

Procurement Packages with Methods and Time SCHEDULE for Liaoning Medium Cities Urban Infrastructure Project(LMC-2)
Contract Packaging (Draft)

Ref. No.	Contract Name	Description	Estimated Cost (USD x 10 ⁶)	Procurement Method	Prequalification n (Yes/No)	Domestic Preference (Yes/No)	Review by Bank (Prior/Post)	Expected Bid- Opening Date
Anshan Water Supply								
1. Civil Work			20.11					
AWS/1. 1	Water Treatment Plant	150,000 m3/d water plant	2. 67	NCB	No	No	Post	2008.6
AWS/1. 2	Water Transmission pipeline	D=500-800mm, DI pipe, 50,397M	8. 49	NCB	No	No	Prior	2008.6
AWS/1. 3	Water distribution network - Tiexi area	D=50-500mm DI pipe, 50,937M	0. 92	NCB	No	No	Post	2008.6
AWS/1. 4-A	Water distribution network - Tiedong area	D=50-500mm DI pipes, 16630M	1. 09	NCB	No	No	Post	2009.6
AWS/1. 4-B	Water distribution network - Lishan area	D=50-600mm DI pipes, 30375M	1. 99	NCB	No	No	Post	2009.6
AWS/1. 5	Water-meter system upgrading-A	2,215 water meter chambers/pipe replacement	2. 29	NCB	No	No	Post	2008.6
AWS/1. 6	Water-meter system upgrading-B	2,585 water meter chambers/pipe replacement	2. 67	NCB	No	No	Post	2009.6
2. Equipment & Material			5. 79					
AWS/21. 1	Water Treatment Plant	Equipment for 150,000 m3/d water plant	2. 48	ICB	No	No	Prior	2008.9
AWS/21. 2	Water-meter -A	30,000 sets	1. 33	ICB	No	No	Prior	2008.5
AWS/21. 3	Water-meter -B	35,000 sets	1. 55	ICB	No	No	Prior	2009.5
AWS/21. 4	Equipment of leakage testing, Lab. device, vehicle & office (it may be splitted in several bids according to the detailed requirement)	Pipeline leakage detection/maintenance, Lab. Equipment, engineering vehicles/bus, PCs, printer, photocopier, etc.	0. 44	NCB	No	No	Post	2008.4
3. Subtotal			25. 91					

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Haicheng Water Supply								
1. Civil Work			9.71					
HWS/1.1	Water Transmission pipeline	D=300-900mm DI/steel pipes, 12,800 m	2.41	NCB	No	No	Post	2008.6
HWS/1.2	Distribution network - south area	D=200-600mm DI/steel pipes, 29,745m	2.00	NCB	No	No	Post	2008.6
HWS/1.3	Distribution network - north area	D=200-1,200mm DI/steel pipes, 31,586m	3.05	NCB	No	No	Post	2008.4
HWS/1.4	Water-meter system upgrading	1,700 water-meter chambers/pipe replacement	1.28	NCB	No	No	Post	2008.6
HWS/1.5	Enlarging of civil works for Yuhuangshan & Zhongyangpu water plants	40,000 m3/d to 100,00 m3/d for Yuhuangshan plant; 20,000 m3/d to 30,000 m3/d for Zhongyangpu plant	0.96	NCB	No	No	Post	2008.8
2. Equipment & Material			2.76					
HWS/21.1	Equipment supply & installation of Yuhuangshan and Zhongyangpu plants	40,000 m3/d to 100,00 m3/d for Yuhuangshan plant; 20,000 m3/d to 30,000 m3/d for Zhongyangpu plant	0.93	ICB	No	No	Prior	2008.10
HWS/21.2	Procurement of water-meter	25,000 sets	1.49	ICB	No	No	Prior	2008.5
HWS/21.3	Equipment of leakage testing, Lab. device, Engineering vehicle & Office equipment (it may be splited in several bids according to the detailed requirement)	Pipeline leakage detection/maintenance, Lab. Equipment, Engineering vehicles/bus, Office equipment, etc.	0.34	NCB	No	No	Post	2008.4
3. Subtotal			12.46					

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Fushun Wastewater								
1. Civil Work			24.18					
FWW/1.1	Upgrading of drainage networks in Wanghua area; Wastewater collection pipeline work in Liujia area	Wanghua area: D=300-1,200mm reinforced concrete pipe, 15, 311m; Liujia area: D=500-900mm drainage pipe, 3,550m	3.02	NCB	No	No	Post	2008.3
FWW/1.2	Wastewater collection pipeline in Guchengzhi area; Upgrading of drainage systems in Zhanqian & Gongyuan areas & Changnab open ditch	Guchengzhi: D=300-1500mm reinforced concrete pipe, 9,048m; Zhanqian & Gongyuan: D=300-1200mm RCP, 6,558m; Changnan open ditch: 9,770m.	4.62	NCB	No	No	Post	2008.6
FWW/1.3	River-dyke rehabilitation (0 - 0+360)	Dyke-filling:92,000 m ³ ,Roads:90,000 m ² , Bridge: 8,280m ²	5.94	NCB	No	No	Prior	2008.3
FWW/1.4	River-dyke rehabilitation (0+360 - end)	580,000 m ³ dyke-filling, 120,000 m ² roads, 22km sewer	10.61	NCB	No	No	Prior	2009.3
2. Subtotal			24.18					

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Fushun Solid Waste								
1. Civil Work			5.82					
FSW/1.1	New sanitary landfill construction and existing dump upgrading	250,000 m3 soil/stone excavation, 250,000 m3 earth filling, 188,000 m3 membrane, leakage/gas collection works, etc.	5.82	NCB	No	No	Prior	2009.3
2. Equipment/material			1.78					
FSW/21.1	Equipment of solid waste backfill, transportation & Lab. Device	Package A: compressor (2)	1.78	ICB	No	No	Prior	2009.6
		Package B: bulldozer (2), excavator (2)						
		Package C: chemical spreading vehicle (1), sludge collection vehicle (5), wangon (1)						
		Package D: vehicles of compressing (17), self-unload (3 sets, 8T), van (1), wangon (1)						
		Package E: Lab. Devices						
3. Technical assistance			0.30					
FSW/31.1	Consulting service of sanitary landfill		0.30	QCBS				
4. Subtotal			7.90					

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Yingkou Wastewater								
1. Civil Work			30.79					
YWW/1.1-A	Wastewater interceptor & collection pipeline for Qinghua street	D=300-1,200mm, L=20.21km	3.34	NCB	No	No	Post	2009.10
YWW/1.1-B	Interceptor of Donghuan road	D=300-2,000 x 2,200mm, L=15.17km	4.99	NCB	No	No	Post	2009.4
YWW/1.2-A	Wastewater collection pipeline from Haibin road to No. 14 pumping station	D=1,100-2,000 x 2,200mm. L=7.21km	3.85	NCB	No	No	Post	2009.4
YWW/1.2-B	Wastewater collection pipeline from No. 14 pumping station to Donghuan road	D=1,100-2,000 x 2,200mm, L=9.67km	4.47	NCB	No	No	Post	2009.4
YWW/1.3	Interceptor of Liaobian district	D=700-2,200 x 2,200mm, L=11.46km	4.88	NCB	No	No	Post	2008.4
YWW/1.4	Interceptor from the Plant to Donghuan road	DN=1,600mm, L=3.4km	1.07	NCB	No	No	Post	2008.4
YWW/1.5	Civil work of pumping station	6 new pumping stations	1.55	NCB	No	No	Post	2008.4
YWW/1.6	Civil work of W.W.T	100,000 m3/d wastewater treatment plant	6.64	NCB	No	No	Prior	2009.3
2. Equipment & Material			9.02					
YWW/21.1	Equipment supply and installation of W.W.T	100,000 m3/d wastewater treatment plant	5.66	ICB	No	No	Prior	2009.4
YWW/21.2	Equipment supply and installation of pumping stations	8 pumping stations	2.37	ICB	No	No	Prior	2009.7
YWW/21.3-A	Vehicles	for W.W.T	0.95	ICB	No	No	Prior	2010.5
YWW/21.3-B	Lab. Devices	for W.W.T						
YWW/21.4	Office equipment	for W.W.T	0.04	NS	No	No	Post	2010.2
3. Subtotal			39.81					

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Yingkou Water Supply								
I. Civil Work			27.04					
YWS/1.1	Distribution network (1)	DI pipe, DN800-500, 12,371m UPVC pipe, DN400-200, 19,528m	3.46	NCB	No	No	Post	2008.3
YWS/1.2	Distribution network (2)	DI pipes, DN800-500, 5,149m UPVC pipe, DN400-200, 30,895m	4.55	NCB	No	No	Post	2008.3
YWS/1.3	Distribution network (3)	DI pipe, DN500, 9,147m UPVC pipe, DN400-200, 37,740m	3.27	NCB	No	No	Post	2008.3
YWS/1.4 - A	Transportation pipeline (1)	DI pipe, DN1200mm L=12.00KM	4.54	NCB	No	No	Post	2008.1
YWS/1.4 - B	Transportation pipeline (2)	DI pipe, DN1200mm L=12.00KM	4.54	NCB	No	No	Post	2008.1
YWS/1.4 - C	Transportation pipeline (3)	DI pipe, DN1200mm L=7.30KM	2.77	NCB	No	No	Post	2008.1
YWS/1.5	Water treatment plant	70,000 m3/d WTP	3.93	NCB	No	No	Post	2007.11
2. Equipment & Material			3.95					
YWS/21.1	Water treatment plant	equipment supply & installation (70,000 m3/d)	3.13	ICB	No	No	Prior	2007.12
YWS/21.2	Equipment of leakage testing, Lab. device, vehicle & office (it may be splited in several bids according to the detailed requirement)	pipeline leakage detection/maintenance, Lab. Equipment, engineering vehicles/bus, PCs, printer, photocopier, etc.	0.82	NCB	No	No	Post	2008.6
3. Subtotal			31.00					

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Yingkou Solid Waste								
1. Civil Work			4.26					
YSW/1.1	Sanitary backfill plant	1.0726 million m3 earth/stone excavation,165,000 m2 membrane, leakage/gas collection work, access , etc.	3.65	NCB	No	No	Post	2008.1
YSW/1.2	Sealing of existing pump	Sealing work (56,800 m3 earth work, anti-leakage/gas leading), etc	0.61	NCB	No	No	Post	2008.10
2. Equipment & Material			1.88					
YSW/21.1	Equipment of landfill plant and transportation	bulldozer (2), compossor (2), excavator (2), solid waste collection vehicles (25)	1.83	ICB	No	No	Prior	2008.5
YSW/21.2	Office equipment & Lab. Devices		0.05	NCB	No	No	Post	2008.8
3. Subtotal			6.13					

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Panjin Wastewater								
1. Civil Work			18.70					
PWW/1.1	Drainage pipe upgrading for Xinghongtai district	FRP, DN800-2,000, 4,880m; RC culvert B x H 2,400×2,000—3,000×2,500, 2,710m	5.32	NCB	No	No	Prior	2009.3
PWW/1.2	Drainage pipe upgrading for Shuangtaizhi district	DN700-1,800, 11,595m	4.00	NCB	No	No	Post	2008.3
PWW/1.3	Civil work of existing & new pumping stations for Xinglongtai district	Construct 2 new stations and upgrade 2 existing stations	1.82	NCB	No	No	Post	2009.3
PWW/1.4	Civil work of existing & new pumping stations for Shuangtaizhi district	Construct 2 new stations and upgrade 4 existing stations	1.42	NCB	No	No	Post	2008.7
PWW/1.5	Civil work of W.W.T	50,000 m3/d	6.15	NCB	No	No	Prior	2008.7
2. Equipment & Material			9.38					
PWW/21.1	Equipment supply and installation of W.W.T	50,000 m3/d	4.67	ICB	No	No	Prior	2009.3
PWW/21.2	Equipment supply and installation for pumping stations of Xinglongtai district	4 pumping stations	2.43	ICB	No	No	Prior	2008.5
PWW/21.3	Equipment supply and installation for pumping stations of Shuangtaizhi district	6 pumping stations	1.50	ICB	No	No	Prior	2009.1
PWW/21.4	Equipment of leakage testing, Lab. device, vehicle & office (it may be splited in several bids according to the detailed requirement)	Pipeline leakage detection/maintenance, Lab. Equipment, engineering vehicles/bus, Office equipment, etc.	0.78	ICB	No	No	Prior	2008.9
3. Subtotal			28.09					

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Panjin Water Supply								
1. Civil Work			4.58					
PWS/1.1	Water distribution pipeline (1)	Trunk main and distribution lines for Jiuhua area	0.90	NCB	No	No	Post	2008.3
PWS/1.2	Water distribution pipeline (2)	for Zhaojia area; water-meter replacing of 39,204 households	1.02	NCB	No	No	Post	2009.3
PWS/1.3	Water distribution pipeline (3)	for Panhua area; water-meter replacing of 32,831 households	0.75	NCB	No	No	Post	2010.3
PWS/1.4	Water distribution pipeline (4)	for Dongyue area; water-meter replacing of 21,227 households	1.90	NCB	No	No	Post	2011.3
2. Equipment & Material			10.92					
PWS/21.1	Water-meter, valves (1)	Rehabilitation of distribution network (1)	4.46	ICB	No	No	Prior	2008.8
PWS/21.2	Water-meter, valves (2)	Rehabilitation of distribution network (2)	6.15	ICB	No	No	Prior	2009.5
PWS/21.3	Equipment of leakage testing, vehicle (it may be splitted in several bids according to the detailed requirement)	Pipeline leakage detection/maintenance, engineering vehicles, etc.	0.31	ICB	No	No	Post	2008.5
3. Subtotal			15.50					

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Panjin Solid Waste								
1. Civil work			17.32					
PSW/1.1	Sanitary landfill plant (phase-I)	591,800 m ³ earth/stone excavation,205,000 m ² membrane, leakage/gas collection work, access , etc.	10.07	NCB	No	No	Prior	2009.3
PSW/1.2	Sanitary landfill plant (phase-II)	591,800 m ³ earth/stone excavation,205,000 m ² membrane, leakage/gas collection work, access , etc.	7.25	NCB	No	No	Prior	2011.3
2. Equipment & Material			1.92					
PSW/21.1	Equipment of landfill plant and transportation	Bulldozer (2), compressor (2), excavator (2), solid waste collection vehicles (20), etc.	1.86	ICB	No	No	Prior	2009.7
PSW/21.2	Equipment of analysis, mechanical repair, Office equipment, etc. (it may be splited in several bids according to the detailed requirement)		0.06	NCB	No	No	Post	2009.4
3. Subtotal			19.24					

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Xingcheng Water Supply								
1. Civil Work			3.56					
XWS/1.1	Water distribution network - A	D=200-600mm DI/PE pipes,12,177.1m and Pumping Station	1.49	NCB	No	No	Post	2009.3
XWS/1.2	Water distribution network - B & water-meter upgrading	D=200-1,000mm, DI/PE pipes,12,505m, also pumping station; 220 water-meter chambers	2.08	NCB	No	No	Post	2008.3
2. Equipment & Material			0.34					
XWS/21.1	Procurement of water-meters and measuring devices	2,200 sets of meters, etc.	0.14	NCB	No	No	Post	2008.8
XWS/21.2	Equipment of leakage testing, Lab. device, vehicle & Office equipment (it may be splited in several bids according to the detailed requirement)	Pipeline leakage detection/maintenance, Lab. Equipment, engineering vehicles/bus, Office equipment, etc.	0.20	NCB	No	No	Post	2008.4
3. Subtotal			3.90					

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Gaizhou Wastewater								
1. Civil Work			8.31					
GWW/1.1	North-bank interceptor of Daqing river	11,985m, DN600-1,500	2.03	NCB	No	No	Post	2008.1
GWW/1.2	South-bank interceptor of Daqing river & lifting pumping station	9,500m, DN600-1,200	1.45	NCB	No	No	Post	2008.4
GWW/1.3	Civil work of W.W.T	50,000 m3/d wastewater treatment plant	2.84	NCB	No	No	Post	2008.5
GWW/1.4	Rehabilitation of river course	Cleaning and rehabilitation of moat	1.99	NCB	No	No	Post	2008.11
2. Equipment & Material			3.94					
GWW/21.1	Equipment supply and installation of W.W.T -	50,000 m3/d treatment plant	3.61	ICB	No	No	Prior	2008.5
GWW/21.2	Equipment of analysis, mechanical repair, office, etc. (it may be splited in several bids according to the detailed requirement)		0.33	NCB	No	No	Post	2008.5
3. Subtotal			12.25					

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	Technical assistance							
	Package A	A1: Project management & asset management	1.60	QCBS	R			2008.5
		A2: Service of tendering agency for normal loan project	0.90	NBF				2008.5
		A3: Project management for retroactive project	0.10	CQ	N			2007.8
		A4: Service of tendering agency for retroactive project	0.10	CQ	N			2007.8
		Subtotal of TA	2.70					
	Package B	Consultancy service of public utility building	2.50					
		B.1. Lead Public Utility Program Consultants	1.20	QCBS				2008.7
		B.2. Benchmarking Consultants	0.30					2008.10
		B.3. Training Consultants	0.70					2009.12
		B.4. Program Adviseor	0.10					N/A
		Contingency	0.20					
	Package C	Consultancy service of urban solid waste management	1.50					
		C.1. Solid Waste TA	1.40	QCBS				2008.7
		C.2. Fushun Landfill Design		NBF				2008.4
		C.3. Fushun Landfill Experts	0.10					N/A
	Package D	Consultancy service of urban water pollution management &	1.00					
		D.1. Wastewater TA	1.00	QCBS				2008.7
		Subtotal of GEF	5.00					
	Total for LMC-2		234.07					

Note: 1) Procurement method: ICB = international bidding, NCB = local bidding, NS = national (local) shopping, NBF = non-Bank fund, CQ = cost based on qualification of Consultancy firms.
2) Pre-review by the Bank: R = required, N/R = not required.

Comments (Implementation time)
2008.6-2008.12
2008.7-2010.10
2008.6-2009.10
2009.6-2010.6
2009.6-2010.6
2008.6-2009.10
2009.6-2010.10
2008.10-2009.4
2008.6-2008.10
2009.6-2009.10
2008.4-2008.10
2008.6-12
2008.7-11
2008.5-11
2008.7-2009.8
2008.9-2009.11
2008.11 -2009.10
2008.6-2008.11
2008.4 -2009.6
2008.4-10

Comments (Implementation time)
2008.7-11
2008.4-11
2009.4-2010.10
2009.4-2009.10
2009.7-10
2009.11-2010.5
2009.5-2009.10
2009.5-10
2009.5-10
2008.5-2009.10
2008.4-10
2008.5-2009.6
2009.4-2010.8
2009.6-2010.11
2009.8-2010.12
2010.6-2010.11

Comments (Implementation time)
2010.6-2010.11
2010.3-2010.6
2008. 4-12
2008. 4-12
2008. 4-12
2008.1-11
2008.1-11
2008.1-11
2007.12-2008.11
2008.1-12
2008.7-12
2008.2-2008.10
2008.10 - 2009.9
2008.6 - 2008.10
2008.9 -2008. 12
2009.4-2010.11
2008.4-2009.12
2009.4-2009.12

Comments (Implementation time)
2008.8-2009.8
2008.9-2009.11
2009.4- 2010.10
2008.6-11
2009.2-2009.10
2008.10-2009.6
2008.4-2009.6
2009.4--2010.10
2010.4-2011.10
2011.4-2012.10
2008.9-2009.9
2009.6-2010.6
2008.6-11

Comments (Implementation time)
2009.4 - 2010.6
2011.4-2012.6
2009.8-12
2009.5-12
2009.4-11
2008.4-11
2008.8-12
2008.4-10
2008.2-11
2008.5-11
2008.6-11
2008.11 - 2009.6
2008.6 - 2009.6
2008.5-11

Comments (Implementation time)

Comments (Implementation time)
2008.7 - 2012
2008.6 - 2012
2007.9 - 2008.6
2007.9 - 2008.6
2008.8 - 2012
2008.11 - 2012
2010.1 - 2012
2008.1 - 2012
2008.8 - 2010
2008.5 - 2010
2008.1 - 2010
2008.8 - 2010

世行贷款辽宁中等城市项目
鞍山市供水项目 - 合同实施计划表 (示例)

合同号	合同名称	2006					2007					2008					2009					2010																				
		7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
AWS/1.1	给水污水处理厂(土建)																																									
	标书准备																																									
	合同实施																																									
AWS/2.1.1	给水污水处理厂(设备)																																									
	标书准备																																									
	合同实施																																									
AWS/1.2	厂外输水管线																																									
	标书准备																																									
	合同实施																																									
AWS/1.3	配水管网-铁西段																																									
	标书准备																																									
	合同实施																																									
AWS/1.4	配水管网-铁东段																																									
	标书准备																																									
	合同实施																																									
AWS/1.5	配水管网-立山段																																									
	标书准备																																									
	合同实施																																									
AWS/1.6	水表系统改造																																									
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- 1) 实施计划用横道图表示。应考虑投资安排, 设计图纸, 施工季节限制(管线合同尽量在当年内完成)等, 分土建和设备合同实施的应考虑协调。项目周期暂定2007—2010年。
- 2) 追溯贷款合同应控制在贷款额度的10%以内, 只考虑截流/管线工程。(预计贷款生效日期: 2006年底—2007年初)
- 3) 项目准备、采购及实施周期预测:

合同类别	设计审查、标书准备	招标、评标、报批	合同实施(施工)
土建工程(NCB)	3 ~ 6 月	2 ~ 3 月	6 ~ 18 月
土建工程(ICB)	6 ~ 9 月	3 ~ 4 月	12 ~ 18 月
设备/材料(NCB)	2 ~ 3 月	2 ~ 3 月	3 ~ 6 月
设备/材料(ICB)	4 ~ 6 月	4 ~ 5 月	5 ~ 9 月
供货/安装(ICB)	6 ~ 9 月	5 ~ 6 月	12 ~ 18 月