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PAGE 01 OF 04 AIT TA 04080 00 OF 06 100949Z
ACTION EAP-00

SHB1083

AIT TA 04080 00 OF 06 100949Z

SHB1083

INFO LOG-00 ADS-00 AID-00 AIT-03 AMAD-01 CIAE-00 COME-00
CTME-00 DODE-00 EB-00 EXIM-06 E-01 FRB-01 H-01
INRE-00 INR-01 ITC-01 JUSE-00 LAB-04 NSAE-00 OES-09
OMB-01 OPIC-08 SP-00 STR-18 TRSE-00 USIE-00 /059W
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FM AIT TAIPEI
TO AIT WASHDC PRIORITY
INFO AMEMBASSY TOKYO
AMEMBASSY SEOUL
AMEMBASSY BEIJING

UNCLAS TAIPEI 04080

AIT/W PASS EAP/RA/TC

E.O. 12356: N/A
TAGS: KSCA, KPRP, AIFA, TNGD, TSPL, TW
SUBJECT: MINISTRY OF ECONOMIC AFFAIRS'S 6-YEAR R&D PLAN

1. THE FOLLOWING PROVIDES THE BUDGET FOR TAIWAN'S
MINISTRY OF ECONOMIC AFFAIRS (MOEA) 6 YEAR R&D PLAN AS
WELL AS INITIAL 12 YEAR PLAN RESEARCH PROPOSALS. AN
ANALYSIS OF THE MOEA R&D BUDGET AND DEVELOPMENT STRATEGY
WILL FOLLOW SEPTEL.

PROJECTS PRESENTLY BEING UNDERTAKEN

1. ELECTRONICS AND INFORMATION TECHNOLOGY R&D PROJECT

UNIT: USD MILLION (USD! EQUALS APPROX. NTD27.5)

NAMES OF THE PROGRAMS	FY		TOTAL ESTIMATED EXPENDITURE
	BEGIN	END	
1) ELECTRONICS MATERIALS STUDY - 5-YEAR PLAN	1991	1995	43
2) SUB-MICRON PRODUCTION TECH - 5-YEAR PLAN	1991	1995	214
3) MICROELECTRONICS DEVELOPMENT - 4-YEAR PLAN	1989	1992	73
4) STRUCTURE OF ELECTRONIC - PRODUCTS, 4-YEAR PLAN	1990	1993	18
5) COMPUTER SYSTEM DEVELOPMENT - 5-YEAR PLAN	1992	1996	70
6) ELECTRONICS TECHNOLOGY IN - TELECOMMUNICATIONS, 4-YR PLAN	1990	1993	58
7) HIGH-QUALITY TV TECHNOLOGY - 5-YEAR PLAN	1992	1996	237
8) INFORMATION SOFTWARE - FOUR-YEAR PLAN	1989	1992	48
9) HUMAN-THINKING COMPUTER	1992	1996	70
10) PROMOTION OF INFORMATIONI- - ZATION, 5-YEAR PLAN	1992	1996	-&&
11) COMPUTER CENTER FOR ITRI	1992	1995	21
12) INDUSTRY TEST & SURVEY TECH- - NOLOGY, 5-YEAR PLAN	1992	1996	20
13) ELECTROPTICAL MATERIALS RE- - SEARCH, 5-YEAR PLAN	1991	1995	28
14) ELECTROPTICAL TECHNIQUE & - APPLICATION, 5-YEAR PLAN	1992	1996	56
15) ELECTROPTICAL INFORMATION - TECHNIQUE, 5-YEAR PLAN	1992	1996	41
TOTAL			997

-&& LESS THAN ONE MILLION

2. MACHINERY & AUTOMATION TECHNOLOGY DEVELOPMENT PROJECT

NAMES OF THE PROGRAMS	FY		TOTAL ESTIMATED EXPENDITURE
	BEGIN	END	
1) AUTOMATION MECHANISM R&D - 5-YEAR PLAN	1991	1995	26
2) AUTOMATIC SENSING TECHNIQUE - 5-YEAR PLAN	1991	1995	20
3) METALWORK AUTOMATION TECHNO- - LOGY, 5-YEAR PLAN	1991	1995	64
4) PRODUCTION AUTOMATION TECHNO- - LOGY, 5-YEAR PLAN	1991	1995	24
5) COMPUTER MANUFACTURING SYSTEM - R&D, 5-YEAR PLAN	1991	1995	42
6) MACHINERY MATERIALS APPLICA- - TION, 5-YEAR PLAN	1991	1995	42
7) PRECISION COMPONENT TECH - DEVELOPMENT, 5-YEAR PLAN	1991	1995	35
8) METAL MATERIALS TECH - DEVELOPMENT, 5 YEAR PLAN	1991	1995	36
9) INDUSTRIAL MACHINERY TECH - 5-YEAR PLAN	1987	1992	18
10) VEHICLE & COMPONENT TEST - 5-YEAR PLAN	1991	1995	109
11) DYNAMIC SYSTEM ON MOTOR - VEHICLES R&D, 5-YEAR PLAN	1992	1996	29
12) SHIPBUILDING TECHNOLOGY - 5-YEAR PLAN	1889	1992	10
13) PREPARATORY PLAN FOR FACILITY - FOR SHIP BUILDING RESEARCH	1992	1992	-&&
14) TEST FACILITY FOR AEROSPACE - INDUSTRY	1992	1992	3
TOTAL			458

3. MATERIALS & PROCESSING TECHNOLOGY DEVELOPMENT PROJECT

NAMES OF THE PROGRAMS	FY		TOTAL ESTIMATED EXPENDITURE
	BEGIN	END	
1) SPECIAL CHEMICAL PRODUCTS MANUFACTURE & USE R&D, 5-YR PLAN	1991	1995	23
2) FUNCTIONAL HIGH POLYMER - TECH DEVELOPMENT, 5-YR PLAN	1991	1995	32
3) FIBRE MANUFACTURE & APPLICA- - TION, Y-YEAR PLAN	1991	1995	38
4) TEXTILE TECHNOLOGY - 5-YEAR PLAN	1991	1995	21
5) DYEING INDUSTRY TECH DEVELOP- - 5-YEAR PLAN	1991	1995	33
6) UPGRADING OF CLOTHING INDUSTRY - 5-YEAR PLAN	1991	1995	36
7) HIGH-TEMPERATURE SUPER CONduc- - TOR RESEARCH, 4-YEAR PLAN	1990	1993	11
TOTAL			194

4. ENVIRONMENT AND RESOURCES TECH DEVELOPMENT PROJECT

NAMES OF THE PROGRAMS	FY		TOTAL ESTIMATED EXPENDITURE
	BEGIN	END	
-			

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UNCLASSIFIED
Department of State

INCOMING
TELEGRAM

PAGE 03 OF 04 AIT TA 04080 00 OF 06 100949Z
12) AEROSPACE INDUSTRY R&D - 5 YEAR-PLAN 1993 1998

SHB1083

AIT TA 04080 00 OF 06 100949Z
4) CONSTRUCTION TESTING TECH DEVELOPMENT 1993 1997
- 5-YEAR PLAN

SHB1083

3. MATERIALS & PROCESSING TECHNOLOGY DEVELOPMENT PROJECT

-	NAMES OF THE PROGRAMS	FY	
		BEGIN	END
1)	SPECIAL CHEMICAL PRODUCTS MANUFACTURE & USE R&D, 2ND 5-YEAR PLAN	1996	2000
2)	FUNCTIONAL HIGH POLYMER TECH DEVELOPMENT - 2ND 5-YEAR PLAN	1996	2000
3)	FIBRE MANUFACTURE & APPLICATION - 2ND 5-YEAR PLAN	1996	2000
4)	TEXTILE TECHNOLOGY - 2ND 5-YEAR PLAN	1996	2000
5)	DYEING INDUSTRY TECH DEVELOPMENT - 2ND 5-YEAR PLAN	1996	2000
6)	UPGRADE OF CLOTHING INDUSTRY - 2ND 5-YEAR PLAN	1996	2000
7)	HIGH-TEMPERATURE CONDUCTANCE RESEARCH - 2ND 5-YEAR PLAN	1994	1988
8)	NEW MATERIALS TECH R&D	1993	1997

4. ENVIRONMENT AND RESOURCES TECH DEVELOPMENT PROJECT

-	NAMES OF THE PROGRAMS	FY	
		BEGIN	END
1)	MATERIALS ACCESSION AND PRESERVATION - 2ND 5-YEAR PLAN	1996	2000
2)	INDUSTRY SAFETY AND DISASTER PREVENTION - 2ND 5-YEAR PLAN	1997	2001
3)	ANTI-POLLUTION TECH DEVELOPMENT - 2ND 3-YEAR PLAN	1994	1996
4)	IN-SHORE RESOURCES TECH DEVELOPMENT - 2ND 5-YEAR PLAN	1996	2001
5)	CONSOLIDATED INDUSTRIAL WATER USAGE - 5-YEAR PLAN	1993	1997

5. FOOD AND MEDICAL TECHNOLOGY DEVELOPMENT PROJECT

-	NAMES OF THE PROGRAMS	FY	
		BEGIN	END
1)	FOOD PROCESSING AND PACKAGING TECH - 2ND 5-YEAR PLAN	1994	1998
2)	MICROORGANISM PRESERVATION AND RESEARCH - 2ND 5-YEAR PLAN	1993	1997
3)	BIOTECHNOLOGY DEVELOPMENT AND PROMOTION - 2ND 5-YEAR PLAN	1994	1998
4)	PHARMACEUTICAL CHEMISTRY TECH DEVELOPMENT - 2ND 5-YEAR PLAN	1996	2000
5)	PHARMACEUTICAL INDUSTRY TECH DEVELOPMENT - 2ND 5-YEAR PLAN	1996	2000
6)	MEDI-CARE EQUIPMENT TECH DEVELOPMENT - 2ND 5-YEAR PLAN	1996	2000

6. CONSTRUCTION AND DESIGN TECHNOLOGY DEVELOPMENT PROJECT

-	NAMES OF THE PROGRAMS	FY	
		BEGIN	END
1)	CONSTRUCTION AND DESIGN TECH DEVELOPMENT - 5-YEAR PLAN	1993	1997
2)	ELETRICAL ENGINEERING DESIGN AND TECH DEVELOPMENT 5-YEAR PLAN	1993	1997
3)	CONTRUCTION MATERAILS TECH DEVELOPMENT - 5-YEAR PLAN	1993	1997

7. FUNDAMENTAL FACILITIES AND OVERALL TECH DEVELOPMENT PROJECT

-	NAMES OF THE PROGRAMS	FY	
		BEGIN	END
1)	INFORMATION SERVICE TO INDUSTRIES & ESTABLISHMENT OF DATA BANK, 5-YR PLAN	1994	1998
2)	ESTABLISHMENT OF INFORMATION SERVICE - NETWORK	1993	1995
3)	R&D PERSONNEL TRAINING 4-YR PLAN	1995	1998
4)	REGIONAL CONSOLIDATED R&D CENTER	1993	1997
5)	SPECIALTY TECH RESEARCH PARK	1993	1997
6)	INDUSTRY POLICY DECISION-MAKING STUDY - 5-YEAR PLAN	1986	1990
7)	PROMOTION OF INDUSTRY R&D	1997	2001
8)	SPECIAL INDUSTRY TECH DEVELOPMENT - WITH DURATION OF VALIDITY	1993	1997
9)	S&T PROMOTION PROGRAM BY THE MINISTRY OF ECONOMIC AFFAIRS	1993	1997
10)	DEVELOPMENT AND GUIDANCE ON MAINSTREAM PRODUCTS	1993	1993

FUNDING ESTIMATES

IN ORDER TO UPGRADE THE INDUSTRIAL TECHNOLOGY, MOEA MADE THE BUDGET FOR THE 6 YEAR PLAN TO SUPPORT INDUSTRIES'

DEVELOPMENT OF CRUCIAL TECHNIQUES, AS WELL AS TO ASSIST MANUFACTURERS TO EXPAND THEIR RESEARCH AND DEVELOPMENT. THE BUDGET AND THE CLASSIFICATIONS ARE INDICATED IN THE FOLLOWING TABLES.

THE MAIN ITEMS OF INCREASE IN THE NEW BUDGET VS. THE PRESENT EXPENDITURES ARE AS FOLLOWS:

1. FUNDS TO ESTABLISH "REGIONAL R&D CENTER" AND "R&D SPECIALTY PARK".

2. FUNDS TO PROMOTE R&D AMONG THE STATE-OWNED AND PRIVATE ENTERPRISES.

3. FUNDS TO ESTABLISH MUTUAL TECHNOLOGY DEVELOPMENT CENTER.

4. FUNDS TO SET UP OVERSEAS R&D AND PROMOTION CENTERS.

5. FUNDS SPECIALLY ALLOCATED FOR "CONSTRUCTION AND DESIGN".

6. FUNDS FOR LARGE-SIZED R&D PLANS OR FOR SETTING UP FACILITIES.

7. FUNDS TO IMPROVE THE FACILITIES AND HUMAN RESOURCES IN R&D ORGANIZATIONS.

MINISTRY OF ECONOMIC AFFAIRS S&T BUDGET

UNIT: USD MILLION (USD1 EQUALS APPROX. NTD27.5)

FISCAL YEAR	AMOUNT
1987	135
1988	160
1989	171

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Department of State

INCOMING
 TELEGRAM

PAGE 04 OF 04 AIT TA 04080 00 OF 06 100949Z
 1990 222
 1991 291
 1992 471
 1993 620
 1994 800
 1995 947
 1996 1,081
 1997 1,188

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NOTES: 1. FY87-91 - ACTUAL EXPENDITURES
 -- 2. FY92-97 - ESTIMATION

S&T DEVELOPMENT BUDGET

UNIT: USD MILLION (USD1 EQUALS APPROX. NTD27.5)

CATEGORY	BUDGET						92-97 TOTAL
	FY92	FY93	FY94	FY95	FY96	FY97	
ELECTRONICS & INFORM.	170	198	240	265	292	309	1,474
MACHINERY & AUTOM'N	69	81	112	142	162	178	744
MATERIALS & PROCESS	38	93	120	142	162	178	733
ENVIRONMENT & RESOURCES	16	25	40	57	76	95	309
FOOD & MEDICINE	37	56	80	95	108	119	495
CONSTRUCTION & DESIGN	0	6	24	47	65	83	225
FUNDAMENTAL FACILITIES	141	161	184	199	216	226	1,127
TOTAL	471	620	800	947	1,081	1,188	5,107

NOTES: THE ABOVE S&T BUDGET INCLUDES:
 (1) FUNDS FOR R&D PROJECTS CONSIGNED TO CORPORATE BODY;
 (2) FUNDS FOR R&D PROJECTS CONSIGNED TO PRIVATE SECTOR;
 (3) FUNDS FOR IMPROVEMENT OF ENVIRONMENTAL R&D AND R&D
 PROMOTION

HALLFORD