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## Procurement Plan of Yakou Navigation Complex

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### Procurement Summary of Civil Works and Installation

□1 table 1

□□□□ Component	□□□□□□□□ Procurement Contents	□□□□□□□□ Estimated cost (10000 Yuan)	□□□□ □□□□ Estimated Cost (10000 US dollar)	□□ □□ □□ Procurement Method	□□□ □□ Prior/Post Review	□□□□ □□ Procurement Timetable
□□□□□□ Riverway Dredging	□□□□□□□□□□□□□□□□ Dredging for temporary navigable corridor and downstream riverway at left side bank	1727.60	261.76	NBF		2016.09
□□□□□□ Access Road	□□□□□□□□12□□□ Construction for the sub-grade of access road, with length of 12km	1677.11	254.11	NBF		2016.09

<p>Powerhouse, earth dam at right bank and 16 sluice gates</p>	<p>Earth filling, anti-seepage protection and dismantle for cofferdam at phase one, powerhouse, 16 sluice gates, earth filling, protection and anti-seepage treatment for earth dam at right bank, diversion dike, connection between power plant and ship lock, fish way, dredging, metal structure installation for power plant, sluice gates, fish way and replenishment channel, installation for hoist equipment of sluice gates, temporary works for dewatering</p>	<p>66485.93</p>	<p>10073.63</p>	<p>ICB</p>	<p>Prior Review</p>	<p>2016.05-2016.05</p>
<p>Shiplock and road bridge on dam crest</p>	<p>Civil works for ship lock, connections sections for navigable course and dredging at downstream, road bridge on dam crest within the cofferdam, installation of metal structure and hoist equipment for ship lock, dewatering and drainage works as well as other temporary works</p>	<p>22593.13</p>	<p>3423.20</p>	<p>NCB</p>	<p>Prior Review</p>	<p>2016.05-2016.05</p>

<p>Earth dam at left bank and 28 sluice gates</p>	<p>Earth filling, anti-seepage protection and dismantle for cofferdam at phase two,28 sluice gates, earth filling, protection and anti-seepage treatment for earth dam at left bank, road bridge on dam crest within the cofferdam, installation for hoist equipment of sluice gates, temporary works for dewatering and drainage as well as the accesses of water, road, electricity, telecommunication and flattening construction yard</p>	<p>39444.26</p>	<p>5976.40</p>	<p>ICB</p>	<p>Prior Review</p>	<p>2018.03-2018.05</p>
<p>Housing and other construction</p>	<p>Civil works for manufacturing and administration housing, decoration and ancillary works and ecological dispatching base in Wuhan</p>	<p>6304.11</p>	<p>955.17</p>	<p>NBF</p>		<p>2019.05-2019.06</p>
<p>Civil works for aquatic breeding stations and general engineering</p>	<p>Water storage pond for aquatic breeding station, cultivating pool, isolation pool, roads for housing, parking yard and water supply and drainage</p>	<p>1770.59</p>	<p>268.27</p>	<p>NBF</p>		<p>2018.05-2018.06</p>
<p>Installation of E&amp;M works</p>	<p>Electrical installation for ship lock, sluice gates and power plant, installation and debugging for generating units and ancillary equipments</p>	<p>4368.91</p>	<p>661.96</p>	<p>NCB</p>	<p>Post Review</p>	<p>2017.02</p>

4	Power access system	Cable construction for access system, expansion and protection works for the intervals of converting station of power access system	1523.00	230.76	NBF		2018.04
5	10KV for power supply	Works on the permanent auxiliary power supply for operation stage, taking account of the demand of power at construction stage	700.00	106.06	NBF		2016.11
6	Environment Protection Works	Joint ecological dispatching and other environment works	4845.87	734.22	NBF		2016.11
7	Soil and water conservation works	Soil and water conservation works	2520.81	381.94	NBF		2016.12
8	Monitoring for engineering and safety	Safety monitoring for engineering during construction periods	839.73	127.23	NBF		2017.02
			154801.05	23454.70			

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Note: 1US dollar=6.6 Yuan RMB hereinafter

## 2. Procurement Summary of Goods

02 table 2

Item	Component	Procurement Contents	Estimated cost (10000 Yuan)	Estimated Cost (10000 US dollar)	Procurement Method	Prior/Post Review	Procurement Timetable
G1	Turbine sets and ancillary equipment	6*12.5MW flow-bulb turbine sets and ancillary equipments	27426.18	4155.48	ICB	Prior Review	2016.06-2016.12
G2	Metal structure for sluice gate	44 arch sluice gates and their embedded parts, emergency gates, lifting beam and so on	13215.83	2002.40	ICB	Prior Review	2017.11-2017.03

G3	<p>金属结构</p> <p>Metal structure for ship lock, powerhouse and fish way</p>	<p>4扇人字门4扇水闸2扇紧急门2扇紧急阀及嵌入部分、紧急门及嵌入部分、电站厂房的上游和下游等</p> <p>4 herringbone sluice gates at upper and down lock head, 4 water conveyance gates, 2 emergency gates, 2 emergency valves en embedded parts, emergency gates and embedded parts of power house at upstream and downstream and so on</p>	6187.79	937.54	NCB	Prior Review	2017.01-2017.03
G4	<p>起重设备</p> <p>Hoist equipment for ship lock and sluice gates</p>	<p>44扇人字门及阀门和相应的现场和集中监控系统</p> <p>Hydraulic jack and power station for 44 herringbone sluice gates and valves and corresponding on-site and concentrated monitoring system</p>	4983.57	755.09	NCB	Prior Review	2017.01
G5	<p>设备采购和安装</p> <p>Equipment procurement and installation for aquatic breeding stations</p>	<p>设备采购和安装</p> <p>Equipment procurement and installation for aquatic breeding stations</p>	461.15	69.87	NBF		2018.12

G6	<p>Navigation facilities and vessels</p>	<p>Procurement for Navigation marks, anchorage barge, cleaning ship, emergency rescue ship</p>	2667.27	404.13	NCB	Post Review	2019.02
G7	<p>Informatization engineering</p>	<p>Informatization management system for on- gonging and as-built period of complex construction</p>	980.00	148.48	NBF		2016.11
G8	<p>Portal crane manufacturing for sluice gates, inflow water, tail water, powerhouse and GIS bridge crane</p>	<p>Procurements of portal crane for sluice gates, inflow water, tail water, powerhouse and GIS bridge crane</p>	1989.31	301.41	NCB	Post Review	2017.02
G9	<p>Fixed roof cover for powerhouse</p>	<p>Fabrication and installation of fixed roof cover for powerhouse</p>	788.43	119.46	NCB	Post Review	2017.06
G10	<p>Electrical transformer of powerhouse</p>	<p>Manufacturing of electrical transformer of powerhouse and ancillary equipments</p>	750.00	113.64	NBF		2016.11

G11	Booster switch station of power plant	110KV GIS and its ancillary equipments, 110KV outdoor open high voltage equipment, 110KV cable and terminal	430.00	65.15	NBF		2016.11
G12	Electrical system for ship lock and sluice gates	Control system and high voltage distribution cabinets for ship lock and sluice gates	1105.00	167.42	NCB	Post Review	2017.04
G13	High Voltage Distributing Cabinet for powerhouse	Procurement of high voltage distributing cabinet for powerhouse	800.00	121.21	NBF		2017.05
G14	Electric wire and cable	Low voltage power cable for powerhouse, distributing and power cable for ship lock and sluice gates	1557.00	235.91	NCB	Post Review	2017.10



<p>G15 □ G37</p>	<p>□□□□□□ Public and other equipments</p>	<p>□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□Cruise and maintenance vehicles, electrical transformers, low voltage distributing facilities for powerhouse, cable bridge crane, lighting facilities, diesel generator, DC system, computer monitoring , relay protection, communication, tools for equipment overhaul, water plant facilities, lifts, air compressor facilities, supply and drainage pump, valves, automatic detecting and reporting system for water situation</p>	<p>3886.78</p>	<p>588.91</p>	<p>NBF</p>		
	<p>□ □ total</p>		<p>67228.31</p>	<p>10186.11</p>			

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### Annex : Procurement List of Public and Other Equipment

Item	Contents	Procurement method	Estimated cost (10000 Yuan)	Estimated Cost (10000 US dollar)	Procurement timetable
G15	Inspection, maintenance and transport vehicles	NBF	245.00	37.12	2019.03
G16	power transformer		177.00	26.82	2017.06
G17	Low voltage distributing facilities for powerhouse		220.00	33.33	2017.05
G18	Bridge crane for cable		425.61	64.49	2017.09
G19	Lighting and ancillary facilities		188.00	28.48	2017.09
G20	Diesel generating sets		73.00	11.06	2017.06
G21	DC system		129.43	19.61	2017.08
G22	Computerized monitoring system of power plant		357.93	54.23	2017.08

G23	Public ancillary equipment control system		90.00	13.64	2017.08
G24	Relay protection system		374.92	56.81	2017.07
G25	Power dispatching data network access equipment, power plant communication		335.71	50.87	2017.09
G26	Equipment pre-test and safety tools		52.87	8.01	2018.12
G27	Equipment maintenance tool		50.00	7.58	2018.12
G28	Procurement and installation of water plant equipment		90.00	13.64	2019.03
G29	Fire-fighting equipment		178.50	27.05	
G30	Plant heating and ventilation equipment		65.67	9.95	
G31	Air compressor equipment and gas storage tank		140.00	21.21	2017.07
G32	Oil treatment equipment and		116.53	17.66	2017.07

	water filter				
G33	Procurement of long shaft deep well pump and supply & drainage pump		136.00	20.61	2017.01
G34	Original automation		53.75	8.14	2017.10
G35	valve		150.00	22.73	2017.10
G36	Lifting facilities		100.00	15.15	2017.05
G37	Automatic detecting and reporting system for water condition		136.86	20.74	2017.12

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Item	Project or Contract	Estimated cost (10000 Yuan)	Estimated Cost (10000 US dollar)	Procurement Method	Prior/Post Review	Procurement Timetable

T1	研究 IWT environment management study	264.00 GEF GEF grant	40.00 GEF GEF grant	QCBS/QBS/F BS	Post Review	2017.02
T2	研究 Digital waterway information system study and pilot	200.00	30.00	NBF		2017.02
T3	研究 IWT safety management study	264.00	40.00	QCBS/QBS/F BS	Post Review	2017.02
T4	研究 IWT capacity and efficiency improvement study	396.00 GEF GEF grant	60.00 GEF GEF grant	QCBS/QBS/F BS	Post Review	2017.02
T5	研究 Accumulative environment impact assessment (second time)	380.00	58.00	NBF		2016.12
T6	研究 Joint ecological dispatching	430.00	65.00	NBF		2016.11
T7	研究 Result evaluation for fish-way facilities	210.00	32.00	NBF		2016.12
T8	研究 Construction supervision	3586.81	543.46	NBF		2016.06 2016.12

	□ □ total	5730.81	868.31			
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**PROCUREMENT PLAN** China : China: Hubei Inland Waterway Improvement Project

**General Information**

Country: China Bank / Approval Date of the Original Procurement Plan: 2016-09-13  
 Revised Plan Date(s): (comma delineated, leave blank if none) 2017-05-05  
 Project ID: P158717 GPN Date: 2016-09-14  
 Project Name: China: Hubei Inland Waterway Improvement Project  
 Loan / Credit No.:  
 Executing Agency(ies): Hubei Transport Department

**WORKS**

Activity Reference No. / Description	Loan / Credit No.	Component	Review Type	Method	Market Approach	Procurement Process	Prequalification (Y/N)	Estimated Amount (US\$)	Actual Amount (US\$)	Process Status	Draft Pre-qualification Documents		Prequalification Evaluation Report		Draft Bidding Document / Justification		Specific Procurement Notice / Invitation		Bidding Documents as Issued		Proposal Submission / Opening / Minutes		Bid Evaluation Report and Recommendation for Award		Signed Contract		Contract Completion	
											Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual
YK-W-04 / works on power house sluice gate and earth-rock dam at right bank		Component A: Construction of Yakou Complex	Prior	Request for Bids	Open - International	Single Stage - One Envelope		93,238,800.00	0.00	Cancelled					2016-09-13		2016-09-18					2016-10-30	2016-11-29		2017-01-03		2017-07-02	
YK-W-04A / Works on powerhouse, Sluice Gate and Earth-Rock Dam at Right Bank of Yakou Navigation Complex Civil Engineering and Metal Structure Installation		Component A: Construction of Yakou Complex	Prior	Request for Bids	Open - International	Single Stage - One Envelope		97,762,166.00	0.00	Under Implementation					2016-09-13	2016-09-22	2016-09-18	2016-09-30					2016-10-30	2016-11-14	2016-11-29	2017-01-03	2017-07-02	
YK-W-05 / works on Ship Lock, Dam-Crest Road Bridge (partial) of Yakou Navigation Complex Civil Engineering and Metal Structure Installation		Component A: Construction of Yakou Complex	Prior	Request for Bids	Open - International	Single Stage - One Envelope		32,996,883.00	0.00	Under Implementation					2016-09-13	2016-09-22	2016-09-18	2016-09-30					2016-10-30	2016-11-14	2016-11-29	2017-01-03	2017-07-02	

**GOODS**

Activity Reference No. / Description	Loan / Credit No.	Component	Review Type	Method	Market Approach	Procurement Process	Prequalification (Y/N)	Estimated Amount (US\$)	Actual Amount (US\$)	Process Status	Draft Pre-qualification Documents		Prequalification Evaluation Report		Draft Bidding Document / Justification		Specific Procurement Notice / Invitation		Bidding Documents as Issued		Proposal Submission / Opening / Minutes		Bid Evaluation Report and Recommendation for Award		Signed Contract		Contract Completion	
											Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual		
YK-G-01 / Bulb-Type Tubular Turbine Generator Set And Appliance Equipment		Component A: Construction of Yakou Complex	Prior	Request for Bids	Open - International	Single Stage - One Envelope		41,554,800.00	0.00	Under Implementation					2016-12-14	2017-03-24	2016-12-19	2017-03-24					2017-01-30	2017-03-01		2017-04-05		2017-10-02
YK-G-02 / 44 arch sluice gates and their embedded parts, emergency gates, living beam and so on		Component A: Construction of Yakou Complex	Prior	Request for Bids	Open - International	Single Stage - One Envelope		20,024,000.00	0.00	Pending Implementation					2017-04-30		2017-04-30						2017-04-30	2017-04-30		2017-05-21		2017-11-17

**NON CONSULTING SERVICES**

Activity Reference No. / Description	Loan / Credit No.	Component	Review Type	Method	Market Approach	Procurement Process	Prequalification (Y/N)	Estimated Amount (US\$)	Actual Amount (US\$)	Process Status	Draft Pre-qualification Documents		Prequalification Evaluation Report		Draft Bidding Document / Justification		Specific Procurement Notice / Invitation		Bidding Documents as Issued		Proposal Submission / Opening / Minutes		Bid Evaluation Report and Recommendation for Award		Signed Contract		Contract Completion	
											Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual		

**CONSULTING FIRMS**

Activity Reference No. / Description	Loan / Credit No.	Component	Review Type	Method	Market Approach	Contract Type	Estimated Amount (US\$)	Actual Amount (US\$)	Process Status	Terms of Reference		Expression of Interest Notice		Short List and Draft Request for Proposals		Request for Proposals as Issued		Opening of Technical Proposals / Minutes		Evaluation of Technical Proposal		Combined Evaluation Report and Draft Negotiated Contract		Signed Contract		Contract Completion	
										Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual		

**INDIVIDUAL CONSULTANTS**

Activity Reference No. / Description	Loan / Credit No.	Component	Review Type	Method	Market Approach	Contract Type	Estimated Amount (US\$)	Actual Amount (US\$)	Process Status	Terms of Reference		Invitation to Identified/Selected Consultant		Draft Negotiated Contract		Signed Contract		Contract Completion	
										Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual		