



PROJECT NO: B-02

NEED OF HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC) FOR QUALITY ASSURANCE LAB

EXECUTIVE SUMMARY:

Men-Tsee-Khang, (Tibetan Medical & Astro. Institute of His Holiness the Dalai Lama) is a cultural, educational and charitable institute registered under the Societies Registration Act of XXI of 1860. As the only institution of its kind in the world, Men-Tsee-Khang strives to promote and practice gSowa Rigpa (Tibetan medicine) and rTsis dkar-nag gNyis (Tibetan astronomy and astrology) and to provide an accessible health care to all those in need. Through community-based clinical services, education of medical professionals, exhaustive research into natural medicines, documentation of text and lectures and distribution of information, Men-Tsee-Khang ensures the preservation and development of Tibetan medicine and astrology. In 1916, the thirteenth Dalai Lama, spiritual and political leader of Tibetans, established Men-Tsee-Khang in Lhasa (Tibet's Capital) to formalize the training of the doctors and astrologers. In 1961 His Holiness the Fourteenth Dalai Lama re-established Men-Tsee-Khang in Dharamsala, India. Men-Tsee-Khang has produced 263 physicians and 47 astrologers from 15 medical batches and 7 astrological batches in the last 53 years in exile and as many as 114 doctors and 16 Astrologers are still working in our institute.

The Pharmaceutical Department of Men-Tsee-Khang produces nearly 170 different recipes/drugs of Tibetan medicine based on the prevalence of diseases. The Herbal Product Research Department produces nearly 43 variants of Sorig Healthcare products ranging from health tonic supplements to varieties of health drinks meant for the different disorders due to the disequilibrium of three principle humors. Different types of lotions, skincare creams, massage oils, etc are produced for use based on the nature of one's skin.

The Quality Assurance Laboratory was mainly established with the goal of controlling the quality of Tibetan medicine and healthcare products produced from this institute. It has a microbiology unit to carry out the microbiological testing of crude drugs prior to passing it into the production unit. After production, finished products are tested for microbial load and step wise vigilance process for the microbial contaminant as per the protocol of World Health Organization (WHO) limit. The phyto-chemical testing of Tibetan Medicine and other chemical testing of skin healthcare products are done with an instrument called a UV Spectrometer. The current facility in the laboratory is inadequate for further scientific research of Tibetan medicine. In order to engage in further scientific research of Tibetan medicine, more advanced machines are required.

Besides routine quality control testing, various research work on the qualitative parameters of Tibetan medicine and its medicinal herbs are carried out with the facilities available at hand but due to lack of infrastructure, especially availability of sophisticated instruments like High Performance Thin Layer Chromatography (HPTLC), High Performance Liquid Chromatography, and Atomic Absorption Spectrophotometer, the research on Tibetan medicine is very limited.

GOAL OF THE PROJECT:

To improve the quality of Tibetan medicine according to today's Good Manufacturing Practice (GMP) standard by maintaining the standard prescribed in the treatise of Traditional Tibetan medical system.

OBJECTIVES

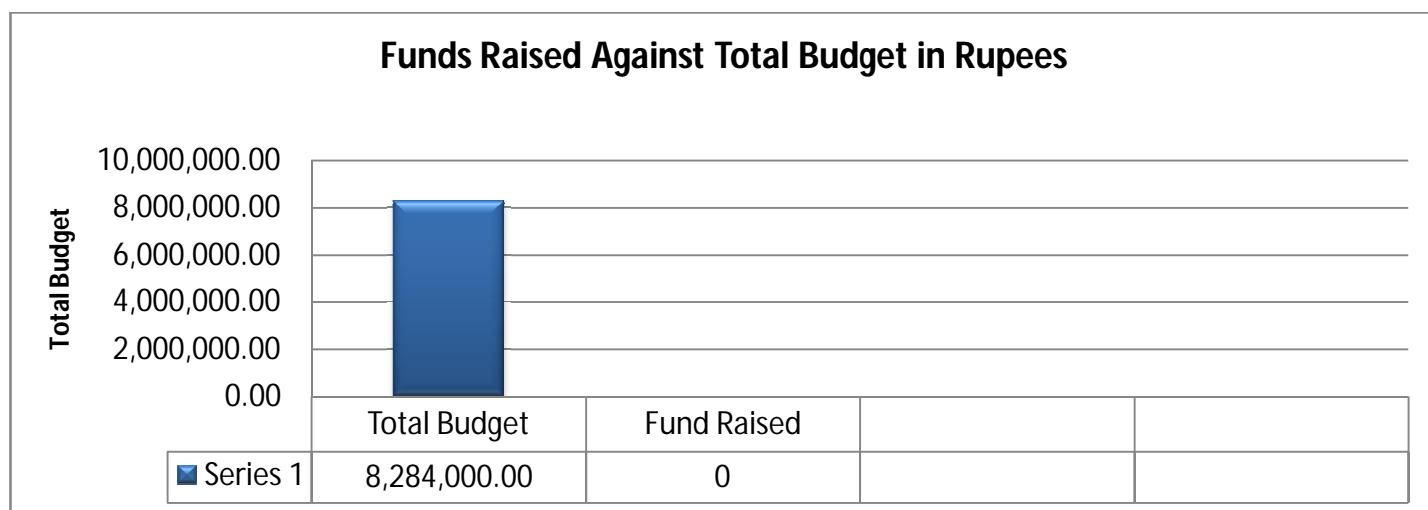
1. To explore scientific evidence of Tibetan medicine.
2. To standardize the quality of Tibetan medicine and its crude drugs.
3. To guarantee the potency and efficacy of Tibetan medicine.

BUDGET FOR THE PROJECT:

S.No	Particular	In CHF	In INR	Contingen cies@5%	Grand Total
1	winCat Palaner Chromatography system manager software	5,500.00	319,000.00	15,950.00	334,950.00
2	Camag Automatic TLC sampler IV	32,500.00	1,885,000.00	94,250.00	1,979,250.00
3	Dosing syringe starter jkit for ATS 4	850.00	49,300.00	2,465.00	51,765.00
4	Chromacol sample vials N-11	1,300.00	75,400.00	3,770.00	79,170.00
5	TLC foil down holder for ATS 4	155.00	8,990.00	449.5	9,439.50
6	Compensation ledge for 10*10cm	55.00	3,190.00	159.5	3,349.50
7	Chromatogram development devices	747.00	43,326.00	2,166.30	45,492.00
8	Vario system for method development	3,650.00	211,700.00	10,585.00	222,285.00
9	Immersion device	3,385.00	196,330.00	9816.5	206,146.50
10	TIC Visualiser	37,500.00	2,175,000.00	108,750.00	2,283,750.00
11	Quantitative Measurement and data handling	50,380.00	2,922,040.00	146,102.00	3,068,142.00
	Grand Total in INR		7,889,276.00	394,464.00	8,284,000.00
	Grand Total in USD				153,408.00
	Grand Total in EURO				118,343.00
	Grand Total in CHF				142,828.00

Exchange rate as on 1st September 2012

Note: Budget for the project is subject to change as and when required.



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