

TECHNICAL SPECIFICATIONS FOR REGISTRATION OF GEOGRAPHICAL INDICATION

1. Name of the Geographical Indication

Chinese name: 普洱茶

Transcription in Latin characters: Pu'er Cha

Translation for information purposes: Pu'er Tea

2. Category of the product for which the name is protected

Tea

3. Applicant

Name: People's Government of Yunnan Province

Address: No. 76 Huashan South Road, Kunming city, Yunnan Province, China,

Code : (650021)

4. Protection in China

Date of Protection: May 13th, 2008

Proof of Protection: The General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) , Notice (2008) No. 60

5. Description of product

Pu'er Cha (Pu'er Tea) refers to tea made of Yunnan large-leaf sunning tea together with specific processing technology within the scope of protection of geographical indications, with unique quality characteristics. Puer Cha (Pu'er tea) divided into Puer Cha (Pu'er tea) (raw tea), Puer Cha (Pu'er tea) (cooked tea) two types according to its processing technology and quality characteristics. The finished tea can be classified as: Pu'er Cha (Pu'er Tea) (raw), Pu'er (cooked) Loose Tea, and Pu'er (cooked)

Compressed Tea.

(1) Pu'er Cha (Pu'er Tea) (raw)

① Sensory Characteristics:

Dark green, symmetry correct shape, moderately elastic, without open, cover drop or unenveloped heart; it has pure aroma, strong taste, bright soup, and fat yellow-green leaf.

② Physical and Chemical Indicators

Physical and Chemical Indicators of Pu'er Cha (Pu'er Tea) (raw)

Item	Indicator
Moisture, % \leq	13.0 ^a
Total Ash, % \leq	7.5
Water Extract, % \geq	35.0
Polyphenols, % \geq	28.0
^a the weight of water counted is 10% when testing the net weight	

(2) Pu'er (cooked) Loose Tea:

① Sensory Characteristics:

Sensory Indicators of Pu'er (cooked) Loose Tea

Category	Appearance			
	Shape	Completeness	Color	Clarity
Special Grade	Wiry	Evenly and complete	Reddish brown, bloom and tippy	Neat
First Grade	Tightly	Evenly and complete	Reddish brown, bloom and tippy	Neat
Third Grade	Approach tight	Evenly and complete	Brown, bloom and tippy	Neat with tender stalk
Fifth Grade	Tight and heavy	evenly	Brown, bloom and tippy	Approach neat with stalk

Category	Appearance			
	Shape	Completeness	Color	Clarity
Seventh Grade	Approach tight and heavy	Approach even	Brown and less bloom	Basically neat with stalk
Ninth Grade	Coarse and loose	Less even	Brown mixed	Less neat with stalk
Category	Quality			
	Aroma	Taste	Soup color	Leaf
Special Grade	Heavy stale flavor	Mellow and sweet	Red, fresh and bright	Reddish brown and tender
First Grade	Thick stale flavor	Sweet after taste	Red, thick and bright	Reddish brown more tender
Third Grade	Pure Stale flavor	Sweet after taste	Red, thick and bright	Reddish brown approach tender
Fifth Grade	heavy	Sweet after taste	Deep red and bright	Reddish brown less tender
Seventh Grade	Pure	Sweet after taste	Thick reddish brown	Reddish brown Coarse and bold
Ninth Grade	Neutral	Sweet after taste	Thick reddish brown	Reddish brown coarse and loose

②Physical and Chemical Indicators:

Physical and Chemical Indicators of Pu'er (cooked) Loose Tea

Item		Indicators
Moisture, %	≤	12.0 ^a
Total Ash, %	≤	8.0
Powder, %	≤	0.8
Water extract, %	≥	28.0
Coarse Fibre, %	≤	14.0
Polyphenols , %	≤	15.0
^a the weight of water counted is 10% when testing the net weight		

(3) Pu'er (cooked) Compressed Tea:

① Sensory Characteristics:

Reddish brown, symmetry correct shape, moderately elastic, without open, cover drop, or unenveloped heart; it has thick red soup, unique stale flavor, mellow and sweet after taste, and reddish brown leaf.

② physical and Chemical Indicators:

Physical and Chemical Indicators of Pu'er (cooked) compressed Tea

Item	Indicators
Moisture, % ≤	12.5 ^a
Total Ash, % ≤	8.5
Water Extract, % ≥	28.0
Coarse Fibre, % ≤	15.0
Polyphenols, % ≤	15.0
^a the weight of water counted is 10% when testing the net weight	

The fresh leaves are collected from Yunnan large-leaf tea gardens fitting the environmental conditions of Pu'er Cha (Pu'er Tea), and the shoots should be kept intact, fresh, neat, non-polluted, and without other non-tea inclusions.

6. Concise definition of the geographical area

Boundaries of the geographic Area: 11 municipalities, 75 counties, 639 towns, prefectures in Yunnan Province, including Pu'er, Xishuangbanna, Lincang, Kunming, Dali, Baoshan, Chuxiong, Dehong, Honghe, Yuxi and Wenhan.

The protection scope of geographical indication product Pu'er tea

municipality	County (city, district)	township (town, street office)
Kunming City	Wuhua District	Huashan street, Huguo street, Dagan street, Longxiang street, Fengning street, Lianhua street, Hei linpu street, Shalang Bai township, Shalang Bai street
	Panlong District	Donghua street, Tadong street, Lianmeng street, Ciba street, Longquan street, Qingyun street, Jincheng street, Shuanglong street, Songhua street
	Guandu District	Guanshang street, Taihe street, Wujing street, Jinma street, Xiao banqiao town, Guandu street, Da banqiao town, Ala Yi township, Yiliu street
	Xishan District	Majie street, Qianwei street, Fuhai street, Jinbi street, Yongchang street, Zong shuying street, Biji town, Haikou town, Tuanjie town
	Anning City	Lianran town, Bajie town, Wenquan town, Qinglong town, Lubiao town, Caopu town, Taiping town, Xianjie town
	Chenggong County	Longcheng town, Luoyang town, Dounan town, Dayu township, Wu jiaying township, Ma jinpu township, Qidian township
	Jinning County	Kunyang town, Jincheng town, Baofeng town, Erjie Township, Xinjie township, Shuanghe Yi township, Xiyang Yi township, Shangsuan street
	Fumin County	Yongding town, Daying town, Luomian Yimiaozi town, Chijiu township, Dongcun township, Kuanzhuang township, Sandan street
	Yiliang County	Kuangyuan town, Bei gucheng town, Nanyang town, Goujie town, Tangchi town, Zhushan township, Geng jiaying Yi Miao township, Shuanghe street
	Songming County	Songyang town, Yanglin town, Xiaojie town, Niu lanjiang town, Dianyuan town, Yangqiao street
	Shilin Yi Autonomous	Lufu town, Shilin town, Banqiao town, Changhu town, Lu meiyi town, Xi jiekou town, Shilin Bai street

municipality	County (city, district)	township (town, street office)
	Luquan Yi Miao Autonomous county	Pingshan town, Sa yingpan town, Zhuanlong town, Maoshan town, Cuihua township, Tuanjie township, Yunlong township, Zhongping township, Jiaoxi township, Tanglang township, Ma lutang township, Da songshu township, Jiulong township, Zehei township, Wumeng
	Xundian Hui Yi Autonomous county	Rende town, Tangzi town, Yangjie town. Kedu town, Tangdian town, Gongshan town, Hekou township, Qixing township, Jinsuo township, Xianfeng township, Liu shao township, Jijie township, Fengyi township, Lianhe township,
Chuxiong City	Chuxiong City	Donggua town, Lvhe town, Donghua town, Ziwu town, Sanjie town, Bajiao town, Zhongshan town, Xincun town, Shuju township, Da guokou township, Da diji township, Xi shelu
	Shuangbai County	Tuodian town, Dazhuang town, Ejia town, Fabiao town, Da maidi town, An longbao
	Mouding County	Gonghe town, Xinqiao town, Jiangpo town, Fengtun town, panmao township, Qujie
	Nanhua County	Longchuan town, Shaiqiao town, Majie town, Tujie town, Wu dingshan township
	Yao'an County	Dongchuan town
	Dayao County	Zhao jiadian township, Tanhua township, Santai township, San chahe township
	Wuding County	Shishan town, Gaoqiao town, Huanzhou Township
	Lufeng County	Yi pinglang town, Tu guan town, Zhongcun township
Yuxi City	Yimen County	Liujie town, Lvzhi town
	Esan Yi Autonomous	Shuangjiang town, Xiaojie town
	Xinping Yi Dai Autonomous	Zhelong township, Pingzhang township

municipality	County (city, district)	township (town, street office)
	Yuanjiang Hani Yi and Dai Autonomous County	Yinyuan town, Yang chajie township, yangjie township, nanuo township, Mili township, Longtan township
Honghe State	Mengzi County	Zhicun town, Lengquan town, Qilu baimiao township, Laozhai miao township
	Lvchun County	Daxing town, Gekui township, Niukong township, Da shuigou township, Da heishan township, Banpo township, Qi maba township,
	Jianshui County	Guangting town, Xizhuang town, Nanzhuang town, Qujiang town, Puxiong township, Potou township, Dianwei township
	Yuanyang County	Xinjie town, Niu jiaozhai township, Sha latuo township, Ganiang township, Shang xincheng township, Xiao xinjie township, Feng chunling township, Daping township, Pan zhihua township, Huang caoling township, Ezha
	Honghe County	Jiayin township, Baohua township, Luo'en township, Azhahe township, Leyu township, Langdi township, Da yangjie township, Chegu township, Jiache township, Diema township,
	Jinping Miao Dai Autonomous county	Jinhe town, Tongchang township, Lao jizhai township, Zhemi Lahu township, Adebo township, Dazhai township, Ma andi township,
	Pingbian Miao Autonomous county	Yuping town, Xinxian township, Heping township, Baihe township, Baiyun township, Xinhua township, Wantang township
Wenshan State	Wenshan County	Pingba town,
	Xichou County	Xisa town, Xingjie town, Banggu township, Xin majie township, Bolin township, Fadou
	Ma lipo County	Donggan town, Mengdong Yao township, Yangwan township, Majie township
	Maguan County	Mabai town, Bazhai town, Renhe town, Muchang town, Jia hanqing town, Doulong town, Pojiao town, Nanlao township, Miechang
	Qiubei County	GUanzhai township

municipality	County (city, district)	township (town, street office)
	Guangnan County	Liancheng town, Babao town, Nanping town, Zhujie town, Nasa town, Zhulin town, Bamei town, Dongbao township, Jiumo township, Yangliujing township, Banbang township, Shuguang township, Hei zhiguo township, Zhuanjiao township, Wuzhu township, Zhetu
	Funing County	Xinhua town, Guichao town, Tianpeng town, Muyang town, Banlun township, Huajia
Pu'er City	Simao District	Simao town, Nanping town, Yixiang town, Si maogang town, Yunxian Yi township, Liushun township, Longtan Yi Dai township
	Ning Er Hani Yi Autonomous county	Ninger town, Mohei town, Dehua township, Tongxin township, Mengxian township, Puyi township, Liming township, Dean township,
	Mojiang Hani Autonomous county	Lianzhu town, Tongguan town, Xinan township, Mengnong Yi township, Tuantian township, Xinfu township, Jingxing township, Yutang Yi township, Longtang township, Wenwu township, Baliu township, Si nanjiang township, Naha township, Yayi township,
	Jingdong Yi Autonomous County	Jinping town, Wenjing town, Manwan town, Dachao Shandong town, Huashan township, Dajie township, Taizhong township, Longjie township, Wenlong township, Amding township, Linjie township, Jingfu township,
	Jinggu Dai Yi Autonomous County	Weiyuan town, Yongping town, Zhengxing town, Minlue town, Fengshan township, Jinggu township, Banpo township, Mengban township, Bian township, Yizhi township
	Zhen Yuan Yi Hani and Lahu Autonomous	Enle town, Anban town, Mengda town, Zhedong town, Tianba township, Gucheng township, Zhentai township, Jiujia township,
	Jiangcheng Hani Yi Autonomous county	Menglie town, Zhengdong town, Guoqing township, Jiahe township, Baozang township, Kangping township, Qushui township
	Menglian Dai Lahu and Wa Autonomous	Nayun town, Mengma town, Mangxin town, Jingxin township, Fuyan township, Gongxin township

municipality	County (city, district)	township (town, street office)
	Lancang Lahu Autonomous county	Menglang town, Shangyun town, Nuo zhadu town, Qianliu Yi township, Donghe township, Dashan township, Nanling township, Jiujiang Hani township, Huimin Hani township, Donghui township, Laba township, Zhutang township, Fubang township, Xuelin Wa
	Ximeng Wa Autonomous	Mengsuo town, Mengka town, Weng gake township, Lisuo Lahu township, Yuesong
Xishuangbanna State	Jinghong City	Yun jinghong street, Gasa town, Menglong town, Menghan town, Mengyang town, Puwen town, Jingha Hani township, Jingne township, Da dugang township, Mengwang township, Ji nuoshan Jinuo township
	Menghai County	Menghai town, Daluo town, Menghun town, Mengzhe town, Mengman town, Meng'a town, Mengsong township, Mengwang township, Gelanghe Hani township, Bulangshan Bulang township, Xiding Hani Bulang township
	Mengla County	Mengla town, Menglun town, Mohan town, Mengban town, Guanlei town, Yiwu township, Xiangming Yi township, Yaoqu Yao township
Dali State	Dali City	Xiaguan town, Dali town, Fengyi town, Wanqiao town, Yinqiao town
	Yongping County	Bonan town, Longjie town, Longmen township, changjie Yi township, Shuixie Yi township, Bixi Yi township
	Yunlong County	Jiuzhou town, Baofeng town, Tuanjie Yi township
	Nanjian Yi Autonomous County	Nanjian town, Xiao wandong town, Gonglang town, Baohua town, Yongcui township, Leqiu township, Bixi township, Wuliang township
	Weishan Yi Hui Hui	Dacang town, Yongjian town, Ma anshan township, Qinghua township, Wuyin township

municipality	County (city, district)	township (town, street office)
Baoshan City	Longyang District	Yongchang street, Banqiao town, Hanzhuang town, Pupiao town, Wayao town, Lujiang town, Xinjie township, Xiyi township, Bingma township, Wadu township, Shuizhai township, Wama Yi Bai township, Wafang Yi Miao township, Yangliu Bai Yi township, Mangkuan
	Shidian County	Dianyang town, Youwang town, Yaoguan town, Taiping town, Renhe town, Wanxing township, Bailang Yi Bulang township, Jiufang township, Jiucheng township, Mu laoyuan Bulang Yi township, Laomai township, Heyuan township,
	Tengchong County	Tengyue town, Gudong town, Diantan town, Houqiao town, Jietou township, Qushi township, Mingguang township, Mazhan township, Beihai township, Zhonghe township, Qingshui township, Mangbang township, Wuhe township, Xinhua township, Puchuan township,
	Longling County	Longshan town, Zhenan town, Mengnuo town, Longjiang township, Lameng township, Bizhai township, Longxin township, Xiangda township, Pingda township, Mucheng Yi Lisu
	Changning County	Tianyuan town, Mangshui town, Kejie town, Kasi town, Mengtong town, Da tianba township, Jifei township, Wengdu township, Wandian Dai township, Zhujie Yi township,
Dehong state	Luxi City	Mangshi town, Zhefang town, Mengga town, Fengping town, Xuangang township, Jiangdong township, Xishan township, Zhongshan township, San taishan Dean township, Wu chalu
	Ruili City	Mengmao town, Nongdao town, Huyu township, Mengxiu township
	Lianghe County	Zhedao town, Mangdong town, Mengyang town, Pingshan township, Xiaochang township, Dachang township, Jiubao Achang township, Nangsong Achang township, Hexi township

municipality	County (city, district)	township (town, street office)
	Yingjiang County	Pingyuan town, Jiucheng town, Nongzhang town, Zhanxi town, Kachang town, Xima town, Taiping town, Xincheng township, You songling township, Mangzhang township, Zhina township, Sudian Lisu township, Mengnong township, Tong biguan township
	Longchuan County	Zhangfeng town, Longba town, Jinghan town, Chengzi town, Husa Achang township, Huguo township, Qingping township, Wang zishu
Lincang City	Linxiang District	Fengxiang street, Mangpan street, Boshang town, Nanmei Lahu township, Ma yidui township, Zhangtuo township, Quannei township, Matai township, Bangdong township,
	Fengqing County	Fengshan town, Lushi town, Xiaowan town, Yingpan town, San chahe town, Mengyou town, Xueshan town, Luodang town, Shili township, Xinhua Yi Miao township, Dashi township, Yaojie Yi township, Guo dazhai Yi Bai township
	Yun County	Aihua town, Manwan town, Dacha shanxi town, Yongbao town, Maolan town, Xingfu town, Dazhai town, Manhuai Yi Bulang township, Xiaojie township, Chafang township, Lishu Yi Dai township, Houqing Yi township
	Yongde County	Dedang town, Xiao mengtong town, Yongkang town, Mengban township, Yalian township, Wu mulong Yi township, Da xueshan Yi Lahu Dai township, Banka township, Chonggang
	Zhenkang County	Fengwei town, Mengpeng town, Nansan town, Mangbing township, Mengdui township, Junsai Wa Lahu Lisu Deang township
	Shuangjiang Lahu Wa Bulang and Dai Autonomous County	Mengmeng town, Mengku town, Shahe township, Dawen township, Mangnuo township, Bangbing township
	Gengma Dai Wa Autonomous county	Gengma town, Mengyong town, Mengsa town, Mengding town, Daxing township, Manghong Lahu Bulang township, Si paishan township, Hepai township, Mengjian township

municipality	County (city, district)	township (town, street office)
	Cangyuan Wa Autonomous County	Mengdong town, Yanshuai town, Mengsheng town, Mangka town, Danjia township, Nuoliang township, Mengjiao Dai Yi Lahu township, Banhong township, Banlao township

Specific Production Steps:

(1) Sunning tea:

Tea leaves→ fixation→ rolling→ sunning→ packing

(2) Pu'er Cha (Pu'er Tea) (raw):

Refining sunning tea→ steaming and compressing→ drying→ packaging (raw tea)

(3) Pu'er (cooked) Loose Tea:

Fermenting sunning tea→ drying→ refining→ packaging (cooked) Loose Tea

(4) Pu'er (cooked) Compressed Tea:

Pu'er (cooked) Loose Tea→ steaming and compressing→ drying→ packaging (cooked) Compressed Tea

7. Link with the Geographical Area

The raw material suitable for making Pu'er Cha (Pu'er Tea) is Yunnan big leaf tea species. Its production has a long history, according to one of the earliest written records - "Qiu-hu dallying volunteers" Written by Chang Qu in the Eastern Jin Dynasty (317-420), Lawrence w. Zhou felling period as early as three thousand years ago, Yunnan tea ancients PuRen has offered tea to ji fa. According to the Southern Song Dynasty Li Shi "Annals of history" records: " West fan with Pu tea, since the Tang Dynasty." West fan, refers to the living in the Tibetan area of the brothers and nationalities, Pu tea is Pu'er tea, it's clear that there is the trade of Pu'er tea as early as

the Tang Dynasty. Qing Dynasty Zhao Xuemin "Compendium of Materia Medica Supplements" wrote Pu'er Cha (Pu'er tea) came from Pu'er Fu Gedeng, Youle, Yibang and other six tea mountains. Pu'er Fu was also now Pu'er City, as the town of southern Yunnan, around the production of tea transported to Pu'er Fu concentrated processing, and then sell all over the Tibetan, This was the source of Pu'er tea name.

Historically, Yunnan's tea was sold to Tibet, Sichuan, Hong Kong and Southeast Asia and other places through a number of ancient tea horse roads. As the traffic was inconvenient, the transport of tea is mainly rely on caravan pack transport, for the convenience of transport, tend to loose tea autoclave molding, outsourcing Bamboo leaves, into the bamboo basket shipment. After a long journey, the chemical substances of original suppression of tight tea produced a series of oxidation and condensation reaction in the role of hot and humid and microbial, inadvertently formed sweet, slip, alcohol, thick quality characteristics.

Pu'er Cha (Pu'er Tea) for lateritic soil, brick red, red soil, mountain red soil and mountain yellow soil, etc; soil organic matter content $\geq 1\%$; pH value: 4.5 to 6.0. Besides, belongs to acidic soils, high organic matter content; Drainage, good air permeability, soil deep, very suitable for tea tree growth. Pu-erh tea producing region climate type is subtropical monsoon climate, annual average temperature 17 to 22 °C. Annual temperature difference is small, daily temperature difference is big, annual rainfall is 1200-1800 mm, the rainy season, warm and humid; Site conditions at an altitude of 1000 m to 2100 m, mountain slope $\leq 25^\circ$, the surface solar radiation is more, good light conditions, conducive to the formation of tea polyphenols in tea. Pu'er Cha (Pu'er Tea) producing high forest coverage rate, negative oxygen ion content is high in the air, the air quality in good condition. These excellent climatic

conditions were favorable to the growth of Yunnan large leaf tea in these areas, and laid a solid foundation for the formation of the chemical quality of Pu'er tea. It was well known that the changes of climatic conditions, such as sunshine, temperature and precipitation, had obvious effects on the chemical constituents of tea, especially secondary metabolites.

There was a special process of "post-fermentation" during Pu'er tea (cooked) producing; it was the most important step to format the quality characteristics of Pu'er tea (cooked). The microorganisms played an important role in this process, under the action of microorganism, enzyme and damp heat, a series of chemical changes occurred in Pu'er tea (raw), oxidation and condensation of tea polyphenols, decomposition and degradation of protein and amino acids, consumption and decomposition of carbohydrates, and polymerization and condensation of various products, which made Pu'er tea (cooked) with red color, sweet flavor, special fragrant smell from sunning tea with green color, astringent, fresh and pure.

Pu'er tea was rated as one of the top ten tea regional public brands in China at the first China international tea expo organized by the ministry of agriculture. The brand value of Pu'er tea was exceeded 6 billion Yuan for two consecutive years, and ranked the first among the top 10 tea brands in the "Evaluation of regional public brand value of Chinese tea " in April 2018. There were 45 Pu'er tea production enterprise (including instant Pu'er tea powder) in our province, and 56 products obtained Yunnan famous brand title, accounting for 6% of the total number of current effective Yunnan famous brands.

8. Specific rules concerning labelling and using (if any)

None

9. Control body / control authority responsible for checking the respect of the product specifications

Yunnan Provincial Bureau of Quality and Technical Supervision