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भारतीय मानक मसौदा

नीरकुरी विश्लेषण - रीती संहिता

Draft Indian Standard

Nīrkuri (Uromacroscopy) Analysis - Code of Practice

ICS 11.120.10

Siddha Sectional Committee, AYD 05

Last Date of Comments: 12-03-2025

FOREWORD

(Formal Clauses would be added later)

There is a growing global interest in indigenous health care systems, particularly for managing chronic lifestyle-related diseases. An integrated healthcare approach is necessary to meet modern society's diverse needs. Siddha medicine, an ancient Indian system, employs tailored therapies that include herbs, minerals, and dietary modifications based on individual characteristics such as constitution and environment.

Nīrkuri is a traditional diagnostic method assessing urine characteristics—colour, froth, weight, odour, and frequency. Analysing these factors provides insights into health status and potential diseases. Standardizing this technique will enhance its clinical utility and support Siddha practitioners, researchers, and health professionals in utilizing *Nīrkuri* as a method for preventive and personalized treatment within Siddha medicine.

This standard outline general requirements, key characteristics, and insights related to Siddha $N\bar{v}rkuri$. It aims to guide Siddha physicians, researchers, academics, and Siddha students in effectively practicing the $N\bar{v}rkuri$ technique. The purpose is to establish $N\bar{v}rkuri$ as a traditional diagnostic tool that can be effectively used for preventive, personalized, and prophylactic treatments in Siddha.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressed the result of a test or analysis, shall be rounded off in accordance with IS 2:2022 'Rules for rounding off numerical values (Second Revision). The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Draft Indian Standard Nīrku<u>r</u>i (Uromacroscopy) Analysis - Code of Practice

1 SCOPE

This standard specifies general requirements and code of practice details for *Nīrkuri* (Uromacroscopy) Analysis.

2 NORMATIVE REFERENCES

The standards listed below contain provisions which, through reference in this text, constitute provision of this standard. All standards are subject to revision, and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards.

IS 2619: 2018	Glass beakers – Specification (Third Revision)
IS 2618:2016 ISO 4142:2002	Laboratory glassware - Test tubes (Third Revision)
IS 9281(Part 3):1981	Specification for electronic weighing systems: Part 3 requirements

3 TERMS AND DEFINITIONS

For the Purpose of this standard, the following terms and definitions shall apply.

- **3.1** *Nīrku<u>r</u>i* It is a method of diagnostic tool to view the characteristics of fresh urine by naked eye examination (Uromacroscopy). Colour, froth, weight, odour and frequency are the various factors to study the urine test. It is used to diagnose and predict the prognosis of various diseases and also reflects the status of the health.
- 3.2 Nīr The term "Nīr" denotes Urine.
- 3.3 Kuri The term "Kuri" means Sign.

4 REQUIREMENTS

4.1 DESCRIPTION

4.1.1 Beaker - The provisions of clause 7 of IS 2619: 2018 shall apply. The ideal capacity of the beaker being 800 ml.

4.1.2 Test tube – The provisions of clause 7 of IS 2618: 2016 shall apply. The ideal capacity of the test tube being not less than 30 ml.

4.1.3 Electronic Weighing Machines – The provisions of clause 3 of IS 9281(Part 3):1981 shall apply.

4.1.4 Colour chart - Colour reference charts as given in Clause 5 of this standard shall apply for comparison with the sample and further evaluation.

5 CODE OF PRACTICE FOR *NĪRKU<u>R</u>I* (UROMACROSCOPY)

The following guidelines shall apply for principles and practice of Siddha diagnostic method *Nīrku<u>r</u>i* (Uromacroscopy).

5.1 The Classical Approach to Urine Sampling

- a) *Tēraiyar's* principles of *Nīrkuri* and *Neykkuri* recommend specific pre-testing conditions for patients to achieve better results. The diet should consist of all six tastes, within recommended limits, and be consumed according to appetite at appropriate times.
- b) Urine samples for analysis should be collected early in the morning, ideally before sunrise, however, in cases of emergency and depending upon patient's condition, it may be collected at any time.
- c) The urine shall be voided in a glass vessel/ beaker and immediately preceded for *Nīrkuri* test (*Niram, Nurai, Ețai, Maņam, and Eñcal*). Passing of urine shall not to be suppressed for long time, as it may affect the results.

5.2 Understanding Nīrkuri: Observations and Insights

Natural urine is described in Siddha texts as fresh urine that is not overly dense and free of sediment, indicating that it is healthy. A visual examination of fresh urine can reveal important diagnostic information through five key aspects: *Niram* (Colour), *Nurai* (Froth), *Ețai* (Weight), *Maņam* (Odour), and *Eñcal* (Frequency).

5.2.1 Niram (Colour)

- a) Siddha literatures explain five different colours of urine, such as yellow, red, green, black, and white. They can indicate various health conditions. For instance, clear urine may suggest *Vali* disease, yellow may indicate *Azhal* disease, and white could point to *Aiyam* disease. The blending of different colours indicates the combination of the three humours.
- b) Urine colour can vary greatly, with each primary colour having several variants: yellow has six, red has four, green has five, black has four, and white has two. These classic urine colour variants are mentioned in the accompanying Table 1.
- c) Normal urine colour is influenced by water intake and the concentration of urochrome. Changes in urine colour can result from pigments in food, medications, or health issues.
- d) Assessment of urine colour shall be done by comparing against the colour charts provided as in Fig 2, 3, 4, 5, 6, and 7. The provisions of clause 4, Table 1 of IS 5 2007 Reaffirmed 2012 shall apply. (Colours for Ready Mixed Paints and Enamels Sixth Revision.)
- e) *Nirkuri* observations and results must comply with the inferences outlined in Siddha texts regarding observations on colour, odour, froth, weight -density, and volume-frequency as specified in Annex A.



Figure 1

	Table 1: COLOUR VARIANTS - CHART									
YELLOW	RED	GREEN	BLACK	WHITE						
(Figure 2)	(Figure 3)	(Figure 4)	(Figure 5)	(Figure 6)						
Hay soaked rain	Reddish black colour	Dark green colour	Black saffron	Clear white colour						
water	(Karuñcivappu	(Karumpaccai	colour	(Teḷinta veḷḷai						
(Vaikkōl ū <u>r</u> iya ma <u>l</u> ai	Ni <u>r</u> am)	Ni <u>r</u> am)	(Karuṅkuṅkuma pū	Ni <u>r</u> am)						
nīr ni <u>r</u> am)			Ni <u>r</u> am)							
Citrus aurantium L.	Red rose petal colour	Green sky colour	Reddish black	Milk white colour						
fruit colour	(Civappu rōjā pūvita <u>l</u>	(Paccai vā <u>n</u> am	saffron colour	(Pāl ve <u>ļ</u> ļai Ni <u>r</u> am)						
(Turuñcil pa <u>l</u> am	Ni <u>r</u> am)	Ni <u>r</u> am)	(Karun							
Ni <u>r</u> am)			kunkumappū							
			ni <u>r</u> attil cem'mai							
			Ni <u>r</u> am)							
Reddish yellow	Reddishness in black	Turquoise blue	Green shade in							
colour (<i>Cem'mañca</i>]	colour (Karumaiyil	colour	black colour	_						
Ni <u>r</u> am)	cem'mai Ni <u>r</u> am)	(Paccaiyil nīla	(Karuppil pacumai							
		Ni <u>r</u> am)	Ni <u>r</u> am)							
Wild Citrus medica	Pure red colour	Aquamarine colour	Grey colour							
L. colour (Kāṭṭu	(Ta <u>n</u> itta cikappu	(Kaṭal nīlappaccai	(Karuppu ve <u>l</u> lai	_						
nārattai pa <u>l</u> a Ni <u>r</u> am)	Ni <u>r</u> am)	Ni <u>r</u> am)	kalanta i <u>l</u> am pukai							
			Ni <u>r</u> am)							
Fire flame colour		Leaf green colour								
(Neruppu juvālai	-	(Ilai paccai	-	-						
Ni <u>r</u> am)		Ni <u>r</u> am)								
Yellow with saffron										
streaks (Mañcal	_	_	_	_						
ni <u>r</u> attil kuṅkuma pū	_	_	_	_						
kōţukaļ)										

			Janua									
மஞ்சள் நிற சிறுநீர SIX DIVISIONS OF YEL			ன் நான்கு பிரிவுகள் RED COLOUR URINE	பச்சை நிற கிறுநீரி FIVE DIVISIONS OF G			lன் நான்கு பிரிவுகள் BLACK COLOUR URINE	வெள்ளை நிற சிறுநீரின் இறன்டு பிரிவுகள் TWO DIVISIONS OF WHITE COLOUR URINE				
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ugen gade prepri & gen Ottoorniti serico Etterico	Ruffers, foculariene Estate of multicularies	jantigaj Akulu, ĝigu (PLINE RED COLCURI)	Rafficia, Biggis Cendita, Sinto of Monana Herentension	Bomilvier fpå «ES# GREEN COLORI	Augent grado radig tour grado serves state or cesarcadeat or these handrous	agiz cadren saja Bini un gen Ba (SREY COLOUR)	su cert dispo du dom gui gino stato of seroco voche si na biscases	MULKWARE COLOURI	ROME FUGERCULOSIS			
Figu	ire 2	Fig	ure 3	Figu	ire 4	Fig	ure 5	Figure 6				

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5.2.2 Nurai (Froth)

Frothy urine, bubbling, passing urine without froth, multicoloured froth. If five types of *Aiyam* namely *Avalampakam*, *Kilētakam*, *Pōtakam*, *Taṛpakam*, and *Cantikam* becomes degenerated along with *Vali*, copious froth will be formed resulting in frothy urine. Multicoloured bubbles are formed in the urine and number of bubbles shall be counted manually.

5.2.3 *Etai* (Weight and density)

Observations in urine density variations: normal, less dense (lighter), denser (heavier), or semen-like. Weight is measured in grams using a weighing scale, and volume is measured in milliliters with a beaker.

Density, D=M/V expressed in units of grams per milli liter. where D is density (weight), M is mass, and V is volume;

5.2.4 *Eñcal* (Volume and frequency)

 $E\tilde{n}cal$ is the frequency of urine and volume of urine. It is measured 24-hourly starting from the time before sunrise on previous day to the same time before sunrise on test day. The volume and frequency of urine is measured in $N\bar{a}li$, Pati as described in Siddha literatures. Observations include Anuria, oliguria, polyuria depending upon the measurement of volume.

5.2.5 Maņam (Odour)

Observations include odour of burning fire, honey, sweetness, fat, flowers, fruits, tamarind, stag and raw flesh. In most circumstances, the urine of healthy people will not have a strong odour. Urine with a pungent odour may mean that it is more concentrated and signifies an underlying medical condition.

6 EXPRESSION OF RESULT

- a) The findings are to be correlated with the presenting complaints of the patients; and recorded.
- b) Leading questions are to be asked and logical derivations used to interpret the diagnosis; and
- c) The results are analyzed based on the affected *Mukku<u>r</u>ram* and the impacted *capta tātu*, expressed as the subjective signs, and findings as per suitable format (Annex B and C)

7 REPEATABILITY

The accuracy of the repeatability is obtained by at least two consecutive readings of the same urine sample at the same time.

8 DATA COLLECTION PROFORMA REQUIREMENTS

8.1 Basic demographic description of subjects

Fresh data of the patients should be collected either through case record forms (CRF) or questionnaire/case reports. CRF could be generated according to the expected specific outcome of the studies or in general. Information such as demographic details, clinical history relatable to *Nīrkuri* and vital data on current clinical status are to be presented in the data collection proforma. A model CRF for Diagnostic cum Validation studies of *Nīrkuri* is given in Annexure F and G for reference.

9 OTHER CONSIDERATIONS

The *Nīrkuri* test can be used to analyse the state of the *Mukkurram* and *capta tātu*. The analysis can be more productive when the body constitution (*Utal tātu/ Yākkai ilakkaņam*) as per Siddha science is also taken into consideration along with other details. This analysis is to be used as an effective diagnostic tool to improve the accuracy of the disease prediction and its correlation with the appropriate treatment regime.

ANNEX A

Table 1 Indications for Colour Observation as per Siddha Texts

S.No.	NĪRKUŖI OBSERVATIONS	INFERENCE
1.	Hay soaked rain water colour (<i>Vaikkol ūriya malai nīr niram</i>)	State of indigestion (<i>Ceriyā nilai</i>)
2.	<i>Citrus aurantium</i> L. fruit colour (<i>Turuñci pa<u>l</u>am Ni<u>r</u>am)</i>	State of proper digestion (<i>Iyalpāka ceritta nilai</i>)
3.	Reddish yellow colour (<i>Cem'mañcal niram</i>)	State of overheat (Atika veppa nilai)
4.	Wild <i>Citrus medica</i> L. colour (<i>Kāṭṭu nārattai</i> pa <u>l</u> a Ni <u>r</u> am)	State of increasing heat (<i>Atikarikkum veppa nilai</i>)
5.	Fire flame colour (Neruppu juvālai Niram)	State of excess heat (Tīvira veppa nilai)
6.	Yellow with saffron streaks (<i>Mañcal nirattil kunkuma tīțțukal</i>)	State of maximum heat (Uccakațța veppa nilai)
7.	Reddish black colour (Karuñcivappu Niram)	State of hypertension (Ratta kotippu nilai)
8.	Red rose petal Colour (<i>Cikappu rōjā pū ita<u>l</u> Niṟam</i>)	State of moderate hypertension (<i>Atika ratta kotippu</i>)
9.	Reddishness in black colour (Karumaiyil cem'mai Niram)	State of severe hypertension (<i>Tīvira ratta kotippu</i>)
10.	Pure red colour (<i>Ta<u>n</u>itta cikappu Ni<u>r</u>am</i>)	State of maximum hypertension (Uccakațța ratta kotippu)
11.	Dark green colour (Karumpaccai Niram)	State of origin of <i>iyam</i> disease (<i>Aiya nōy tākkam</i>)
12.	Green sky colour (Paccai vānam Niram)	State of chillness due to poisons (<i>Naccu</i> tākkattiņāl kuļircci)
13.	Turquoise blue colour (<i>Paccaiyil nīla Ni<u>r</u>am</i>)	Chill attacks on children and elders (Kulantaikal marrum mutiyōrukku kulirin tākkam)
14.	Aquamarine colour (<i>Kațal nīlappaccai Ni<u>r</u>am)</i>	Derangement of <i>vali azhal</i> and <i>aiyam</i> (Vali azhal Aiyattai Koțukkum nōy nilai)
15.	Leaf green colour (<i>Ilai paccai ni<u>r</u>am</i>)	Severe state of derangement of three humours (<i>Āpattāna mukku<u>r</u>ra keţuti nōy nilai</i>)
16.	Black saffron colour (<i>Karuńkuńkuma pū Niram</i>)	State of jaundice and azhal diseases (<i>Kāmālai ma<u>r</u>rum azhal nōy nilai</i>)
17.	Reddish black saffron colour (Karun kunkumappū nirattil cem'mai Niram)	State impure blood (Kuruti kēţu aţainta nilai)
18.	Green shade in black colour (Karuppil pacumai Niram)	State filthy blood (Kurutiyil kacațukal kāņum nilai)
19.	Grey colour (<i>Karuppu veļļai kalanta iļam</i> pukai Ni <u>r</u> am)	State of serious <i>vali</i> and <i>iya</i> diseases (Aiya Vali mikunta āpattāna nōy nilai)
20.	Clear white colour (<i>Telinta vellai Niram</i>)	Serious <i>iyam</i> disease (<i>Ta<u>n</u>itta āpattā<u>n</u>a Aiya nōy</i>)
21.	Milk white colour (<i>Pāl veļļai Niram</i>)	Diseases affecting bone (<i>Elumpai tākkum nōy</i>)

S.No.	NĪRKURI OBSERVATIONS	INFERENCE
1.	Yellow, Black and Red frothy urine	Jaundice (Kāmālai)
2.	Less froth	Deranged three humours (Mukku <u>rr</u> am)
3.	Frothy and white	Chronic Aiya diseases (Tīvira Aiya nōy)

Table 2 Indications for Froth Observation as per Siddha Texts

Table 3 Indications for DENSITY (WEIGHT) Observation as per Siddha Texts

S.No.	NĪRKURI OBSERVATIONS	INFERENCE
1.	Light and crystal clear	Aiya disease

Table 4 Indications for Urine Odour Observation as per Siddha Texts

S.No.	NĪRKURI OBSERVATIONS	INFERENCE
1.	Very bad odour	Ulcers in bladder and urethra
2.	Tamarind odour	Heat ailments
3.	Sugar boiling odour	Excess of blood cells like malignant diseases
4.	Black stag urine odour	Disorder of Azhal Ku <u>r</u> ram
5.	Raw flesh odour	Degeneration of body muscle or muscle wasting
6.	Odour of Ghee, cow urine, pus, and myosin muscle serum	Vali humour diseases
7.	Odour like elephant fat, aloe juice, Fuller's earth ($P\bar{u}n\bar{i}ru$), sweet melting consistency, and rabbit blood	Azhal humour diseases
8.	Odour like clear breast milk, tender coconut, lustre brightness, semen, sea water, rice washed water and foul- smelling water	Aiya humour diseases

Table 5 Indications for Volume and Frequency Observation as per Siddha Texts

S.No.	NĪRKURI OBSERVATIONS	INFERENCE
1.	Less or scanty urination	Anaemia
2.	Urination more than normal	Piramēkam, Matumēkam, Veku mūttiram and Veļļai nōy

EXPLANATORY NOTE:

Odour and froth though very important, cannot be determined in absolute units. Since both the measures lack mathematical expression nevertheless a qualitative test is prescribed. In case of doubt, as to evaluate the intensity or charachter of odour and froth, a majority opinion of several observers shall be recorded. IS 3025 (Part 5) – 2018 shall be referred to, for more information on odours.

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ANNEXURE B

SAMPLE CASE RECORD FORM

Mūttiram (Urine)

- First sample
- o Random sample

Nīrku<u>r</u>i (Plain Urine examination)

Time of Urine sample collection Time of Urine Testing Duration of observation

Ni<u>r</u>am (Colour)

YELLOW

- o Hay soaked rain water colour
- o Citrus aurantium L. fruit colour
- o Reddish yellow colour
- Wild Citrus medica L.
- Fire flame colour
- Yellow with saffron colour

RED

- Reddish black colour
- Red rose petal colour
- Reddishness in black colour
- Pure red colour

GREEN

- Dark green colour
- o Green sky colour
- Turquoise blue colour
- Aquamarine colour
- Leaf green colour

BLACK

- Black saffron colour
- Reddish black saffron colour
- Green shade in black colour
- Gray colour

WHITE

- Clear white colour
- Milk white colour

Ețai & Nirai (Weight and density)

- Urine to be passed with density
- o Light weight
- o Over density
- Urine to pass like semen

Maņam (Odour)

• Odour of burning fire

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- Odour of honey
- Odour of sweetness
- Odour of fat
- Odour of flowers
- Odour of fruits
- Odour of tamarind
- Odour of stag
- o Odour of raw flesh

Nurai (Froth)

- o Frothy urine
- Bubbling
- Passing urine without froth
- The froth to be in multi colours

Eñcal (Volume - Frequency) *Ti<u>n</u>a alavu* (Daily volume-1200 ml)

- \circ Scanty
- Excess

Ulleedu-velieedu alavu (I-O Chart)

Murai/Thadavai (Frequency- 6 times/day)

:____

Voiding frequency

- \circ Increased
- \circ Diminished

Miscellaneous

Kalappu (Mingling)

- Mingling of blood with urine
- Urine passing like pure water
- Passing like flesh washed water
- Mingling of white discharge like thread
- Blood before and after urination
- o Dysuria
- Burning micturition
- Passing like slaked lime water
- Urine passing like buttermilk, curd, milk or ghee
- \circ Urine with pus
- Urine passing with stones
- Urine passing with flesh or scales
- o Others

Pațivu (Deposits)

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ANNEXURE C

DATA PROFORMA

UHID			Na	me	of tl	ie pa	tient	t Occupatio			ation	Age	Sex	D	liet			Nilam	(Tick	Approp	oriately)	
														Veg	N.V	Kurt	iñci	Mullai	Mar	utam	Neytc	ıl	Pālai
Date		lāți lam			N	āți n	ațai ((Pulse Reading) Please Tick							Yākkai ilakkaņam (Body Constitution) Please Tic							e Tic	ĸ
	V	P K	v	Р	K	V P	V K	PV	РК	KV	KP	M	K	V	Р	K	V	P VK	PV	РК	K V	K P	МК
Time of Collection	General observation							(Ti	po <u>l</u> utu ck riately)		Kak		Ku	ık	Mpk		Р	pk	Ivk		Mvk		
	Col	our (1	Vi <u>r</u> an	n)				Observation															
	Wei	ight a	nd D	ensi	ity (I	Ețai)																	
Time of	Odo	our (N	1aṇa	m)																			
testing	Fro	th (Ni	urai)					Interpretation															
		ume a cal)	and F	Freq	uenc	су																	
	Mir	gling	g (Ka	lapp	ou)																		
Duration of Observation	Dep	osits	(Paț	ivu)																			

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Clinical Finding	gs and Pre	esent	ting	con	npla	ints	1		Obse	rvation	s fron	ı <i>Nīrk</i>	u <u>r</u> i tes	st									
1										1													
2									2														
3										3													
4									4														
5										5													
Comorbidities	DM/HTN	I/HTN/CKD/Thyroid/Heart disease/Others (Specify):																					
Examination o <i>tātukkaļ</i> (7 pr		Cennīr				Ū <u>n</u>		K	Ko <u>l</u> uppu E <u>n</u> p			E <u>n</u> pu	u Mūļai				Cukkilam/Curōṇ itam						
constituer	nts)	S	II	D	S	Ι	D	S	Ι	D	S	Ι	D	S	Ι	D	S	Ι	D	S	Ι	D	
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November	2023
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	November 2025						
	a. True Positive symptoms (TP) – Clinical presentations coinciding with Nīrkuri Test	[]					
	b. Sequence of True Positive symptoms (SqTP) – Clinical presentations coinciding with multiple <i>Nīrkuri</i> test readings showing a sequence of origin and progress	[]					
Category of Reading	c. False-positive symptoms (FP) – Subjects not presenting, expressing, or having the symptoms even though the features are shown in the particular reading						
	d. False-negative symptoms (FN) – Subject is presenting the symptom or disease that has no description in the obtained results	[]					
	e. Investigations: Serological/Urine samples/others (Specify)	[]					
Attachments	f. Imaging: X-ray/Scan/others (Specify)	[]					
(If available)	g. Previous case/Medical record (Copy)	[]					
	h. Photographs/Images of Other Envakai tērvu and its reports	[]					

UHID: Unique Health Identification Number, V: Vātam, P: Pittam, K: Kapam, VP: Vātapittam, VK: Vātakapam, PV: Pittavātam, PK: Pittakapam, KV: Kabhavatham, KP: Kapapittam, MK: Mukkurram, Kak: Kārkālam, Kuk: Kūtirkālam, Mpk: Munpanikkālam, Ppk: Pinpanikkālam, Ivk: Iļavēnirkālam, Mvk: Mutuvēnirkālam, S: Sufficient, I: Increased, D: Decreased

NOTES

- 1. *Nīrkuri* test results should not be interpreted alone; it must be correlated with clinical information and be interpreted by Registered Siddha Medical Practitioners to arrive at Clinical diagnosis.
- 2. *Nīrkuri* test results may vary based on time, season, physiological condition of the patient, current medication, or nutritional and dietary changes. A Registered Siddha physician shall be consulted for further clarification.
- 3. Nīrkuri test results cannot be used for Medico-legal purposes.