

Procurement Plan for Yunnan Highway Asset Management Project (Revised on July

Number	Contract Number	Contract Name	Contract Content	Estimated Contract Value	
				CNY (10k)	US\$ (million)
Total				78710	118.36
A. Civil Works				15047	22.63
1. Pilot of Road Segments Maintenance Project in Pavement Maintenance Program				15047	22.63
1	HAMP-CW-01	Pavement rehabilitation using cold pavement recycling	50 km asphalt pavement rehabilitation using cold recycling technology	9887	14.87
2	HAMP-CW-02	Asphalt pavement improvement by using modified asphalt chip seal	80 km asphalt pavement improvement by using modified asphalt chip seal	1200	1.80
3	HAMP-CW-03	Asphalt pavement improvement by using slurry seal	80 km asphalt pavement improvement by using slurry seal	1440	2.17
4	HAMP-CW-04	Asphalt pavement improvement by using microsurfacing	80 km asphalt pavement improvement by using microsurfacing	2520	3.79
B. Goods				57766	86.87
1. Integrated highway asset management information system				30116	45.29
a. Development of information network system				18421	27.70
5	HAMP-GD-01	Computer room furnish and installation	Computer room furnish, power supply system, UPS power system, AC & air fresher, grounding, vibration monitoring, firefighting, security systems, KVM system, equipment cabinet and wiring system	233	0.35
6	HAMP-GD-02	YHB cloud computation data center	1. Computer servers, cloud computation system installation and testing, data center network and storage installation and testing (cloud backup storage, other site storage, fiber optic exchanger, routers, center exchanger), software procurement and installation, associated software and hardware as well as IT operation and maintenance system; 2. Exchangers, center VPN, site VPN, network balancer; 3. RAMS server, storage and supporting software; 4. YHB emergency response system software, emergency center hardware installation and testing; 5. Public information system on-call service system, variable information display system and connection; 6. YHB office operation and service system integration and upgrade; 7. Center database, backup site software and hard ware, data sharing platform, GIS database.	6261	9.42
7	HAMP-GD-03	YHB designated network lease fee	3 year network lease fee	1000	1.50
8	HAMP-GD-04	Emergency response vehicles and associated equipment	8 emergency response vehicles and associated communication equipment	3688	5.55
9	HAMP-GD-05	On-site bridge monitoring equipment installation and testing	The procurement, installation and testing of field monitoring equipment for 8 extra-long bridges	784	1.18
10	HAMP-GD-06	On-site long tunnel monitoring equipment installation and testing	The procurement, installation and testing of field monitoring equipment for 12 large tunnels	2062	3.10
11	HAMP-GD-07	On-site key road monitoring equipment installation and testing	The procurement, installation and testing of field monitoring equipment in 129 key road segments (at toll gates or weighting stations)	2929	4.40
12	HAMP-GD-08	Public information service system	Call center, variable information displays, and controlling system	1464	2.20

b. Development of highway asset management system				11695	17.59
13	HAMP-GD-09	Development of Yunnan road asset management system (RAMS)	Yunnan road asset management system development and system maintenance	780	1.17
14	HAMP-GD-10	Intelligent road inspection vehicle update and improvement	Upgrade and improve two existing intelligent road inspection vehicles	600	0.90
15	HAMP-GD-11	Laser high speed pavement inspection vehicle	One dynamic laser pavement inspection vehicle with defilation measurement function	1700	2.56
16	HAMP-GD-12	Bridge inspection vehicles	8 small bridge inspection vehicles, 1 large bridge inspection vehicle	3720	5.59
17	HAMP-GD-13	Highway asset management emergency maintenance vehicle and equipment	35 maintenance and emergency patrol vehicles with associated equipment	2450	3.68
18	HAMP-GD-14	Continuous and intermittent traffic volume survey equipment	63 permanent automatic traffic recording stations and 80 portable counting sets	2445	3.68
2.Capacity development for highway maintenance and emergency response - equipment for maintenance centers and maintenance stations				23790	35.77
19	HAMP-GD-15	Crawler Excavators and vibration rollers	63 vibration rollers, 16 crawler excavators	4125	6.20
20	HAMP-GD-16	Loaders, slurry sealing machine and others	5 sprinklers, 6 flat trailers, 5 graders, 8 tunnel maintenance vehicles, 3 slurry seal vehicles, 16 loaders	2147	3.23
21	HAMP-GD-17	Small crawler excavators	63 crawler excavators	3528	5.31
22	HAMP-GD-18	Oil heated asphalt heating and storage equipment and asphalt heating and storage tanks	16 oil heated asphalt heating and storage equipment, 63 asphalt heating and storage tanks	3505	5.27
23	HAMP-GD-19	Small milling machine	63 small milling machines	5985	9.00
24	HAMP-GD-20	Five-small-maintenance equipment	1125 sets of five-small-maintenance-equipment (cutting machine, hydraulic power drill, impact rammer, plate ram, single drum roller)	4500	6.77
3. Pilot of road segments maintenance project - pavement cold recycling machine				3860	5.80
25	HAMP-GD-21	pavement cold recycling equipment	1 pavement cold recycling equipment, 3 milling machines, and 3 sets of mobile field mixing equipment	3860	5.80
C. Consulting Services				5897	8.87
1. Capacity development for highway asset management				3277	4.93
26	HAMP-CS-01	Development of highway asset valuation guidelines and conduction of highway asset valuation	development of highway asset valuation guidelines, conduction of highway asset valuation	1620	2.44
27	HAMP-CS-02	Development of highway asset accounting guideline	Development of highway asset accounting guidelines	526	0.79
28	HAMP-CS-03	Development of highway maintenance manual	Development of highway maintenance manual	300	0.45
29	HAMP-CS-04	Highway asset management application	Study on the asset management system for Yunnan trunk highways	308	0.46
30	HAMP-CS-05	Highway safety study	Research on highway safety Yunnan trunk highways	400	0.60

31	HAMP-CS-06	Improving highway performance monitoring indicators	Study on the performance monitoring system for Yunnan trunk highways	123	0.18
2. Consulting services for project management				2620	3.94
32	HAMP-CS-07	YHB highway asset management information system testing	System testing, function and safety testing	310	0.47
33	HAMP-CS-08	Project management consulting service	Consulting services for Information system, highway asset management, project management, external environment monitoring, contract management, financial management, safeguards, etc.	1830	2.75
34	HAMP-CS-09	Ethnic minority development plan monitoring	Social safeguard monitoring	170	0.26
35	HAMP-CS-10	Highway asset management integrated information system construction supervision	Construction supervision for quality, schedule, cost, information and safety, etc.	310	0.47

Notes:

1. The exchange rate \$1.0 = 6.65 CNY
2. The location and mileage of the improved roads will be determined based on the results of field inspections.

/ 25, 2016)

Procurement Method	Prior/Post Review	Target Advertisement Date	Contract Term (year)	Remark
NCB	Prior	10/1/2017	2.0	Note 2
NCB	Post	10/1/2018	1.0	Note 2
NCB	Post	10/1/2018	1.0	Note 2
NCB	Post	10/1/2018	1.0	Note 2
NCB	Prior	8/1/2016	0.5	
NCB	Prior	11/1/2016	5.0	
Shopping	Prior	11/1/2016	1.0	
NCB	Prior	10/1/2016	1.5	
NCB	Prior	3/1/2017	1.0	
NCB	Prior	1/1/2017	1.0	Combination Package
NCB	Prior	1/1/2017	1.0	
NCB	Prior	3/1/2017	1.0	

Shopping	Prior	1/1/2016	5.0	
Shopping	Prior	1/1/2016	1.0	
NCB	Prior	8/1/2016	1.0	
NCB	Prior	2/1/2017	1.0	
NCB	Prior	5/1/2017	2.0	
NCB	Prior	1/1/2017	2.0	
NCB	Prior	8/1/2016	2.0	
NCB	Prior	4/1/2017	1.0	
NCB	Prior	10/1/2016	2.0	
NCB	Prior	8/1/2016	3.0	
NCB	Prior	10/1/2016	2.0	
NCB	Prior	9/1/2017	2.0	
NCB	Prior	3/1/2017	1.0	
QCBS/QBS	Prior	9/1/2016	5.0	
QCBS/QBS	Prior	8/1/2016	5.0	
QCBS/QBS	Post	8/1/2016	5.0	
QCBS/QBS	Prior	3/1/2017	5.0	
QCBS/QBS	Prior	8/1/2016	5.0	

CQS	Post	8/2/2016	5.0	
QCBS	Prior	12/1/2016	4.0	
QCBS	Prior	8/1/2015	5.0	
CQS	Prior	8/1/2015	5.0	
CQS	Prior	8/1/2016	4.0	