

# Updated Resettlement Plan

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May 2017

## PRC: Yunnan Pu'er Regional Integrated Road Network Development Project

Prepared by Pu'er City Transportation Bureau for the Asian Development Bank. This is an updated version of the draft originally posted in October 2015 available on <https://www.adb.org/projects/documents/prc-yunnan-puer-regional-integrated-road-network-devt-ning-er-jiangcheng-longfu-oct-2015-rp>

## ABBREVIATIONS

ADB	-	Asian Development Bank
AH	-	Affected Household
AP	-	Affected Person
DMS	-	Detailed Measurement Survey
HD	-	House Demolition
LA	-	Land Acquisition
M&E	-	Monitoring and Evaluation
PMG	-	Pu'er Municipal Government
PMO	-	Project Management Office
PMTB	-	Pu'er Municipal Transport Bureau
PRC	-	People's Republic of China
RIB	-	Resettlement Information Booklet
RP	-	Resettlement Plan

## Units

Currency unit	=	Yuan (CNY)
1.00 yuan	=	\$0.15
1 hectare	=	15 mu

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# **Yunnan Pu'er Regional Integrated Road Network Development Project**

(Subproject: Ning'er-Jiangcheng-Longfu Highway)

## **Updated Resettlement Plan (Final)**

Pu'er Municipal Transportation Bureau

May 2017

# 江城哈尼族彝族自治县人民政府办公室

## 亚行贷款宁洱—江城—龙富公路项目征地 涉及江城县的确认函

亚行：

兹确认，1. 宁江公路江城段项目土地征收补偿政策及标准将按提交亚行的本次第二版移民计划更新报告中确定的补偿政策和标准执行，该政策和标准已经向受影响人公告。

2. 项目土地征收执行的补偿标准（旱地及园地的补偿标准分别为 10962 元/亩及 12789 元/亩）已经比 2015 年以前实施的本县内项目的征地补偿标准（旱地 1500 元—4000 元/亩，园地 3500 元—4000 元/亩）有了较大提高。

3. 本征地政策及标准符合江城县项目范围之内的社会经济发展水平，已被广大群众所接受，受影响人不会强烈反对此政策和标准。

江城哈尼族彝族自治县人民政府办公室

2017年5月31日



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# 1 Note on Update

## 1.1 Reason for Update

The Ning'er-Jiangcheng-Longfu Highway (hereinafter, the "Subproject") is one of the subprojects of the Yunnan Pu'er Regional Integrated Road Network Development Project (hereinafter, the "Project"). According to ADB's Safeguard Policy Statement (SPS), the Pu'er PMO prepared a RP for the Subproject (hereinafter the "former RP"), which was submitted to and approved by ADB in October 2015, and has been updated.

In January 2016, Pu'er Transport Investment (Group) Co., Ltd. founded the Ningjiang Highway Construction Headquarters, responsible for the construction, quality, progress and safety management of the Subproject, and coordination of LA and HD. Subproject leading groups and PMOs have also been established in Ning'er and Jiangcheng Counties to handle LA, HD and resettlement matters.

In May 2016, the Yunnan Provincial Transport Development approved the construction drawings of the Subproject, and the Pu'er PMO and the Ningjiang Highway Construction Headquarters verified the DMS results, and found that the actual resettlement impacts varied greatly from those identified in the former RP.

According to the ADB Loan Review Memorandum (December 2016), the ADB mission was severely concerned about the increase of the LA area from 2,219 mu in the former RP to 5,900 mu, and advised the Pu'er PMO to update the former RP.

In view of this, the Pu'er PMO re-verified the Subproject's resettlement impacts together with the design agency, Ningjiang Highway Construction Headquarters, Ning'er and Jiangcheng County LA and HD Management Offices, and affected township governments. On this basis, the former RP has been updated.

## 1.2 Details

This update includes:

- 1) Further verifying resettlement impacts based on the fieldwork, and comparing with the former RP;
- 2) Analyzing the realistic reasons for added resettlement impacts based on the fieldwork;
- 3) Reassessing the impacts of the affected villages, including land ownership, type, land loss rate, etc.; and
- 4) Further improving the resettlement programs in the former RP, covering resettlement impacts, impact analysis, compensation, public participation, reconstruction, and resettlement budget, etc.

According to re-survey, focus group discussion, and key informant interview, the entitlement and compensation standards are higher than or same to the 1<sup>st</sup> updated RP except the decrease of compensation rate for non-irrigated land, garden land and earth and timber structure house in Jiangcheng County.

The Jiangcheng County Government explained that the compensation rates, 10,962 yuan/mu and 12,789 yuan/mu for non-irrigated land and orchard land respectively set up in this 2nd updated RP are much higher than previous rates (non-irrigated land: 1,500-4,000 yuan/mu; orchard land: 3,500-4,000 yuan/mu) for domestic projects before 2015. Meanwhile, the policies and rates for land acquisition are compliance with the socioeconomic development of Jiangcheng County which are accepted by local farmers and will not be objected strongly as well. A confirmation letter has been provided by Jiangcheng County Government.

Although the compensation rate for timber and earth structure is decreased, the households affected by HD for the subproject will be included in the poverty reduction program for relocation in order to further protect their lawful rights and interests. The households therefore will be entitled to the policies under this RP and financial support under the above program. The decrease therefore will be offset. See details in Section 3.

As analyzed above, it could conclude that the entitlement/compensation standards are not changed or lowered.

### 1.3 Survey Process

From June to November 2016, the Ningjiang Highway Construction Headquarters, and the Ning'er and Jiangcheng County LA and HD Management Offices conducted a second DMS based on the reviewed construction drawings. On this basis, the Pu'er PMO verified the DMS results in December 2016.

The task force investigated the construction sites of the varied bid packages in Ning'er Town, Mengxian Town, Liming Xiang, Baozang Xiang, Menglie Town and Qushui Town in Ning'er and Jiangcheng Counties. See Table 1-1.

Table 1-1 DMS Details

Date	Scope of survey	Participants
Dec. 26, 2016	LA and HD impacts in Ning'er County	Ningjiang Highway Construction Headquarters, Ning'er and Jiangcheng County LA and HD Management Offices, external M&E agency
Dec. 27, 2016	Field investigation on design changes in the Ning'er segment	Ningjiang Highway Construction Headquarters, Ning'er and Jiangcheng County LA and HD Management Offices, external M&E agency
Dec. 28, 2016	LA and HD impacts in Jiangcheng County	Ningjiang Highway Construction Headquarters, Ning'er and Jiangcheng County LA and HD Management Offices, external M&E agency
Dec. 29, 2016	Field investigation on design changes in the Jiangcheng segment	Ningjiang Highway Construction Headquarters, Ning'er and Jiangcheng County LA and HD Management Offices, external M&E agency

### 1.4 Main Changes in Resettlement Impacts

According to the second DMS, the Subproject's resettlement impacts have varied as follows:

- 1) 6101.9 mu of rural collective land will be acquired, 3882.7 mu more than the former RP; the number of AHs has risen 1,068, but the affected population has dropped 319;
- 2) Rural houses of 40,131.38 m<sup>2</sup> will be demolished, 15062 m<sup>2</sup> more than the former RP, and the number of households and population affected by HD has risen 9 and 64 respectively;
- 3) Since the LA and HD have risen greatly, the resettlement budget is expected to be about 341.2 million yuan, about 233.1 million yuan more than the former RP.

See Table 1-2.

Table 1-2 Comparison of Resettlement Impacts

Resettlement impact		Unit	Former RP	Second DMS in 2016	Difference
LA	Irrigated land	mu	71.7	932.9	+861.2
	Non-irrigated land	mu	397.7	1836.9	+1439.2
	Woodland	mu	1128.7	2175.3	+1046.7
	Tea garden	mu	30.6	726.5	+695.9
	Fruit garden	mu	562.0	268.9	-293.1
	Other land	mu	28.6	161.5	+132.8

Resettlement impact		Unit	Former RP	Second DMS in 2016	Difference
	Subtotal	mu	2219.2	6101.9	+3882.7
	Affected population	HH	1998	3066	+1068
		Person	12234	11915	-319
HD	Masonry concrete	m <sup>2</sup>	15245.02	12639.02	-2606
	Earth timber	m <sup>2</sup>	6923.02	21959.02	+15036
	Simple	m <sup>2</sup>	2901.34	5533.34	+2632
	Subtotal	m <sup>2</sup>	25069.38	40131.38	+15062
	Affected population	HH		315	324
Person			1178	1242	+64
Resettlement costs		0,000 yuan	10811.6	34120.9	+23309.3

## 2 Resettlement Impacts

### 2.1 Affected Area

According to the former RP, 23 villages in 6 townships in Ning'er and Jiangcheng Counties are affected by LA and HD for the Subproject, in which 17 villages are affected by both LA and HD, and 6 by LA only.

According to the second DMS, the affected area has not varied from the former RP. See Table 2-1.

Table 2-1 Range of LA and HD Impacts

City	County	Township	Village	Type of impact	
Pu'er	Ning'er County	Ning'er Town	Minzheng	LA, HD	
			Banhai	LA	
			Manlian	LA, HD	
			Xinping	LA, HD	
			Taida	LA	
			Xishitou	LA	
			Wenquan	LA	
			Yuhe	LA	
		Mengxian Town	Heping	LA	
			Qianle	LA, HD	
			Anning	LA, HD	
			Xuande	LA, HD	
			Yalu	LA, HD	
			Xianren	LA, HD	
	Liming Xiang	Wangjie	LA, HD		
		Tuanshan	LA, HD		
		Jiangcheng County	Baozang Xiang	Shuicheng	LA, HD
			Menglie Town	Banhe	LA, HD
				Jiangbian	LA, HD
				Niuluohu	LA, HD
Qushui Town	Dazhai	LA, HD			
	Basan	LA, HD			
	Nuna	LA, HD			

Source: DMS verification in December 2016

### 2.2 Permanent LA

According to the former RP, 2,219.23 mu of rural collective land will be acquired permanently for the Subproject, including 71.66 mu of irrigated land (3.23%), 397.69 mu of non-irrigated land (17.92%), 1,128.67 mu of woodland (50.86%), 30.58 mu of tea garden (1.38%), 562.00 mu of fruit garden (25.32%) and 28.63 mu of other land (housing land) (1.29%), affecting 1,998 households with 12,234 persons. See Table 2-2.

According to the second DMS, 6101.9 mu of rural collective land will be acquired permanently for the Subproject, including 932.9 mu of irrigated land (15.3%), 1,836.9 mu of non-irrigated land (30.1%), 2,175.3 mu of woodland (35.6%), 726.5 mu of tea garden (11.9%), 268.9 mu of fruit garden (4.4%) and 161.5 mu of other land (2.6%), affecting 3,066 households with 11,915 persons. See Table 2-3.

Through comparison, the LA area has risen 3882.7 mu, including 861.2 mu more of irrigated land, 1439.2 mu more of non-irrigated land, 1,046.7 mu more of woodland, 695.9 mu more of tea garden, 293.1 mu less of fruit garden and 132.87 mu more of other land; the number of AHs has risen 1,068, and the affected population dropped 319. See Table 2-4 and Figure 2-1.

Table 2-2 LA Impacts under the Former RP

County	Township	LA area under the former RP (mu)							Affected	
		Irrigated land	Non-irrigated land	Woodland	Tea garden	Fruit garden	Other land	Total	HHs	Population
Ning'er County	Ning'er Town	11.81	112.93	267.61	25.94	1.91	2.321	422.52	294	1175
	Liming Xiang	3.57	90.8	222.18	0	34.67	2.72	353.93	304	1178
	Mengxian Town	42.8	126.35	175.96	4.64	0.27	3.66	353.68	405	1578
Subtotal		58.18	330.08	665.75	30.58	36.85	8.701	1130.13	1003	3931
Jiangcheng County	Baozang Xiang	2.84	19.76	76.27	0	110.78	6.93	216.58	169	1444
	Menglie Town	10.65	41.23	306.02	0	65.91	11.22	735.02	288	2362
	Qushui Town	13.48	67.61	462.92	0	25.15	19.93	1089.09	538	4497
Subtotal		26.97	128.6	845.21	0	101.84	38.08	2040.69	995	8303
<b>Total</b>		<b>71.66</b>	<b>397.69</b>	<b>1128.67</b>	<b>30.58</b>	<b>562</b>	<b>28.63</b>	<b>2219.23</b>	<b>1998</b>	<b>12234</b>
<b>percentage</b>		3.2%	17.9%	50.9%	1.4%	25.3%	1.3%	100.0%		

Source: RP approved by ADB in October 2015

Table 2-3 Updated LA Impacts

County	Township	Updated LA area (mu)							Affected	
		Irrigated land	Non-irrigated land	Woodland	Tea garden	Fruit garden	Other land	Total	HHs	Population
Ning'er County	Ning'er Town	215.1	612.7	375.7	95.3	51.8	28.3	1378.9	884	3553
	Liming Xiang	139.7	305.0	293.3	28.7	15.8	23.9	806.3	455	1833
	Mengxian Town	249.4	168.0	516.3	10.8	6.7	73.9	1025.2	753	3027
Subtotal		604.2	1085.7	1185.4	134.8	74.3	126.2	3210.5	2092	8413
Jiangcheng County	Baozang Xiang	132.7	208.0	175.1	131.3	43.2	10.7	700.8	325	1248
	Menglie Town	182.0	445.0	719.7	372.1	122.4	24.6	1865.8	522	1878
	Qushui Town	14.0	98.3	95.2	88.3	29.1	0.0	324.8	127	376
Subtotal		328.7	751.3	990.0	591.7	194.6	35.3	2891.4	974	3502
<b>Total</b>		<b>932.9</b>	<b>1836.9</b>	<b>2175.3</b>	<b>726.5</b>	<b>268.9</b>	<b>161.5</b>	<b>6101.9</b>	<b>3066</b>	<b>11915</b>
<b>percentage</b>		15.3%	30.1%	35.6%	11.9%	4.4%	2.6%	100.0%		

Source: DMS verification in December 2016

Table 2-4 Comparison of LA Impacts

County	Township	Difference=Updated LA impacts – LA impacts under the former RP (mu)							Affected	
		Irrigated land	Non- irrigated land	Woodland	Tea garden	Fruit garden	Other land	Total	HHs	Population
Ning'er County	Ning'er Town	203.3	499.8	108.1	69.3	49.9	26.0	956.4	590	2378
	Liming Xiang	136.1	214.2	71.1	28.7	-18.9	21.2	452.4	151	655
	Mengxian Town	206.6	41.7	340.4	6.2	6.5	70.3	671.5	348	1449
Subtotal		<b>546.0</b>	<b>755.6</b>	<b>519.6</b>	<b>104.2</b>	<b>37.4</b>	<b>117.5</b>	<b>2080.4</b>	<b>1089</b>	<b>4482</b>
Jiangcheng County	Baozang Xiang	129.8	188.2	98.8	131.3	-67.6	3.8	484.2	156	-196
	Menglie Town	171.4	403.8	413.7	372.1	56.5	13.4	1130.8	234	-484
	Qushui Town	0.5	30.7	-367.7	88.3	3.9	-19.9	-764.3	-411	-4121
Subtotal		<b>301.7</b>	<b>622.7</b>	<b>144.8</b>	<b>591.7</b>	<b>92.8</b>	<b>-2.8</b>	<b>850.8</b>	<b>-21</b>	<b>-4801</b>
<b>Total</b>		<b>861.2</b>	<b>1439.2</b>	<b>1046.7</b>	<b>695.9</b>	<b>-293.1</b>	<b>132.8</b>	<b>3882.7</b>	<b>1068</b>	<b>-319</b>

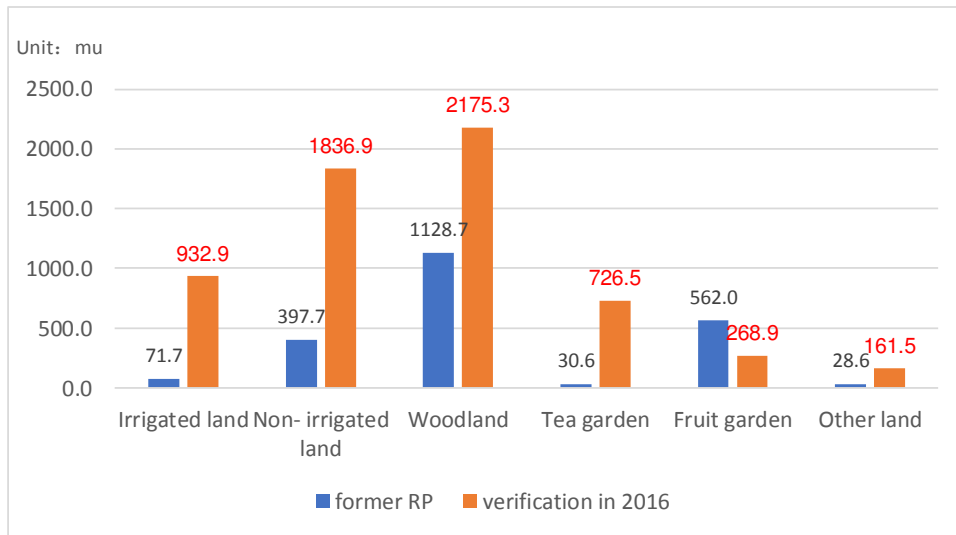


Figure 2-1 Comparison of LA Impacts

The additionally acquired rural collective land is non-irrigated land mainly, accounting for 37.1%; followed by woodland, accounting for 27%, and then irrigated land, accounting for 17.9%; the acquired fruit garden area has dropped 8.2%. See Figure 2-2.

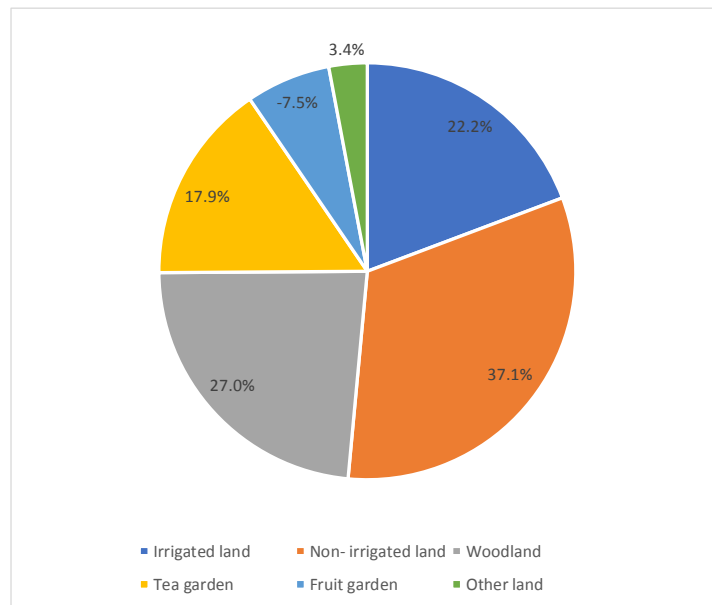


Figure 2-2 Composition of Additional LA Impacts

According to the survey, non-irrigated land is not a main income source or primary means of production for local farmers. The increased acquisition area of non-irrigated land will neither affect the AHs' livelihood structure nor reduce their income sharply. It is also learned that the improvement of transport infrastructure resulting from the Subproject will bring positive impacts to them, so they support the Subproject strongly.

See **Appendix 1** for detailed LA impacts.

### 2.3 HD

According to the former RP, all houses to be demolished for the Subproject are rural residential houses, with a total area of 25,069.38m<sup>2</sup>, affecting 315 households with 1,178 persons in 17

villages in 6 townships in two counties, including 15,245.02 m<sup>2</sup> in masonry concrete structure (60.81%), 6,923.02m<sup>2</sup> in earth timber structure (27.62%), and 2,901.34 m<sup>2</sup> in simple structure (11.57%).

According to the second DMS, all houses to be demolished for the Subproject are still rural residential houses, with a total area of 40,131.38 m<sup>2</sup>, affecting 324 households with 1,242 persons in 16 villages in 6 townships in two counties, including 12,639.02 m<sup>2</sup> in masonry concrete structure (31.5%), 21,959 m<sup>2</sup> in earth timber structure (54.7%), and 5,533.34 m<sup>2</sup> in simple structure (13.8%).

Through comparison, the HD area has increased 15,062m<sup>2</sup>, including 2,606 m<sup>2</sup> less in masonry concrete structure, 15,036 m<sup>2</sup> more in earth timber structure and 2,632 m<sup>2</sup> more in simple structure, affecting 9 more households and 64 more persons. See Table 2-5.

Table 2-5 HD Impacts

County	Township	Village	HD area (m <sup>2</sup> )					Affected	
			Frame	Masonry concrete	Earth timber	Simple	Subtotal	HHs	Population
Ning'er County	Ning'er Town	Manlian	0	250	1750	0	2000	8	33
		Minzheng	0	0	250	0	250	1	4
		Xinping	0	0	750	0	750	3	13
		Subtotal	0	250	2750	0	3000	12	50
	Liming Xiang	Xianren	0	0	4000	750	4750	19	80
		Wangjie	0	0	1750	0	1750	6	25
		Tuanshan	0	0	4000	2000	6000	20	90
		Subtotal	0	0	9750	2750	12500	45	195
	Mengxian Town								
		Anning	0	0	2250	1000	3250	13	56
		Xuande	0	0	3250	750	4000	16	67
		Yalu	0	0	1500	500	2000	8	33
		Subtotal	0	0	7000	2250	9250	37	156
	<b>subtotal</b>	<b>0</b>	<b>250</b>	<b>19500</b>	<b>5000</b>	<b>24750</b>	<b>94</b>	<b>401</b>	
Jiangcheng County	Baozang Town	Shuicheng	0	4655.36	0	0	4655.36	55	190
		Banhe	0	984	196	20	1200	43	148
		Subtotal	0	5639.36	196	20	5855.36	98	338
	Menglie Town	Jiangbian	0	3009.39	0	437.93	3447.32	42	151
		Niuluohu	0	2570	974	0	3544	44	186
		Dazhai	0	170.25	778.74	75.41	1024.4	25	92
		Subtotal	0	5749.64	1752.74	513.34	8015.72	111	429
	Qushui Town	Basan	0	360	450.28	0	810.28	17	59
		Nuna	0	640.02	60	0	700.02	4	15
		Subtotal	0	1000.02	510.28	0	1510.3	21	74
	<b>subtotal</b>	<b>0</b>	<b>12389.02</b>	<b>2459.02</b>	<b>533.34</b>	<b>15381.38</b>	<b>230</b>	<b>841</b>	
	<b>total</b>	<b>0</b>	<b>12639.02</b>	<b>21959.02</b>	<b>5533.34</b>	<b>40131.38</b>	<b>324</b>	<b>1242</b>	
	percentage	0.0%	31.5%	54.7%	13.8%	100.0%	/	/	

Source: DMS verification in December 2016

## 2.4 Permanent Occupation of State-owned Land

According to the former RP, 970.808 mu of state-owned land will be occupied permanently for the Subproject, including 315.28 mu of woodland (32.48%), 654.7 mu of state-owned construction land (67.44%) and 0.828 mu of other land (0.09%).



According to the second DMS, 1,591.708 mu of state-owned land will be occupied permanently for the Subproject, an increase of 39.08%, affecting no one.

## 2.5 Temporary Land Occupation

The land occupied temporarily during construction includes land occupied for the borrow area, living area, access road, etc. According to the former RP, 150 mu of land will be occupied temporarily for the Subproject.

According to the second DMS, the temporarily occupied land area will rise 35%-50% due to road changes, and be within the range of 202.5-225 mu. The construction agency is required to restore the temporarily occupied land properly, and fully protect the AHs' rights and interests.

## 2.6 Reasons for Changes

During project construction re-survey, Pu'er PMO together with Ningjiang Highway Construction Headquarters, Ning'er and Jiangcheng County LA and HD Management Offices, design institute, and the contractors optimized the alignment of the road and land use of the Subproject. Some sections of roads have been adjusted due to bad geographic condition and landslide, which result in increase of land acquisition. Meanwhile, in order to avoid house demolition and relocation, some sections were also optimized. See details in Table 2-6.

Table 2-6 optimization of design and resettlement impact

No	section	county	reason of realignment	Resettlement impact
1	K0+308~K0+400	Ning'er	Avoid residential house demolition	Decrease of 6 households with 600 m <sup>2</sup> houses, but increase of land acquisition
2	K14+200~K16+167	Ning'er	Avoid movement of high voltage tower	Decrease of two 110KV high voltage towers' movement, but increase of land acquisition
3	K74+500~K75+040	Ning'er	bad geographic condition and landslide	Increase of land acquisition after realignment
4	K74+670~K74+840	Ning'er	bad geographic condition and landslide	Increase of land acquisition after realignment
5	K145+260~K145+755.09	Jiangcheng	Avoid house demolition	Decrease of 1 household with 300 m <sup>2</sup> two storied houses, but increase of land acquisition
6	K160+257.76~K160+507.7	Jiangcheng	Avoid house demolition	Decrease of 1 household with 400 m <sup>2</sup> three storied houses, but increase of land acquisition
7	K185+680~K185+997.87	Jiangcheng	Avoid house demolition	Decrease of 1500 m <sup>2</sup> houses of Niuluohe tea farm, but increase of land acquisition
8	K221+600~K221+837.86	Jiangcheng	Avoid house demolition	Decrease of 5 households with 600 m <sup>2</sup> in Longdognhe village group, but increase of land acquisition

No	section	county	reason of realignment	Resettlement impact
9	K227+300~K227+732.12	Jiangcheng	bad geographic condition and landslide	Increase of land acquisition after realignment

Thus, according to the final RP and relevant statistics, the land area used for the Subproject will rise 4503.6 mu, including 3882.7 mu of collective land and 620.9 mu of state-owned land. The main reasons are as follows:

(1) The highway main line K59+900~K145+300 will be constructed as Class 3 instead of Class 4;

(2) Local design changes: 1) The length of K29+868.986~K30+692.986 is 6.929km instead of 4.231km, involving the acquisition of 90 mu of additional land; 2) side slop protection has been cancelled for the Ning'er segment, involving additional LA for the sake of safety; and 3) The newly added Mengxian Town connecting line has led to additional land use;

(3) Some marginal land not within the boundary line has been acquired along;

(4) 620.9 mu of state-owned land in the Jiangcheng segment has not been included in the former RP.

See **Appendix 2** for the construction sites with design change.

## 2.7 LA Impact Analysis

Since the land occupied for the Subproject is linear in shape, and existing roads are utilized where possible, overall LA impacts are minor. The specific changes are as follows:

1. The overall land loss rate of the Subproject is 3.9%, as compared to 0.30% in the former RP; but the land loss rate is still less than 5%;

2. Niuluohe and Dazhai Villages are affected by LA most, with land loss rates of 18.3% and 15.7% respectively, much more than those described in the former RP; the land loss rates of the other villages have risen 2-4%;

3. 57.99% of the AHs have land loss rates of less than 5%, 37.80% have land loss rates of 5-10%, and 4.2% have land loss rates of 10-20%.

4. Income loss rate ranges from 5.3% (Wangjie Village, higher than 1.6% in the former RP) to 1% (Yalu Village), without any dramatic rise from the former RP.

See Table 2-7, Table 2-8, Table 2-9 and Table 2-10

Table 2-7 LA Impacts of the Subproject

County	Township	Village	Basic situation before LA			LA impact			LA impact			
			HHs	Population	Cultivated area (mu)	HHs	Population	Affected cultivated area	Percent of HHs (%)	Percent population (%)	Land loss rate (%)	
Ning'er County	ing'er Town	Minzheng	656	2522	5823.7	63	241	53.4	9.6%	9.6%	0.9%	
		Banhai	362	1356	2979	107	411	137.8	29.6%	30.3%	4.6%	
		Manlian	788	2803	6648	181	717	197.5	23.0%	25.6%	3.0%	
		Xinping	1049	3581	3586.5	262	1070	241.0	25.0%	29.9%	6.7%	
		Taida	922	3148	6322.2	4	21	3.8	0.4%	0.7%	0.1%	
		Xishitou	793	2722	3701	115	467	93.2	14.5%	17.2%	2.5%	
		Wenquan	871	2730	6370.8	140	566	633.6	16.1%	20.7%	9.9%	
	Liming Xiang	Yuhe	1063	3659	1065.89	12	60	18.6	1.1%	1.6%	1.7%	
		Xianren	430	1922	4481	154	618	275.1	35.8%	32.2%	6.1%	
		Wangjie	499	2289	6350	114	457	297.2	22.8%	20.0%	4.7%	
	Mengxian Town	Tuanshan	369	1014	3523	187	758	234.1	50.7%	74.8%	6.6%	
		Heping	921	3889	7200	243	984	455.2	26.4%	25.3%	6.3%	
		Qianle	359	1508	4200	57	234	20.8	15.9%	15.5%	0.5%	
		Anning	518	2097	5100	95	370	50.0	18.3%	17.6%	1.0%	
		Xuande	746	3207	7200	196	793	136.8	26.3%	24.7%	1.9%	
Jiangcheng County	Baozang Town	Yalu	473	2078	6200	162	646	362.4	34.2%	31.1%	5.8%	
		Shuicheng	527	2244	6200	218	919	525.9	41.4%	41.0%	8.5%	
	Menglie Town	Banhe	264	1209	5200	107	329	174.9	40.5%	27.2%	3.4%	
		Jiangbian	507	2047	11093.5	257	941	516.5	50.7%	46.0%	4.7%	
		Niuluohe	344	1221	2550	87	180	465.5	25.3%	14.7%	18.3%	
	Qushui Town	Dazhai	389	1526	5612	178	757	883.9	45.8%	49.6%	15.7%	
		Basan	478	2165	18100	62	198	180.9	13.0%	9.1%	1.0%	
		Nuna	527	2186	27600	65	178	143.9	12.3%	8.1%	0.5%	
	Total			13855	53123	157106.59	3066	11915	6101.9	22.1%	22.4%	3.9%

Table 2-8 Land Loss Rates of AHs

County	Township	Village	Land loss rate										Total	
			0-5%		5-10%		10-20%		20-50%		>50%			
			HHs	Population	HHs	Population	HHs	Population	HHs	Population	HHs	Population	HHs	Population
Ning'er	Ning'er	Minzheng	14	241	0	0	0	0	0	0	0	0	63	241

County	Township	Village	Land loss rate										Total	
			0-5%		5-10%		10-20%		20-50%		>50%			
			Hhs	Population	Hhs	Population	Hhs	Population	Hhs	Population	Hhs	Population	Hhs	Population
County	Town	Banhai	82	293	25	118	0	0	0	0	0	0	107	411
		Manlian	141	601	40	116	0	0	0	0	0	0	181	717
		Xinping	195	830	67	240	0	0	0	0	0	0	262	1070
		Taida	4	21	0	0	0	0	0	0	0	0	4	21
		Xishitou	88	372	27	95	0	0	0	0	0	0	115	467
		Wenquan	103	401	37	165	0	0	0	0	0	0	140	566
		Yuhe	11	57	1	3	0	0	0	0	0	0	12	60
	Liming Xiang	Xianren	137	519	17	99	0	0	0	0	0	0	154	618
		Wangjie	93	393	21	64	0	0	0	0	0	0	114	457
		Tuanshan	145	576	42	182	0	0	0	0	0	0	187	758
	Mengxian Town	Heping	169	701	74	283	0	0	0	0	0	0	243	984
		Qianle	33	159	24	75	0	0	0	0	0	0	57	234
		Anning	25	101	70	269	0	0	0	0	0	0	95	370
		Xuande	149	554	47	239	0	0	0	0	0	0	196	793
		Yalu	148	586	14	60	0	0	0	0	0	0	162	646
Jiangcheng County	Baozang Town	Shuicheng	156	663	62	256	0	0	0	0	0	0	218	919
		Banhe	95	272	12	57	0	0	0	0	0	0	107	329
	Menglie Town	Jiangbian	231	877	26	64	0	0	0	0	0	0	257	941
		Niuluohe	67	105	15	47	5	28	0	0	0	0	87	180
		Dazhai	120	577	57	176	1	4	0	0	0	0	178	757
	Qushui Town	Basan	44	158	18	40	0	0	0	0	0	0	62	198
		Nuna	55	128	10	50	0	0	0	0	0	0	65	178
<b>Total</b>			<b>2305</b>	<b>9185</b>	<b>706</b>	<b>2698</b>	<b>6</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3066</b>	<b>11915</b>

Table 2-9 Loss Rates of Cultivated Land

Existing cultivated area	Loss rate					Subtotal
	<5%	5-10%	10-20%	20-50%	>50%	
<1 mu	6	598	99	0	0	703
1-3 mu	594	276	23	0	0	893
3-5 mu	561	234	2	0	0	797
>=5 mu	617	51	5	0	0	673
<b>Total</b>	<b>1778</b>	<b>1159</b>	<b>129</b>	<b>0</b>	<b>0</b>	<b>3066</b>

Table 2-10 Income Losses from LA

County	Township	Village	LA area (mu)		Affected		Gross annual loss (yuan)	Annual loss per HH (yuan)	Annual loss per capita (yuan)	Loss rate of per capita net income (%) <sup>1</sup>	AHs' annual disposable income (yuan) <sup>2</sup>
			Irrigated land	Non-irrigated land	HHs	Population					
Ning'er County	Ning'er Town	Minzheng	1.5	51.9	63	241	54155	859.6	224.7	2.5%	4556
		Banhai	61.6	47.3	107	411	139665	1305.3	339.8	3.8%	4530
		Manlian	20.1	166.3	181	717	196485	1085.6	274.0	3.1%	4395
		Xinping	85.2	122.6	262	1070	250380	955.6	234.0	2.4%	4803
		Taida	0.5	2.4	4	21	3205	801.3	152.6	1.5%	4967
		Xishitou	31.3	41.5	115	467	88445	769.1	189.4	2.1%	4512
		Wenquan	14.9	173.6	140	566	195965	1399.8	346.2	3.7%	4637
	Liming Xiang	Yuhe	0.1	7.0	12	60	7095	591.3	118.3	1.3%	4617
		Xianren	66.7	67.0	154	618	167040	1084.7	270.3	2.7%	4925
		Wangjie	49.1	175.7	114	457	249325	2187.1	545.6	5.3%	5150
	Mengxian Town	Tuanshan	23.9	62.2	187	758	98135	524.8	129.5	1.1%	6063
		Heping	128.5	75.7	243	984	268440	1104.7	272.8	2.3%	6014
		Qianle	19.7	1.1	57	234	30610	537.0	130.8	1.1%	6001
		Anning	31.2	14.0	95	370	60810	640.1	164.4	1.4%	5975
		Xuande	48.0	33.8	196	793	105810	539.8	133.4	1.1%	5996
	Yalu	22.0	43.4	162	646	76405	471.6	118.3	1.0%	5958	
Jiangcheng County	Baozang Town	Shuicheng	108.5	160.1	218	919	322912	1481.2	351.4	3.8%	4660
		Banhe	24.1	47.9	107	329	84028	785.3	255.4	2.8%	4637
	Menglie Town	Jiangbian	66.9	223.9	257	941	324163.5	1261.3	344.5	2.5%	6850
		Niuluohu	2.9	72.0	87	180	76421.5	878.4	424.6	3.1%	6931
		Dazhai	112.2	149.1	178	757	317465	1783.5	419.4	4.6%	4596
	Qushui Town	Basan	10.0	46.6	62	198	61584	993.3	311.0	3.0%	5100
	Nuna	4.0	51.7	65	178	57660	887.1	323.9	3.1%	5150	

<sup>1</sup> In the subproject area, the annual output value of Irrigated land is 1,500 yuan, and that of non-irrigated land 1,000 yuan. Annual income loss rate = annual per capita loss / 2 / annual disposable income

<sup>2</sup> This data is abstracted from Section 3.4 of the former RP.

### 3 Compensation Policies and Rates

#### 3.1 LA

Since the approval of the former RP by ADB, detailed LA and HD programs have been developed for Ning'er and Jiangcheng Counties.

1. On June 30, 2016, the Notice of the Ning'er County Government on Issuing the LA and HD Program for the Ning'er-Jiangcheng-Longfu Highway (Ning'er Segment) (NCG [2016] No.24) was issued (**Appendix 3**).

2. On June 23, 2015, the Notice of the Jiangcheng County Government on Compensation Rates for Collective Land and Ground Attachments Affected by the Provincial Highway 245 Ning'er to China-Vietnam No.3 Boundary Marker in Jiangcheng Segment Reconstruction Project, and the Lixian River Hydropower Station Cascade Reservoir Group Infrastructure Construction Project (JCG [2015] No.146) was issued (**Appendix 4**).

3. On November 27, 2015, the Letter of the General Office of the Jiangcheng County Government on Revision Opinions on the Resettlement Plan of the Yunnan Pu'er Regional Integrated Road Network Development Project (Jiangcheng Segment) (JCGO [2015] No.31) was issued (**Appendix 5**).

The LA compensation rates have varied for some extent:

First, the compensation rates for irrigated land, non-irrigated land and woodland of the Ning'er segment have risen, by 20,000 yuan/mu for irrigated land in Xinping, Taida and Xishitou Villages, by 10,000 yuan/mu for irrigated land in Qianle, Anning, Xuande, Yalu and Xianren Villages, and by 1,200 yuan/mu for woodland throughout the county.

Second, the compensation rates for non-irrigated land and garden land in Jiangcheng County have dropped 14,575 yuan/mu and 12,748 yuan/mu respectively, and that for woodland risen by 1,354 yuan/mu.

For the drop of the compensation rates for non-irrigated land and garden land in Jiangcheng County, Document JCGO [2015] No.31 points out that the compensation rates in Document JCG [2015] No.146 (10,962 yuan/mu and 12,789 yuan/mu for non-irrigated land and garden land respectively), which are accepted by local farmers, are much higher than previous rates (non-irrigated land: 1,500-4,000 yuan/mu; garden land: 3,500-4,000 yuan/mu) for domestic projects before 2015. If the compensation rates in the former RP are followed, unnecessary social risks may arise due to big difference of compensation rates for different projects. Therefore, in order to avoid the social risks, it is suggested by Jiangcheng county that the compensation rates should be complied with Document JCG [2015] No.146; see Table 3-1.

Table 3-1 Changes of LA Compensation Rates

Unit: yuan/mu

County	Township	Village	Rate under the former RP				Rate under the updated RP						Difference				
			Irrigated land	Non-irrigated land	Garden land	Woodland	Irrigated land	Non-irrigated land	Garden land	Woodland	Housing land	Housing land	Irrigated land	Non-irrigated land	Garden land	Woodland	Housing land
Ning'er County	Ning'er Town	Minzheng	60000	40000	30000	3800	60000	40000	30000	5000	30000	30000	0	0	0	+1200	0
		Banhai	60000	40000	30000	3800	60000	40000	30000	5000	30000	30000	0	0	0	+1200	0
		Manlian	60000	40000	30000	3800	60000	40000	30000	5000	30000	30000	0	0	0	+1200	0
		Xinping	60000	40000	30000	3800	80000	40000	30000	5000	30000	30000	+20000	0	0	+1200	0
		Taida	60000	40000	30000	3800	80000	40000	30000	5000	30000	30000	+20000	0	0	+1200	0
		Xishitou	60000	40000	30000	3800	80000	40000	30000	5000	30000	30000	+20000	0	0	+1200	0
		Wenquan	60000	40000	30000	3800	60000	40000	30000	5000	30000	30000	0	0	0	+1200	0
	Yuhe	60000	40000	30000	3800	60000	40000	30000	5000	30000	30000	0	0	0	+1200	0	
	Mengxian Town	Heping	40000	25000	15000	3800	40000	25000	15000	5000	30000	30000	0	0	0	+1200	0
		Qianle	30000	20000	15000	3800	40000	25000	15000	5000	30000	30000	+10000	5000	0	+1200	0
		Anning	30000	20000	15000	3800	40000	25000	15000	5000	30000	30000	+10000	5000	0	+1200	0
		Xuande	30000	20000	15000	3800	40000	25000	15000	5000	30000	30000	+10000	5000	0	+1200	0
		Yalu	30000	20000	15000	3800	40000	25000	15000	5000	30000	30000	+10000	5000	0	+1200	0
	Liming Xiang	Xianren	30000	20000	15000	3800	40000	25000	15000	5000	30000	30000	+10000	5000	0	+1200	0
		Wangjie	40000	25000	15000	3800	40000	25000	15000	5000	30000	30000	0	0	0	+1200	0
Tuanshan		30000	20000	15000	3800	40000	25000	15000	5000	30000	30000	+10000	5000	0	+1200	0	
Jiangcheng County	Baozang Xiang	Shuicheng	43848	25537	25537	3800	43848	10962	12789	5154	20000	20000	0	-14575	-12748	+1354	0
		Banhe	43848	25537	25537	3800	43848	10962	12789	5154	20000	20000	0	-14575	-12748	+1354	0
	Menglie Town	Jiangbian	43848	27686	27686	3800	43848	10962	12789	5154	20000	20000	0	-16724	-14897	+1354	0
		Niuluohe	43848	27686	27686	3800	43848	10962	12789	5154	20000	20000	0	-16724	-14897	+1354	0
		Dazhai	43848	27686	27686	3800	43848	10962	12789	5154	20000	20000	0	-16724	-14897	+1354	0
	Qushui Town	Basan	43848	25537	25537	3800	43848	10962	12789	5154	20000	20000	0	-14575	-12748	+1354	0
Nuna		43848	25537	25537	3800	43848	10962	12789	5154	20000	20000	0	-14575	-12748	+1354	0	

### 3.2 HD

According to the second DMS, the HD compensation rates of Ning'er County increased. The compensation rate for earth timber structure of Jiangcheng County decreased 310 Yuan/m<sup>2</sup> compared with the former RP. See details in Table 3-2.

According to the survey, the households affected by HD for the Subproject will be included in the poverty reduction program for relocation in order to further protect their lawful rights and interests. The AHs affected by the Subproject will be entitled to the policies under this RP and financial support under the above program. 30,000Yuan will be subsidized for reconstruction of Masonry concrete house in Jiangcheng County. Meanwhile, 15,381 m<sup>2</sup> houses with 230 households will be demolished. Based on these, it could be calculated that compensation rate for house demolition will increase 449 Yuan/m<sup>2</sup>, which could offset the decrease of 310 Yuan/m<sup>2</sup>. The details please refer to the contents in this section.

Table 3-2 HD Compensation Rates

Structural type	Yuan/m <sup>2</sup>					
	Rate under the former RP		Rate under the updated RP		Difference	
	Ning'er County	Jiangcheng County	Ning'er County	Jiangcheng County	Ning'er County	Jiangcheng County
Masonry concrete	1400	1400	1500	1440	+100	+40
Earth timber	700	700	800	390	+100	-310
simple	150	240	400	240	+250	+0

In addition, the AHs will receive moving and transition subsidies at the rates of 1,200 yuan per household and 4,800 yuan per household respectively.

The households affected by HD for the Subproject will be included in the poverty reduction program for relocation in order to further protect their lawful rights and interests. This means that they will be entitled to the policies under this RP and financial support under the above program.

In February 2016, the Implementation Plan for Poverty Reduction for Relocation of Ning'er County (NCGO [2016] No.12) was issued, under which the AHs in Ning'er County are entitled to the following:

**1. Fiscal subsidy:** Each registered poor household will receive a subsidy of 40,000 yuan (including 5,000 yuan for styling) for house construction.

**2. Lending and interest discount:** A rural household willing to build a new house may apply for a house construction loan of 60,000 yuan with the bank, with a term of 20 years. The household is entitled to interest discount by the government in the first 3 years, bears full interest after the first 3 years, and repays the principal at maturity.

**3. Fund disbursement:** The subsidy will be disbursed based on construction progress, namely 50% upon commencement, 45% upon completion and 5% after handover.

In November 2016, the Notice of the General Office of the Jiangcheng County Government on Further Strengthening Poverty Reduction for Relocation and Rural Dilapidated House Reconstruction for Poor Households (JCGO [2016] No.109), under which the AHs in Jiangcheng County are entitled to the following:

#### 1. Subsidization mode

Each household will raise construction funds itself mainly, and also receive government assistance based on construction standard, cost and affordability. Rural five-guarantee households subject to scattered support in a village may be resettled (supported) centrally. For any destitute



household unable to raise funds itself, the county government will finance a 30-40 m<sup>2</sup> basic house. Any solvent household may be granted a loan of 30,000 yuan with interest discount by the government for 3 years.

**2. Subsidy rates for house construction**

1) Each registered poor household will receive a subsidy of 40,000 yuan, plus 20,000 yuan after handover.

2) Each rural household subject to poverty reduction for relocation will receive a subsidy of 30,000 yuan, and be granted a discount loan of 30,000-50,000 yuan.

## **4 Livelihood Restoration and Resettlement**

The livelihood restoration and resettlement program of the Subproject<sup>3</sup> is similar to that in the former RP.

### **4.1 LA and Income Restoration**

The objective of resettlement of the Subproject is to ensure that the APs receive full compensation for their losses, reasonable resettlement and good restoration so that they share the Subproject's benefits and assisted in overcoming temporary difficulties, and that their living standard is improved or at least restored to the pre-project level.

In general, LA for the Project will have minor impacts, and income losses can be made up through cash compensation, land reallocation, and direct or indirect employment. Almost all AHs support the Project because it will promote local economic development and income growth.

The Pu'er PMO, Ningjiang Highway Construction Headquarters, and Ning'er and Jiangcheng County LA and HD Management Offices have developed the resettlement program through discussion in the form of focus group discussion in every affected village, and based on local conditions: 1) granting cash compensation; and 2) offering training and employment opportunities to the AHs with priority. If the APs prefer direct employment during project construction or maintenance, the county transport bureaus will offer training; if they prefer indirect employment, the county labor and social security bureaus will offer training.

### **4.2 Resettlement**

The households affected by HD for the Subproject may choose centralized or scattered resettlement.

New houses will be constructed before old houses are demolished. In case of demolition before construction, a transition subsidy of 4,800 yuan per household will be paid for a period of not more than 6 months. In addition, each AH will receive a moving subsidy of 1,200 yuan.

<sup>3</sup> See the relevant section of the former RP.

## 5 Organizational Structure

### 5.1 Organizational Setup

To ensure successful resettlement as desired, a systematic organizational structure must be established during project implementation in order to plan, coordinate and monitor resettlement activities.

The Pu'er Municipal Government is the executing agency of the Subproject, and PMTB is the implement agency. The Pu'er PMO is established under PMTB, responsible for routine management, coordination and communication with ADB.

In January 2016, Pu'er Transport Investment (Group) Co., Ltd. founded the Ningjiang Highway Construction Headquarters, responsible for the construction, quality, progress and safety management of the Subproject, and coordination of LA and HD. Subproject leading groups and PMOs have also been established in Ning'er and Jiangcheng Counties to handle LA, HD and resettlement matters.

The agencies responsible for resettlement are as follows:

- Pu'er Subproject Leading Group
- PMTB
- Pu'er PMO
- Ningjiang Highway Construction Headquarters
- County subproject leading groups
- County PMOs
- County LA and HD management offices
- Township governments
- Village committees
- Design agency
- External M&E agency

See Figure 5-1.

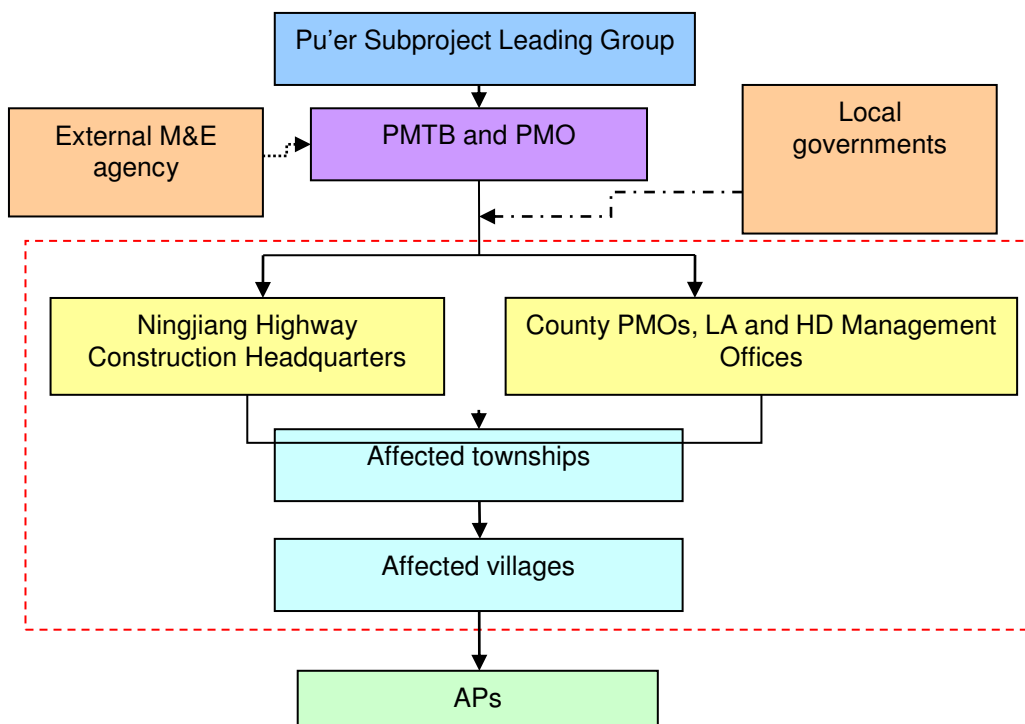


Figure 5-1 Organizational Structure

## 5.1 Staffing and Equipment

In order to ensure the successful implementation of the resettlement work, all resettlement agencies of the Subproject have been provided with full-time staff, and a smooth channel of communication has been established. See Table 5-1.

Table 5-1 Staffing of Resettlement Agencies

Agency	Staffing		Composition
	Male	Female	
Pu'er Subproject Leading Group	3	2	Civil servants
Pu'er PMO	2	2	Civil servants, technicians
Ningjiang Highway Construction Headquarters	33		Civil servants, technicians
Ning'er PMO	2	1	Civil servants, technicians
Jiangcheng PMO	2	1	Civil servants
Ning'er LA and HD Management Office	2	2	Civil servants
Jiangcheng LA and HD Management Office	2	2	Civil servants
Township governments	2	2	Civil servants
Village committees	6	6	Village officials, APs
Design agency	2	1	Engineers
External M&E agency	4-8		Resettlement/social experts

All resettlement agencies of the Subproject have been provided basic office, transport and communication equipment, including desks and chairs, PCs, printers, telephones, facsimile machines and vehicles.

In order to ensure the successful implementation of resettlement, the resettlement staff was trained by ADB's resettlement officials under the leadership of the Pu'er PMO in April 2016, covering the involuntary resettlement policy, RP preparation, issues arising from resettlement implementation, resettlement M&E, etc.



Figure 5-2 Training at the Pu'er PMO in April 2016

In addition, the Pu'er PMO will offer further training as necessary to strengthen capacity building.

## 6 Public Participation and Information Disclosure

In order to further protect the rights and interests of the APs, particular attention will be paid to public participation and information disclosure. The following activities have been conducted since the beginning of resettlement:

First, a LA compensation announcement was published at public places.

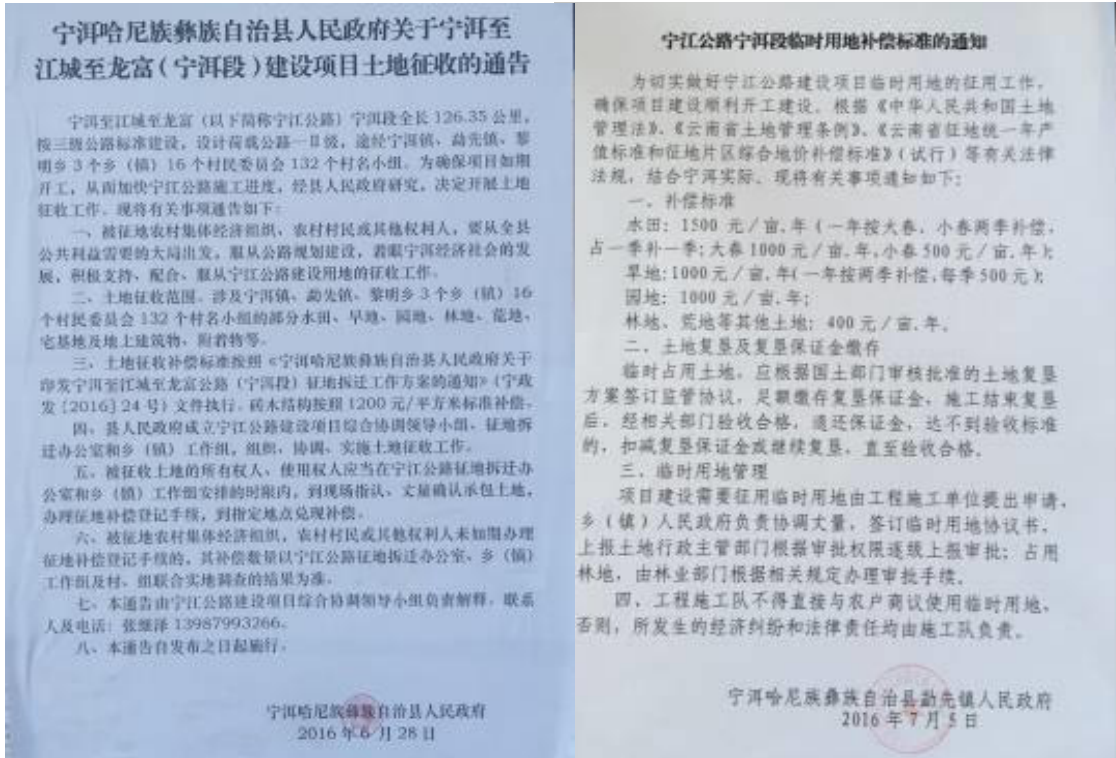


Figure 6-1 Published LA Compensation Announcement

Second, the second DMS was conducted in a door-to-door manner to fully protect the APs' rights to know and participation, and property rights.



Figure 6-2 DMS Photos

Third, compensation, resettlement and measurement details were published at public places.

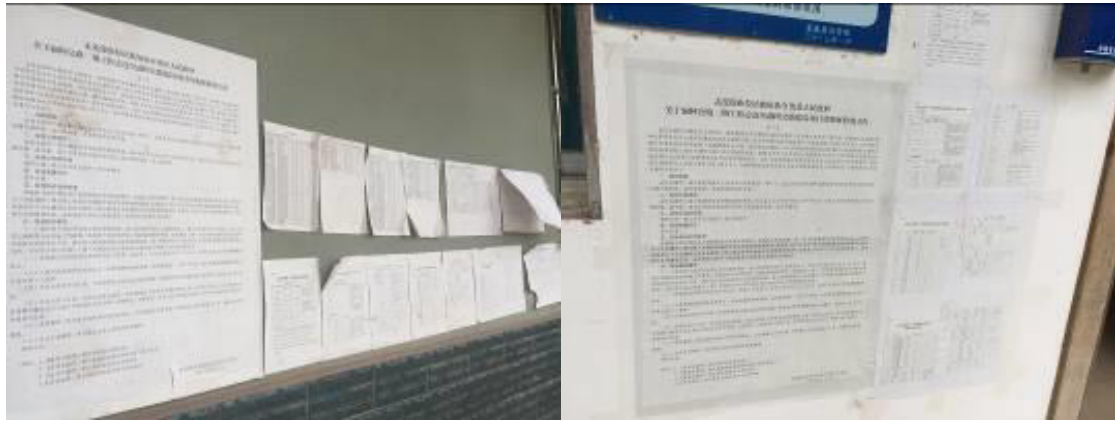


Figure 6-3 Published DMS Results

Fourth, the consultations and villager meetings have been held in affected villages to propagandize the policies and rates of land acquisition, house demolition and resettlement, so that affected person could understand LAR policies of the subproject well to support the project and LAR.



Figure 6-4 consultation and village meeting

In addition, the Pu'er PMO will disclose subproject and resettlement information according to the public participation and information disclosure plan in the former RP.

## 7 Resettlement Budget

### 7.1 Resettlement Budget

Direct resettlement costs include compensation for LA, HD and ground attachments, planning and monitoring costs, management costs, training costs, contingencies, etc.

Based on prices in the second half of 2016, the resettlement budget of the Subproject is about 344.1 million yuan, about 233.1 million yuan more than the former RP, including basic resettlement costs of about 163.4 million yuan, accounting for 47.9%, and indirect costs of 177.8 million yuan, accounting for 52.1%.

See Table 7-1 and **Appendix 6**.

Table 7-1 Resettlement Budget

No.	Item	Costs (0,000 yuan)			Percent
		Ning'er	Jiangcheng	Subtotal	
1	LA compensation	7985.7	3851.0	11836.7	34.7%
2	Young crop compensation	199.2	124.4	323.6	0.9%
3	Compensation for temporary land occupation	140.0	20.0	160.0	0.5%
4	HD compensation	1773.9	2030.7	3804.6	11.2%
5	Attachment compensation	114.9	103.0	217.9	0.6%
Basic resettlement costs (subtotal of Items 1-5)		<b>10213.7</b>	<b>6129.1</b>	<b>16342.8</b>	<b>47.9%</b>
6	Land reclamation costs (irrigated land)	634.4	345.1	979.5	2.9%
7	Land reclamation costs (non-irrigated land)	977.1	676.1	1653.2	4.8%
8	Farmland occupation tax	2253.3	1439.9	3693.2	10.8%
9	Compensation for use of additional construction land	1577.2	1007.9	2585.0	7.6%
10	Endowment insurance for land-expropriated farmers	3379.7	2159.8	5539.6	16.2%
11	Risk reserve for land-expropriated farmers	225.4	144.1	369.5	1.1%
12	LA management costs	214.5	128.7	343.2	1.0%
13	Survey and design costs	102.1	61.3	163.4	0.5%
14	Management costs	204.3	122.6	326.9	1.0%
15	Skills training costs	204.3	122.6	326.9	1.0%
16	External M&E costs	102.1	61.3	163.4	0.5%
17	Contingencies	1021.4	612.9	1634.3	4.8%
Subtotal of Items 6-17		<b>10895.8</b>	<b>6882.3</b>	<b>17778.1</b>	<b>52.1%</b>
18	<b>Total</b>	<b>21109.5</b>	<b>13011.4</b>	<b>34120.9</b>	<b>100.0%</b>
19	<b>Percent</b>	61.9%	38.1%	100.0%	/

### 7.2 Annual Investment Plan

Before or during project construction, the investment plan will be implemented in stages in order not to affect the production and livelihoods of the AHs. See Table 7-2.

Table 7-2 Annual Investment Plan

Year	2016	2017	2018	Subtotal
Investment (0,000 yuan)	6824.2	20472.5	6824.2	34120.9
Percent	20%	60%	20%	100%

### 7.3 Disbursement and Management of Resettlement Funds

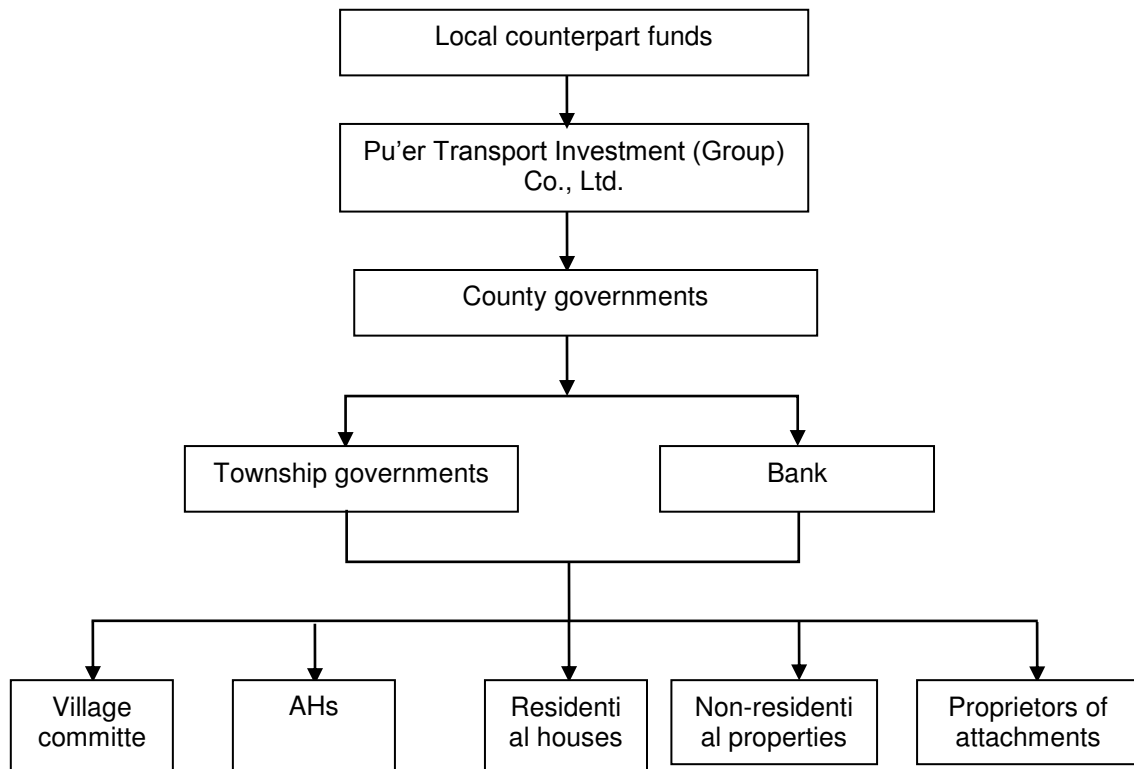
All costs incurred during LA and resettlement will be included in the general budget of the Subproject. Local governments will pay the compensation fees for acquisition and removal and other expenditures to affected collectives and individuals through the county resettlement offices. According to the consultation results, all the compensation for acquired land which is contracted by farmers is paid directly to them in cash.



Prior to construction of the new houses, the compensation fees will be paid to the AHs; if this payment will be provided in installment, the final payment shall be paid prior to the house completion.

The compensation fees for land acquisition and other facilities shall be paid to relevant communities and individuals 3 months before LA.

In order to ensure a smooth implementation of the RP, the Pu'er PMO and county PMOs will set up an audit mechanism in the resettlement offices at all levels, so as to guarantee all the money to be paid to the APs is paid as specified. Also, the utilization of the collective compensation (rehabilitation expenditures) by the village committees will be subject to annual audit.



**Figure 7-1 Fund Disbursement Flowchart**

The county finance and audit departments have the power to monitor and audit the use of resettlement funds. The external M&E agency will perform follow-up monitoring on the availability of compensation fees for the AHs and the affected entities during external monitoring.

## 8 Resettlement Implementation Schedule

### 8.1 Principles for Resettlement Implementation

The schedule for LA and resettlement will be integrated with the schedule of construction. The following principles will be observed during resettlement implementation:

1. HD should be carried out in stages in accordance with the construction schedule, but completed before the commencement of construction.
2. HD should be informed to the APs at least 3 months in advance, but 3 months should be allowed for the APs to build new houses before HD deadline.
3. The house construction period should be fixed in full consultation with the APs, and may be extended if necessary.
4. LA and compensation should be formally approved.
5. LA and compensation payments shall be completed before the commencement of construction.
6. The restoration of special facilities shall be completed before the commencement of construction or the completion of relocation. The duration of disruption of irrigation canals, drainage, communication lines and local roads should be minimized and scheduled to avoid production losses, otherwise the APs will be entitled to compensation for transition.

### 8.2 Resettlement Implementation Schedule

The general resettlement schedule of the Subproject has been drafted based on the progress of project construction, LA and HD, and resettlement preparation and implementation. The exact implementation schedule may be adjusted due to deviations in overall project progress. See Table 8-1.

Table 8-1 Resettlement Implementation Schedule

No.	Task	Target	Agencies responsible	Time	Remarks
<b>1</b>	<b>Information disclosure</b>				
1.1	RIB	23 villages	County PMOs, county resettlement offices	Mid July 2014	Completed
1.2	Disclosure of the first draft RP on ADB's website	/	Pu'er PMO, ADB	End of Aug. 2014	Completed
<b>2</b>	<b>RP and budget</b>				
2.1	Detailed design	/	Pu'er PMO, PMTB	Apr. 2015	Completed
2.2	DMS based on the detailed design	23 villages	Pu'er and county PMOs, county resettlement offices	Apr. – Jul. 2015	Completed
2.3	Updating the RP based on the detailed design	/	Pu'er PMO	Aug. 2015	Completed
2.4	Updating the RP again based on the construction design	23 villages	Pu'er PMO	Feb. 2017	Completed
2.5	Approval of the resettlement budget	About 341.2 million yuan	Pu'er PMO, county governments	May 2017	completed
2.6	Distribution of the final RIB	23 villages	Pu'er and county PMOs	Mid Jun. 2017	completed
2.5	Disclosure of the final RP on ADB's website		Pu'er PMO, ADB	Sep. 2017	
<b>3</b>	<b>Compensation agreement</b>				
3.1	Village-level land	23 villages	County resettlement	Oct. 2015 –	ongoing

No.	Task	Target	Agencies responsible	Time	Remarks
	compensation agreement		offices	May 2017	
3.2	Household HD compensation agreement	324 households with 1242 persons	County resettlement offices	Oct. 2015 – Jun. 2017	ongoing
<b>4</b>	<b>Implementation of livelihood restoration measures</b>				
4.1	Distribution of land compensation fees to households and land reallocation (if possible)	23 villages	Township governments, village collectives	Oct. 2015 – May 2017	
4.2	Implementation of village-level income restoration programs	23 villages	Village collectives	Nov. 2015 – Nov. 2017	
4.3	Advice on income restoration, commerce and work	3,066 AHs	Township governments, village collectives, labor and social security bureau	Sep. 2015 – Sep. 2017	
4.4	Implementation of training program	3,066 AHs	County PMOs, labor and social security bureau	Dec. 2015 – Dec. 2017	
4.5	Identifying vulnerable households and implementing assistance measures	625 households	County PMOs, township governments, village collectives	Apr. 2015 – Apr. 2017	
4.6	Hiring APs at the construction stage	3,066 AHs	County PMOs, labor and social security bureau, contractor	Dec. 2015 – Dec. 2017	
<b>5</b>	<b>HD resettlement</b>				
5.1	Selection and approval of housing sites	324 households with 1242 persons	County PMOs, township governments, village collectives, AHs	Dec. 2015 – Dec. 2016	
5.2	Construction of resettlement housing	324 households with 1242 persons	County PMOs, township governments, village collectives, AHs	Jan. 2016 – Mar. 2017	
5.3	Relocation to resettlement housing	324 households with 1242 persons	AHs	Apr. 2016 – Jun. 2017	
<b>6</b>	<b>Capacity building</b>				
6.1	Training of resettlement staff	15 persons	ADB / TA experts	Jan. – Jul. 2014	Completed
6.2	Training of county, township and village officials	60 persons	Pu'er and county PMOs	Apr. 2015 – Jun. 2017	Ongoing
<b>7</b>	<b>M&amp;E</b>				
7.1	Baseline survey	As per the RP	External M&E agency	From Nov. 2015	
7.2	Establishment of internal M&E mechanism	As per the RP	Pu'er PMO	Nov. 2015	
7.3	Appointment of an external M&E agency		Pu'er PMO	Oct. 2015	
7.4	Internal monitoring reporting	Quarterly report	Pu'er PMO	From Jan. 2016	Completed
7.5	External monitoring reporting	Semiannual report	External M&E agency	Sep. 2016	1 <sup>st</sup> report (completed)
				Apr. 2017	2 <sup>nd</sup> report (completed)
				Jul. 2017	3 <sup>rd</sup> report
				Feb. 2018	4 <sup>th</sup> report
7.6	External evaluation	Annual report	External M&E agency	Jan. 2019	1 <sup>st</sup> report

No.	Task	Target	Agencies responsible	Time	Remarks
	reporting			Jan. 2020	2 <sup>nd</sup> report
7.7	Post-evaluation report	One report	Pu'er PMO	Jul. 2019	
<b>8</b>	<b>Public consultation</b>		IA	Ongoing	
<b>9</b>	<b>Grievance redress</b>		IA	Ongoing	
<b>10</b>	<b>Disbursement of compensation fees</b>				
10.1	Disbursement to IA	Initial funds	IA	Oct. 2015 – Mar. 2017	Ongoing
10.2	Disbursement to villages	Most funds	IA	Nov. 2015 – Dec. 2017	Ongoing
10.3	Disbursement to households	Most funds	IA, village committees	Dec. 2015 – Jun. 2017	Ongoing
<b>11</b>	<b>Commencement of civil construction</b>				
12.1	Ningjiang Highway		Pu'er and county PMOs, PMTB	Dec. 2016	Ongoing

## 9 M&E

To ensure the successful implementation of the RP and resettle the APs properly, periodic M&E on LA and resettlement activities will be conducted in accordance with ADB’s resettlement policy. Monitoring is divided into internal monitoring of resettlement agencies and external independent monitoring. M&E will begin in June 2016 and be completed in December 2020. Internal and external M&E reports will be submitted to ADB based on construction and resettlement progress. <sup>4</sup>

### 1. Internal monitoring

The Pu’er PMO will establish an internal monitoring mechanism and a basic resettlement database to monitor resettlement activities.

The Pu’er PMO will submit an internal monitoring report to ADB quarterly. Such report should indicate the statistics of the past 3 months in tables, and reflect the progress of LA, resettlement and use of compensation fees through comparison.

### 2. External monitoring

The Pu’er PMO appointed Hohai University to conduct external monitoring on the resettlement work of the Subproject in December 2015.

A routine monitoring report should at least include: 1) monitoring objectives, 2) resettlement progress; 3) key findings; 4) key issues; and 5) basic opinions and suggestions.

The first external monitoring report has been submitted to ADB. Afterwards, the external M&E agency will submit monitoring and evaluation reports to ADB and the Pu’er PMO semiannually.

See Table 9-1.

Table 9-1 M&E Schedule

No.	Report	Date	Remarks
1	Baseline socioeconomic survey	Sep. 2016	Completed
2	External monitoring report (No.1)	Sep. 2016	Completed
3	External monitoring report (No.2)	Apr . 2017	Completed
4	External monitoring report (No.3)	Jul. 2017	
5	External monitoring report (No.4)	Feb. 2018	
6	External evaluation report (No.1)	Jan. 2019	
7	External evaluation report (No.2)	Jan. 2020	

<sup>4</sup> See the former RP for detailed M&E requirements.

## Appendices

### Appendix 1 Summary of LA Impacts (by Village)

County	Township	Village	LA area (mu)							Affected	
			Irrigated land	Non- irrigated land	Woodland	Tea garden	Fruit garden	Other land	Total	HHs	Population
Ning'er County	Ning'er Town	Minzheng	1.5	51.9	0.0	0.0	0.0	0.0	53.4	63	241
		Banhai	61.6	47.3	21.0	5.1	2.8	0.0	137.8	107	411
		Manlian	20.1	166.3	4.4	3.2	1.7	1.8	197.5	181	717
		Xinping	85.2	122.6	23.0	1.7	0.9	7.6	241.0	262	1070
		Taida	0.5	2.4	0.6	0.2	0.1	0.1	3.8	4	21
		Xishitou	31.3	41.5	0.0	13.2	7.3	0.0	93.2	115	467
		Wenquan	14.9	173.6	316.4	70.9	39.0	18.8	633.6	140	566
		Yuhe	0.1	7.0	10.3	1.1	0.0	0.1	18.6	12	60
		<b>Subtotal</b>	<b>215.1</b>	<b>612.7</b>	<b>375.7</b>	<b>95.3</b>	<b>51.8</b>	<b>28.3</b>	<b>1378.9</b>	<b>884</b>	<b>3553</b>
	Liming Xiang	Xianren	66.7	67.0	117.7	7.2	3.9	12.6	275.1	154	618
		Wangjie	49.1	175.7	61.9	2.5	1.4	6.6	297.2	114	457
		Tuanshan	23.9	62.2	113.7	19.0	10.5	4.7	234.1	187	758
		<b>Subtotal</b>	<b>139.7</b>	<b>305.0</b>	<b>293.3</b>	<b>28.7</b>	<b>15.8</b>	<b>23.9</b>	<b>806.3</b>	<b>455</b>	<b>1833</b>
	Mengxian Town	Heping	128.5	75.7	238.9	4.9	2.7	4.5	455.2	243	984
		Qianle	19.7	1.1	0.0	0.0	0.0	0.0	20.8	57	234
		Anning	31.2	14.0	2.8	0.0	0.0	2.1	50.0	95	370
		Xuande	48.0	33.8	30.4	1.7	0.9	22.1	136.8	196	793
Yalu		22.0	43.4	244.3	4.2	3.1	45.4	362.4	162	646	
<b>Subtotal</b>	<b>249.4</b>	<b>168.0</b>	<b>516.3</b>	<b>10.8</b>	<b>6.7</b>	<b>73.9</b>	<b>1025.2</b>	<b>753</b>	<b>3027</b>		
<b>Subtotal</b>	<b>604.2</b>	<b>1085.7</b>	<b>1185.4</b>	<b>134.8</b>	<b>74.3</b>	<b>126.2</b>	<b>3210.5</b>	<b>2092</b>	<b>8413</b>		
Jiangcheng County	Baozang Town	Shuicheng	108.5	160.1	102.0	111.2	36.6	7.5	525.9	218	919
		Banhe	24.1	47.9	73.1	20.1	6.6	3.2	174.9	107	329
		<b>Subtotal</b>	<b>132.7</b>	<b>208.0</b>	<b>175.1</b>	<b>131.3</b>	<b>43.2</b>	<b>10.7</b>	<b>700.8</b>	<b>325</b>	<b>1248</b>
	Menglie Town	Jiangbian	66.9	223.9	93.5	98.6	32.4	1.2	516.5	257	941
		Niuluohu	2.9	72.0	200.6	132.9	43.7	13.4	465.5	87	180
		Dazhai	112.2	149.1	425.7	140.6	46.2	10.0	883.9	178	757
		<b>Subtotal</b>	<b>182.0</b>	<b>445.0</b>	<b>719.7</b>	<b>372.1</b>	<b>122.4</b>	<b>24.6</b>	<b>1865.8</b>	<b>522</b>	<b>1878</b>
	Qushui Town	Basan	10.0	46.6	80.7	32.8	10.8	0.0	180.9	62	198
		Nuna	4.0	51.7	14.5	55.5	18.3	0.0	143.9	65	178
		<b>Subtotal</b>	<b>14.0</b>	<b>98.3</b>	<b>95.2</b>	<b>88.3</b>	<b>29.1</b>	<b>0.0</b>	<b>324.8</b>	<b>127</b>	<b>376</b>
<b>Subtotal</b>	<b>328.7</b>	<b>751.3</b>	<b>990.0</b>	<b>591.7</b>	<b>194.6</b>	<b>35.3</b>	<b>2891.4</b>	<b>974</b>	<b>3502</b>		
<b>Total</b>	<b>932.9</b>	<b>1836.9</b>	<b>2175.3</b>	<b>726.5</b>	<b>268.9</b>	<b>161.5</b>	<b>6101.9</b>	<b>3066</b>	<b>11915</b>		
Percent(%)		<b>15.3%</b>	<b>30.1%</b>	<b>35.6%</b>	<b>11.9%</b>	<b>4.4%</b>	<b>2.6%</b>	<b>100.0%</b>			

**Appendix 2 Sites with Design Change**



Attached Figure 2-1 Site of Bid Package 1 with design change (Minzheng Village)



Attached Figure 2-2 Site of Bid Package 10 with design change (Dazhai Village)



Attached Figure 2-3 Site of Bid Package 7 with design change (Baozang Xiang)



Attached Figure 2-4 Site of reconstructed pylon in Bid Package 3



Attached Figure 2-5 Site of rerouted Ning'er Avenue



Attached Figure 2-6 Site of design change (Niuluo River Tea Factory)



Attached Figure 2-7 Construction site with slope protection removed



Appendix 3 Notice of the Ning'er County Government on Issuing the LA and HD Program for the Ning'er-Jiangcheng-Longfu Highway (Ning'er Segment) (NCG [2016] No.24)

宁洱哈尼族彝族自治县人民政府文件

宁政发〔2016〕24号

宁洱哈尼族彝族自治县人民政府关于印发  
宁洱至江城至龙富公路（宁洱段）  
征地拆迁工作方案的通知

宁洱镇人民政府、勐先镇人民政府、黎明乡人民政府、县属各委、办、局：

《宁洱哈尼族彝族自治县宁洱至江城至龙富公路（宁洱段）征地拆迁工作方案》已经第十六届县人民政府第29次（2016年第1次）常务会议研究同意，现印发给你们，请认真贯彻执行。

宁洱哈尼族彝族自治县人民政府

2016年6月30日

宁江公路（宁洱段）实际，征地补偿标准如下：

（一）永久性征收土地

1. 宁洱镇：新平、太达、细石头村民委员会的涉及村组，水田综合补偿标准80000元/亩；旱地综合补偿标准40000元/亩；园地综合补偿标准30000元/亩。曼连、民政、般海、温泉村民委员会的涉及村组，水田综合补偿标准60000元/亩；旱地综合补偿标准40000元/亩；园地综合补偿标准30000元/亩；

2. 勐先镇：和平、谦乐、安宁、宣德、雅鹿等村民委员会，黎明乡：汪街、仙人、团山村民委员会的涉及村组，水田综合补偿标准40000元/亩；旱地综合补偿标准25000元/亩；园地综合补偿标准15000元/亩；

3. 宅基地补偿标准：30000元/亩；

4. 荒地、空闲地补偿标准：8000元/亩；

5. 青苗补偿标准：水田一次性补偿每亩1500元；旱地一次性补偿每亩1000元。

（二）林地征占用补偿标准

林地征占用涉及林木采伐指标由县林业局统一安排预留，所有者依据林业管理部门有关要求进行处理。

1. 永久性征收林地。林地综合补偿标准（含林地、林木补偿费）全县统一为5000元/亩；

2. 临时占用林地。防护林、用材林综合补偿标准为每亩每年700元，灌木林每亩每年400元；

（三）地上建筑物及构筑物征拆补偿标准

1. 框架结构：1800元/m<sup>2</sup>；

2. 砖混结构: 1500元/m<sup>2</sup>;
3. 砖木结构: 1200元/m<sup>2</sup>;
4. 土木结构: 800元/m<sup>2</sup>;
5. 简易房: 400元/m<sup>2</sup>;
6. 围墙: 60元/m<sup>2</sup>;
7. 石埂: 300元/m ;
8. 水泥地坪: 60元/m<sup>2</sup>;
9. 大门: 铁门350元/m<sup>2</sup>, 木门250元/m<sup>2</sup>;
10. 沼气池: 8m 以下3500元/口, 10m 以上4500元/口;
11. 单灶500元/盘, 双灶1000元/盘;

(四) 地上附着物补偿标准

1. 柑橘、青枣、芒果、荔枝、龙眼、桃子、李子、桔子、子、杨梅、石榴、花椒、香橼、木瓜、枇杷、桑葚等未挂果的元/棵, 挂果的30元/棵, 盛产期60元/棵;
2. 竹子: 10元/株, 芭蕉: 5元/株 (综合价), 香蕉: 8株 (综合价);
3. 番石榴、番木瓜: 未挂果的5元/株, 挂果的20元/株;
4. 核桃、坚果、板栗: 未挂果20元/株, 挂果的50元/株、产300元/株;
5. 茶叶、咖啡: 3年以内的6000元/亩, 盛产10000元/亩;
6. 橡胶: 未开割100元/株, 开割200元/株;
7. 钢架大棚: 30元/平方米, 竹木大棚: 15元/平方米;
8. 鱼塘: 10亩以上3600元/亩, 10亩以下2000元/亩;
9. 莲藕: 4000元/亩;

10. 石斛、辣木、白芨、食用菌等特殊经济作物通过林业、农科等行政主管部门聘请专业评估机构进行综合评估, 以评估价格为基准, 由征收部门与被征收单位或个人协商确定补偿价格;

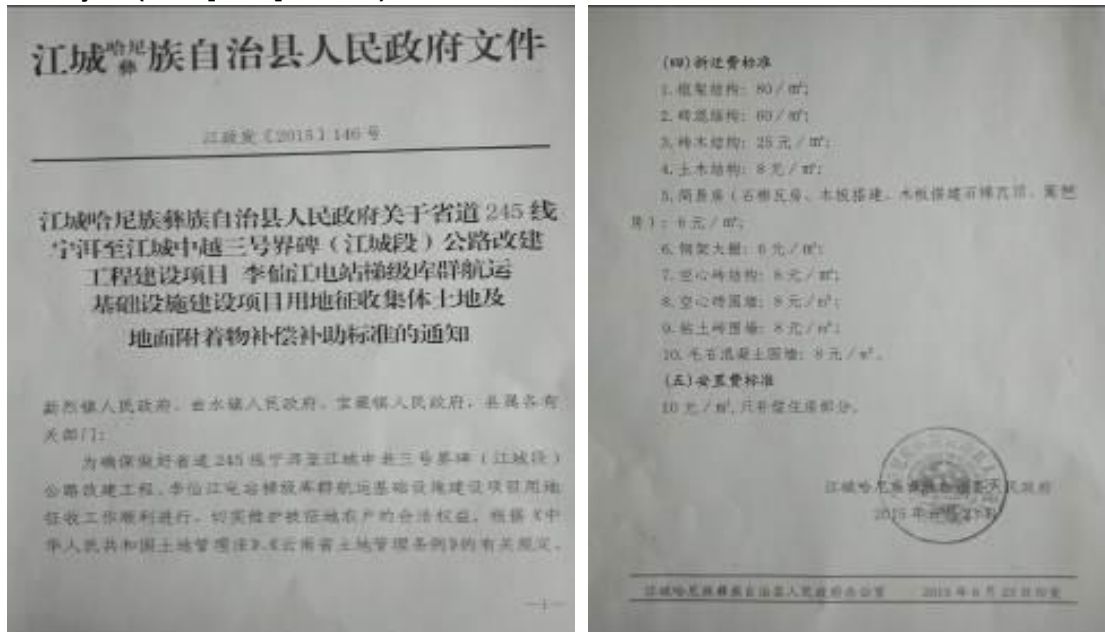
11. 因林苗圃搬迁, 根据树种、苗木高度、胸径、冠幅等通过林业行政主管部门或专业评估机构进行综合评估, 以评估价格为基准, 由征收部门与被征收单位或个人协商确定补偿价格。

(五) 坟墓搬迁补偿标准

1. 土坟每家8000元;
2. 砖石坟每家12000元。

电力、广电网络、通信线路等其他设施迁改补偿标准按照各行业的技术标准来规范执行。

**Appendix 4 Notice of the Jiangcheng County Government on Compensation Rates for Collective Land and Ground Attachments Affected by the Provincial Highway 245 Ning'er to China-Vietnam No.3 Boundary Marker in Jiangcheng Segment Reconstruction Project, and the Lixian River Hydropower Station Cascade Reservoir Group Infrastructure Construction Project (JCG [2015] No.146)**



**Appendix 5 Letter of the General Office of the Jiangcheng County Government on Revision Opinions on the Resettlement Plan of the Yunnan Pu'er Regional Integrated Road Network Development Project (Jiangcheng Segment) (JCGO [2015] No.31)**

**江城哈尼族彝族自治县人民政府办公室**  
江政办函〔2015〕31号

**江城哈尼族彝族自治县人民政府办公室关于  
云南省普洱市区域路网发展综合项目  
江城段移民安置计划报告  
修改意见的函**

亚行贷款普洱市区域综合路网发展项目管理办公室：  
宁洱-江城-龙富公路江城段移民安置计划报告，经县政府研究决定修改意见如下：

一、报告第26页、87页《云南省征地利一年产值标准和征地区片综合地价补偿标准》（2009年05月18日），应改为《云南省国土资源厅关于修订云南省十五个州（市）征地利补偿标准的通知》（2014年6月1日）。

二、封面错别字。宁洱-江城-龙富公路应为宁洱-江城-龙富公路。

三、地面附着物补偿标准只有田地、旱地青苗补偿，无林地、园地青苗补偿标准。

四、移民安置计划报告执行概要中，表ES-1：宁江子项目土地征收补偿标准及第29、第30页表4-1宁江公路征地利补偿标准里面：宝藏乡、桂水乡旱地 25537 元/亩、勐烈镇旱地 27686 元/亩，宝藏乡、西水乡园地 25537 元/亩，勐烈镇 27686 元/亩。补偿标准应依据江政发〔2015〕146号文件明确的补偿标准：旱地 10962 元/亩，园地 12789 元/亩。

江政发〔2015〕146号文件补偿标准已经比以前补偿的标准：旱地 1500 元/亩-4000 元/亩，园地 3500 元/亩-4000 元/亩提高了数倍，现在再提高几倍，前后标准反差太大，将影响以前的征地工作，引起老百姓反馈，产生不可预见的反弹风险。

附表：宁洱-江城-龙富公路（江城段）公路征地利补偿标准

州（市）	县（市）	乡（镇）	受影响行政村	征地利补偿标准（元/亩）				
				水田	旱地	园地	林地	宅基地
普洱市	江城县	宝藏镇	水城村	43648	10962	12789	7000	20000
			板河村	43648	10962	12789	7000	20000
			江边村	43648	10962	12789	7000	20000
		勐烈镇	牛海河村	43648	10962	12789	7000	20000
			大寨村	43648	10962	12789	7000	20000
			坝中村	43648	10962	12789	7000	20000
	勐东镇	勐东村	43648	10962	12789	7000	20000	

江城哈尼族彝族自治县人民政府办公室  
2015年11月

Appendix 6 Resettlement Budget

No.	Item	Unit	Ning'er County										Jiangcheng County										Total	percentage
			Ning'er Town			Mengxian Town			Liming Xiang			Subtotal	Baozang Xiang			Mengjie Town			Qushui Town			Subtotal		
			Qty.	Rate (yuan)	0,000 yuan	Qty.	Rate (yuan)	0,000 yuan	Qty.	Rate (yuan)	0,000 yuan		0,000 yuan	Qty.	Rate (yuan)	0,000 yuan	Qty.	Rate (yuan)	0,000 yuan	Qty.	Rate (yuan)			
1	LA compensation				<b>4455.6</b>			<b>1923.9</b>			<b>1606.3</b>	<b>7985.7</b>			<b>1144.3</b>			<b>2338.5</b>			<b>368.1</b>	<b>3851.0</b>	<b>11836.7</b>	34.7%
	Irrigated land	mu	215.13	60000	1290.8	249.37	40000	997.5	139.7	40000	558.8	<b>2847.1</b>	132.66	43848	581.7	182.04	43848	798.2	13.956	43848	61.2	<b>1441.1</b>	<b>4288.2</b>	12.6%
	Non-irrigated land	mu	612.7	40000	2450.8	168.02	25000	420.1	304.95	25000	762.4	<b>3633.2</b>	207.95	10962	228.0	444.99	10962	487.8	98.31	10962	107.8	<b>823.5</b>	<b>4456.7</b>	13.1%
	Commercial woodland	mu	147.04	30000	441.1	17.56	15000	26.3	44.45	15000	66.7	<b>534.1</b>	174.4	12789	223.1	494.5	12789	632.4	117.4	12789	150.1	<b>1005.6</b>	<b>1539.8</b>	4.5%
	Woodland	mu	375.73	5000	187.9	516.32	5000	258.2	293.31	5000	146.7	<b>592.7</b>	175.07	5154	90.2	719.71	5154	370.9	95.18	5154	49.1	<b>510.2</b>	<b>1102.9</b>	3.2%
	Housing land	mu	28.34	30000	85.0	73.94	30000	221.8	23.93	30000	71.8	<b>378.6</b>	10.68	20000	21.4	24.57	20000	49.1	0	20000	0.0	<b>70.5</b>	<b>449.1</b>	1.3%
2	Young crop compensation				<b>93.5</b>			<b>54.2</b>			<b>51.5</b>	<b>199.2</b>			<b>40.7</b>			<b>71.8</b>			<b>11.9</b>	<b>124.4</b>	<b>323.6</b>	0.9%
	Irrigated land	mu	215.13	1500	32.3	249.37	1500	37.4	139.7	1500	21.0	<b>90.6</b>	132.66	1500	19.9	182.04	1500	27.3	13.956	1500	2.1	<b>49.3</b>	<b>139.9</b>	0.4%
	Non-irrigated land	mu	612.7	1000	61.3	168.02	1000	16.8	304.95	1000	30.5	<b>108.6</b>	207.95	1000	20.8	444.99	1000	44.5	98.31	1000	9.8	<b>75.1</b>	<b>183.7</b>	0.5%
3	Compensation for temporary land occupation				<b>80.0</b>			<b>40.0</b>			<b>20.0</b>	<b>140.0</b>			<b>20.0</b>	<b>100.0</b>			<b>10.0</b>			<b>20.0</b>	<b>160.0</b>	0.5%
	Occupation costs	mu	200	3000	60.0	100	3000	30.0	50	3000	15.0	<b>105.0</b>	50	3000	15.0	50	3000	15.0	5	3000	1.5	<b>31.5</b>	<b>136.5</b>	0.4%
	Reclamation costs	mu	200	1000	20.0	100	1000	10.0	50	1000	5.0	<b>35.0</b>	50	1000	5.0	50	1000	5.0	5	1000	0.5	<b>10.5</b>	<b>45.5</b>	0.1%
4	HD compensation				<b>264.7</b>			<b>636.2</b>			<b>873.0</b>	<b>1773.9</b>			<b>879.0</b>			<b>975.2</b>			<b>176.5</b>	<b>2030.7</b>	<b>3804.6</b>	11.2%
	House compensation				257.5			614.0			846.0	<b>1717.5</b>			820.2			908.6			163.9	<b>1892.7</b>	<b>3610.2</b>	10.6%
	Masonry concrete	m <sup>2</sup>	250	1500	37.5	0	1500	0.0	0	1500	0.0	<b>37.5</b>	5639.36	1440	812.1	5749.6	1440	827.9	1000.02	1440	144.0	<b>1784.0</b>	<b>1821.5</b>	5.3%
	Earth timber	m <sup>2</sup>	2750	800	220.0	7000	800	560.0	9750	800	780.0	<b>1560.0</b>	196	390	7.6	1752.7	390	68.4	510.28	390	19.9	<b>95.9</b>	<b>1655.9</b>	4.9%
	Simple	m <sup>2</sup>	0	240	0.0	2250	240	54.0	2750	240	66.0	<b>120.0</b>	20	240	0.5	513.3	240	12.3	0	240	0.0	<b>12.8</b>	<b>132.8</b>	0.4%
	Moving subsidy	HH	12	1200	1.4	37	1200	4.4	45	1200	5.4	<b>11.3</b>	98	1200	11.8	111	1200	13.3	21	1200	2.5	<b>27.6</b>	<b>38.9</b>	0.1%
	Transition subsidy	HH	12	4800	5.8	37	4800	17.8	45	4800	21.6	<b>45.1</b>	98	4800	47.0	111	4800	53.3	21	4800	10.1	<b>110.4</b>	<b>155.5</b>	0.5%
5	Compensation for ground attachments				<b>101.6</b>			<b>10.5</b>			<b>2.8</b>	<b>114.9</b>			<b>103.0</b>			<b>0.0</b>			<b>0.0</b>	<b>103.0</b>	<b>217.9</b>	0.6%
	Pond	m <sup>2</sup>	1216	400	48.6	0	400	0.0	0	400	0.0	<b>48.6</b>	5	400	0.2	0	400	0.0	0	400	0.0	<b>0.2</b>	<b>48.8</b>	0.1%
	Telegraph pole	/	0	3000	0.0	1	3000	0.3	2	3000	0.6	<b>0.9</b>	57	3000	17.1	0	3000	0.0	0	3000	0.0	<b>17.1</b>	<b>18.0</b>	0.1%
	Communication pole	/	0	2000	0.0	1	2000	0.2	1	2000	0.2	<b>0.4</b>	196	2000	39.2	0	2000	0.0	0	2000	0.0	<b>39.2</b>	<b>39.6</b>	0.1%
	Wire	m	0	8	0.0	0	8	0.0	0	8	0.0	<b>0.0</b>	10485	8	8.4	0	8	0.0	0	8	0.0	<b>8.4</b>	<b>8.4</b>	0.0%
	Cable	m	0	10	0.0	0	10	0.0	0	10	0.0	<b>0.0</b>	24118	10	24.1	0	10	0.0	0	10	0.0	<b>24.1</b>	<b>24.1</b>	0.1%
	Pylon	/	0	20000	0.0	0	20000	0.0	0	20000	0.0	<b>0.0</b>	7	20000	14.0	0	20000	0.0	0	20000	0.0	<b>14.0</b>	<b>14.0</b>	0.0%
	Cement pole	/	254	2000	50.8	0	2000	0.0	10	2000	2.0	<b>52.8</b>	0	2000	0.0	0	2000	0.0	0	2000	0.0	<b>0.0</b>	<b>52.8</b>	0.2%
	Stone wall	m	180	60	1.1	1000	60	6.0	0	60	0.0	<b>7.1</b>	0	60	0.0	0	60	0.0	0	60	0.0	<b>0.0</b>	<b>7.1</b>	0.0%
	Brick wall	m	263	40	1.1	1000	40	4.0	0	40	0.0	<b>5.1</b>	0	40	0.0	0	40	0.0	0	40	0.0	<b>0.0</b>	<b>5.1</b>	0.0%
	Basic costs (1-5Subtotal)				<b>4995.4</b>			<b>2664.8</b>			<b>2553.5</b>	<b>10213.7</b>			<b>2187.0</b>			<b>3385.6</b>			<b>556.5</b>	<b>6129.1</b>	<b>16342.8</b>	47.9%
6	Reclamation costs (irrigated land)	yuan /mu	215.13	10500	225.9	249.37	10500	261.8	139.7	10500	146.7	<b>634.4</b>	132.66	10500	139.3	182.04	10500	191.1	13.956	10500	14.7	<b>345.1</b>	<b>979.5</b>	2.9%
7	Reclamation costs (non-irrigated land)	yuan /mu	612.7	9000	551.4	168.02	9000	151.2	304.95	9000	274.5	<b>977.1</b>	207.95	9000	187.2	444.99	9000	400.5	98.31	9000	88.5	<b>676.1</b>	<b>1653.2</b>	4.8%
8	Farmland occupation tax	yuan /mu	827.83	13334	1103.8	417.39	13334	556.5	444.65	13334	592.9	<b>2253.3</b>	340.61	13334	454.2	627.03	13334	836.1	112.266	13334	149.7	<b>1439.9</b>	<b>3693.2</b>	10.8%
9	Compensation for use of additional construction land	yuan /mu	827.83	9333	772.6	417.39	9333	389.6	444.65	9333	415.0	<b>1577.2</b>	340.61	9333	317.9	627.03	9333	585.2	112.266	9333	104.8	<b>1007.9</b>	<b>2585.0</b>	7.6%
10	Endowment insurance for LEFs	yuan /mu	827.83	20000	1655.7	417.39	20000	834.8	444.65	20000	889.3	<b>3379.7</b>	340.61	20000	681.2	627.03	20000	1254.1	112.266	20000	224.5	<b>2159.8</b>	<b>5539.6</b>	16.2%
11	Risk reserve for LEFs	0,000 yuan	827.83	1334	110.4	417.39	1334	55.7	444.65	1334	59.3	<b>225.4</b>	340.61	1334	45.4	627.03	1334	83.6	112.266	1334	15.0	<b>144.1</b>	<b>369.5</b>	1.1%
12	LA management costs	0,000 yuan	4995.4	2.10%	104.9	2664.8	2.10%	56.0	2553.5	2.10%	53.6	<b>214.5</b>	2187.0	2.10%	45.9	3385.6	2.10%	71.1	556.5	2.10%	11.7	<b>128.7</b>	<b>343.2</b>	1.0%
13	Design and survey costs	0,000 yuan	4995.4	1%	50.0	2664.8	1%	26.6	2553.5	1%	25.5	<b>102.1</b>	2187.0	1%	21.9	3385.6	1%	33.9	556.5	1%	5.6	<b>61.3</b>	<b>163.4</b>	0.5%
14	Management costs	0,000 yuan	4995.4	2%	99.9	2664.8	2%	53.3	2553.5	2%	51.1	<b>204.3</b>	2187.0	2%	43.7	3385.6	2%	67.7	556.5	2%	11.1	<b>122.6</b>	<b>326.9</b>	1.0%
15	Training costs	0,000 yuan	4995.4	2%	99.9	2664.8	2%	53.3	2553.5	2%	51.1	<b>204.3</b>	2187.0	2%	43.7	3385.6	2%	67.7	556.5	2%	11.1	<b>122.6</b>	<b>326.9</b>	1.0%
16	External monitoring costs	0,000 yuan	4995.4	1%	50.0	2664.8	1%	26.6	2553.5	1%	25.5	<b>102.1</b>	2187.0	1%	21.9	3385.6	1%	33.9	556.5	1%	5.6	<b>61.3</b>	<b>163.4</b>	0.5%
17	Contingencies	0,000 yuan	4995.4	10%	499.5	2664.8	10%	266.5	2553.5	10%	255.4	<b>1021.4</b>	2187.0	10%	218.7	3385.6	10%	338.6	556.5	10%	55.7	<b>612.9</b>	<b>1634.3</b>	4.8%
	<b>Subtotal of Items 6-17</b>				<b>5324.0</b>			<b>2731.9</b>			<b>2839.8</b>	<b>10895.8</b>			<b>2221.0</b>			<b>3963.4</b>			<b>697.8</b>	<b>6882.3</b>	<b>17778.1</b>	<b>52.1%</b>
	<b>Total</b>				<b>10319.4</b>			<b>5396.7</b>			<b>5393.4</b>	<b>21109.5</b>			<b>4408.0</b>			<b>7349.0</b>			<b>1254.4</b>	<b>13011.4</b>	<b>34120.9</b>	<b>100.0%</b>
	<b>percentage</b>				<b>30.2%</b>			<b>15.8%</b>			<b>15.8%</b>	<b>61.9%</b>			<b>12.9%</b>			<b>21.5%</b>			<b>3.7%</b>	<b>38.1%</b>	<b>100.0%</b>	

## Appendix 7 Fieldwork Photos

