

**MARKET INSIDER FOR MEDICINAL PLANTS & NATURAL INGREDIENTS
INDICATIVE PRICES FOR SELECTED BOTANICAL INGREDIENTS
December 2015**

Rates of Exchange: 20 December 2015

CURRENCY	CODE	UNITS 1 / USD	UNITS 1 / EUR
Chinese Yuan Renminbi	CNY	6.48310	7.04509
EURO	EUR	0.920167	1.0000
Indian Rupee	INR	66.3135	72.0619
Nepalese Rupee	NPR	103.140	112.083
Russian Ruble	RUB	70.9820	77.1373
United States Dollar	USD	1.0000	1.08671

Source: XE Currency Converter: <http://www.xe.com/currencyconverter/>

Note: Prices should be considered indicative only and reflect the price of a product of a specific grade or quality from the specified origin. Great care should be taken when comparing prices of medicinal herbs of different origins, grades, qualities and quantities.

AJOWAN FRUIT			
Botanical name: <i>Trachyspermum ammi</i> Hindi: Ajwain / Sanskrit: Yavani Pharmacopoeial name: Trachyspermi Ammi Fructus			
Medicinal uses:	Traditional Ayurvedic Medicine: a) flatulence with a gurgling sound; b) distension of abdomen due to obstruction to passage of urine and stools; c) diseases of abdomen; d) abdominal lump; e) intestinal parasites; f) sharp piercing pain.		
	Traditional Unani Medicine: a) flatulence in the stomach; b) gastric pain; c) anorexia; d) colic; e) pertussis; f) diarrhoea; g) hysteria; h) cholera.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Neemuch, Madhya Pradesh	6200~14100 INR / quintal (= 100 kg); Modal price: 13100 INR / quintal	\$0.934953~\$2.12626/kg (Modal price: \$1.97547/kg)	19.12.2015
ASHWAGANDHA ROOT			
Botanical name: <i>Withania somnifera</i> Sanskrit: Asvagandha (अश्वगंधा) Pharmacopoeial name: Withaniae Somniferae Radix			
Medicinal uses:	Traditional Ayurvedic Medicine: a) inflammatory disorders; b) phthisis (any wasting or atrophic disease, weakness, diseases due to <i>vata dosha</i>); and c) male impotence.		
	Traditional Siddha Medicine: a) oligospermia; b) lancinating pain; c) loss of body strength; d) anemia; e) convulsions/seizures/fits; f) disordered humor; g) eczema; h) edema/swelling; and i) tuberculosis.		
	Traditional Unani Medicine: a) leucorrhoea; b) spermatorrhoea; c) decreased viscosity of semen; d) sexual debility; e) lumbago; f) arthritis.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
FOB Mumbai Port, MH	US\$1000 / MT (whole; Qty: 1-20' FCL)	\$1.00 / kg	16.12.2015

BETLENUT (SEED)			
Botanical name: <i>Areca catechu</i> Chinese: Binglang (檳榔) / Sanskrit: Puga, Kramuka, Ghona Pharmacopoeial name: Arecae Catechu Semen			
Medicinal uses:	Traditional Ayurvedic Medicine: a) tastelessness; b) contortion of the mouth; c) loss of vaginal muscle tone; d) leucorrhoea (white to yellow viscid discharge from the vagina or uterine cavity)		
	Traditional Chinese Medicine: a) taeniasis (parasitic infection caused by the tapeworm); b) ascariasis (disease caused by the parasitic roundworm); c) fasciolopsiasis (diseases caused by the intestinal fluke); d) abdominal pain due to intestinal parasitosis; e) diarrhea due to accumulation of undigested food; f) oedema and weakness of the legs; g) malaria.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Thirthahalli, Karnataka	30699~31219 INR/quintal (Modal price: 31129 INR / quintal; wild-collected)	\$4.62937~\$4.70779 / kg (Modal price: \$4.69422/kg)	20.12.2015
BARBARY WOLFBERRY FRUIT			
Botanical name: <i>Lycium barbarum</i> Chinese: gou qi zi (枸杞子) Pharmacopoeial name: Lycii Fructus			
Medicinal uses:	Traditional Chinese Medicine: a) general debility with deficiency of <i>vital essence</i> manifested by aching of the loins and knees, dizziness and tinnitus; b) diabetes caused by <i>internal heat</i> ; c) anaemia; d) impaired vision.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	69.00 CNY / kg (Grade 1, Ningxia origin)	\$10.6490 / kg	20.12.2015
Chengdu, Sichuan	58.00 CNY / kg (Grade 1, Xinjiang origin)	\$8.95130 / kg	20.12.2015
CRANBERRY FRUIT			
Botanical name: <i>Vaccinium macrocarpon</i> French: canneberge / Spanish: arándano agrio Pharmacopoeial name: Macrocarponii Fructus			
Medicinal uses:	Traditional Western Herbal Medicine: a) to help prevent recurrent urinary tract infections		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Ex-whse New Jersey, USA	US\$ 2.25 / lb (Min. qty: 1,000 lbs)	\$4.96 / kg (Min. qty: 454 kg)	17.12.2015
FENNEL FRUIT			
Botanical name: <i>Foeniculum vulgare</i> Arabic: شمر; Chinese: xiao hui xiang (小茴香) / Hindi: Saunf / Sanskrit: Misreya Pharmacopoeial name: Foeniculi Fructus			
Medicinal uses:	Traditional Ayurvedic Medicine: a) digestive impairment; b) colic pain; c) cough; d) vitiated blood; e) dysentery; and f) piles.		
	Traditional Chinese Medicine: a) treatment of scrotal hernia with pain and cold extremities; b) dysmenorrhoea with lower abdominal pain and cold sensation; and c) distending pain in the epigastrium with anorexia.		
	Traditional European Medicine: a) symptomatic treatment of mild, spasmodic gastrointestinal complaints including bloating, and flatulence; b) symptomatic treatment of minor spasm associated with menstrual		

periods; and c) as an expectorant in cough associated with cold.			
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Mumbai, Maharashtra	10000~14000 INR / quintal (= 100 kg); Modal price: 12000 INR / quintal	\$1.50799~\$2.11119/ kg (Modal price: \$1.80959/ kg)	19.12.2015
FOB Fayoum, Egypt	US\$ 1375 / MT (Purity 99%; Qty 25 MT / 40' FCL)	\$1.375 / kg	14.11.2015
Anguo, Hebei	11.00 CNY / kg (Northwest origin)	\$1.69702 / kg	20.12.2015
FENUGREEK SEED			
Botanical name: <i>Trigonella foenum-graecum</i> Arabic: حلبة حصى; Chinese: hu lu ba (胡蘆巴) / Sanskrit: Methi Pharmacopoeial name: Trigonellae Foenugraeci Semen			
Medicinal uses:	Traditional Ayurvedic Medicine: a) malabsorption syndrome; b) fever; c) increased frequency and turbidity of urine; and d) loss of taste sensation.		
	Traditional Chinese Medicine: a) cold syndrome of the <i>kidney</i> due to <i>yang deficiency</i> marked by pain and coldness in the lower abdomen; b) hernia; and c) weakness and oedema of the legs caused by <i>cold-damp</i> .		
	Traditional European Medicine: a) (oral) temporary loss of appetite; b) (cutaneous) symptomatic treatment of minor inflammations of the skin.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
FOB Mumbai Port, MH	US\$ 1155 / MT (Grade: FAQ; Qty: 21 MT / 20' FCL)	\$1.155 / kg	16.12.2015
FOB Fayoum, Egypt	US\$ 950 / MT (Qty: 1 × 40' FCL)	\$0.95 / kg	14.11.2015
GINGER RHIZOME			
Botanical name: <i>Zingiber officinale</i> Chinese: gan jiang (干姜) / Nepalese: Sutho / Sanskrit: Sunthi Pharmacopoeial name: Zingiberis Rhizoma			
Medicinal uses:	Traditional Ayurvedic Medicine: a) digestive impairment; b) flatulence; c) anaemia; d) asthma; e) abdominal diseases; and f) rheumatism.		
	Traditional Chinese Medicine: a) epigastric pain with cold feeling, vomiting and diarrhoea accompanied with cold extremities and faint pulse; and b) dyspnoea and cough with copious expectoration.		
	Traditional European Medicine: a) symptomatic relief of motion sickness; and b) symptomatic treatment of mild, spasmodic gastrointestinal complaints including bloating and flatulence.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	16.00 CNY / kg (Yunnan origin)	\$2.46804 / kg	20.12.2015
Perumbavoor, Kerala	17000~18000 INR / quintal (= 100 kg); Modal price: 17500 INR / quintal	\$2.56399~\$2.71481/ kg (Modal price: \$2.63907/ kg)	19.12.2015
FOB Mumbai Port, MH	US\$ 3175 / MT (Grade: Good; Qty 12.5 MT / 20' FCL)	\$3.175 / kg	16.12.2015

GOTU KOLA HERB			
Botanical name: <i>Centella asiatica</i> Chinese: ji xue cao (积雪草) / Sanskrit: Mandukaparni Pharmacopoeial name: Centellae Asiaticae Herba			
Medicinal uses:	Traditional Ayurvedic Medicine: a) inflammation; b) tastelessness; c) fever; d) cough; e) itching; f) skin diseases; g) excessive bleeding disorder; h) excessive flow of urine; i) asthma; j) anaemia; k) blood disorders.		
	Traditional Chinese Medicine: a) jaundice caused by <i>damp-heat</i> ; b) heat stroke with diarrhoea; c) urolithiasis and haematuria; d) carbuncles and boils; e) traumatic injuries.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	8.00 CNY / kg	\$1.23476 / kg	20.12.2015
ISPAGHULA SEED			
Botanical name: <i>Plantago ovata</i> Pharmacopoeial name: Plantaginis Ovatae Semen			
Medicinal uses:	Well-established uses: a) for the treatment of habitual constipation; and b) for conditions in which easy defecation with soft stool is desirable, e.g. in cases of painful defecation after rectal or anal surgery, anal fissures and haemorrhoids.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
NMCE Spot Price	10447~10603.3 INR / quintal	\$1.57540~/\$1.59897 kg	20.12.2015
JATAMANSI ROOT AND RHIZOME			
Botanical name: <i>Nardostachys jatamansi</i> Chinese: gan song (甘松) / Nepalese: Jatamansi / Sanskrit: Jatamansi Pharmacopoeial name: Nardostachyos Radix et Rhizoma			
Medicinal uses:	Traditional Ayurvedic Medicine: a) diseases of skin; b) erysipelas (bacterial skin infection); c) burning sensation; d) mental disorders; e) insomnia.		
	Traditional Chinese Medicine: a) (oral) epigastric and abdominal distension with anorexia and vomiting; b) (external) for toothache and swelling of the foot.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	30.00 CNY / kg (wild-collected, Sichuan)	\$4.62700 / kg	20.12.2015
LIQUORICE ROOT			
Botanical name(s): <i>Glycyrrhiza uralensis</i> , <i>G. inflata</i> , or <i>G. glabra</i> Chinese: gan cao (甘草) / Sanskrit: Yasti Pharmacopoeial name: Glycyrrhizae Radix et Rhizoma			
Medicinal uses:	Traditional Ayurvedic Medicine: a) cough; b) hoarseness of voice; c) phthisis (any wasting or atrophic disease, weakness, diseases due to <i>vata dosha</i>); d) ulcer; and e) gout.		
	Traditional Chinese Medicine: a) weakness of the spleen and the stomach marked by lassitude and weakness; b) cardiac palpitation and shortness of breath; c) cough with much phlegm; d) spasmodic pain in the epigastrium, abdomen and limbs; e) carbuncles and sores; and f) often added to formulas to reduce drastic or toxic effects of other drugs.		
	Traditional European Medicine: a) for the relief of digestive symptoms		

	including burning sensation and dyspepsia; and b) used as an expectorant in cough associated with cold.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	16.00 CNY / kg (Xinjiang origin; wild-collected)	\$2.46754 / kg	20.12.2015
Anguo, Hebei	8.00 CNY / kg (Inner Mongolia origin; wild-collected)	\$1.23384 / kg	20.12.2015
MAHUA FLOWER			
Botanical name: <i>Madhuca indica</i> (Syn.: <i>M. latifolia</i>) Hindi: Mahuwa / Sanskrit: Gudapushpa Pharmacopoeial name: Madhucae Flos			
Medicinal uses:	Traditional Ayurvedic Medicine: a) asthma; b) burning sensation; c) wound; d) phthisis (wasting disease); e) thirst; f) fatigue, lethargy		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Lohardaga, Jharkhand	3200~3500 INR/quintal (Modal price: 3350 INR / quintal; wild-collected)	\$0.482560~\$0.527800 / kg (Modal price: \$0.505180/kg)	20.12.2015
MOLOKHIA LEAF			
Botanical name: <i>Corchorus olitorius</i> Arabic: Mulukhiyah (ملوخية) Pharmacopoeial name: Corchori Olitorius Folium			
Medicinal uses:	Traditional Egyptian Medicine: a) chronic cystitis (inflammation of the urinary bladder); b) dysuria (painful urination); c) gonorrhoea; d) fever		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
FOB Fayoum, Egypt	US\$ 1375 / MT (Crushed dry leaves; Qty: 1 × 40' FCL)	\$1.375 / kg	14.11.2015
RHUBARB ROOT, CHINESE			
Botanical name(s): <i>Rheum palmatum</i> , <i>R. tanguticum</i> , or <i>R. officinale</i> Chinese: Da huang (大黄) / Tibetan: lCum-rtsa (ལུམ་རྩ་སྐུ་ལྷོ་ལྷོ་) Pharmacopoeial name: Rhei Radix et Rhizoma			
Medicinal uses:	Traditional Chinese Medicine: accumulation, stagnation and constipation caused by <i>excess heat</i> , hematemesis (vomiting blood) caused by <i>blood heat</i> , red eyes and swollen throat, swelling abscess, deep-rooted boil and sore, abdominal pain caused by intestinal abscess, blood-stasis amenorrhoea (absence of menstruation), postpartum stasis and obstruction, injuries from falls and fights, <i>dampness-heat</i> dysentery, jaundice and red urine, stranguria (slow, painful urination), edema. Well-established use in European Medicine: for short-term use in cases of occasional constipation.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	19 CNY / kg (wild-collected, Sichuan)	\$2.93029 / kg	20.12.2015
SCHISANDRA FRUIT - NORTHERN			
Botanical name: <i>Schisandra chinensis</i> Chinese: Beiwuweizi (北五味子) Pharmacopoeial name: Schisandrae Chinensis Fructus			

Medicinal uses:	Traditional Chinese Medicine: a) chronic cough and dyspnoea of deficiency type; b) dream emission and spermatorrhoea; c) enuresis and frequent urination; d) chronic diarrhoea; e) spontaneous sweating and night sweating; f) thirst caused by fluid consumption; g) interior heat-wasting thirst; h) palpitation and insomnia		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	51.50 CNY / kg	\$7.94398 / kg	20.12.2015
SCHISANDRA FRUIT - SOUTHERN			
Botanical name: <i>Schisandra sphenanthera</i> / Chinese name: Nanwuweizi (南五味子) Pharmacopoeial name: Schisandrae Sphenantherae Fructus			
Medicinal uses:	Traditional Chinese Medicine: a) chronic cough and dyspnoea of deficiency type; b) dream emission and spermatorrhoea; c) enuresis and frequent urination; d) chronic diarrhoea; e) spontaneous sweating and night sweating; f) thirst caused by fluid consumption; g) interior heat-wasting thirst; h) palpitation and insomnia		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
Chengdu, Sichuan	23.00 CNY / kg (wild-collected, Sichuan)	\$3.54728 / kg	20.12.2015
SENNA LEAF - TINNEVELLY			
Botanical name: <i>Cassia angustifolia</i> Chinese name: fan xie yi (番瀉葉 or 番泻叶) / Sanskrit name: svarnapatri / Pharmacopoeial name: Sennae Angustifoliae Folium			
Medicinal uses:	Well-established uses: a) for short-term use in cases of occasional constipation		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
FOB Mumbai Port, MH	US\$ 545 / MT (Indian origin; Prime 3; Qty: 26 MT / 40' FCL)	\$0.545 / kg	16.12.2015
Anguo, Hebei	8.00 CNY / kg (imported)	\$1.23384 / kg	20.12.2015
SENNA POD - TINNEVELLY			
Botanical name: <i>Cassia angustifolia</i> Pharmacopoeial name: Sennae Angustifoliae Fructus			
Medicinal uses:	Well-established uses: a) for short-term use in cases of occasional constipation.		
MARKET	PRICE	CONVERTED TO US\$ / kg	DATE OF PRICE
FOB Mumbai Port, MH	US\$ 1030 / MT (Qty: 26 MT / 40' FCL)	\$1.030 / kg	16.12.2015

Price Sources

China:

- Alibaba: <http://www.1688.com/>
- Chengdu Traditional Chinese Medicine Price Index: <http://www.ysindex.com>
- Chinese Medicinal Herb E-Commerce Office: <http://www.zyctd.com/> and <http://www.zyccst.com/>

Egypt:

- Private companies

India:

- Agmarknet, Directorate of Marketing & Inspection (DMI), Ministry of Agriculture, Government of India: <http://agmarknet.nic.in/arrivals1.htm>
- ICAR (Indian Council of Agricultural Research) - Directorate of Medicinal and Aromatic Plants Research: <http://www.dmapr.org.in/HeadPage/FarmProduct.html>
- Madhya Pradesh State Agricultural Marketing Board (Mandi Board): <http://mpmandiboard.gov.in/>
- National Multi-Commodity Exchange of India Ltd. (NMCE): <http://www.nmce.com/marketdata/SpotPriceInfo.aspx>
- Private companies

Nepal:

- Asia Network for Sustainable Agriculture and Bioresources: <http://www.ansab.org/>

USA:

- Private companies