No. 24

JAPAN INTERNATIONAL COOPERATION AGENCY

DAMASCUS CITY WATER SUPPLY AND SEWERAGE AUTHORITY SYRIAN ARAB! REPUBLIC

THE STUDY
ON
THE DEVELOPMENT OF WATER SUPPLY SYSTEM
FOR
THE DAMASCUS CITY

PHASE II

VOLUME IV

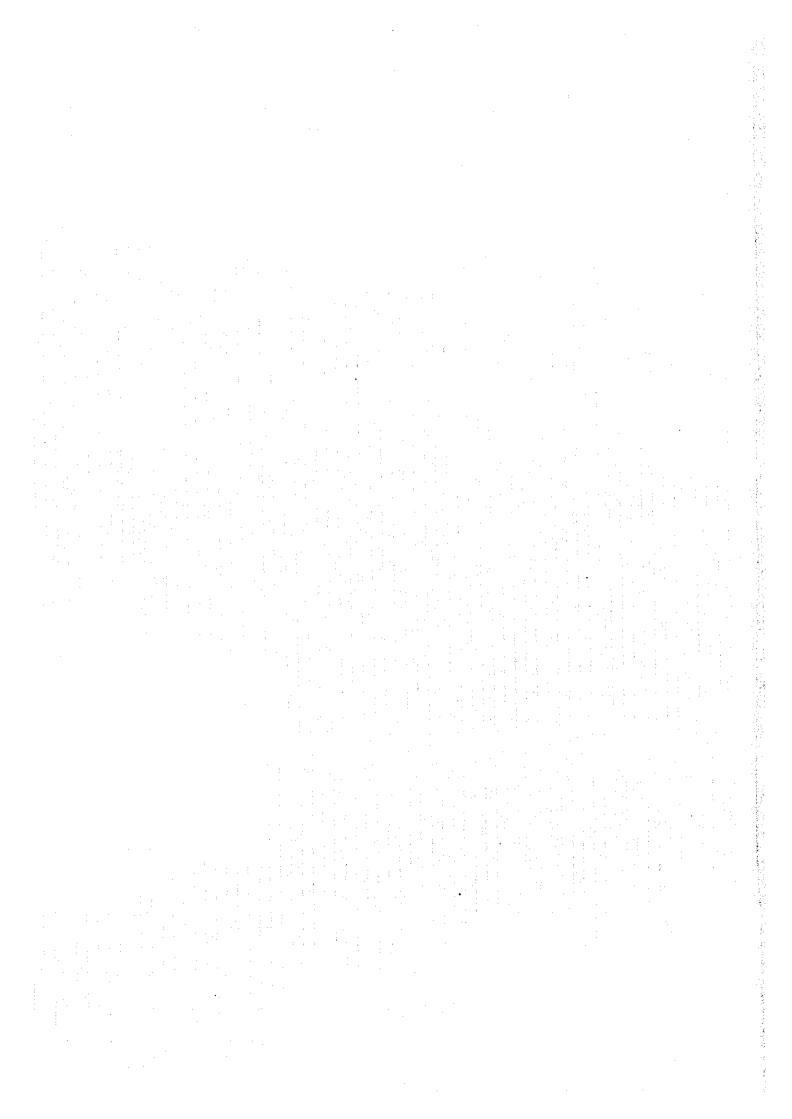
FINAL REPORT DATA BOOK

DECEMBER 1997



NIPPON KOEL CO., LTD

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### **ESTIMATE OF PROJECT COST**

Estimate of Base Cost : as of July 1997 Price Level

Currency Exchange Rate: US\$1 = SL45 = Yen 115

### LIST OF REPORTS

**VOLUME I** EXECUTIVE SUMMARY

VOLUME II MAIN REPORT

VOLUME III SUPPORTING REPORT

APPENDIX A DMA SYSTEM

APPENDIX B MEZZE-RAZY & KAFAR SOUSEH-LAWAN SYSTEM

APPENDIX C WATER QUALITY AND ENVIRONMENT

APPENDIX D ECONOMIC AND FINANCIAL EVALUATION

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### VOLUME IV DATA BOOK

DATA BOOK 1 DMA FIELD SURVEY DATA

DATA BOOK 2 TOPOGRAPHIC MAPS OF MEZZE-RAZY & KAFAR SOUSEH-LAWAN AREA

DATA BOOK 3 QUESTIONNAIRE OF INTERVIEW SURVEY ON MEZZE-RAZY & KAFAR SOUSEH-LAWAN

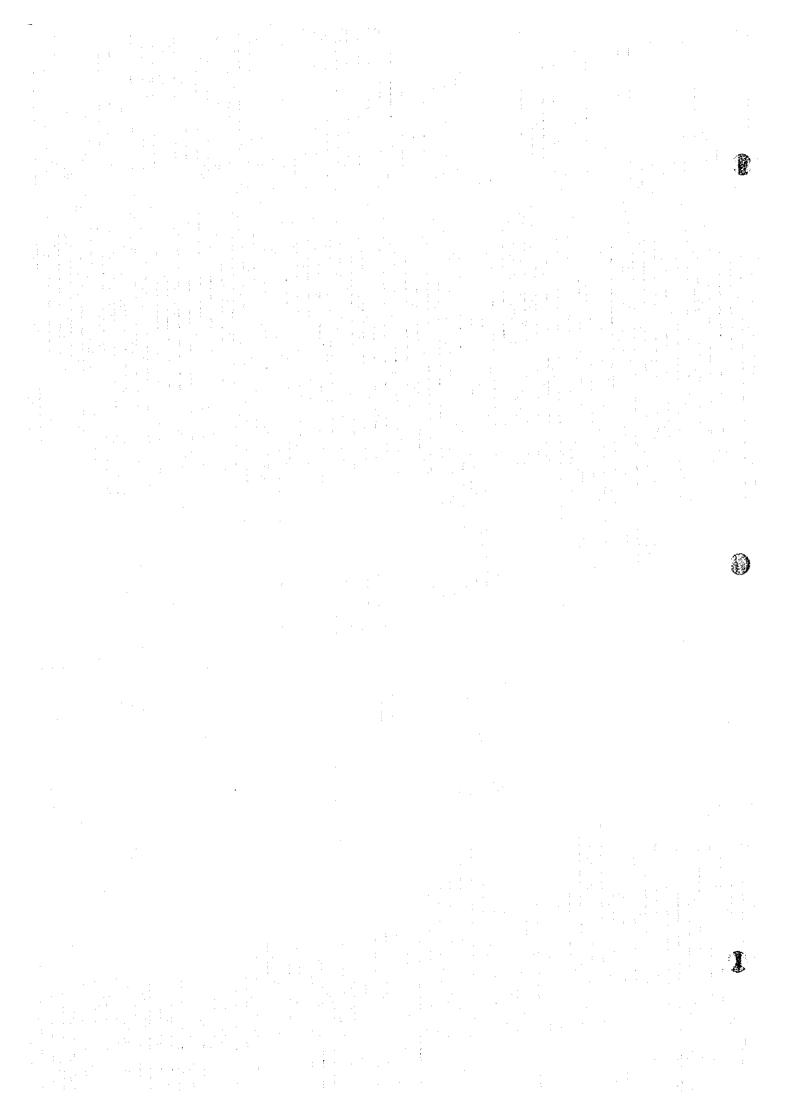
DATA BOOK 4 WATER QUALITY AND ENVIRONMENT DATA

DATA BOOK 5 EXISTING WATER SUPPLY FACILITIES

DATA BOOK 6 COST DATA

DATA BOOK 7 METER READING AND BILLING DATA

DATA BOOK 8 LIST OF COLLECTED DATA



### **ABBREVIATIONS**

### **Organizations**

ACSAD - The Arab Center for the Studies of Arid Zone and Dry Lands

BRGM - Bureau de Reche rche Geologique et Miniere, France

CBS - Central Bureau of Statistics

CGE - Compaginie Generale des Eaux, France

DAWSSA - Damascus City Water Supply and Sewerage Authority

EDWSSR - Establishment of Drinking Water Supply and Sewerage in the Rural

Province of Damascus

EPEF - Establishment Public Des Eau De Damas (Figeh)
HIAST - Higher Institute of Applied Sciences and Technology

IED - Industrial Establishment for Defense

JICA - Japan International Cooperation Agency

MHU - Ministry of Housing and Utilities

MOI - Ministry of Irrigation
MOF - Ministry of Finance
SAR - Syrian Arab Republic

SPC - The State Planning Commission STE - Syrian Telephone Exchange WHO - World Health Organization

### Others

CIP - Cast Iron Pipe

CIS - Customer Information System
DBMS - Data Base Management System

DIP - Ductile Iron Pipe
DMA - District Meter Areas

EIA - Environmental Impact Assessment
EIRR - Economic Internal Rate of Return

FLS - Financial Ledger System

FMIS - Financial Management Information System

GDP - Gross Domestic Product

GIS - Geographical Information System
- Hand-held Data Entry Terminals

H/W - Hardware

IEE - Initial Environmental Evaluation

LAN - Local Area Network

LIMS - Laboratory Information Management System

MIS - Management Information System
MMS - Maintenance Management System

ND - Nominal Diameter NPV - Net Present Value

O&M - Operation and Maintenance

OS - Operating System
PB - Polyethylene
PVC - Polyvinyl Chloride
SGP - Steel Galvanized Pipe

S/W - Software

SCADA - Supervisory Control and Data Acquisition (System)

UAS - Unified Accounting System
UFW - Unaccounted for Water

UPS - Uninterrupatble Power Supply System

VAT - Value Added Tax

# ABBREVIATIONS OF MEASUREMENT

			·		
Lengt	h		Electrica	l Me	easurement easurement
mm	=	millimeter	$\mathbf{v}$	==	Volt
cm <sub>.</sub>	==	centimeter	·A	==	Ampere
m	=	meter	Hz	<b>=</b>	Herz
km	, =	kilometer	w	= .	Watt
			kW	=	kilowatt
			MW	=	Mcgawatt
Arca				• • •	
cm²	==	square centimeter	Other Mo	asur	es
$m^2$	==	square meter	%	=	percent
ha	=	hectare	HP	=	horsepower
km²	== .	square kilometer	°C	. =	Celcius degree
Volun	16		Derived 1	Vicas	sures
cm <sup>3</sup>	=	cubic centimeter	1/s	= 1	liter per second
1	=	· liter	m³/s	= 1	cubic meter per second
m³	==	cubic meter	m³/h	=	cubic meter per hour
MCM	=	million cubic meter	m³/d	=	cubic meter per day
		•	lpcd	= .	liter per capita per day
			kgf/cm²	=	kilogram forceper square centimeter
Weigh	ıŧ		kWh	=	kilowatthour
mg	==	milligram	MWh	=	mcgawatthour
g	=	gram	kVA	:	kilovolt ampere
kg	=	kilogram	mg/l	==	milligram per liter
			μg/l	=	microgram per liter
Time			mcq/l	=	milliequivalents per liter
s	=	second	μS/cm	=	microsiemens per centimeter
กรเก	=	minute			
h	==	hour	Currency		
d	=	day	US\$	=	US Dollar
<b>y</b>	==	year	SL	<b>:</b>	Syrian Pound
		-			

# **CURRENCY EQUIVALENT**

(as of July 1997)

US\$1 = SL 45.0

# TRANSLITERATIONS OF ARABIC PLACE NAMES (1/2)

	Atmairin		Beit Jenn
عباسيين	Abasiyin	بیت جن	
أبر زاد	AbuZad	بیت ئیما	Beit Tima
أشرنية	Achrafye	برزا	Berze
عين عربنات	Ain Awenad	باردان	Bloudan
عين بدا	Ain Beda	بنين	Boukein
عين حبيب	Ain Habib	دحاديل	Dahadil
عين حداد	Ain Hadad	دار العلمات	Dat al Moalimat
عين حارؤش	Ain Haroush	داریا	Daraya
عبن حور	Ain Hour	دير مغرن	Deir Moukaren
عين عيسي	Ain Issa	دير العشاير	Deir al Ashayer Shahour
عين نورية	Ain Nourich	حوض النشنيت	Dissipation Basin
غين وضوان	Ain Roudwan	دربل	Dourbol
عين صبا	Ain Saba	دمو	Dummar
عبن مالح	Ain Saich	عسال	El Esaly
عين الباردة	Ain el Baradeli	الغوار	El Fawar
عبن الخضرة	Ain el Khadra	الغيض	El Feid
عين المالمة	Ain el Malha	حفيرية	El Hafirich
عبن الصاحب	Ain el Saheb	illi	El Hame
عبن النينة	Ain el Tinch	المرق	El Irk
أكراد	Akrad	الشواط	El Shuwhat
حانع القصاب	Al Aksab Mosque	عن الورور	Esh al Wanvar
الضاحية	Al Dahia	فاسريا	Fastaya
الخرز	Al Khadra	نبع النيحة	Figeh Spring
المشارع	Al Mashare	فراسكن	Fraskin
النزاز	Al Qazzaz	الغوطة	Gliouta
المهل	Al Sahi	حنير الغوثة	Hafir el Foka
عرطوز	Ailooz	حاليا	Halaya
تدم عسال	Asalie Kadam	٠٠٠٠٠	Hassibelt
الاعوج	Awaj	-دسيلسة	Hoseiniyeh
باب مملي	Bab Mosallah	ابن النفيس	Ibn Alnafeas
ياب شرقي	Bab Sharki	ابن عساكو	Ibii Assaker
باب السلام	Bab el Salam	بحناني	Janani
شارع بنداد	Baghdad Street	بحرمانا	Jaramana
بردی	Barada	جرايا	Jemarya
بسانين	Basatcen	بحو بر	Jobar
lagod	Bassime	جوبر عكاش	Jobar Akache
<del></del>		<del></del>	<del></del>

# TRANSLITERATIONS OF ARABIC PLACE NAMES (2/2)

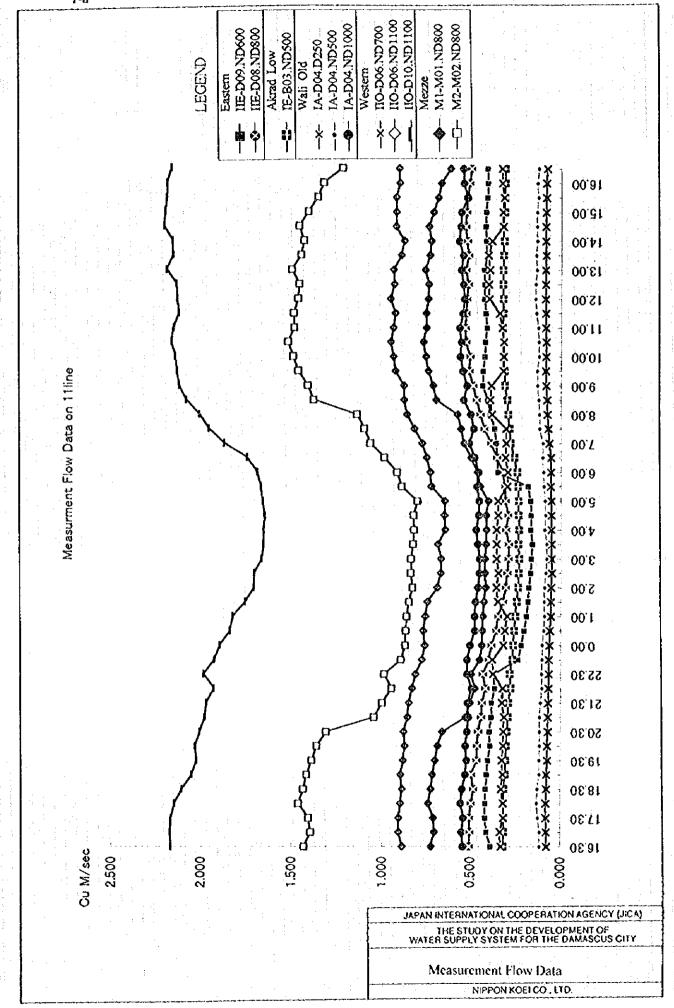
جوبر عمادية	Jobar Imadye	ئطينا	QutayIch
حوبر لباسي	Jobar Kabani	رنكوس	Rankous
حرحانية	Jourjaniyeh	رأس الحاجب	Ras Hasib
ئابون	Kaboon	رأس الوادي	Ras el Wadi
ئدم	Kadam	الرازي	Razy
كفرسوسة	Kafar Souseh	نب	Rimeh
كغر العوامية	Kafar el Awamid	ركن الدين	Rukn Aldyn
 دران	Kanawat	سعسع	Saasaa
ناسون	Kassioun	مغسانة	Safsafi
نطنا	Kalana	مردا	Sarada
الكرش	Kersh	ساروجة	Sarouja
عان الفندق	Khan el Founduk	ميان	Sayafeh
خور شباد	Khorshead	سيبراني	Sebrani
ندسیا	Kudsaya	مردنایا	Sednaya
کیران	Kywan	داغرر	Shaghour
 لوان	Lawan	شعاب	Shakhab
معارلا	Maaloula	ينابيم حانبية	Side Spring
 معرونة	Maaroune	سومرية	Somarcych
مضابا	Madaya	سبرونکس	Syronics
مهدي بن برکة	Mahadi Bin Baraka	طبالة	Tabbalch
شارع المالكي	Malki street	طبيبة	Tabibiych
مزرعة	Махгаа	تضامن	Tadamoun
میساون	Meisaloun	نندې	Takadom
لمبح	Membej	تلدية	Talmasich
 مزة	Мегле	نکی	Tckich
ميدان	Midau	الدينة القدية	The Old City
منين	Mnin	تثربن	Tishteen
غ. م *	Mokhayam	ક્ષ્ટ્રોના દેવની	University City
 مهاجرین	Mouliajrcen	رادي مرران	Wadi Marwan
النبوع	Naboua	الوالي	Wali
نهر عيشة	Naher Esheh	يعاور	Yaafoor
ناظم باشا	Nazem Basha	برموك	Yarmouk
النيك	Neuk	زيداني	Zabadani
أبية	Omayad		
انزین	Oumawiyin		<del></del>
منطنة الرئاسة	Presidential Area		

# DATA BOOK 1

# DMA FIELD SURVEY DATA

- 1-a Measurement Flow Data
- 1-b Measurement Pressure Data
- 1-c Location of Flow Monitor
- 1-d DAWSSA's Pressure Records

A SE







# Install Check List

MEASUERMENT LINE CORD	ПЕ-009. D600	HE-DO8. D800	I E-B03. D500	I A-D04. D250 I A-D04. D500 I A-D04. D1000	004. D500 I	A-D04. D1000
Instalation Date	Mav, 18, 97	May, 18, 97	May, 19, 97	May, 18, 97	Mav, 20, 97	May, 18, 97
Pipe 0/D	627.75mm	843. 63mm	511.78mm	276.91mm	519.10mm	1077. 70mm
Pipe Material	Steel	Steel	Steel	Steel	Steel	Steel
Wall Thicknes	7 mm	1.5mm	5. 5mm	7mm	6. 5mm	10mm
Liner Material	None	None	None	None	None	None
Liner Thicknes						
Measurment V/S	1464.52m/SEC	1453.18m/SEC	1469.73m/SEC	1481. 33m/SEC 1460. 62m/SEC	30. 62m/SEC	1456.27m/SEC
Ultrasonic wave reception signal	45%	64%	40%	63%	46%	56%
Aar Content	45%	12%	12%	10%	14%	5%
Signal mV	15	84	6	74	16	39
Measuerment Unit	K CubicMeter	CubicMeter K CubicMeter		K CubicMeter K CubicMeter K CubicMeter	CubicMeter	K CubicMeter
Loggering Interval	lmin	Imin	lmin	lmin	lmin	lmin

MEASUFERMENT LINE CORD	II 0-D05. D700	II 0-D06. D1100	Д 0-D10.D1100 Л	HO-DOS. D700 HO-DOS. D1100 HO-D10. D1100 M1-MOZ. D800 M2-M01. D800	(2-M01, D800	
Instalation Date	May, 18, 97	Mav. 18, 97	May, 19, 97	May, 18, 97	May, 18, 97	
Pipe 0/D	723.88mm	1121.6mm	1121.6mm	817.19mm	817.19mm	
Pipe Material	Steel	Steel	Steel	Steel	Steel	
Wall Thicknes	6. 5mm	15.0	15.0mm	7. 3mm	7. 3mm	
Liner Material	None	None	None	None	None	
Liner Thicknes						
Measurment V/S	1462.63m/SEC	1421.52m/SEC	1427.66m/SEC	462. 63m/SEC 1421. 52m/SEC 1427. 66m/SEC 1454. 65m/SEC 1457. 25m/SEC	1457.25m/SEC	
Ultrasonic wave reception signal	39%	47%	40%	34%	51%	
Aar Content	52%	10%	14%	102%	%9	
Signal mV	∞	11	6	3	25	
Measuerment Unit	K CubicMeter		K CubicMeter	K CubicMeter K CubicMeter K CubicMeter K CubicMeter	K CubicMeter	
Loggering Interval	lmin	lmin	lmin	luin	1min	

	2	2	7		-			2		2	
17, 00	0.410	0.503	0.313	0.078	0.113	0.550	0, 335	0.904	2.171	0.704	1.394
	0.418	0.507	0,313	0,080	0.124	9,539	0.317	0.904	2, 166	0.710	1.405
	614.0	0. <del>1</del> 96	0.317	0.080	0, 131	0.555	0.318	0.895	2.148.	0.739	1.463
		0.185	0.314	0,075	0. 127	0.546	0, 3291	0.885	2.106	0, 725	1.435
٥	0.411	0. 197	0.309	0.077	0, 116	0.530	0.319	0.895	2,051;	0.716	1.417
٥	0.405	0.167	0.305	0.073	0, 118	0, 522	0, 325	0.881	2, 025	0, 701	1.389
	0, 392	0.464	0.300	0.074	0. [15	0.530	0.317	0.872	2, 033	0.687	1.360
	0.396	861.0	0, 299	0.070	0, 116	0.521	0.318	0.878	2, 007	0.661	1.309
٥	0, 387	0, 443	0.292	0, 071	0, 116	0.512	0.314	0.856	1.981	679.0	1.048
5	0.385	6:::0	0.797	590.0	0.112	0.518	0, 326	0.849	1, 972	0, 506	1.002
0	0.368	0, 120	0, 279	0.068	0, 103.	0.497	0, 323	0.831	1, 930	0.478	0.948
	0.375	0.435	0.283	0.067	0.106	0.523	0.378	0.813	1.988	0.500	0.880
٤	0, 737	0. 102	0.270	0,067	0, 104.	0.573	0.381	0. 777	1.928:	0.451	0.894
2	0, 221	0, 387	0.264	0,04%	0.102	0.505	618.0	0.761	1.895	0.439	0.870
Į,	0.203	0.360	0. 259	0,061	0.095	0.479	0.312	0.770	1.841	0,438	0.867
2	0, 189	0, 339	0.253	0,056	680.0	0.480	0.298	0.758	1.827	0.435	0.861
	0.182	0.823	0.246	0.055	0.093	0.474	0.351:	0.745	1. 758	0.429	0.845
8	0.175	0.307	0, 237.	0,054	0.089	0.46%	0.359	0,691	1.711	0.419	0.825
2,30	0. [57	667.0	0. 734	0.00	0,084	0.452	0,348	0.671	1, 710	0.423	0.835
300	0, 163	0.791	0.231.	0,051	0.079	0. 452	0.358	0.670	1.658	0.423	0.838
<u>چ</u>	0. 158	0.289	0.736	0, 051	0,078	0.463	0, 358	0.687	1.659	0.417	· 0 826
00 +	0, 166	0.306	0.233	0.053	050.0	0.472	0.358	0.648	1.658	0.414	0.871
4.30	0.164	0.242	0.734	0.053	0.085	0.456	0.350	0.651	1,653	0.416	0.823
00 °	0, 168.	0.308	0.735	0.052	0, 088.	0.151	0.351	0.651	1, 666	0,405	0.80%
.≅	0.181	0.311	0.237	0.057	0, 093	0.467	0.299	0.725	1.675	0.450	0.89
6.00	0, 350.	0.322	0.242	0.055	0.097	90.108	0.296	0.732	1, 695	0.464	0.919
	0.355	0.356	0.258	0,056	0.101	0.480	0.307	0, 750;	1.750	0,501	0.992
် ဇ္	0.381	0.390.	6. 279	0.061	0.100	0.511	0.304	0.777	1,878	0.541	1.077
õ	0.371	0.428	0, 787	690.0	0, 118	0.486	0.305	0.821	1, 964	0.558	1. 106
8	0, 394	0.451	0.294	0.075	0. 120	0.503	0, 381	0.862	2.015	~0.578	i. 146
ဒ္ဓ	0, 409	0.471	0.299	0.077	0.124	0.543	. 0,396	0.880	7. 050	0, 700	1.383
9.00	0.438	0.191	0.314	0.083	-0.131	0.624	0.389:	0.882	2, 130,	0.717	1.419
8	0.435	0.512°	0.317	0.085	0.132	0.548	0.322+	0.931	2, 142	0. 744	1.475
10.00	0, 426	0.509	0.321	0.084	0. 122	0. 552	0, 321	0.943	2, 151	0,759	1 50%
8	0.424	0.531	0.321	0.083	0. 123	0,557	0, 320	0.959	2.173	0.773	1.531
8	0.415	0.535	0.327	0.0%	0.126	0.567	0, 329	0.943	2, 161	0, 755	35
30	0.421	0. 521	0.322	0.035	0. 138	0.548	0, 3/13	0.932	2, 132	0.757	1.000
9	0, 428	0. 527	0.322	0.086	0, 1413	650.0	0.402	0.960	2, 141	0.745	1. 47
30	0.427	0.518;	0.325	0.086	0.142	0.545	0.404:	. 0, 938	2, 140	0,742	1.469
8	0, 430	0.532	0, 323	0.087	0.134	0.558	0, 399	0.942	2, 200	0.762	1.510
ã	0.414	916.0	0, 322	0.084	0, (39	0.546	0, 108	0.899	2, 164	0. 737	1.460
ခြ	0.419	0.626	:618.0	0.086	0.133	0.571	0.388	0.882	2, 168:	0, 729	1. 444
ĺ,	0.423	0.535	0.325	0.086	0.135	0.562	0.321	0.929	2.217	0.743	1 47
8	0.421	0.529	0.317	0.085	0, 135.	0.558	0, 326	0.928	2.210	0.717	1 1%
Ö.	0.413	0. 523	0.317	0.084	0.128	0, 523	0.320	0.928	2, 201	0.690	1.36
2	0.411	0.513	0.313	0.082	0.134	0.533	6.334	0.50%	75.7	0.673	1.33
	:										

Measurment flow data at P/A Wet season

					100000					
Date	06.13.97	06.13.97	06.13.97	06.13.97	06.13.97	06.13.97	06.13.97	06.13.97	06.13.97	06.13.97
Time	1. D250mm	2. D200mm	3. D600mm	4. D300mm	5. D300mm T	Total	6. D300mm	7. D400mm	8. D200mm	Sub Total
	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec
80.6		0.012	0.562	0.102	-0.036	0.684	0.198	0.390	0.103	969'0
10:00	0.008	00:0	0.569	0.114	-0.043	1.476	0.198	0.404	0.113	
 8:			0.574	0.119	-0.045	1.508	0.196	0.410.	0.116	0.722
12:00		1 : .	0.583	0.123	-0.045	1,515	0.192	0.415	0.122	0.729
13:00	0.008	0.001	0.584	0.129	-0.048	1.511	0.191	0.419	0.123	0.733
14:00			0.582	0.123	-0.051	1.480	0.194	0.415	0.126	0.735
15:00	0.008		0.582	0.120	-0.050	1.468	0.194	0.414	0.123	0.731
16:00		0.00	0.581	0.113	-0.043	1.467	0.194	0.418	0.119	0.731
17:00			0.580	0.118	-0.047	1.467	0.195	0.419	0.120	0.734
18:00		0.010	0.583	0.113	-0.047	1.473	0.195	0.423	0.120	0.738
19:00			0.587	0.116	-0.050	1.461	0.197	0.424	0.118	0.739
20:00				0.115	-0.047	1.450	0.196	0.417	0.116	0.729
21:00				0.114	-0.045	1.427	0.194	0.413	0.118	0.725
22:00			0.578	0.107	-0.043	1.421	0.193	0.420	0.1:9	0.732
23:00	0.007		0.568	0.108	-0.043	1.388	0.189	0.420	0.119	0.728
8		0.012	0.559	0.103	-0.040	1.352	0.182	0.411	0.114	0.707
ë			0.544	0.093	-0.037	1.301	0.176	0.386	0.110	0.672
\$30	0.00	0.015	0.529	0.087	-0.032	1.263	0.169	0.371	0.105	0.645
ဝ္ပင္ပ		0.015	0.514	0.081	-0.029	1.237	0.164	0.353	0.100	0.617
4:00		0.015	0.509	0.081	-0.026	1.238	0.162	0.350	0.10	0.612
5:00		0.014	0.507	0.079	-0.024	1.236	0.163	0.346	660.0	0.608
8.9		0.015	0.515	0.081	-0.026	1.285	0.171	0.358	0.099	0.628
2.8		0.014	0.530	0.087	-0.026	1.342	0.180	0.380	0.102	0.662
88		0.013	0.547	0.099	-0.032	1.419	0.186	0.388	0.105	0.679
00:6	,		0.564	0.108	-0.036	1.461	0.193	0.399	0.110	0.702

# Measurment flow data at P/A Dry season

Date	08.08.97	08.08.97	08.08.97	08.08.97	08.08.97	08.08.97	08.08.97	08.08.97	08.08.97	08.08.97
Time	1 D250mm	2. D200mm	3. D600mm	4. D300mm	5. D300mm	Total	6. D300mm	7. D400mm	8. D200mm	Sub Total
	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec	CUM/Sec
00:6	900.0	0.005	0.521	0.053	0.093	1.324	0.201	0.408	0.112	0.721
10:00	0.006	0.003	0.568	0.053	0.103	1.341	0.207	0.445	0.122	0.774
8		-0.006	0.533	0.054	0.111	1.355	0.213	0.443	0.128	0.784
12:00		-0.005	0.558	0.054	0.116	1.406	0.201	0.439	0.125	0.765
13:00	0.007	600.0-	0.562	0.054	0.124	1.393	0.200	0.441	0.128	0.769
14:00	900'0	-0.006	0.565	0.055	0.117	1.377	0.199	0.446	0.130	0.775
15:00			0.561	0.055	0.113	1.362	0.203	0.449	0.131	0.783
16:00			0	0.056	0.112	1.373	0.203	0.450	0.128	0.781
2,0			0.568	0.056	0.114	1.370	0.207	0.443	0.126	0.776
18:00	900'0	1	0.564	0.057	0.113	1,364	0.200	0.440	0.124	0.764
19:00			0.563	0.057	0.112	1.355	0.205	0.442	0.125	0.772
20:00			0.560	0.057	0.109	1.338	0.210	0.440	0.124	0.774
21:00	900'0		0.559	0.058	0.108	1.336	0.202	0.438	0.122	
22:00			0.554	0.058	0.105	1,303	0.204	0.436	0.121	0.761
23:00			0.566	0.059	0.104	1.354	0.196	0.423	0.117	0.736
0:00			0.562	0.059	0.101	1.268	0.193	0.425	0.117	0.735
. 8			0.517	0.059	0.091	1.185	0.191	0.422	0.118	0.731
2:00		0.004	0.498	0.060	0.081	1.167	0.186	0.404	0.113	0.703
3:00	0.005		0.495	0.060	0.078	1.157	0.177	0.380	0.108	0.665
4:00	0.005		0.488	090'0	0.075	1.151	0.175	0.374	0.105	0.654
2:00			0.489	090.0	0.075	1.154	0.171	0.373	0.103	0.647
9:00	0.005	0.007	0.498	0.061	0.077	1.166	0.182	0.385	0.104	0.671
7:00			0.516	0.061	0.087	1.199	0.187	0.393	0.107	0.637
8:00	0.005	:	0.543	0.061	0.092	1.240	0.191	0.403	0.107	0.701
9:00		0.002	0.529	0.062	0.099	1.224	0.198	0.420	0.112	0.730

### MEASUREMENT PRESSURE DATA

ſ		75.75	7.0	LACI	Na no	nion.	100.6				<del></del>	,	· · · · · · · · · · · · · · · · · · ·
٠					ENT PE		IYATAY'	97 to 217	MAY'97		Labele of Torre		5 . A . N .
					DIO PI		D06-P1	DOS-P1	V101-51	D10-P2	D10-P3	D10-P4	D10-P5
1	DATE	Ţ	ime	KgUCm	Kgf/Cnya	Kgl/Cm.	Kg&Cm.	Kgf/Cm	Kgt/Cm	Kgi/Cm,	Kgf/Cm	Kgf/Cm.	Kgt/Cm6
	3/19		.00	2.3	- 56							·	
			:30		3.8							: ↓	
			:00							1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
			:30			8.3	4.5	}	! ! !: #: #: #:	<b>.</b>		,	
			:00		3.6		4.5	L	3.0				
			3:30	2.5	3.7				3.0				
			00.1			8.1	4.5	6.2	3.0	3.9			
		14	30	2.4	3.6	8.0	4.5	6.2				3.5	1.9
		15	.00	2.4	3.6	8.0	4.3	6.2	3.0	3.9		3.5	1.9
			30		3.6	8.0	4.3	6.2	3.0	3.9		3.7	1.8
			00	2.4	3.8	8.0	4.3					3.5	
	1. 1		30		4.0	8.0		6.2	3.0			3.5	
			.00		4.0	8.0	4.3	6.2	3.0			3.4	
			30	2.4	4.0	0,8		6.2	3.0		4.6	3.4	
			.00	2.4	4.0	8.0	4.2		3.0				1.8
			30	24	4.0	8.2	4 2		3.0		4.5		
	,		00	2,4	4.0		4.2	6.0	3.0				
			30		4.0	8.0	4.5		3.0	4.1		3.7	
			00		4.2	8.0	4.5	6.0	3.2	4.2			2.0
			30		4.2		4.5	6.1	3.4	4.3			2.2
		21	:00	2.5	4.2	8.0	4.5	6.1	3.4	4.3	4.8	4.0	2.4
		21	:30	2.5	4.3	8.0	4.5	6.1	3.5	4.4	49	4.0	2.4
		22	00	2.5	4.2	8.0	4.8	6.2	3.5	4,5	5.0	4.0	2.4
		22	:30		4.0		5.0	6.2	3.5		5.2	4.1	2.5
			:00	2.6	4.2	8.1	5.0	6.2	3.6		5.3	4.5	2.5
		23	30	2.6	3.1	8.0	5.0	6.3	3.7		5.1		2.5
-	5/20		00,	2.6	4.3	8.0	5.0	6.3	4.0		3.4	4.5	2.6
- [			30	2.7	4.4	8.0	5.2	6.5	4.0		5.6		
-			00	2.8	4.5	8.3	5.3	6.5		5.0	5.7	5.0	
		: - · · - <del>1</del>	:30	2.8	4.6	8.1	5.2	6.7	4.1	5.0	5.8	5.0	3.4
•			.00		4.8	8.1	5.2	6.9	4.2		6.0		
			30	2.9	4.9	8.0	5.2	6.9	4.3				
		ว	.00	3.0	5.0		5.4	7.0	4.3	5.0	6.0		3.6
			30	30	3.1	8.0	5.2	7.0	43	5.3			3.7
			00	3.0	5.0	8.0	5.2	7.0	4.3	5.2			
			30	3.0	3.0	8.0	5.2	7.0	4.3	5,2	6.2		
			00	3.0		8.0	5.2	7.0	43		6.2		
			30	3.0			5.2	7.0	4.3		6.2	5.1	3.7
			.00			8.0	5.2		4.1	5.0	6.2	4.9	
				3.0	5.0	8.0		7.0					
			:30	3.0		8.0	5.2	7.0	3.8		6.1	4.7	
	.		.00	3.0	4.9	8.0	5.1	7.0	3.6	4.7	6.2 6.0	4.5 4.3	3.0
			:30	2.8		8.0	5.0	6.5					
			00	2.8		8.0	5.0	6.5	3.1				
	• •		30	28		8.0	5.0	6.5					
1			.00	2.7	4.0	8.0	4.9	6.3	2.9				
	.		30	2.6		7.9	4.7	6.3	2.9	4.3			
ļ			.00	2.5	3.7	7.8	4.7	6.3	2.9	4.2	4.8		
			.30	2.5 2.5	3,5	7.9	4.5	6.3	2.9				
1			.00	2.5	3.4	8.0	4.5	.6.3	2.9		4.5	3.5	2.1
1		, II	:30	2.5	3.5	8.0	4.5	6.3	2.9		4.5		
1			:00	2.5	3.4	8.0	4.5	6.3	2.9		4.5		2.0
į	:		:30	2.5	3.4	8.0	4.5	6.3	2.9	4.0	4.5	3.5	
1			00	2.5	3,4	8.0	4.5	6.3	2.9	4.1	4.5	3,5	2.0
1	1		:30	2.5	3.4	8.0	4.3	6.0	29	4.2	4.5		2.0
ı			.00	2.5	3.4	8.0	4.5	6.0	3.0		4.5		
			:30	2.5	3.4	7.9	4.5	6.0	3.0		4.6	3,6	
ı	; [		.00	2.5	3.4	7.9	4.5	6.0	3.0		4.5		
-	:   <b>[</b>	15	:30	2.4	3.2	7.9	4.6	6.0	3.0	4.4	4.5		
1	'		.00	2.4	3,4	7.9	4.7	6.0	3.0		4.6		2.1
-			:30	2.5	3.4	7.9	4.7	6.0	3.0	4.4	4.7		
ı			00	2.3	3.5	<b>7</b> .9	4.8	6.0	3.0	4.4	4.9		
1		17	:30	2.5	3.5	7.9	4.7	6.0	3.0	4.4	4.8	3.8	2.2
į	· .	18	00	2.5	3,5	7.9	4.7	6.0	27	4.4	4.8	4.0	2.2
		18	30	2.3	3.3	7.9	4.8	6.3	2.8	4.4	4.9		2.3
ı		19	00	2.5	3.5	7.9	4.8	6.3	3.0	4.4	4.9	4.0	2.4
		19	30	2.5	3.6	7.9	4.7	6.2	3.1	4.4	5.0		2.4
ı	Ì		.00	2.5	3.7	7.9	4.5	6.2	3.1	4.4	3.0		2.4
١		20	30	2.5	3.7	7.9	4.4	6.2	3,3	4.4	5.0	4.0	2.4
1	1					1							

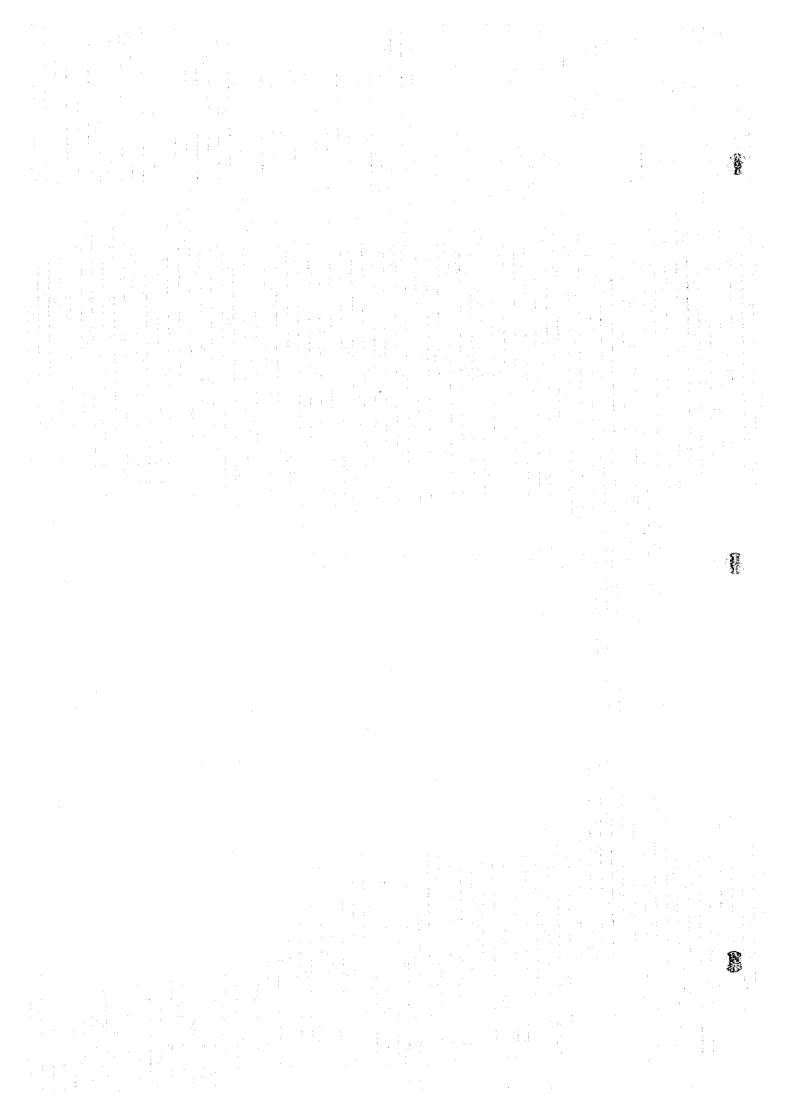
## MEASUREMENT PRESSURE DATA

i				ENT PE		19May	97 to 21	MAY'97	• <del></del>			1
		PointNo	B03-P1	D10-P1	D04-P1	D06-P1	D05-PI	MOI-PI	D10-P2	D10-P3	DIO-P4	
	DATE	Time	Kg@Cni2	Kgt/Cm2	Kgf/Cm2	Kgl/Cm/	Kgt/Cm	Kg//Cm.	Kgf/Cm	Kgf/Cni4	Kgt/Cm	Kgf/Cm6
	5/20	21.00	. 2.3	3.7	1.9	1.5	6.3	3.5	4.5	5,0	4.1	2.4]
		21:30	2.5	1 i	7.9				4.5	5.0	4.3	2.5
		22.00			7.9	L	1.	3.5	4.5	5.1	4.3	2.8
		22:30			7.9	4.6			4.5	5.1	4.3	2.6
		23:00		•	8.4	4.7	1				4.3	2.6
		23:30			8.2	4.8	1			5.4	4.6	2.7
	5/21	0.00			8.0	4.7	6.5			5.4	4.6	2.9
:	1.12.	0.30	2.7	4.2	8.0			1			4.7	3.2
	:	1:00	2.7	4.4	8.0	1		k	5.0	5.5	4.9	3.4
		1:30	2.8		8.0	5.2		1	5.0		5.0	3.5
		2.00	2.8	1 i	8.0	5.2		i				3.7
		2:30	2.9	( )	8.0			4.2	5.1		5.1	3.8
		3:00	3.0	. ,	8.0	5.2		4.2	5.1	6.0	5.2	3,9
		3:30		3	8.0			4.2		6.0	5.2	4.0
		4:00	3.0		8.0			4.2	5.1	6.1	5.2	4.0
		4:30	3.0			5.2		4.2		6.1	5.2	4.0
		5:00	3.0	1 · · · ·	8.0		1	4.2	5.0	6.1	5.2	4.0
		5:30	3.0	•	8.0	5.2			5.0	6.1	5 1	3.9
٠		6:00	3.0		8.0				5.0	6.1	5.0	3.8
	1 24	6:30	3.0	•	8.4	5.1	7.1		4.8	6.1	4.7	3.7
		7.00	3.0	4.5	8 2					6.0	4.5	3.3
		7:30	3.0	4.5	8.1		1	1		5.8		
		8:00	2.7		8.0		2		4.6		4.2	
	l <u>.</u>	8:30	2.7	;	8.0	4.8			4.5	5.3	4.0	2.8
		9.00	2.7	4.2	8.0	4.8	6.5	3.1	4 4	5.3	3.7	2.5

				<del></del>	16 t					Territorio Contratario de la contratario della c
		ENT PERI	00	000 00		97to13 jus	ne, 97	6666	OLA DO	D10-P9
	PointNo	MO1 P1	001 P2	D03-P1	008-P1	DO9 PI	D10-P6 Kgt/Cs2		D10 P8	
DATE	1 me 9:00	Agi/Coz 4.8	Kgf/Cm2	VRIVERS	NKI/CEZ	ngi/toz	lykryraz.	KS17 CHZ	KROCES	PRINIME
6/10	9:30								j	
	10:00	4.7							1	
	10:30				,	•'	i		<b>.</b>	
	11:00			!					!	1
	11:30	4.5		6.0						
	12:00	4.5		6.0			j: <b>.</b>	- :-		
	12:30		ļ <u>.</u>	6.2		3. 3		2.5		ļ <u>-</u>
	13:00	1.5		6.0 7.0	5. 0 5. 0	3. 3 3. 4		3.5	1.8	
1	13:30	1.5		8.0				3.1	1.8	
	14:00 14:30			7.3	5.0	3.5		3.1	1.8	
ļ	15:00		t- 1 ·	8.0	5.0	3.5 3.5	3.8		1.8	
	15:30			8.3	5.0	3.5	1.0	3. 3	1.8	
-	16:00	1.6	3.0		5.1	3.5	1.0	3.3	1.8	1. 2
	16:30	4.6	3.0		5. 1	3. 5		3.2	1.8	1.2
	17:00	1.6	3.0	7.5	5.1	3. 5	1.0	3. 1	1.8	1.2
	17:30					3. 5	1.0	3.2	1.8	1.2
	18:00			8.9	5.1	3.5	1.0		1.8	1. 2 1. 2
	18:30	4. 7	3.2		5.0		4. I 1. 0		2.0	1.2
1	19:00 19:30									1.2
÷	20:00	$-\frac{1.8}{1.9}$	3. 2	8.7		3.8	1.0	3.5	2. 0	1.2
1000	20:00	4 · · · · - · ·						3.5	2. 0	1.3
1 .	21:00	5.0	3. 2		5.0		4.1	3.7	2.1	1.1
: : : : :	21:30	5.0	3. 2	8.5	5.0	3.8	4.2	3.7	2.2	1.1
1 15	22:00	5, 3	3. 2	8.5	5.0	1.0	1.2		2.2	1.5
	22:30					4. 2	1. 1			
	23:00	5. 1	and the second second	6.5	5. 2					$\frac{1.6}{5}$
	23:30	5.1		6.2	5. 2		1, 2 1, 3	4.5 1.5		
-6/11	0.00		3.5			1	1.3	1.5	2.8	1.7
· .	0:30 1:00	ີ່ 5, 3 ຄ, 3	$\frac{3.5}{3.6}$		5. <b>1</b>	1.0 1.2	1.1		3.0	1.8
	1:30					4, 3	1.5			
:	2:00			10, 0		4.4	$\mathbf{H} = 4.5$	1.8	3. 5	2.0
	2:30	5. 3				1. 5	4.7	1.8	3, .	2. 1
•	3:00			10.0	5, 5	4. 5	1.8			
	3:30	5. l	3, 6							2.6
	1:00	5. 1			5.5	1.5	4. 9	4.8		3.0
	1:30	5.	3.6			4. 5 4. 5				
:	5:00		3. t	10.0 10.0		4. 5	5.6			3.4
1 -	5:30	) 5. 1 5. 1	3.							
3	6:00 6:30					1			3. 3	
* .	7:00	5 5 <u>.</u> 3	3.0				5 (	1.5	3 (	3 3.4
:	7:30	5. 0	3.0	7.0	5.5	3.8	5.1	4.0	2. 2. 3. 2. 3. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	7 3.3
1	8:00	1. 9	2.9	5.5	5.1	3.5	5. 6. (	) 3.!	2.5	3.3
1	8:30		7, 2.8	5. 3	3.3	3.		3.2	$\frac{3}{3}$ - $\frac{2}{3}$	3.0
1	9:00	1.8	2.7	5.0	5. 2	3. ]	5. (	3.2 3.2.8	2 2. ( 3 2. (	) 2.9 n 2.8
	9:30	1.	2. i 2. i	7. 0 5. 5 5. 3 7 5. 0 7 4. 8	5, 2 5, 2 5, 0 5, 0 5, 0 5, 0	3.6	) 1.8 3 1.8	3. (3. (	)	0 <sup>†</sup> 2.8 9 2.4 8 2.0
	10:00	) 1. (	2. 7	1.8	)	3. i	3	2.8	1. 9	2.0
1.	10:30 11:00			1. 5. U	7)	3. 5	3 1.	, , 2.8	1.6	5 1. 7
	11:00	) 1. °	2. 7	 5, ñ	. ก. เ ว. เ	3 :	1	2.8	3 i 1. t	6, 1.5
<b>+</b> ,	12:00		2. 7	5.7	5.0	3. 3 3. 3	4. 1 3 4. 0	) 2. 8 ) 2. 8 ) 3.	3 1. (	[5] 1.3
H	12:30		2.7	6.0	5. (	3.7	3 4. (	2.8	1.6 1.6	6 1. 3
- F	13:00	). <b>1.</b> (	2. 7	6.6	5.0	3 ; 3 .	3 3.5	3.	1.0	6 1.1
	: 13:30	) <b>1</b> . 6	5 2.7	7.8	5.0	3.	1 3.	3. (		
- [[7]	11:00 11:30	)¹ 1. t	2.7	7. 5	5. ( 5. (	3.	3. 3			
·	11:30	) 1. t	j. 2. 1	(L: <u>7.5</u>	5. ( 5. (	3.	1. ( 5. 1. (		) b 1.	
	15:00	) 1. 1	7 3.0		) 5.4 ) 5.4	) 3.5 ) 3.6				8 1.0
	15:30 16:00	$(\frac{1}{4},\frac{1}{4},\frac{1}{4},\frac{1}{4})$	7 3. ( 3 3 (			3.6	5 1.0	3.		9 1.0
	16:30	) 5. (	3. (	) 89	5.0	3.	5 1 (	3.3		9' 1. 1
	17:00	5. (			5.0		6 4.0	3. 3	2 1.9	9 1. 2
	17:30	) 1. 8	3. (	9. 3	5. (	3.6	6 4.6	3.	4	9 1. 2
: }	18:00	1. 1. 8	3. 3.	2 10.0	5. (	3.6	6 1.0	3.	4.	9] 1.3
<u> </u>	18:30	) 1, 3	3. 3.	10.0	5. (	3.3			5, 2,	0 1.3
	19:00	) 1. (						3.		
1	19:30 20:00			? 10. ( ? 9. 8						
				. 11 (						

· — —	140 0 04 100 0		A.B.		40					
	PointNo	ENT PERI	00 : D01-P2	D03 P1		97to13 Jul D09-P1	ne, 97 D10: P6	D10 P7	D10-P8	D10 P9
DATE			kgf/Cm2			Kof/Cm2	Kef/Cm2		kgf/cm2	
	23:00	5.0	3.5	8.0	5. 2	1.5	4:4	4. 1	2.5	
	23:30	5. 2		8.3		1. 7	4. 5		2.5	1.7
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