15.00

NOTES & LEGEND

OWNER:

CONTRACTOR:

CREATED BY	VERIFIED BY	ACKNOWLEDGE BY

PROJECT NAME: Project Name / O.C. / Drawing Date:

DRAWING TYPE: As Built Alokasi Core (Aktual)

ROUTE SEGMENT: GO-JEK

Pelurusan

FAT JB-BTQH

Kabel Existing
Tujuan
Capacity Cable :
OTDR Distance :
Tube dan Core :

Kabel Customer
Tujuan : Go-jek
Capacity Cable : 12 Core
OTDR Distance : 700 m
Tube dan Core : T1C1-2
OTB 24c : SC-UPC

Kabel Existing
Tujuan POP : JB LP. Pasar Raya Blok M
Capacity Cabel : 24 Core
OTDR Distance :
Tube dan Core : T1C5-6

DOKUMENTASI PEKERJAAN

F/PRJ/09.09

DOKUMENTASI ATP (INSTALASI CLOSURE / JOINT BOX)

Segment/Cluster/Lastmile : GO-JEK	Location : Laspole pasar raya blok m
Date :	



Foto Closure : FAT JB Tampak Depan -6.245627°106.803608°

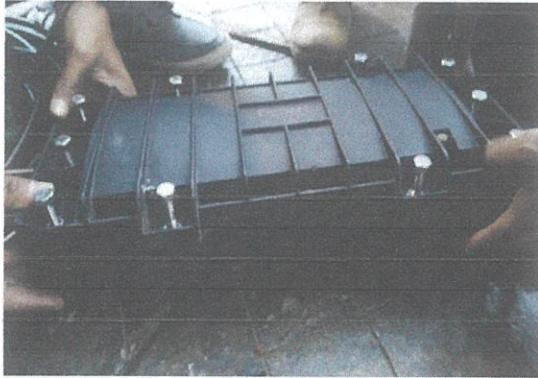


Foto Closure : Tampak Depan -6.245627°106.803608°

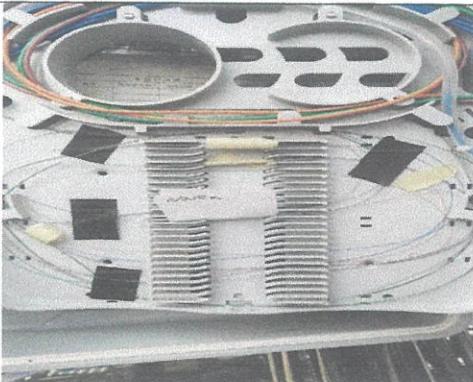


Foto Closure : Tampak Dalam

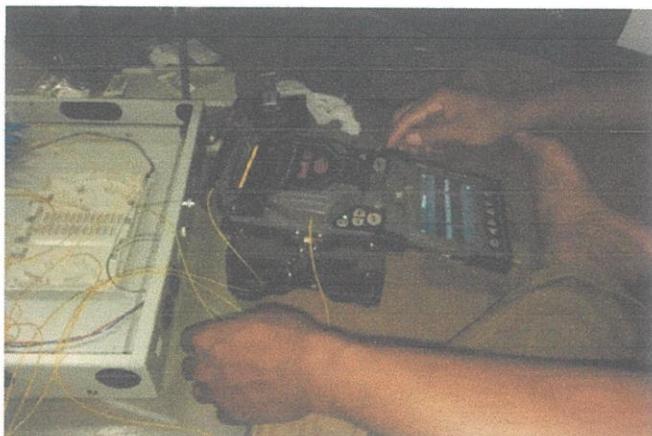


Foto Closure : Tampak Dalam

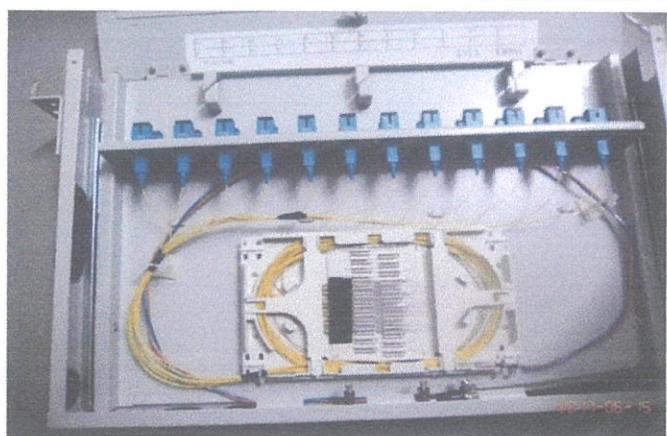
F/PRI/09.09

DOKUMENTASI ATP (INSTALASI OTB)

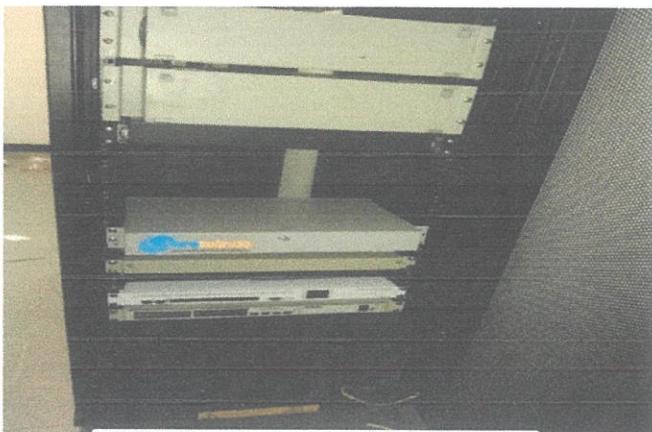
Segment/Cluster/Lastmile : GO-JEK	Location : Pasar Raya Blok M
Date :	



Splicing Process otb Go-jek



Tampak dalam otb Go-jek



Tampak keseluruhan otb Go-jek



Tampak keseluruhan otb Go-jek

F/PRJ/09.09

DOKUMENTASI ATP PEKERJAAN

Segment / Cluster / Lastmile : GO-JEK	Location : Pasar Raya Blok M
Date :	



Foto Instalasi Kabel Optik

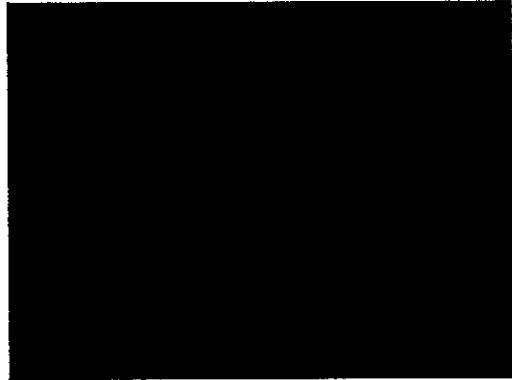


Foto Instalasi Kabel Optik



Foto Instalasi Kabel Optik



Foto Instalasi Subduct

PENDING ITEM

PENDING ITEM (OUTDOOR INSTALLATION)

PROJECT :
 SEGMENT/ CLUSTER/ LASTMILE :
 TANGGAL ATP :

No	TEMUAN	DAMPAK	CRIT / MAJOR / MINOR	TARGET PERBAIKAN
	* Temuan			

PT. Kopersi Karyawan Moratelindo

PT. Mora Telematika Indonesia

Nama:

Nama:

BERITA ACARA ATP



PT. Mora Telematika Indonesia
Grha 9 6th floor
Jl. Penataran No.9, Proklamasi
Jakarta Pusat 10320, Indonesia

BERITA ACARA ATP

Nomor :
Nomor Kontrak :
Tanggal Uji Terima :
Site Id / Name : GO-JEK
Tipe :

No	Nama	Instansi
01		
02		
03		
04		
05		

Secara bersama-sama telah mengadakan verifikasi pekerjaan yang telah dikerjakan oleh pihak Koperasi Karyawan Moratelindo. Dokumentasi pengerajan dan verifikasi terlampir.

Diperiksa & diuji oleh :

Project	QA	Engineering	FOC	Vendor

BERITA ACARA LAPANGAN

Proyek : FTTX / Lastmile Moratelindo 2017
Pelanggan : Go-Jek
Lokasi : Kawasan Blok M Jakarta Selatan
Tikor Pelanggan : -6.244661°106.802360°

Pada Hari ini Tanggal Bulan Tahun **2017 (Dua Ribu Tujuh Belas)**
Kami yang bertandatangan di bawah ini :

- I. Nama : Dandhyka Afrizal Nurrachman
Jabatan : IKR Project Leader
Perusahaan : Koperasi Karyawan Moratelindo

- II. Nama : Budi Susanto
Jabatan : Project Coordinator
Perusahaan : PT. Mora Telematika Indonesia

Berdasarkan Laporan dan pengecekan di lapangan Instalasi Kabel Fiber Optik berikut detailnya :

Telah Selesai dilakukan relokasi kabel FO customer PT. Aplikasi Karya Anak Bangsa (GO-JEK)
relokasi di lakukan untuk pembangunan gedung Lotte Mart.

Demikian surat Berita Acara ini kami buat untuk diketahui sesuai dengan kondisi dilapangan dan
Dipergunakan sebagai kelengkapan data administrasi.

Jakarta, 24 November 2017
Koperasi Karyawan Moratelindo

Dibuat Oleh,

(AH) 
.....
Hadi Atomo.....

Mengetahui,


.....
Budi Susanto.....
24 Nov 2017

F/PRI/09.09

DOKUMENTASI FOTO PEKERJAAN RELOKASI

Segment / Cluster / Lastmile : PT. Aplikasi Karya Anak Bangsa (GO-JEK)	Location : Kawasan Blok M Jakarta Selatan

