

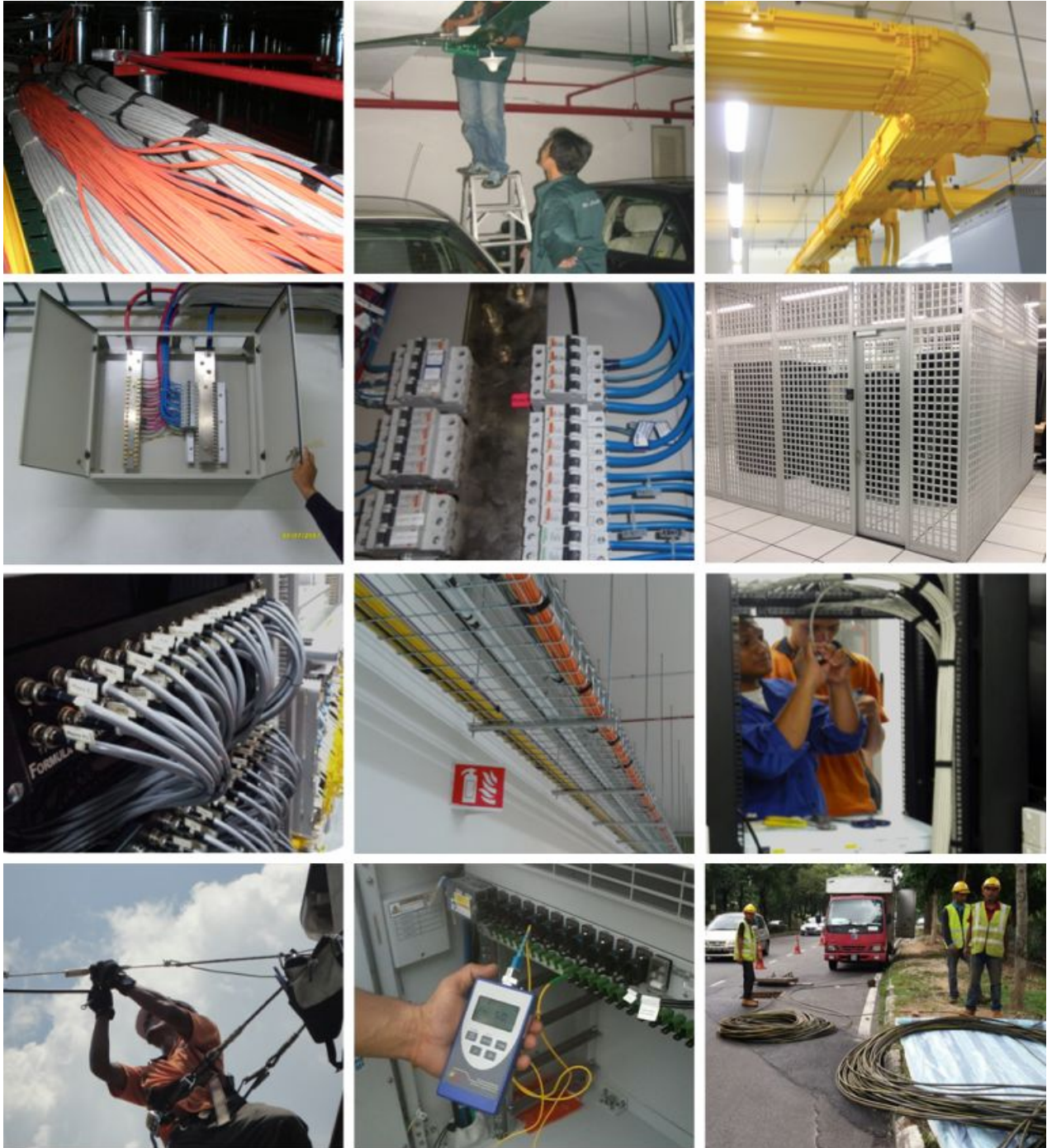


**FORMULA
MUTAKHIR**

EXPERT SERVICES

- Structured Cabling System.....1
- Telco Cabin System.....2
- Project Management & Inspection3
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- In-Building Solution (LAN & WAN, 3G, LTE, Electrical)
- Internal Cabling System (Mechanical & Electrical)
- Internal Cabling System (LAN & WAN)
- Internal Cabling System (LAN & WAN) for Data Centre
- Caging for Data Centre
- JKH (Telekom Malaysia) Cabling works



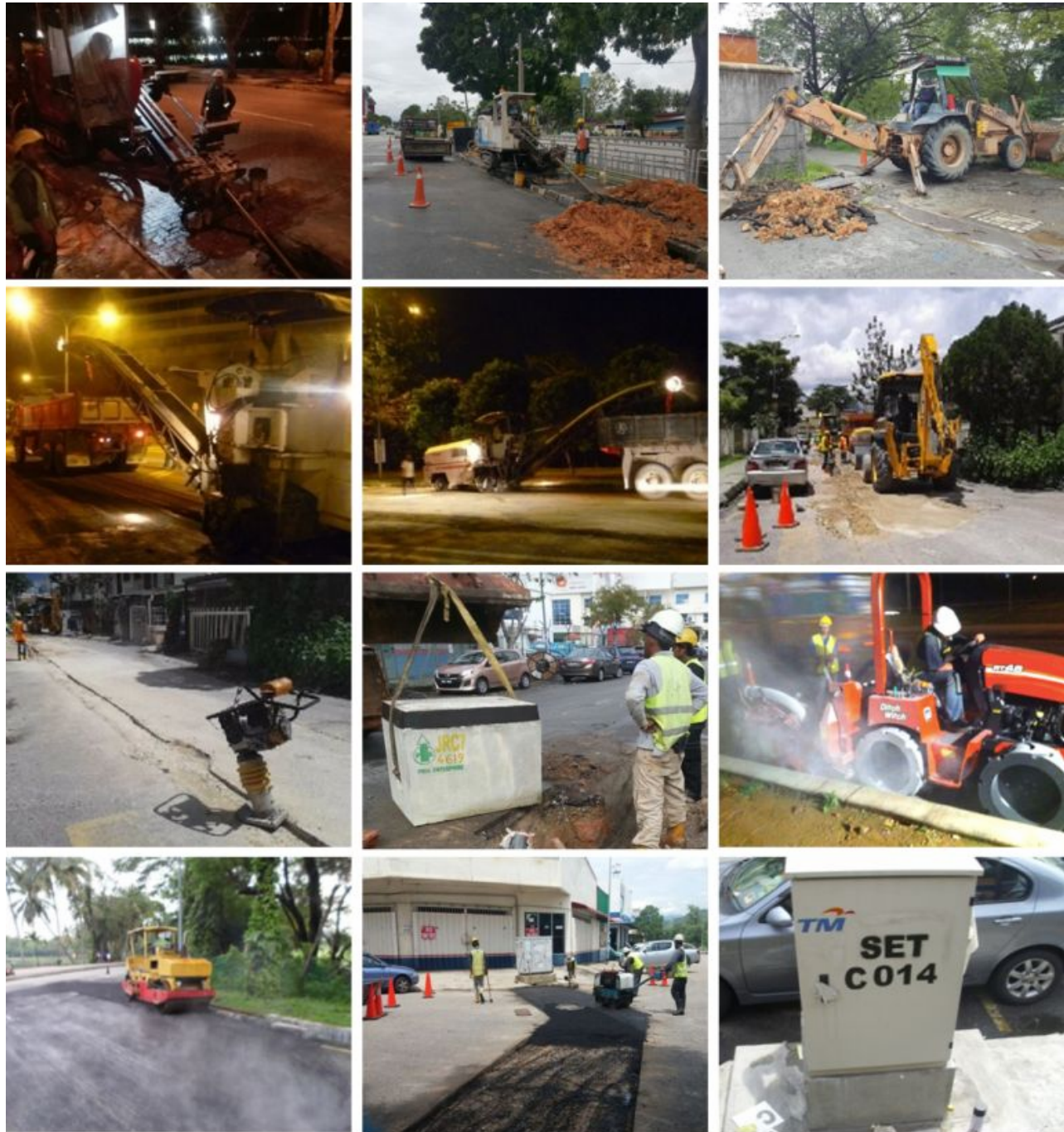
- Mechanical and Electrical Works
- Air-Conditioning Systems
- Fire Fighting Systems
- Cabin Infrastructure Works
- Renovation Works (Installations and Dismantling)



- Project advisor and consultation
- Technical consultation
- Quality assurance and inspection
- Commissioning, procurement and technical works
- Technical audit
- Provision and Design for Structured Cabling System



- Infra Work for HSBB Project
- Horizontal Direct Drilling (HDD)
- Micro Trenching
- Milling And Paving
- Civil Works for JKH (Telekom Malaysia)
- Office Renovation Works



No.	Project Description	Quantity	Model	Serial Number
1	Pon Optical Time Domain Reflectometer (OTDR)	3	Annritsu MT 9083B-056	6200847260
			Annritsu MT 9083B-056	6200851664
			HP OTDR	3027900170
2	PON Power Meter	3	JW 3206A	PPM0904838A
			JW 3212	PPM0910044
			JW 236A	PPM0910045
3	PON Optical Loss Test Set (OLTS)	3	Annritsu 5OLTS3450F	6200
			Annritsu 5OLTS3450F	6200
			KI 7347C	6200
4	Gas Detector	3	XT-XWHM-Y-OR	MA110-008960
				MA110-011479
				MA110-011480
5	Fusion Splicing	3	Fujikura S122M4-C-H1	2628
				2598
				I38
6	Fiber Inspection Probe	3	JW 5003	
			CL 400X	
7	Fiber Identifier	3	JW 3306	OF10911396
				OF10911397
				OF10911398
8	Portable Double Extension aluminum Ladder (BS2037 : 1994 Class 1 Industrial) With Safety accessories	3		





Telekom Malaysia Berhad



VADS Berhad



FIBRECOMM Network



Asia Broadcast Network



TIME dotcom



TMNet Sdn Bhd



Celcom Malaysia



OPCOM Cables Sdn. Bhd.



Suruhanjaya Komunikasi dan Multimedia Malaysia



Pembinaan Mohamed Nazir Meraslam Sdn. Bhd,



Tenaga Nasional Berhad



Petronas



iPerintis



Universiti Teknologi Petronas



Agrobank

No.	Project Description	Employer	Contract Value	Year
1	Network Development Project HSBB via Schedule of Rate (JKH)	Telekom Malaysia Berhad	RM 10,400,000.00	2009 ext 2015
2	Supply, Delivery, Install, Testing and Commissioning of Network Cabling Works at TM Enterprise Data Centre Throughout The Region	Telekom Malaysia Berhad	RM 500,000.00	2010
3	Single Installer Contract for the Provision of Installation Works of Telephone Services and/or Asymmetrical Digital Subscriber Lines	Telekom Malaysia Berhad	RM 414,649.00	2011 ext 2012
4	Supply, Delivery, Installation and Commissioning of WP1BRF8 at VADS Data Centres	VADS Berhad	RM 56,096.50	2012
5	Supply and Provision of Engineering Services for Cabin complete with Electrical Works, Air Conditioning System, Fire Fighting System, Optical Fibre Cable and Accessories and Civil Infrastructure Works at Site in Sabah	Fibrecomm Network Sdn. Bhd.	RM 1,172,034.85	2012
6	Supply, Delivery, Installation, Testing and Commissioning of 75-120 ohm Cables and Accessories for Network Development Central	Telekom Malaysia Berhad	RM 500,000.00	2012
7	Kerja-Kerja Penambahan Tie Coaxial di Ibusawat Johor Bahru, Tampoi dan Kulai untuk Unit Data Johor	Telekom Malaysia Berhad	RM 69,858.00	2013
8	Internal Cabling Works at Maxis Kepong KL	Fibrecomm Network Sdn. Bhd.	RM 38,660.00	2013
9	Supply and Provision of Engineering Services for Cabin Type 3 complete with Electrical Works, Air Conditioning System, Fire Fighting System, Optical Fibre Cable and Accessories and Civil Infrastructure Works at Site PMU Gelang Patah	Fibrecomm Network Sdn. Bhd.	RM 186,877.00	2013
10	Supply and Delivery Coaxial Connector for AND TM Perak	Telekom Malaysia Berhad	RM 21,160.00	2013
11	Supply, Delivery, Installation, Testing and Commissioning of Electrical/Network and Accessories for IAAS Project at BRF8 - Network Cabling & Fiber guide	VADS Berhad	RM 105,893.80	2013
12	Supply and Delivery of Server Rack 42U for Fiberail	Telekom Malaysia Berhad	RM 11,250.00	2013
13	Construction of HFC Network (HYBRID CABLE TELEVISION TRUNK DISTRIBUTION WORKS AND SERVICES) - Structured Cabling	Asian Broadcast Network Sdn Bhd	RM 1,000,000.00	2013
14	Disposal and Relocation M&E Equipment, Server Migration and Reinstatement Works for VADS Wangsa Maju (WMU) Data Centre	Telekom Malaysia Berhad	RM 42,235.00	2014
15	OFC Connection Between Brownfield and Greenfield BGP Sabah Project Link FCN Penampang - Celcom Inanam MTX	Fibrecomm Network Sdn. Bhd.	RM 390,631.31	2014

* ext - Last extended / additional / add-on contract

No.	Project Description	Employer	Contract Value	Year
16	Construction of HFC Network (HYBRID CABLE TELEVISION TRUNK DISTRIBUTION WORKS AND SERVICES) - Civil works	Asian Broadcast Network Sdn Bhd	RM 1,000,000.00	2014
17	Supply, Delivery and Provision of Engineering Services for Replacement Backup Battery Bank of Batteries Rectifier System Requirement by Fibrecomm's Nodes	Fibrecomm Network Sdn. Bhd.	RM 269,908.80	2014
18	Disposal & Relocation M&E Equipments, Server Migration and Reinstatement works for VADS Semarak Data Centre	VADS Berhad	RM 120,434.20	2014
19	Supply, Delivery, Install, Testing & Commissioning of Virtual Data Centre (VDC) Project at Six Site for VADS Berhad	Telekom Malaysia Berhad	RM 118,248.60	2014
20	Supply and Provision of Engineering Services for New 24 cores OFC Cabling Inside TPM-IT Ducting from Enterprise 4 to FCN Jaring TPM	Fibrecomm Network Sdn. Bhd.	RM 30,187.83	2014
21	Supply and Provision of Engineering Services for New Civil Infrastructure, Optical Fiber Cable and Accessories for Malaysia Airport Berhad (MAB), Cable Protection Work in Pengkalan Unit Udara Polis Subang Selangor	Telekom Malaysia Berhad	RM 451,022.54	2015
22	Supply and Delivery of Tools for ENZ Program to Network Maintenance and Operation, Telekom Malaysia, Kuching, Sarawak	Telekom Malaysia Berhad	RM 13,700.00	2015
23	Delivery and Engineering Services of Auxiliary Materials for Transmission Migration Activity for Telekom Malaysia Berhad	Telekom Malaysia Berhad	RM 95,358.35	2015
24	TIME Cabins refurbishment for Central Region, Northern Region, Eastern Region and Southern Region	TIME dotcom	RM 289,200.00	2015
25	Supply, Delivery, Installation and Testing of Co-axial Cables and Connector for CTD Migration unit, Telekom Malaysia Berhad	Telekom Malaysia Berhad	RM 577,529.60	2015 ext 2016
26	Supply, Install and Provision of Engineering Services For New Civil Infrastructure For Pulapol Jalan Semarak to Existing TM & Maxis Manhole	Telekom Malaysia Berhad	RM 490,798.12	2016
27	Supply and Delivery of UTP Cable and Connector for Customer Experience Management & Transformation (CEMT), Telekom Malaysia Berhad	Telekom Malaysia Berhad	RM 91,800.00	2016
28	Supply and Engineering Services for New Infrastructure, OFC and Accessories for U-Mobile LTE Backhaul (1st Phase) - Cluster 7 : LT27, TDAK, LTGR & BAHU	Fibrecomm Network Sdn. Bhd.	RM 378,084.55	2016
29	Panel contractor for Supply and Installation of Internal Cabling and Power Tapping Work to Cater for G&W'S	Telekom Malaysia Berhad	RM 3,000,000.00	2016

* ext - Last extended / additional / add-on contract

Formula Mutakhir has engaged a team of consultant who has vast experience in handling many International projects. One of the members has actively involved in many telecommunication infrastructure projects locally and globally.

Project Management

The team has led and managed many project from planning stages up to closure of the projects. The scope involves finance, budgeting, contracting, project execution and negotiation.



Quality Assurance Inspection

Provision of Inspection services related to quality plan and design qualification, factory audits and factory tests.

Provision of inspection services for the drafting and negotiation of on-site tests and system commissioning and performance of on-site tests and system commissioning



A. PROJECT MANAGEMENT

Project	Role and Position	Position	Year	Supplier
APCN Upgrade	Technical Audit Member	Member	1998-99	NEC
SMW3	Segment 4 Regional Commissioning Working Group	Member	1998 - 2001	KDDSCS/Fujitsu/ASN
SMW3	SMW3 CC2 Working Group	Member	1998 - 2001	KDD SCS
SMW3	Commissioning Working Group	Co Chairman	1998 - 2001	ASN/KDD SCS/Tyco/Fujitsu
SMW3	Management Committee	Member	2007 - 2009	ASN/Tyco/Fujitsu
SMW3 Upgrade	Upgrade Commissioning Working Group	Co Chairman	2001 - 2007	ASN/Tyco/Fujitsu
SMW3 Upgrade	Quality Assurance and Inspection Team	Lead Auditor	2001 - 2007	ASN/Tyco/Fujitsu
SMW4	Technical Working Group	Co Chairman	2000 - 2002	ASN/Fujitsu
SMW4	Commissioning Working Group	Co Chairman	2000 - 2002	ASN/Fujitsu
SMW4	Procurement Working Group	Member	2000 - 2002	ASN/Fujitsu
SMW4	Quality Assurance and Inspection	Lead Auditor	2000 - 2002	ASN/Fujitsu
SMW4 Upgrade	Commissioning Working Group	Co Chairman	2002 - 2007	ASN/Fujitsu
SMW4 Upgrade	Procurement Working Group	Member	2002 - 2007	ASN/Fujitsu
SMW4 Upgrade	Quality Assurance and Inspection	Lead Auditor	2002 - 2007	ASN/Fujitsu
APCN2	Commissioning Working Group	Member	2000 - 2002	NEC
APCN2	Marine Working Group	Member	2000 - 2002	NEC
APCN2 Upgrade	Commissioning Working Group	Co Chairman	2002 - 2007	NEC
APCN2 Upgrade	Procurement Working Group	Member	2002 - 2007	NEC
APCN2 Upgrade	Quality Assurance and Inspection	Lead Auditor	2002 - 2007	NEC
SAFE	Technical Working Group	Co Chairman	2000-2002	Tyco/ASN
SAFE	Procurement Working Group	Member	2000-2002	Tyco/ASN
SAFE	Quality Assurance and Inspection	Lead Auditor	2000-2002	Tyco/ASN
SAFE/SAT3-WASC	Procurement Working Group	Member	2000-2002	Tyco/ASN
SAFE Upgrade	Technical Working Group	Co Chairman	2000-2007	Tyco/ASN
SAFE Upgrade	Procurement Working Group	Member	2000-2007	Tyco/ASN
DMCS	Technical Working Group	Chairman	2002-2004	NEC
DMCS	Procurement Working Group	Member	2002-2004	NEC
DMCS	Quality Assurance Working Group	Lead Auditor	2002-2004	NEC
MDCS Upgrade	Technical Committee (submarine)	Technical Lead	2005-2006	Project Differed
AAG	Technical Working Group	Member	2007	NEC
AAG	Procurement Working Group	Member	2007	NEC

TIME PK-TICS CS	Project Management	Project Director	2007-2008	
AGG	Technical Working Group	Consultant	2009	Project deferred
BMCS	Project Management Consultant (PMC)	Consultant	2010	Project deferred
Myanmar - Spore	Project Management Consultant (PMC)	Consultant	2010	Project deferred
FICS	Project Management	Project Manager	2011	Project deferred

B. QUALITY ASSURANCE AND INSPECTION

Project	Location	Supplier	Activity
APCN Upgrade	Lucent Lab, Meriveck Valley, Boston, US	Tyco/Lucent	Product Design and Review Meeting
APCN Upgrade	ASN SDH Factory, Ormes, France	ASN	SLTE Factory Acceptance Test
SMW3	OCC factory, Fukuoka, Japan	KDD-SCS	BU factory Acceptance Test
SAFE	Tyco Lab, New Jersey, USA	Tyco	Product Design and Review Meeting
SAFE	Hitachi Cable Factory, Hitachi, Japan	Tyco/Hitachi	Product Design and Review Meeting, Manufacturing Audit, Cable Section Test, System Assembly Test and Cable Loading
SAFE	General Dynamic Automation Technology (GDAT) factory, North Carolina, US	Tyco	Product Design Acceptance, SLTE Factory Acceptance Test
SAFE	ASN SDH Factory, Trieste, Italy	Tyco/ASN	Product Design Acceptance, SIE Factory Acceptance Test
SMW4	Alcatel HQ, Villareoux, France	Alcatel	Product Design Acceptance, Factory demo and SLTE Test
SMW4	Alcatel Cable factory, Calais, France	Alcatel	Factory Audit, Manufacturing Inspection, Cable loading
SMW4	Alcatel SIE Lab, Vimercate, Italy	Alcatel	SIE Product Design Acceptance
SMW4	Fujitsu HQ, Kawasaki, Japan	Fujitsu	Product Design Acceptance, SLTE Factory Acceptance Test
SMW4	Fujitsu SLTE Manufacturing plant, Oyama, Japan	Fujitsu	Product Design Acceptance, SLTE Factory Acceptance Test
SMW4	Fujitsu PFE Manufacturing Plant, Furudono, Japan	Fujitsu	Product Design Acceptance, PFE Factory Acceptance Test
SMW4	Hitachi Cable Factory, Hitachi, Japan	Fujitsu/Tyco	Product Design Acceptance, Cable manufacturing, section Test, Assembly Test and Cable Loading
APCN2 Upgrade and DMCS	NEC HQ, Kawasaki, Japan	NEC	Product Design Acceptance
APCN2 Upgrade and DMCS	NEC SLTE Manufacturing Plant, Sendai, Japan	NEC	Product Design Acceptance, SLTE Factory Acceptance Test
APCN2 Upgrade and DMCS	OCC Cable manufacturing Plant, Fukuoka, Japan	NEC	Product Design Acceptance, Cable manufacturing, section Test, Assembly Test and Cable Loading
APCN2 Upgrade	Lucent Lab, Shanghai, China	NEC	Product Design Acceptance
APCN2 Upgrade	Lucent Metro E Equipment manufacturing plant, Solectron Factory, Suzhou, China	NEC	Product Design Acceptance, SIE Factory Acceptance Test

APCN2 Upgrade	Lucent Lambda Unite equipment manufacturing plant, Solectron, Timisoara, Romania	NEC	Product Design Acceptance, SIE Factory Acceptance Test
APCN2 Upgrade	Lucent STM64 card manufacturing card plant, San Jose, California, USA	NEC	Product Design Acceptance, SIE Factory Acceptance Test
APCN2 Upgrade	Lucent STM4 card manufacturing plant, Herrenberg, Germany	NEC	Product Design Acceptance, SIE Factory Acceptance Test
APCN2 Upgrade	Lucent manufacturing plant, Herrenberg, Germany	NEC	Product Design Acceptance, SIE Factory Acceptance Test
APCN2 Upgrade	Lucent Lab, Nurnberg, Germany.	NEC	Product Design Acceptance,

C. MARINE OPERATION

Date	Project	Cablesip	Duration	Activities
Nov-98	SMW3 Cable System (Seg 2)	C.S Mearsk Fighter	30 days	laying operation for SMW3 Cable Segment 2 from Singapore towards Hong Kong
Aug-00	SAFE Cable System	C.S Vercoors	21 days	laying operation for SAFE Cable from Cochin, India toward Penang, Malaysia.
Sep-01	SAFE Cable System	Freighter Thoerdore Ordendolf	21 days	cable transfer operation , offload submerged plant onto C.S Vercoors at Bristol, UK
2001	SMW4 Cable System	C.S Tyco Durable	21 days	Loading transfer inspection at Hitachi Factory, Japan
2001	Dumai – Melaka Cable System	C.S CEC Douglas	Spring 14 days	Loading transfer inspection at OCC Cable Factory, Fukuoka, Japan
2001	SAFE	C.S. Freighter	5 days	Offloading submerged spare Inspection and test at Cable Depot, Sembawang



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