

***SECTOR J***

---

***INLAND WATERWAY  
TRANSPORT***

---

**THE STUDY ON COMPREHENSIVE WATER MANAGEMENT  
OF MUSI RIVER BASIN IN THE REPUBLIC OF INDONESIA**

**FINAL REPORT**

**SECTOR J**

**INLAND WATERWAY TRANSPORT**

**TABLE OF CONTENTS**

<b>1</b>	<b>INTRODUCTION.....</b>	<b>J-1</b>
1.1	Site Conditions .....	J-1
1.2	History of the Palembang Port.....	J-1
1.3	General Conditions .....	J-2
1.3.1	Tides.....	J-2
1.3.2	Currents.....	J-2
1.3.3	Winds .....	J-3
<b>2</b>	<b>PRESENT WATERWAY TRANSPORTATION .....</b>	<b>J-4</b>
2.1	Boats for River Transportation .....	J-4
2.1.1	Kapal Jukung .....	J-5
2.1.2	Kapal Ketek .....	J-5
2.1.3	Speedboat.....	J-6
2.1.4	Kapala Tongkang.....	J-6
2.2	River Flow and River Transportation.....	J-6
2.2.1	The Route in Palembang.....	J-6
2.2.2	In- and Outside of Palembang .....	J-7
2.2.3	Local Route (Out of Palembang City) .....	J-7
<b>3</b>	<b>PERSENT INLAND WATERWAY MANAGEMENT .....</b>	<b>J-9</b>
3.1	ADPEL .....	J-9
3.2	PELINDO II .....	J-9
3.2.1	Palembang Port .....	J-9
3.2.2	Present Inland Transport Condition.....	J-10
3.2.3	Other Port Facilities .....	J-13
3.2.4	Boat Service .....	J-14
3.3	Maintenance Dredging .....	J-15
3.3.1	Past Maintenance Dredging.....	J-15

3.3.2	Ongoing Maintenance Dredging .....	J-19
<b>4</b>	<b>FUTURE PROJECT OF INLAND TRANSPORT .....</b>	<b>J-21</b>
4.1	Palembang Port .....	J-21
4.1.1	Ship Call and Cargo .....	J-21
4.1.2	Flow of Goods at the Port .....	J-22
4.1.3	Passengers .....	J-22
4.2	Tanjung. Api-api Seaport .....	J-23
4.3	Other New Plan .....	J-23
4.3.1	Lais River Port .....	J-23
4.3.2	Floating Jetty for Passenger Boat .....	J-24
<b>5.</b>	<b>ISSUES TO BE SLOVED .....</b>	<b>J-25</b>
5.1	Maintenance Dredging .....	J-25
5.2	Bank Erosion by Ship Wave .....	J-26

### **LIST OF TABLES**

Table J1.1.1	Current Data at Musi River .....	J-2
Table J2.1.1	Existing River Condition in South Sumatra Province .....	J-4
Table J2.1.2	List of Registered Boat in South Sumatra .....	J-5
Table J3.2.1	The Terminal Size of Each Public Port .....	J-10
Table J3.2.2	The Terminal Size of Each Private Port .....	J-10
Table J3.2.3	Industries along Musi River .....	J-11
Table J3.2.4	List of Warehouse and Yard .....	J-14
Table J3.2.5	List of Loading and Unloading Equipment .....	J-14
Table J3.2.6	List of Service Boat .....	J-15
Table J3.3.1	Location of Maintenance Dredging: 1966-1975 .....	J-16
Table J3.3.2	Dredging Volume and Design Depth: 1966-1975 .....	J-16
Table J3.3.3	Location of Maintenance Dredging: 1979-1991 .....	J-17
Table J3.3.4	Dredging Materials and Disposal Location .....	J-17
Table J3.3.5	Record of Pre-dredge Sounding: 1997-2002 .....	J-18
Table J3.3.6	List of Dredging Volume and Unit Cost: 1979-1989 .....	J-19
Table J5.1.1	Possible Measure for Sedimentation Problem .....	J-26

### **LIST OF FIGURES**

Figure J3.2.1	Number of Ship Calls: 1990-2001 .....	J-11
Figure J3.2.2	Total Goods Flow .....	J-12
Figure J3.2.3	Goods Based on Trade .....	J-12
Figure J3.2.4	Distribution of Goods .....	J-13
Figure J3.2.5	Flow of Passenger .....	J-13
Figure J4.1.1	Predication of Ship Call and Cargo: 2001-2006 .....	J-21
Figure J4.1.2	Flow of Goods at the Port: 2001-2006 .....	J-22
Figure J4.1.3	Passengers: 2001-2006 .....	J-22

### **LIST OF ANNEXES**

Annex J2.1.1	General Map of Inland Waterway Transportation .....	JA-1
Annex J3.1.1	Location Map of Musi Navigation Channel .....	JA-2
Annex J3.3.1	Record of Pre-dredging Sounding: 1997-2001 .....	JA-3
Annex J3.3.2	Location of Maintenance Dredging .....	JA-4

Annex J4.2.1	Plan of Railway .....	JA-5
Annex J4.2.2	Plan of Tg. Api-api Sea Port .....	JA-6
Annex J4.3.1	Plan of Lais River Port.....	JA-7
Annex J5.1.1	Implementation Cost.....	JA-8