









PART 15

IMPLEMENTATION PROGRAM FOR  
WITEL XI























Table IMPLEMENTATION PLAN

No.	Exchange Name	Area Code	Sub System	Existing		Installation		Implementation Schedule												End of REPELTA-VI Capacity	Demand	Remarks
				Type	Capacity	Unit No.	Supply Volume	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04					
19	TERNATE	821	LAND		M2													M2				
					BUILDING	M2															M2	
			TALS	PC-0000	2,072 LU	40 TRK	TT-SW-R	- 2,072 LU	- 40 TRK											0 LU	0 TRK	
					LU	TRK	TT-SW-1	8,122 LU	303 TRK											8,122 LU	303 TRK	
					LU	TRK		LU	TRK											LU	TRK	
					LU	TRK		LU	TRK											LU	TRK	
					LU	TRK		LU	TRK											LU	TRK	
					LU	TRK		LU	TRK											LU	TRK	
					LU	TRK		LU	TRK											LU	TRK	
			MS				TRK															
							TRK															
							TRK															
			SLU				8 SYS	TT-TR-1	2 SYS												10 SYS	
							CCT															
							CCT															
							CCT															
			JUNCTION				CCT	SATELLITE	244 CCT												244 CCT	
							CCT	SCPC														
							CCT															
				CCT																		
LOCAL				CABLE		1,230 SSP												9,999 SSP				
				SSP	IV-1ST	2,000 SSP												2,000 SSP				
				RSS	TT-RS	16 SUB												16 SUB				
				SUB																		
20			LAND		M2																	
					BUILDING	M2																
			TALS				LU	TRK												LU	TRK	
							LU	TRK												LU	TRK	
							LU	TRK												LU	TRK	
							LU	TRK												LU	TRK	
							LU	TRK												LU	TRK	
							LU	TRK												LU	TRK	
							LU	TRK												LU	TRK	
			MS				TRK															
							TRK															
							TRK															
			SLU				TRK															
							TRK															
							TRK															
							TRK															
			JUNCTION				CCT															
							CCT															
							CCT															
				CCT																		
LOCAL				CABLE																		
				SSP																		
				SSP																		
				RSS																		











Table IMPLEMENTATION PLAN

FILE: IPT1-15.WK1

No.	Exchange Name	Area Code	Sub System	Existing		Installation		Implementation Schedule												End of REPELTA-VI Capacity	Demand	Remarks	
				Type	Capacity	Unit No.	Supply Volume	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95					
28	WEDA	825	LAND BUILDING TALS	M2		M2	240											M2					
				M2		M2	60												M2				
				TRK		WDA-SW-1	120 LU													120 LU	10 TRK		
						TRK														LU			
						TRK														LU			
						TRK														LU			
						TRK														LU			
						TRK														LU			
						TRK														LU			
						TRK														LU			
						TRK														LU			
						MS																	
						SLU																	
			29			LAND BUILDING TALS	M2		M2												M2		
							M2		M2												M2		
TRK																			LU				
						TRK													LU				
						TRK													LU				
						TRK													LU				
						TRK													LU				
						TRK													LU				
						TRK													LU				
						TRK													LU				
						TRK													LU				
						MS																	
						SLU																	
						JUNCTION																	
						LOCAL																	









**PART 16**

**IMPLEMENTATION PROGRAM FOR  
WITEL XII**







































Table IMPLEMENTATION PLAN

No.	Exchange Name	Area Code	Sub System	Existing		Installation		Implementation Schedule												End of REP/ELTA-VI Capacity	Demand	Remarks		
				Type	Capacity	Unit No.	Supply Volume	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95						
33	TMKA	570	LAND		M2		M2	1	2	3	4	1	2	3	4	1	2	3	4					
			BUILDING		M2		M2																	
			TLS	KUAN YUE	480 LU	TRK	TRK-SW-R	-480 LU														0 LU		
					LU	TRK	TRK-SW-1	2,600 LU														2,600 LU		
					LU	TRK		LU														LU		
					LU	TRK		LU														LU		
			MS		LU	TRK		LU														LU		
					LU	TRK		LU														LU		
			SLU		TRK		TRK																	
					CCT		CCT																	
	CCT			CCT																				
	CCT			CCT																				
JUNCTION		SCPC	24 CCT	SATELLITE	36 CCT														80 CCT					
		CCT		CCT																				
LOCAL		CABLE	320 SSP	TRK-CA	2,700 SSP														3,220 SSP					
		SSP		SSP																				
		PSS		TRK-RS	254 SUB														254 SUB					
		SUB		SUB																				
34			LAND		M2		M2																	
			BUILDING		M2		M2																	
			TLS	KUAN YUE	LU	TRK		LU													LU			
					LU	TRK		LU													LU			
					LU	TRK		LU													LU			
					LU	TRK		LU													LU			
			MS		LU	TRK		LU													LU			
					LU	TRK		LU													LU			
			SLU		TRK		TRK																	
					CCT		CCT																	
	CCT			CCT																				
	CCT			CCT																				
JUNCTION		SCPC		CCT																				
		CCT		CCT																				
LOCAL		CABLE		CCT																				
		SSP		SSP																				
		PSS		SUB																				
		SUB		SUB																				



**PART 17**

**IMPLEMENTATION PROGRAM FOR  
BACKBONE TRANSMISSION**









Table IMPLEMENTATION PLAN FOR BACKBONE TRANSMISSION

No.	Name of Project	Media & System	Existing		Installation		Implementation Schedule												No. of 140 M (Working) End of REPELITA-VI	Remarks			
			Section	Capacity	Section	Capacity	1997/98																
							1	2	3	4	1	2	3	4	1	2	3	4			1	2	3
4	JCT-SBY FO-II	FO-82M (STM-4)		S/S	JCT-CKAMPK	5+5 S/S													19 S/S	28 Core, 1,550 nm			
				S/S	CKAMPK-BD	2+2 S/S															6 S/S	16 Core	
				S/S	CKAMPK-CBN	4+4 S/S																15 S/S	24 Core
				S/S	CBN-SM	4+4 S/S																15 S/S	24 Core
				S/S	SM-PMO	4+4 S/S																13 S/S	24 Core
				S/S	PMO-SB	4+4 S/S																13 S/S	24 Core
				S/S		S/S																S/S	Length= 910 km
				S/S		S/S																S/S	1. 620M x 1 for international may be added for JCT-SBY.
				S/S		S/S																S/S	2. Fiber will be installed along with the rail way route.
				S/S		S/S																S/S	
				S/S		S/S																S/S	
				S/S		S/S																S/S	
			5	SBY-UP SKL	FO-82M (STM-4)		S/S	SBY-UP	3 S/S														7 S/S
	S/S					S/S															S/S	Length= 780 km	
	S/S					S/S															S/S		
	S/S					S/S																S/S	
	S/S					S/S																S/S	
	S/S					S/S																S/S	
	S/S					S/S																S/S	
	S/S					S/S																S/S	
	S/S					S/S																S/S	
	S/S					S/S																S/S	
	S/S					S/S																S/S	
	S/S					S/S																S/S	

Table IMPLEMENTATION PLAN FOR BACKBONE TRANSMISSION

No.	Name of Project	Media & System	Existing		Installation		Implementation Schedule												No. of 140 M (Working)	Remarks			
			Section	Capacity	Section	Capacity	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95						
6	MON-BNA D-MW	SDH-155M (STM-1)	MON-BNA	1,280	CH BNA-LSM	1+1 SYS												2 SYS	Existing analog NW is replaced by digital system. Length = 510 km.  Existing = installed in 1982				
						2+1 SYS														1 SYS			
			7	TRANS SUMATERA EXPANSION	SDH-155M (STM-1) SDH-140M	MON-PO	2+1 SYS	HCH-DNB	3 SYS														Expansion by the existing Cross Sumatera is included Length = 2,200 km.
									1+1 SYS														
		SDH-140M				DNB-SGG	1+1 SYS															To be utilized for circuits to/from PC area/LE	

Table IMPLEMENTATION PLAN FOR BACKBONE TRANSMISSION

No.	Name of Project	Media & System	Existing		Installation		Implementation Schedule												No. of 140M (Working)	Remarks		
			Section	Capacity	Section	Capacity	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05					
B	PALAPACI	SATELITE		24 TR		TR												0 TR	Launching of PALAPACI			
				24 TR		TR														24 TR		
				24 TR		TR															24 TR	
				30 TR		TR																30 TR
						SYS		SYS														SYS
						SYS		SYS														SYS
						SYS		SYS														SYS
						SYS		SYS														SYS
						SYS		SYS														SYS
						SYS		SYS														SYS
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						SYS		SYS														SYS
						SYS		SYS														SYS
						SYS		SYS														SYS
						SYS		SYS														SYS





Table IMPLEMENTATION PLAN FOR BACKBONE TRANSMISSION

No.	Name of Project	Media & System	Existing		Installation		Implementation Schedule												No. of 140 M (Working)	Remarks	
			Section	Capacity	Section	Capacity	1987/85	1987/86	1987/87	1987/88	1987/89	1987/90	1987/91	1987/92	1987/93	1987/94	1987/95				
13	JKT-PGP-PTK SXL	FO-SDM (STM-4)		STS	JKT-PGP	3 STS												5 STS	Length = 1,000 km JKT-PGP 500 km PGP-PTK 400 km  1. Soil bed survey is required. 2. Back haul system of optical fiber cable (3 hops) is included.		
				STS	PTK-PTK	2 STS														2 STS	
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
				STS		STS															STS
			14	2ND TRANS-SUMATERA	8Gb-150M (STM-1) 60Gz-10M		STS	BVA-SBG	1+1 STS												
	STS	SBG-MON				5+1 STS													5 STS		
	STS	MON-PBR				3+1 STS														3 STS	
	STS	PBR-LB				5+1 STS														5 STS	
	STS	LB-PG				5+1 STS														5 STS	
	STS	PG-PGP				1+1 STS														7 STS	
	STS					STS														STS	
	STS					STS														STS	
	STS					STS														STS	
	STS					STS														STS	
	STS					STS														STS	
	STS					STS														STS	

Table IMPLEMENTATION PLAN FOR BACKBONE TRANSMISSION

No.	Name of Project	Media & System	Existing		Installation		Implementation Schedule												No. of 140 M (Working)	Remarks		
			Section	Capacity	Section	Capacity	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	End of REPELITA-VI				
15	CROSS KALIMANTAN EXPANSION	60Hz-150M	BUM-SPT	1+1 SYS	BUM-SPT	2+1 SYS													3 SYS	Length=1,000km 1. Spur route will be included 2. Alternative Plan 60Hz-300M (STM-1 X 2)		
			SPT-PTK	1+1 SYS	SPT-PTK	2+1 SYS															3 SYS	
			BUM-BPP	3+1 SYS	BUM-BPP	3 SYS															3 SYS	
			BRP-SMR	1+1 SYS	BUM-SMR	2+1 SYS															3 SYS	
			TAR-SMR	1+1 SYS		3 SYS															1 SYS	
						3 SYS																3 SYS
						3 SYS																3 SYS
						3 SYS																3 SYS
						3 SYS																3 SYS
						3 SYS																3 SYS
						3 SYS																3 SYS
						3 SYS																3 SYS
						3 SYS																3 SYS
						3 SYS																3 SYS
			16	TRANS SULAWESI EXPANSION	60Hz-140M	UP-GA/TSP	3+1 SYS	UP-GA/TSP	2 SYS													
GN/TSP-FRE	1+1 SYS	GN/TSP-FRE				1 SYS														1 SYS		
GN/TSP-BTSR	3+1 SYS	GN/TSP-BTSR				1 SYS														4 SYS		
BTSR-KOI	1+1 SYS	BTSR-KOI				1 SYS															1 SYS	
BTSR-PARIKI	2+1 SYS	BTSR-PARIKI				1 SYS															3 SYS	
PARIKI-PAL	1+1 SYS	PARIKI-PAL				3 SYS															1 SYS	
PARIKI-MAO	1+1 SYS	PARIKI-MAO				1 SYS															2 SYS	
MAO-MAO	2+1 SYS	MAO-MAO				3 SYS															2 SYS	
						3 SYS															3 SYS	
						3 SYS															3 SYS	
						3 SYS															3 SYS	
						3 SYS															3 SYS	
						3 SYS															3 SYS	
						3 SYS															3 SYS	
						3 SYS															3 SYS	





Table IMPLEMENTATION PLAN FOR BACKBONE TRANSMISSION

No.	Name of Project	Media & System	Existing		Installation		Implementation Schedule												No. of 140 M (Working)	Remarks							
			Section	Capacity	Section	Capacity	1997/98																				
							1	2	3	4	1	2	3	4	1	2	3	4			1	2	3	4			
18	JK-SBY-FO-I EXPANSION	FO-24G (STM-16)	JKT-BD	140M 3+1 S/S	JKT-BD	243 1+1 S/S															10 S/S	12 cores, 1,300 km Length= 800 km  Spare cores of the existing route is to be utilized.					
			BD-KROYA	140M 3+1 S/S	BD-KROYA	243 1+1 S/S																		7 S/S			
			KROYA-YK	140M 3+1 S/S	KROYA-YK	243 1+1 S/S																			8 S/S		
			YK-SLO	140M 3+1 S/S	YK-SLO	243 1+1 S/S																			8 S/S		
			SLO-MAN	140M 3+1 S/S	SLO-MAN	243 1+1 S/S																			8 S/S		
			MAN-SBY	140M 2+1 S/S	MAN-SBY	243 1+1 S/S																			7 S/S		
						S/S		S/S																	S/S		
						S/S		S/S																		S/S	
						S/S		S/S																		S/S	
						S/S		S/S																		S/S	
						S/S		S/S																		S/S	
			18	JK-POD-MW	8GHz-155M (STM-1)	JKT-TJK	8GHz 7+1 S/S	JKT-TJK	6+1 S/S																	13 S/S	Same route as TRANS SUMATERA Length= 1,000 km  Alternative Plan - JKT-TJK SGG (FO-820M) - TJK-PO (FO-820M) Detailed survey is required.
						TJK-BTASAM	8GHz 7+1 S/S	TJK-BTASAM	6+1 S/S																		
BTASAM-BT.PEDUKUH	8GHz 7+1 S/S	BTASAM-BT.PEDUKUH				3+1 S/S																		10 S/S			
BT.PEDUKUH-PO	8GHz 6+1 S/S	BT.PEDUKUH-PO				3+1 S/S																			9 S/S		
						S/S		S/S																	S/S		
						S/S		S/S																	S/S		
						S/S		S/S																	S/S		
						S/S		S/S																	S/S		
						S/S		S/S																	S/S		
						S/S		S/S																	S/S		
						S/S		S/S																	S/S		
						S/S		S/S																	S/S		









JICA