

'Byjenath's Account', 'Shumsh & Nukra', 'Receipt Book. 1842': alchemical and chemical receipts, mostly translated from Hindi.

Publication/Creation

1842

Persistent URL

<https://wellcomecollection.org/works/yazhv76f>

License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>

MS No 846

Byjennath's receipt

40 326

Shimish & Nukra

Receipt Book.

1842.

Shimish & Nukra
Byjennath's receipt

1

08



MS. 3596

ACCESSION NUMBER

40326

PRESS MARK

A Kseer for Chaula of Parah -

N.B. this is a kind of seed & is had at the Pundarices?

Baloochikna, Dalehikna, Phitharee, Sunka,
Parah, Hustal, Gunduk, equal weights pound
in Zurd ^{Shool Ka} Mossak Koronee juice, for one pint
daily for 21 days successively & then burn in 2 seers of
and this on Parah in a crucible chaula hogaga.

Kaim Parah.

Kseer Parah, & 5 seers of the juice of the ^{back of the} root of
the Mangoe tree, extract the juice in a Sugar cane
mill, cook in a muttee handee with the mouth closed
on a chula using no more heat than the flame of a
candle & burn it very very gently so that it may dry
up in 8 puthurs if it does not grow thick with this
add more juice & go on cooking till it does, make a
cup with this or anything else you please.

*N.B. after the 5 seers am Ra for Ra arak is expended
use 1 seer of Mororee i.e. teh puthree juice which
pour over it & boil as before when it will become
thick & Kaim - -*

Kaim Parah.

There is a plant called Ajuba that grows in gardens
& wild also that resembles the air plant in
thickness of leaf & grows to about 1 1/4 hath high
the leaf is not so large it is very juicy rub
Parah with the juice on your hand it will become
grains rowwah rowwah. place this with more

juice on the fire Kaim hoga.

abrac to be dissolved.

Take Reh Ka Phool & abrac pounded wash
the abrac in the water ~~of~~ in which Reh
is dissolved it will become dissolved itself.

Kaim Parch.

^{Burroo the leaves taken the men the Surohat}
Take Burroo it is found in the Terace place

^{after burning it in Burroo take the white}
mix silver & Parch equal w^t & pound in the

juice of Burroo 5 juce w^t it becomes fixed on

the fire, it is rather larger than Mendee leaves

^{known this & a Viskup of Jm. of silver.}
Kocnooddeen. his father is Roznamchek

^{in Mr. Connell's Court.}
Kocnooddeen's Son.

Kaim Parch.

Take Kanta Dar Chavlae juice & chowwa &
this on Parch 3 days or mix with silver & chowwa &

for silver.

3 maashas Sunka, 3 maashas Parch, 3 maashas

English Soap i.e. Windsor soap, 10 tolas tolu puttee

^{the Sunka & Parch}
juice, first pound in the Chputtee juice & then add

the Soap with 2 maashas Nowadur pound well dry

& burn in a tota. w^t Silver Sunka put place Kaimputtee

Kiron wire & burn in 3 sees dila -

Quench the Sūgrāsikh
in ¹⁵ times
with ⁵ blacken-
no fire.

To color blue

Round ^{in boy's pipp} Sūgrāsikh
Burn in ¹ how opla 7 times
mix with ¹ hotad filings in gheegowar
juice & burn 7 times in ¹ how opla

Take 2 tolas filings of ¹ hotad heat & quench
11 times in Phulleedar Thovour Ka doodh
which must be first prepared by heating on
the fire when melted throw in a pinch of salt
take the milk & strain & quench in this; then

take 2 tolas ^{honeyed} Zurd Zunka & 2 tolas ^{honeyed} Sohaga
^(without salt)
Soak in vinegar 3 days, take it out &
pound it for 2 bulas in Nowasadur dissolved
in water & 2 bulas in boys urine, then

take 2 tolas Sūgrāsikh & ¹ pound in the red juice
that drops from the gheegowar for 2 gharees then
burn in ¹ how opla again pound in gheegowar
juice & burn repeat this 3 times, then take
a strong Kharea kuttie crucible, enclose this
medicine after drying it in the kharea fasten
another over it & melt, the heat must be
continued 3 times as long as is necessary to
melt gold the weight of the powder alone

to improve this give it 40 burnings in gheegowar juice & then
Remains melt silver & use 1 Chavul of this
to 1 tola: Sona hoga, ^{worth about 1400 Rs. the tola} this will be daghee to soften it use
Ghora Ka Summ, Remove the slag use a pinch of
the following medicines viz: remember that to remove the
slag of Sūgrāsikh use boys pipp, Nowasadur

3 tolas gheegowar
juice & 2 tolas
Sohaga

*Total paid due
to Charles River Group has in Bull's Reef. -
Total report
of 1000 lbs. in bags & total, Sunkha Zard Itola; - Foster.
Tegok with digger power.*

$\frac{1}{2}$

Total purchased
~~10~~ 9 shares never gave
Total paid for
at \$100 per share
was \$900
I have 80 days to pay
\$100 per share in the new

[illegible]

& is light. -
 Panchāṅga } Chat, Nishant.
 or Roopā } Saundaryā Sigh, to/lotā
 grows in the jungle has white flower which is sweet taster.
 Goolābān } Sheegwar juice chowwādo
 Ka arak } on the fruit. Panch. & lona hand
 together & barn &c.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

Na Khingumee Ka tel 3 tolas, Deera Koles
that colors water red 2 tolas, Mundul Konee
1 tola, Khingraf 6 maashas, Copper extracted
from Poota 1 maasha, pound together &
make Balls the size of Churna & use one to
to a tola of light colored or gold that is got from
the ore that is light colored. -

God, for a

Trista 2maashas, Hurstall 4maashas

Shonjaaf k maachas. bundul 3^{ma}

Phellodendron, Baum ⁴/₅ Farnasches silber

in this after burning it first in Bisfair

which is got at the ~~Pearl~~ ^{Prinsagee} ~~agee~~ ^{ottais}
my 3 maas has of this silver with 9 maas has ^{and}. it is worth about
Kwini 1/2 is 1500

Kavin Koria

ag Puthch, Imlee Ka Puthch, Seesum Ka
Puthch, Bère Ka Puthch the large be tree
if I know ~~such~~ ^{Shora} then use ² a see frach
of these things.

A good fra of gold with copper

Kurtal Subkhee $\frac{1}{2}$ pow, the juice of the
root of the Goolabans $\frac{1}{2}$ pow, Nuckcheeknee
Ka arak $\frac{1}{2}$ pow; mix the two juices &
pound the Kurtal in this well till the juices
are dried up & make it into Balls the size
of the Janglee Bere fruit; Dry the Balls well &
place them in an atishee theeshee bee which has been
placed a good Kuprontee in a sand bath
so that $\frac{1}{2}$ the theeshee is out of the sand, place
on a chula & burn Beree wood under it for
12 hours take care that the heat is equable
after cooling break the theeshee & take out the Jashin
of the Kurtal; make 2 Kutoras of just weighing
each 10 Takhas Pukha (i.e. 30 tolas each,) so formed
as to join & make a Sumpunt; Take Heera
Koseer 6 maashas, the yokes of two eggs,
& the juice of one leaf of Gheegowar pound these
3 things well together & plaster it on the
insides of the just Sumpunt, in this place the
Jashin of the Kurtal close the Sumpunt & fasten

the edges with ^{some more of} the above mixture of Kera
Kosees, yokes of eggs & ghee war juice; prepare
a large Brick say $1\frac{1}{2}$ feet square hollow the
center for the Kutra to go into, place the Kutra on
it & heat with Beece wood on a chutā for
12 pulnas & keep sprinkling Apes urine on the
top; take Sump out of the fire & take out
the ^{sheet} ~~Iron~~ it will have become white like Silver;
Heat Copper 12 times red hot & quench 12 times in
Chirichēkā Kāārām, melt 1 tola of this & throw
2 ro Bees of the Iron ~~it~~ mixed with wax
on it, it will color it yellow mix this with equal
weight of gold.

Kaim Parch.

Chōmwa dō $1\frac{1}{2}$ Seers of ^{or more} Zard Chūmēlā
leaf juice on 1 tola Parch Kaim hoga;
Chōmwa dō $1\frac{1}{2}$ Seers or more of the juice
of the Jēmal ghōtā leaf on 1 tola Parch Kaim hoga.

Shkeer. remember this Nuskeh.

Parch 9 tolas, Gunduk 2 tolas, Sohaga Nela 2 tolas,
Shora Kulmee 2 tolas, Nowadur 6 maashas, Kosees
= 2 tolas, Phitharee 2 tolas, red Sunka 6 maashas,
Smlee leaves $2\frac{1}{2}$ seers. — take a mūtka over

which place Gilhikant first place the
Rach at the bottom of the mitta over this
place the Gundak ^{pounded}, over this place
the Bhaga, over this the Nowadur ^{pounded},
then the Kees, alum, & Shora ^{pounded together} &
over the whole the $2\frac{1}{2}$ seers of Bule leaves of
the Gandee & place on a Chula burn ^{Kupās i.e. cotton} ^{stick}
under it for 12 purnas allowing near to use more
than 2 sticks at a time in the parch will Evaporate
after the 12 purnas open the handee weigh
the parch & if it has lost anything add more
Rach to make the weight equal again &
again take fresh medicines & cook as before
repeat this 6 times with fresh medicines each
time Kaim Rach hoga; if you wish for ^{light}
instead of 6 times go on for 12 times Khārista
Kamil hoga - use a copper. —

Prep for Chanduka Jra.

Take 1 lbw prep & 1 lbw gundaberoza, & $\frac{1}{2}$ lbw
Nowadur, quench in Zohara juice repeat this using
a pinch of the Nowadur & some of the Beroza each time
use for Chanduka Jra; for oja use Nimbu & anchoor. —

Shingraf.

Take 2 seers of wheat & 3 piec ^{Li. c. m. n. e. p.} Pakkha Shingraf Enclode
it in the wheat which place in a Tat bag & burn in a Krandee
with the Bhoojee red hot sand when it is all thoroughly burnt, place
one piec w^t of this Shingraf in a hen's egg & pierce it place
of Improwtee of distance ^{whole} in a hole 2 feet deep & 1 foot
in diameter, cook the Shingraf thus in separate eggs, repeat
this 3 times retaining both the white & yolk in the egg. —
use this on copper after shingraf.

hunka. for pure silver.

Take 1 tola hunka, 1 tola Kurr, 1 tola Bokera
1 tola Onta, Balchor 1 tola, amba buldee
1 tola; burn this hunka in these things
7 times ~~th~~ it will using Bhootul such
that it will not burn the hunka; each time
use fresh mupalehs; the Rhak is refined &
renders copper pure silver use 1 Rohee to 1 tola.

To purify copper.

Quench copper 21 times in Ash Boota it is
very common.

Kaim Rarch.

Take Burra Binoowah it is small has leaves
like merich leaves; hound Rarch for 2 gharees in the

juice, heat in the fire in a Ghara it becomes Kaim
if you want Kaim melt it with Shaga Bait Jacga.

Sora of Gold.

Zud Surkea 1 maasha, Hurta 3 maasha,
Shingra 3 maashas, Joota 1 maasha,
Sungasukha 1 maasha, Shun hakhee 2 maasha,
Parch 3 maasha, Gundak 2 maasha,
Munsul 3 maashas, use for 3 maashas change
place these mixed together on ahar
ⁱⁿ a Ghara, close it & burn in 2 seers of
then remelt with Shaga & throw it
Now when it melts some 5 or 6 times when the weight of the
Kishna becomes 3 maashas again mix 3 maashas
Sona in 21 meltings or more it becomes a good Sora.

Just.

Chomra do a French melted just in Buton juice
revive the Khat use this copper to remove the dach.

Tey ab ba lech - i.e. made of 8 tey ab.

Take sulphurous acid; i.e. gunda k Ka arak 2 tolas
& 2 tolas each of the following things: Now'sa dur, Sohaga²
= Phitkaree³, Shora, gunduk, Sujee³,

Nimuk Sambur, Nimuk Kharee², Nimuk Kuchlone³
i.e. Kench ka nimuk.

if you require the tey ab for Pareh Ka chandee
only. in the first tey ab & omit the
use Sohaga instead of the Phitkaree & altogether
& instead of the always place Now'sa dur Ka Beej or the Now'sa dur flowers!
You can either draw the tey abs & separately
using for each the medicines as numbered 1, 2, 3;
& then draw the whole adding the sulphurous
acid to the other three: place Pareh in a sheet
with the tey ab of the whole drawn together if it is
properly made the Pareh will swell up & become
Khakh take this Khakh & pound it with
Honsraj ^{& some other medicines} (that is found in old wells) juice say a chat
or more juice then strain it through a cloth, place the
musk in an iron cup & heat it chandee kaga.

Jora chandee

Now'sa dur, Sohaga, Pinkea, a tola of each, &
a chatank of Pareh, Pound in Grooman juice
1 1/2 pow, when dry, burn in a Sump with one
half iron the other half copper, burn in 2 1/2 day
Phla, take out the lump like silver mix unequal

weight of fat in it I have 3 Sumpants of silver
made being thin large enough to hold this Kurr over
the bumpant place a $\frac{1}{2}$ lb of the above medicines with
Kuprowtee & burn in 22 Sams of pla do this 3 times use
1 Rottu to 1 tola copper. -

to Purify Singradukh.

Smear Singradukh in boy's urine & Mridat
till the dāgh is removed, then take musul, ^{gandukh}
Rach, Shingraf, Singradukh.

Kaim Sen Kurr Kurr.

Shingraf 2 tolas, an empty Egg shell, iron
filings sufficient to cover the Shingraf
above & beneath in the Egg shell, fasten the
egg shell up with another shell over this plaster
3 tolas Shaga pounded in vinegar mookkhar,
over this 2 Kuprowtees place on the ground with one end
up & sink it a little over this burn 1 hour of pla then 1 hour
of pla & so on by 1 hour at a time till you reach a day
then take it up & turn it together & repeat the
operation of burning by 1 hour at a time till you

reach a Beer, then take it up & burn in one Beer
of the placing the pla above & beneath
take in the Shingraf (if you melt it after pounding
with maul byat you will obtain 3 maasha place
take 2 totas ^{make a cube} chandec, & melt the ^{2 totas} Shingraf ^{place}
use this Kūn. — for ink must use 1 piece Samundur with it
Phen & 2 piece of the loo Bee of the ^{Samundur} ^{with it}
& beneath the Samundur Phen.

Bar for gold.

French filings of Potad 11 times or more
in Thowwar ka Doodh, poured them &
use on light colored gold.

Romce Shingraf. A Wise r. -
i.e. the Commons

Roonce Shingee is the Common Vasee.
Roonce Shingee 16 maashas, fourwa Rhan.
^{ten} 10⁸ maashas, the fresh blood of a fresh
caught hare, poured & awake a Kuss &
place this ^{in a} ~~in a~~ ^{Shak tree hollowed} ~~within 12 girrabs or less than a yard~~
cut down to ~~one yard & a quarter from~~
the ground, fill up the hollow with the
clips & ~~ram it down in the clay & cover~~
~~mixed when well stopped surround the whole~~
~~with wood & burn, when cool take out the hollow~~
+ the Kuss which will remain in shape as before use / charcoal
Te / Tola Cokhu Sma hoga -

To make a gold Sumpust.

1 tota Shingraf, 3 maashas ~~Shital~~ ^{Sujje}, 3 maashas ^{Sujje}
= golakee, 3 ~~maashas~~ ^{maashas} Shora, 3 maashas red Phuttharee
1 maasha ~~Sorradar~~ ^{Schoonr Ka Dand}
^{make a ball of them}
pound for 1 pulut; Take 1 piece Shora, 1 piece
red Phuttharee, 1 piece Sujje, 3 maashas ~~Sorradar~~
1 tota Shaga, 1 tota Jowon Khar, pound these
well together fine; make a copper Sumpust ^{last}
weight copper of a good size place it the medicines
beneath & half above the ball; fasten it with
3 Kuprootes & then string iron wire
about 10 yards of wire ~~the~~ place 3 Kuprootes
over it again & burn in 5 seers of pla. ^{wire}
the Sumpust will become gold or fit for a gold

Take Pil Shulle Sunka aksee
Take Pil rods some 20 seeds ^{or more} & burn them
take 2 seers of the rakh & 1/2 totas Sunka
heat for wheelers use in Daceh & copper

leaves of To purify copper.
2 totas ^{leaves of} copper, make leaves, 4 piece
of Nimmk Shora that is given to sheep
burn in this three times in 5 seers of pla use manulhyat & wine

Shingraf
Take 2 seer of chejwair leaves, 1 tota
Shingraf, heat in a handee till dry

repeat this 6 times Take Shuntora Ka Phullee
& in this place a little ag ka doodh & the Shingraf
place 3 Kuprawtes see this & burn it in $\frac{1}{2}$ seer
of the Ghosul of opla repeat this 7 times in 70 Phullee
Use on khwer

Shingraf

2 rice groman & rice Bhelawan pound
together place itota Shingraf place in an abkhoria
burn in $1\frac{1}{2}$ pors after 25 times it cold silver
take 3 maaschas of this Shingraf ^{3 maaschas} Philkace, ^{3 m.} Shina, ^{3 m.} Jaga
1 maascha & weader burn in $\frac{1}{2}$ seer of 2 Kupers
pound in ag ka doodh & burn in $\frac{1}{2}$ seer of 2 Kupers

Aksee.

6 maaschas Shingraf; $\frac{1}{2}$ pors ^{fresh red} merich komidit phie
place the Shingraf in this, take 1 pors Chooka ^{pound}
place all in this Chooka place 3 Kuprawtes
it & once it time more and burn in $2\frac{1}{2}$ seers opla
then take Gootahaus Ka for $1\frac{1}{2}$ pors & hollow
this place the Shingraf in this & place 3
Kuprawtes once & burn in 2 $\frac{1}{2}$ seers opla
it will become white. use on siher.

plant called garreel for burning opp — white Khakh.

Sksee of Just & Parch
for white copper

Take Just 2 tolas, Parch 2 tolas mix, & burn
in 4 pie Phitharee place the Kuro in the
middle & heat in a Kulea on a fire when
the alum is melted & dried up, strike it off
the fire replace the ~~the~~ burnt alum with
fresh alum the same quantity repeat this some
40 times when weigh the Kuro & add, whatever
it has lost in weight of Parch, of fresh Parch &
again burn 50 times, again weigh & again
add Parch ~~it~~ as much as it has lost in weight
again burn 50 times, use this as Copper.

Just for Gold.

2 pie Just & pie copper beaten thin
melt & throw on 1 chat. Shora & 1 chat.
Nimbu Samhar & melt & remelt till
the Shomata Ceases ^{it becomes yellow} mix with gold

Shingraf for pia

1 tola ~~of~~ Shingraf, 1 tola, Phitharee, 1 tola
Shora, 1 tola Shaga, pound together &

place the Shungra in the middle burn in
1 row Spha, take it out & repeat this 3 times
& use about a maasha to Kola silver.
or use this Shungra mixed with other medicines
mix 3 or 4 parts Sona -

a very good White Chandee Ka Jora.

^{wood pounded}
2 Tolas Bisfāji, 1 chat: of Salt extracted
from Lotun Sujjee, 1/4 seer good vinegar
(i.e. apak nāna) 4 tolas Brap leaf, i.e. jugjugga
boil the jugjugga in the above things very gently
so that the vinegar shall dry up in 5 hours
take out the Brap leaf ^{wash it clean}
mix an equal weight of Silver ^{much 11 times in Kola ya juice} with it, it will
become white; & the jugjugga will lose ^{in weight}
from 8 to 15 maashas.

^{Sona Ka Jora}
Toteu ^{2 maashas} Shingraf, ^{mundul} Hurtab, Chandee
1 maasha Saeh, ^{3 maashas gold leaf} 4 maashas
^{mix} 4 maashas Sona with this & use this Ban
1 tola Pholed filings 2 tolas rang, mix with 1 tola Sunkea & melt add 2 tolas Ph
Chandee Ka Jora ^{repeat this 11 times & use 11 times}

Just, Sunkea, Parch Hurtab, Rokopoot
hound & porhuns in pol neem juice & enoldin
in a chandee sumpit & burn -

To burn Silice -
in netune -

The small red doodhee, the large white doodhee
& gūdhāsūth or ^{Bidhōpra with some leaves & reddish beneath} place a piece of each
above & beneath a Rupee in a Bund pharea
place this in 7 seas of water & will swell
up & become white Khath.

Easy for of Chandee -

mix & melt equal weights Chandee &
Jaggigga (is. Shin Brap Kaf) & throw
on rāl pound till it becomes pure
saffid kojäega.

To soften a hard or brittle metal -

Extract the oil of horse hoof shavings in
this pound Roskopoor make ^{balls} the size
of grains of Chūnnā, which ^{one by one} throw ^{on} metal
that is hard to soften it.

To sublime copper

Norsadur 2 tolas, ^{two} ~~1~~ tolas Parach, & 1 tola
Copper in fine filings Pound day till intimately
mixed, sublime in an earthen vessel with

glazing on it, if it does not subline at once
take more Parah & Mwsader Vaja in
subline, wash the sublimate, heat the
what remains the Parah evaporates & the copper remains

Kaim Parah,
Koolhoollee $3\frac{1}{4}$ seer, Shutoora Black price
1 psw, 4 tolas Parah, pound till dry take out
the Parah it is Kaim. —

Shingraf.

White onion juice $1\frac{1}{2}$ seer, adhajhara
Ra Rhath $2\frac{1}{2}$ psw, Choon a of Shells
 $1\frac{1}{2}$ psw

Shingraf

$1\frac{1}{2}$ tolas of the shavings of the head i.e. the dirt
collected ^{first} after the shaving, a yoke of an egg
mixed up with it - enclose a tola of
Shingraf in this place in an egg shell
& burn in $\frac{1}{2}$ psw of oil or enough to burn the
things inside & not the Shingraf repeat this
4 times & use on silver. —

To color silver
1 tola Pholad filings, 2 tola Sumpasukh, 1 tola
Sunka, 1 tola Sihaga, throw all except
the Sumpasukh, into good Angurree bishee let it
soak 5 days; ^{then} pound the Sumpasukh & mix in the setting
& melt in a closed ghara; use 1 maasha ~~told silver~~

To purify Sumpasukh.
Heat it red hot in a ghara & quench or throw it into the
ash or it repeat this quenching 21 times the blackness
will be removed Use it as a Ban - or rather use 2 maashas
of the copper to mix with one tola chandee which make into dust &
= from as Kishna without loss remelt this till the weight of the silver alone
remains when mix with 4 parts pure gold. —

Parch -
Chowva do Mülétée, Ramputree -


Butter of arsenic
Equal weights of yellow arsenic & corrosive
Sublimate (i.e. muriate of mercury) sublime
& distill a blackish corrosive liquor from
the sublimate. —

aqua Regia to dissolve gold.

1 part of Muriatic acid & 2 parts Nitric acid

May

1st time
let it
tump
blow
like
mep
ashes
rest =
then alone
osm
line
some
they
id



—

the corn fields or the goats eat it; Take 6 tolas
Footea pounded fine & 2 tolas Hural Cat Khee in two
lumps of a tola each place $\frac{1}{2}$ the Footea first
then 1 tola Hural then the muskeh then 1 tola
Hural then the other half of the Footea place
5 Kuprootes of Koraltañe muckee & burn in
a mound of spha so that it shall
remain hot for 3 days; The result will be a black
shining brittle mass of which use 2 rotees to 1 tola silver
it will become light colored gold worth 14 Rees the Tola.

Sunka for Chanda Ka Jra.

Soak 1 tola Sunka for 40 days in Ag Ra loadh
taking care to change the loadh weekly; then take
3 maashas Nowatur & pound it in Ag Ra loadh
& plaster it on the Sunka & take $\frac{3}{4}$ seer of Reh
muckee extract sufficient juice from Ag leaves to moisten
the Reh with & make 2 Tikkeas 8 fingers in breadth
ⁱⁿ in diameter place the Sunka between these
Tikkeas in a muckee handee, close the handee
& heat for 4 phurs as you w. Ketchree then
take it off & use 2 rotees to 1 tola copper & mix with
2 tolas chandee; dissolve 8 hora & Sambar salt
in water so as to be thickish in this quench the
lump 7 times after heating it red hot.

Sonā Kā Jora

Take a Amudashātee piece & put melted in one
 in vessel & Stukcheknee juice placed in another
 heat the piece red hot & sink it in the melted just
 then again heat it red hot & quench it in the Stukcheknee
 juice & in this manner heat & quench 100 times in the
 just & 100 times in the Stukcheknee juice; then
 use 1 rokee fitted in a silver leaf on a tola melted
 silver & mix with 2 tolas Sonā tolas Sonā.

Jora Chandee

Take a Kuteha ^{large} Wantein hollow it & place in it
^{1 1/2 tola}
Sunka as much as will come into it in
 lumps into one Phulle at a time place
 3 Kuprostes over it & place it in Bhoobul when
 you perceive the smell take it out & weigh
 this in 21 Kētās, then take Parch 1 1/2 tolas,
Nowadur 6 maashas, Sohaga Ka Rheel 6 maashas,
Burtal 3 maashas, Jemālghōta 1 1/2 tola,
Rokopoor 6 maashas, & the above prepared
Sunka 1 1/2 tola, pound 4 buluos in lime juice
 make small balls dry them enclose in a cloth
Sumpūt weighing 12 tolas place this in a thick fold
 of smuttee made on the Potters wheel so as to be covered
 well on all sides when dry place 3 Kuprostes over
 if & burn in 4 deus after the smoke has gone out
 use on efflu.

Just.

2 1/2 pow pounded China fang broken bepel
2 chat Just & 1 chat: Nowadur place in the
pounded China then in the Nowadur then then
the Just, then the Nowadur & then the Cheene
sake & burn in a closed Kullea in 3 seers of
repeat this with fresh Nowadur each time for
7 times or oftner, pound 6 maashas ^{dry it} ~~break~~ &
6 maashas ^{in the white of an egg} ~~break~~ &
each tota Just ^{melt} ~~plaster it on~~ the Just ~~dry it~~ &
throw on the above when it will be fit for use.
on copper. for Jora Aman atie Khan's tried Kustek.

Iron filings ~~trashed for 1 tola~~ ^{for 4 or 5 days} Kosees ^{tole} ~~gurd~~ Kapanee
pound the filings in this water till it begins to
fly in by a heath wind, place this after this
pound with dry Nowadur 3 tolas for 6 ^{pebbles}
place this in an iron cup on the fire & heat it
red hot, take it off ^{when it has cooled itself} scrape off the medicine
& pound it very fine, take 1 1/2 maasha
of this powder & 4 1/2 lead & melt them
together, ^{without Shaga} this will take about 12 melting do
this if possible in one crucible when they are mixed
mix this with an equal weight of silver repeat
the melting till the stars caused by the lead disappear
it will become silver.

a fine musket. Drugs of Rarch - a tried one of amanalce ^{Whit}
Take 1 tola Kaim un nar Rarch & 2 tolas
Roomie Mustagee; the Rarch must be
Kaim i.e. fixed & either thin or a musket &
not hard. Burn in 2 plas. —

— Iron of Gold —

^{1 tola} Shingraf, ^{1 tola} gundukomla Sar, ^{1 tola} Kartal,
^{1 tola} Rarch, equal weights pound in Gurd Kool holder
juice, it is found in a village called Lulour
in Perquimah Beesulpoor, pound in 8 tolas juice
till it dries up. — make silver into leaves weigh
an equal weight of medicine use with ghee & wax
with 3 masahas of this in a tola of gold. — juice.

Ban:

Take copper extracted from Footen 1 tola & 1 tola
pure gold melt & mix & make it into leaves
& burn in a Pukwara extract the copper till
it becomes the weight of the gold, mix copper
& extract it 3 times & then use 1 masaha to
1 tola of Sona Ka Jora. —

Iron of Gold —

^{Equal weights} ^{1 tola} ^{2 tolas}
Round, ^{1 tola} gunduk, ^{1 tola} Rarch, 9 days, cut hair very fine
place half beneath & half above the gunduk Rarch place

this an ^{with 3 Kupinolas} atishee Sheeshee in an oven with bread
~~that is baked~~
~~when the latter is baked take out the Sheeshee~~
Keep the Sheeshee in for 4 hours; use this
medicine i.e. the weighty part of it with equal
weight of silver leaf if the color of the medicine
is reddish use 4 maashas of silver to the tola of
gold, if it is black use 3 maashas to the tola.

Muskeh of Sheeh for Silver.

5 tolas filings of pure silver, place a da
Shingraf wind thread over the Shingraf
place this in the middle of the filings in a
closed eggshell, hollow the ground place
this in the ground covered by a finger of earth
over it & burn in a sea shell over it repeat
this 7 times, use this Shingraf for Muskeh.
& for the wishnut use Hor, Bokeria, onla,
Shungya - pounded fine twice the weight of
the muskeh;

Snaf Gold equal weights
of Surrajoodeen.

Silver beaten thin 1 tola, on this plaster the following things powdered fine in water & heat on the fire after each heating take leaf of the fire & remove the burnt part, again plaster on heat & remove the burnt part repeat this till the whole silver is burnt, this will be generally done in 3 times. The following medicines are sufficient for 1 tola silver - viz, Surtal, gumdakh, Shingraf, Panch, Mansul, Heera Kosees, one massha each, Singrasukh 3 rottees, Toota 4 rottees, melt the burnt silver with Shaga & mix an equal weight of gold to the Kishna silver remelt & use Nowadur. It is worth from 16 to 17 Rupees the Tola.

vojol. for Gold.

Place a small gold ornament ^{stola in weight} in a crucible ^{closed} with 2 tolas géroo, 1 tola Kala & imukh & 6 maasas Shithane ^{& an it-four lime juice} pounded, placed above & beneath & burn in a sea of oil.

For gold.

Chowra do a sea of Kuteya juice mixed with $\frac{3}{4}$ a sea of Mukoh juice & a tola of gunduck plaster this last on silver when reduced to khat by heating pound it & mix an equal wt. of Sangrasikha pound together & revise with mawal byat mix this with 2 parts gold & use the above vojol -

For Silver.

Quench just in the juice of ag leaves till the grain is made fine, make 2 pie of this equal in wt. ^{each} to a Mudusheke pie, take a pie of this kind place up & smother parch it & on the 2 pie of just place the copper gharee mix equal weights of this & silver ^{or melt &} & quench 3 times in Amlee leaves pounded in ^{or Mukoh juice} Bhutkataya juice to soften it.

Remember Hussen Ashroff alias Choteh Meera who is
a *hakeel* in the Judges Court at Allahabad
he is the son of Nizamut Ashroff who is the
Government *hakeel* of the Allahabad Court
his about 25 years old & lives at Moush-
ojrinee, 6 kos west from Allahabad,
in Pergunnah Chayel or chail, Zillah
Allahabad, he can make *Pach-*

Kain unnar & *Siber* of it, he uses a 3 leaved
plant, it has a yellow flower, with pods
& a black seed is found in *Kelly* ground,
near *Chunar* gark, the plant will do for
pounds of bark it must be used fresh, there
are 2 kinds one runs along the ground the other
is upright in the stem the former is for
Kain unnar the latter for *Siber*, the

size of
form of the leaf is this

of 10 inches more or less



& it grows to the height

it is a kind of

Sch for the having 3 leaves on each stalk
the leaf is soft like velvet but there is no
juice



Shree of Shingraf.

5 seers of Alcohol must from Nowron or
Goor Sherab & 1 tola Shingraf pound till
^{Joint Ka Benj Kaloshee - Kuprotes 7 fold with dried - with cloth}
^{exploded} Place this on 2 a dozen Ag leaves stitched together
^{about 4 1/2 dozen Ag leaves stitched together} bath, Close the mouth of the bundle
^{in a sand} & burn as much Cotton sticks as a rope
5 bath in length will enclose when cool
use on Silver & Copper. when you have done
pounding rub a little on a copper plate & heat it
red hot if it colors it it is ready to burn, if not
go on pounding. - till on trial it colors a plate of
copper yellow outside. -

Gold

Sallajeet (i.e. Storax, Styrax or Gum Benjamin,
Benzoin) Camphor, Gumbak, Saffron,
pound these things in the Jumeeree lime juice
one mubur, plaster it on lead leaf & burn
in a Bund gharea in a Gajput of oil,
repeat this again with fresh medicine & again
beat out the lead, it will eventually become
white, use one mashe of this to 79 mashe
of Copper melted & gone toge. -

Kaim Parch.

Akas Bel, Nuckcheeknee & Bhoot Kuteya
 juices 2 piece of each; $\frac{1}{2}$ pow Parch &
 1 chat: Gumdut first pounded together then
 in the above juices mixed, place when dry in
 an atiskee Sheshee with another placed
 above it, with good Kuprawtee over both
 & sublime the Parch; take the
 sublimate & add fresh Gumdut
 & the above juices & again sublime
 repeat this with fresh Gumdut & these
 juices 7 times when the Parch will
 become Kaim; The person who gave the
 receipt said that the lower Sheshee sh.
 be placed in 5 Seers opia, to do this
 safely there must be a great quantity
 of gilchikmut; this Parch is fit for either
 Nishust or Shigraft.

three receipts for chinese copper at Pakfong.

Iron	—	2.6	
Zinc	— 7	— 25.4	— 118
Copper	— $2\frac{1}{2}$	— 40	— 5
Nickel	— $6\frac{1}{2}$	— 31.6	— 13

Exterminating Powder

nitre 3.
Charcoal 2.
Sulphur 1. } pounded together.

Gold Akseer.

Holād filings 3 dirūms (N.B. a dirum is $3\frac{1}{2}$ maashas) pound this in salt & lime juice till it becomes clean from dirt & white, then take ^{3 dirūms of} silver filings i.e. of pure silver that has been 3 times sublimed; Then 3 dirūms of Pareh ^{پره} that has been sublimed with tin, Lead that is pure & soft 3 dirūms, Nowsadur that has been 3 times sublimed with Eating Salt, mix these things together & pour on them in a China Sancer the

Tey Ab Sūlsā or Sulasa ^{تیز آب سولسا} after heating it well so that it shall be above it the depth of a grain of wheat, mix & stir it well, & place it in the Sun till it all becomes one should it all not mix add more tey Ab till it is all dissolved

Then Take of Sohagā Ka Kheel ^{one} 1 dirum

& mix it in the above, when pound the whole together till it is intimately mixed then place the whole in an atashae Sheeshee covered with Gilchikmut & bury it in ^{is dung of horses} seed for 20 days, when take it out & keep it for 4 purnas in an oven, the whole will become kushta of a white color use 1 Rottee of this mixed with wax on a tola of Copper.

Ban

add 7 ~~4~~ tolas copper to 1 tola gold ^{observe to cast the mixture into a thin plate as it will not beat out} by 1 tola or less at a time & beat into leaves burn out the copper each time by cementation with Borik dust 2 parts & Salt 1 part use on light colored p. 8

Silver Jora

(1) Nimuk Kharee 4 maashas, Nimuk Boraree 4 maashas, Nimuk ⁽³⁾ Sindha 4 maashas, Nimuk ⁽⁴⁾ Sanchi 4 maashas, Nimuk ⁽⁵⁾ Salamba 4 maashas, Jowwa Phar 4 maashas, Sunkea 1 maasha

Pectol 1 piece or one tola, first throw the 5 first Salts powdered on the melted brass, when they are ^{by a little at a time} throw on the Sunkea & Jowwa Phar powdered mix this with 2 parts Silver.

NB. Remember.

Bindrābū Dūlāl of Jōi ghāt, Benares,
Pertab Sing } Sonars who live at Rām ghāt,
Būktawur Sing } Benares (they are brothers). —

Sōokhō Sheraf, his Shop is in the Chowk
at Benares; —

These are the people to whom I gave my
receipt of 2 Hortal, 1 Chaudē, 1 Sambar, ^{with Ban, 1 Rakhi Fota, 2 Rakhi Nondar;} 10 annas
for me, 5 annas for them. —

Hēera Sol son of Kāshēnāth who
lives in Bheeroo Bazaar Bhat Ka
Mushulla Benares to whom I told him
to cut diamonds & Polish them, $\frac{1}{2}$ for me
 $\frac{1}{2}$ for him. —

at Cawnpore.

Shēosāhāl & Munnē Sol, Sheraf
of Sheraf Chowk Cawnpore to whom I gave my receipt
of 2 Hortal, 1 Sambar & 1 Chaudē, $\frac{1}{2}$ theirs & $\frac{1}{2}$ mine,
their direction is Shēosāhāl & Gōshāl Sol, Sheraf Chowk
Cawnpore, or Seta Ram, Munnē Sol, Sheraf Chowk Cawnpore.

NB. I have given all these my directions in Calcutta i.e. Shēosāhāl & Munnē Sol, Sheraf Chowk Cawnpore.

To purchase Diamond

Byjnath Jee, Jeweller of Benares agrees
to give Diamonds at the rate, the stones be
cut & of the first water. —

Rohes		Purples		Pigeon	
60	1 60	45	The Rohes	60	
75	2 75	60	do	74	
100	3 85	80	do	85	
125	4 100	90	do	100	
150	5 120	125	do	120	
200	6 140	150	do	150	
	7 175	175	do	175	
	8 200	200	do	200	
	9 250	250	do		
	10 300	300	do		
	11 350	350	do		
	12 375 to 380		do		
	16 400		do		

one Rohes weighs 20 Allee Seeds (i.e. Linseed)

I could have purchased the Rough uncut
Diamonds as follows, one third being the allowed
waste in cutting & Polishing; (turn over)
in Large Diamonds there is a greater loss than $\frac{1}{3}$ —
in cutting.

Roberts Bismahs Pieces at 29 - The Potter

Pieces annas
508 " 15.0

22 " 18 — 4 — at 67 - The Potter

Pieces annas
1534.5

12 " 3 — 3 — at 44 the Potter

Pieces annas
534 " 9 1/2

14 " 7 — 6 — at 40 the Potter

Pieces annas
574.0

3 " 0 — 1 — at 31 the Potter

Pieces
93

8 " 12 — 1 — at 900 the piece

5 " 8 — 1 — at 45 The Potter

Pieces

3 " 2 — 1 at 43 The Potter

243
as Pieces
133 " 4.3

Brook Sine Whiree of

Telea Sunkea
h ardenic.

on Telea Sunkea till it
like Wheel Shaga
g juice & burn in 2 p
es & use on tin. —

see Ka Khak.

lit in the middle on this
in this the silver & so on again

Ka Khak.

Neem leaves 1 pice,
Bhung 1 pice, pound all the
ee in these in 15 Seers of

Gold.

total, Zurb Sunkea,
E pounded in ghee war
juice & 1 maachax chandee melt & then
on melt & revive - mix

Roberts Bismahs Pieces

17 " 11 — 16

at 20 - The Potter

22 " 18 — 4

12 " 3 —

14 " 7 —

3 " 0 —

8 " 12 —

5 " 8 —

3 " 2 —

133 " 4 = 3

24
NB. Remember Boodh Sene Shiree of
Calcutta.

Nuskeh of Seba Sunka
is Black arsenic.

Chavva do Kela juice on Seba Sunka till it
becomes white & ^{powdered} like Wheel Shaga
then pound it in white Ag juice & burn in $\frac{1}{2}$ pwa
dpla repeat this 3 times & use on tin. —

Chandee Ka Khakh.

Gheegwar leaf split in the middle on this
place Sunk powdered on this the silver & so on again
& burn in 5 Seers dpla.

Chandee Ka Khakh.

Imlee Ka Chhal Juice Neem leaves 1 piece,
Kachcheeknee 1 piece, Bhung 1 piece, pound all ^{the}
together & burn a Rupee in these in 15 Seers dpla
in a closed crucible.

Jora of Gold.

amrut, Gandak, Mustal, Zurb Sunka,
1 maasha each ~~is~~ powdered in gheegwar
juice & 1 maasha Chandee melt & throw
on melt & revive - mix

23. December 1800
Glasgow

My dear Sir
I have the honor to acknowledge the receipt of your letter of the 19th inst. in relation to the matter of the 18th inst. and in answer to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,
Your obedient servant,
J. M. Smith

I have the honor to acknowledge the receipt of your letter of the 19th inst. in relation to the matter of the 18th inst. and in answer to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,
Your obedient servant,
J. M. Smith

Hust
Sun
pou
take
nel
as
(ie)
M
9
5
tu
b
Ta
in
in
sk
to
oo
u
Su
Ca

Silver Jora a good one.

Hartal, Kores, Sujer, Sokaga, Nowabad, Fotea, Moordar Sing,
Sunkra, one maasha of each of these & 8 maashas filings of faulted
pound & mix together & melt in a closed crucible well; then
take 5 maashas copper purified (i.e. ^{تنقى}) & 1 maasha of this
melted Foulad melt this with an equal wt. of silver
adding one maasha of lead prepared ^{or purified} as follows
(i.e. ^{تنقى}) Take lead & melt it & on it throw
Nowabad, Sokaga & Nimuk, Lahoree, till it becomes white
& pure; then take as follows 1 maasha prepared Foulad
5 maashas copper tunkera Kerdah, & 1 maasha lead
tunkera Kerdah & melt them together the mass will
become Nükräh. —

Gold Jora.

(Dams)

(Dams)

Take 3 tolas munsul, & Gunduk 6 tolas, pound these
in the yokes of eggs, & make balls of them & draw the oil
in a sheeshee, then extract 5 maashas Pareh from
Shingraf & take 10 maashas red arsenic pound them
together in the above oil & heat in a china saucer
over a lamp for 12 puhurs & Chowwa do the above oil
use 1 Prottee of this medicine on 1 tola silver melted with
one tola gold. —

Jora Silver.

Camphor (probably Konee)

Sunkra, Phitkars, Nowabad, Shora,

(Kutool or Kutivul)

Capthoor ^(Jor) equal weights, pound for 2 puhurs in
Nuckcheeknee juice & heat for 4 puhurs in Balu jouton
use 1 maasha one tola of Copper. —

Joca gold. -

Pareh, Hartal, Sunka yurd, Toota, gunduk,
(or the ~~ty~~ ^{at} below)
Equal weights pound in Nuckcheeknee juice, well
place in a copper Sumpuk & over it tie iron wire, place
this in a earthen cups & over it gilthikmut, heat this
for 12 juhurs over a lamp & use on Copper & tin. -

Tey at for the above Nuckeh

Shora, Philkaree, Koscas, one how each & eed munsul
12 tolas, pound coarsely together & draw the ~~ty~~ ^{at} which
use instead of the Nuckcheeknee juice in the above Nuckeh.

Muskah of Pareh Ka'im. -

1 piece gunduk, 1 piece Sohaga, 1 piece Nowsadur pound together
in lime juice, place 1 piece Pareh in an iron ~~ke~~ ^{re} ~~re~~ ^{re}
& throw the above things into it pour water on & boil
till 4 piece of the water remains take out the muskah &
place it in a piece of cloth & cook it for 4 juhurs in
handee Ka tel. -

D?

Shora, Nowsadur, Sohaga, munsul, Pareh, & maashas
each, place the 4 first pounded above & below the Pareh
enclose it in a Sumpuk of earth & repeat giving it tushoccas
with fresh medicines till the Pareh becomes a Muskah. -

To make Sulphur red.

Take shell china, Snuff, Shora, 2 maashas each pound in water strain off the water place it in an iron ladle on the fire & throw 1 tola pounded gundak into it, heat till the water dries & the gundak will become a red mass; use this on copper & for other receipts as it is better than plain sulphur.

Gold Jora.

10 Tanks of red Sohan Makhee & 8 Tanks of red gundak pound for 4 parts in ghee gowar juice then pour fresh juice on & burn it so that the juice shall dry up repeat this 21 times & use 1 maasha or more on 1 tola Chandee.

Shree of Parak.

(Nesut)

Zafran Ka jor you get it at the attars, pound this in 4 pie of Kala Dhuturia juice & Chowwa to it in Parak - use on copper.

Sunka

6 maashas Sunka, 1 tola Shora, 18 maashas Sohaga Wheel pound the two last & enclose the former, in a bund Kullea & burn in 10 pie w: dple use on copper. the Sunka attars moisture & must be kept in a glass or china vessel.

{ Sirphoonka or Shingra } Parak Kaim.

Bhat or Bhit, ^{or Bhoor} leaves like Phalsa it is found in am Ka Bageshas. Cook Parak in the juice & squeeze it through a cloth. - it will become muchok.

Shingraf ka Kuss - green
Cook Shingraf in $\frac{1}{2}$ pow loobhee of the Sirphoonka in
2 sens pla with 3 Kuprotes burn 3 times in this sirphoonka
mix an equal w^t of Silver melt with Shaga & use as a Kuss.

or Kūwā Sōāh Shingraf Kaim.
1 pow, Sēāh Lērāh juice, 1 pow ajwain, 1 pow jintee.
Choswa 80 on Shingraf 1 piece in an iron cup Kaim kōgā.

Kaim just

Just 2 piece silver one piece melt & mix then take
goats bones 1 pow, Red or goldabee Sujje $\frac{1}{2}$ pow,
Lahoree nimuk 1 piece, pounded glep 1 chat, rēh 1 chat,
Seemk Ka Chūnā 1 chat, rāl 1 piece; pounded china 1 chat,
pound all these except the goats bones, together divide
the whole into 6 portions place $\frac{1}{2}$ beneath & $\frac{1}{2}$ above the
Just Ka Kuss in an iron cup with a copper cover forming a
Sumpst place $\frac{1}{8}$ of the pounded goats bone above & beneath
the other medicines use 7 opas for the fire except this ^{portion}
6 times ~~mix 2 parts of silver with the~~ ^{melt this} Kaim just &
throw on 1 piece of Wheel Shagā, Nowadur 6 maashas,
Kāhārwa 1 piece. It will become Kaim then mix 2 parts
silver with 1 part. Just it will become silver.

fora.

8 maashas Sunka baked for 24 hours in vinegar, 4 maashas
Sujje & 4 maashas Rāng Ka Kushta sufid pound together & use
1 maasha for a por of 2 totas. —

Jeevan Muskeh Nuskah.

Barh Whak.

Take Chowkara (i.e. dates) 1 chat: ripe grapes
1 chat: pound them together & make 2 gharas of them
in this place 1 chat: Kateera (get at the Punsarees)
& 1 piece Barh pounded together place a Kaprowtee
over & burn in 2 1/2 pow opla the Barh becomes Khak.

Karin Shingraf to
draw muskeh with.

White Sunkea 3 maashas, Hortal 3 maashas, Mansul 3
maashas, Shingraf 3 maashas, 3 and Sunkea 3 maashas
pound & plaster on a lump of 6 maashas of Shingraf
& burn in 1/2 pow ajwain repeat this 7 times with
fresh medicine & burn in 1 seer opla. — use this alone
to draw muskeh of Barh.

Told me by Mr. Wariim of
Kubayyah.

Karin Barh.

Take 4 oz Barh place this with 4 oz: good Hortal
broken into small bits & 2 oz: of common Salt into
a good strong well stoppered bottle use such a lute
as will resist an extreme heat, place this when
well dried using several folds of ^{iron} wire & lute
alternately in a Potter's fire or kiln for baking
tiles & keep it there for 64 or 70 hours, The result
will be a beautiful golden mass that is brittle but fire.

To color copper white.

use nitrate of silver 1 rottee to 3 maasles copper
melted & throw on it Bookkhum juice (that is given
to rabbits to eat) while melted.

Paek Khakh.

Place a bottle with a curved neck & stopper after
rinsing it with strong vinegar with Quicksilver only
on a iron tripod over a charcoal fire which must be
blown from beneath to throw the flame upwards place
Kuprowtee over the lower part of the Sheeskee leaving the upper
part open or rather unconeured so that you can see what is
sublimed heat taken you see the white sublimate in
flakes take it off the fire & take it out for use.



Kaim Nowsader.

1 kow Nowsader, 2 seer Shora, China 2 1/2 seers
pound the Shora & place it above & beneath the Nowsader
& these again in the midst of the China pounded in
a handee ~~close~~ heat for 2 purluss on a chula observe
the China any cracks to be immediately stopped & pressed
down. the Nowsader becomes Kaim.

Jora of Silver & Copper

1 1/2 pow

Cook 1 1/2 tota Sunkea in 21 Plantains in Bhoolal
^{also cook the 9 maashas Roshkopoor in Plantains.}
 then take Nowsadur 6 maashas, Seemab 1 1/2 tota,
 Sohaga Wheel 6 maashas, Aurtal tab Wheel 3 maashas,
 Lemalghota 6 maashas, Sunkea (see above) 1 1/2 tota,
 Roshkopoor 9 maashas, lime juice 1 1/2 pow,
 pound in this juice till it is expended make a ball
 dry it & place it in a Silver Sump of 12 tolas wt.
 place over this 3 Kuprowtees of moortanee earth when
 dry enclose it. (The Kūmar will do this) in an a mallee
 ānār & dry it, place this in 8 seers pla in a Bhorka
 after the smoke has gone out use 1 Bottle on a tota
 of copper melted, if it is properly prepared the Sump
 will become quite ^{it comes a thick odor.} soft & dead. The Jora is very good. -

Jyāb, Kossas 3 chat: Shora 3 spice,
 Sohaga spice, Nowsadur 1 tota

Truckee of Jora

Shitkaree 3 spice, ^{draw the}
^{but first dry in the Sun, dry ab.}
 Sohaga 1 piece,

a dikea of 3 tolas Silver Sunkea 1 tota, Sijee Nishka 1 tota
 Lohoree Nimukh 6 maashas, ^{one & half}
 Sabon 1 tota, 1 tota Aqua fortis, 2 tolas juit & 1 tota Pish
 mixed, pound the whole ^{2 tolas of} in the tey ab & dry it - enclose in the
 dikea place iron wire & Kuprowtees till it is nearly a finger thick.
 & burn in 5 seers pla if the whole melts into a Vours use
 a maasha to 1 tota Silver mixed with 2 tota copper to render
 it saleable, add another tota silver. but observe to throw on 1 maasha
 of the Khakh ~~also~~ over the whole. -

oil of Aurtal

Pound 1 chat: Aurtal in 7 chat: Agka Doodh. & then in 7 chat: Doodh
 Ka Doodh then heat the sheeshee in a mallee filled with sand in
 a sand bath for 4 pūnias using Peepul wood the oil will come out.

Aurtat for Joia.

cook kurtal in Beech leaves in a kausee on a chula till it smells & ~~crackles~~ crackles use for food & mix 2 manashas sithu to 1 tota Sone

To draw oil of Hair -

Take 2 seer of Pilwa Ka chul & 1 seer hair draw by hearted fontan

Pice into white khak (jeauin muskls.)

Cut off 1 bath of Dhōn Ka Lokree, ^{as thick as your thigh,} & have 5 ^{seers} of Dhōn Ka Lokree to burn beneath it; in the first piece after hollowing it sufficiently place 2 pie of Suktee Ka chāwāl previously pounded & soaked for 2 puluers in āg Ka Doodh in this place a Kūndūshakā piee after placing 1 maasha of opium about it, place 3 Kuproates over the Cog after stopping the hole with the same wood & burn in a hole in the ground using 1 maund of ōplā. — The piee will become white Kūndū.

Arksee of Lunka & Shingaf.

Chowwa dō 12 seeds ^{use 10 seeds to 1 tota copper} Kōwā Ra Shērāb m (how) Sunken
placed on ābrāc in a Kerāc, - Chōwā dō 2 seeds
Kōwā Ra Shērāb m a tota of Shingraf use on silver
1 charcoal to 1 tota it colors it straw color. -

Shingraf. Akker.

10 seers of fresh green Kutchla & 10 seers of fresh green
Bhelawān K 20 seers of fresh Bleins Kā Gōvār
cork in $\frac{1}{2}$ a seer ^{each} of the 2 first & 1 seer of the latter

in a hāndē for 2 phurs & repeat this till it
is finished this will take about 20 days. —

(^{is} mūstā) Kurs - $\frac{1}{2}$ phur or $\frac{1}{4}$ phur in 1 phur āplā
cook 1 tola Khingraf in Lāl lagh 7 times, then burn
in copper filings placing the Kulea in āth over
which place $1\frac{1}{2}$ phur āplā, mix this with = cut
of silver & draw Muskeh. Cook the Muskeh a whole day
in Lahoree minuk dissolved in water. & burn in
Kutchla, Imāstā, gōor, Kātā gēra, Bhēlāwān
ājāsīn Kāstān

Sūkē -

cook in Chōngēre Kā Khāk. —

Cook Pach Skēer

Round Pach 1 tola in one tola of the small Gōkrū for
16 phurs or take the Gōkrū 4 tolas to 1 tola Pach & pound
dry - Place this Pach in a man head who has lately died
such as man that has just been hanged pour into the man
& place Kuprowtee over it & burn in a heand of āplā.
the Pach becomes Khāk.

Phōlād Kā Kushta - golakee

Take Jāmūn Kā arak i.e. of the spirit & soak phōlād
filings in it & place them in a sauce in the very
hottest Sun of day & fine repeat pouring the juice
on & pound it slightly till it becomes Khāk in about 3 times. —

Shingraf.

Burn in Look dier son Kā jōt. — It is a bulb.

Ban.

Lead & then with

1 maasha Sna, 1 maasha copper purified with, Loh & Lac,
7 maashes lead melt the whole & throw on Sna, Loh,
& Lac till the wt of the gold is. 1 maasha remains use
this for a Bān.

To make Pheeminee Cephoo.

Take equal wts of Black pepper, Nāgūr Mōthā, Bilchot,
Kopoor Kuchree, Nōt Kōckōot, Tongue, Ssetulcheenee,
Rōtōn Jote, Sālōb Misree, Camphor, pound all together
except the Camphor, which mix in afterwards;
place this in a small handee over the mouth of this
place a plantain leaf & set this a nuttee saucer
with Kuprowtee burn a wick of a lamp as thick as your
finger under this for 1 or 2 pulwers open it carefully &
take off the sublimate from the leaf place in a stoppered
bottle & cover with wax. — about 18 maashes will sublime.

Sona Ka Ban. — a good one.

Rāng 3 maashes, copper 1 maasha, iron filings 8 maashes
melt together when melted throw on a maasha each of
the following medicines pounded together viz: Shingraf, ^{except the Hūntal, which is 3 maashes} Hūntal,
gunduk, munsul, N. oradur, Sohun mekhee, red shit there,
use 2 rokkees or less to 1 tola of Jora. — it is used to the wōt &
aut are both good.

Just Barek ^{40ft} Kutchla Tree - in Pilibheet at Gouree Shonko's ^{seeds} ~~Mohades~~
Get green Kutchla 5 seers & green Bhelawān

Shingraf Kālek white
gongchee pounded in Edhara
a āg ke sooth -

Just Paich Kālek Hack
Mikōh about 8 Maashas.

Mundee Ka Dry Leaves (2 pwr
Pakhamell pounded / Maasha
hot & (Maasha Paich mixed)
1/2 seer opla. Enclose & burn
Repeat this adding fresh Paich each
time 6 or 7 times use to color
Copper. - In pra. use 6 rotas to a
tota of Copper mixed with a tota of
Silver. -

Must be ~~x~~ first purified. -
2 pwr Paich & 2 pwr
of the above above &
say 1/2 opla (i.e. half a pwr)
at to burn the medicines
medicines are dry. & mix with them
is 100 times or 10 times
add have fresh Paich to

seer. { Pound the Paich in brick dish
& Shogota in gheswar juice
& subline 3 times.

in pra. in one lump -
each time
a govt for each line
the time to be partially
short at the 70th
it colors
use a lep of white gongchee
it into more hands
edred. -

bbing
ites or pricks the flesh
is Vet. -

White gongchee seed
into 2 1/2 seers cows
till they are supped
ain throw in a little

seer is purao or when you see the butter or ghee fling
away the whey Let any one sh. eat it & keep the
butter for use in rubbing. - or for tying on the parts with
Bawn leaf.

Hungary -

Born in Look for the ice. A. J. C. L. H.

1 masache Sona, 1 masach
7 masachas had me
6 lac till the W
this for a Ban.

2.

Take equal parts of
Kopoor Kuchree, the
Rottin Jote, Sälöi
except the Camph
place this in a jar
place a plantain
with Kuprowtee bar
finger under this
take off the Sublimat
vial & cover with l

Rāng 3maashas, 1
melt together when 1

the following medicines pounded together — ^{gunduk} gunduk, ^{munsul} munsul, ^{nowradur} nowradur, ^{shun mahkee} shun mahkee, red Phit^{thare} there, use 2 roksees or less to 1 tola of Jora. — it is the best & ^{ant} ant are both good. —

Just back Alaska
Ketchikan Free - in Billibest at George Shook's
Mohades

soft seeds morades -
 Get green Kutcha 5 seers & green Phellawau
 5 seers pound together take 2 pieces each of the
 of enclose in 6 meshes of ^{thin} muslin ^{two things}
 put mix & place ^{in 2 mutter saucers} spice of the above above
 beneath & burn in sufficient heat to burn the medicines
 without burning the ^{say 1/2 hour or 1 hour (i.e. half a pound)} Kirs repeat this 100 times or often
 use on copper - N.B. * as the Parch waders have fresh Parch to
 supply its place say 1 hour - (Pound the Parch in brick dust)

supply its place say I now —
melt the just & quench in the juice
of the black mulberry i.e. 100% times.
Süßgras - Skreer.
Pound the bark in brick dust
& Thymus in Szechuan wine
& sublime 3 times.

100 large lines & 2 tolas Shingraf in one lump.
over this place a lch. of white Gungchee. $\times 2\frac{1}{2}$ years. Each time
& 2 i deers of *P. heinrichi* Gouvier for each line
for 1 hour using a very strong heat & close the handle for each line
cook ~~three~~ ~~3 times a day~~ the line to be partially
burnt outside & not throughout at the 70th
burning (in a handce or a chula) it colors
at the 100th line it turns it into more handce each time
when cooked the Shingraf becomes dark colored. —

oil or ghee for rubbing
that gently excites or pricks the flesh
for sprains &c. -

Take $\frac{1}{2}$ pwa of the inside of the white gongchee seed
pound it coarsely & throw it into $2\frac{1}{2}$ seers cows
milk, boil this on $2\frac{1}{2}$ seers of oil till they are expended
about 2 seers milk will remain throw in a little
Dekee to jinnāo it; when extract the butter or ghee fling
away the whey lest any one sh^d. eat it & keep the
butter for use in rubbing. — or for tying on the parts with
Pawna leaf.

Isree Rishads.

Jora - Silver

enclose the bone in a Kullea & burn.

if not procurable use kids bones.

Brigla Ka Budder Ka rak 2 maashas,

Sunka 2 maashas, Sujee Surkh 3 maashas,

Rang Ka Kushta Surfid 1 maasha, Sohaga

Ka Khed ^{3 maashas} throw this on 3 Bunkers weight of copper.

Misree that comes from Guize i.e. Egglet.

Anteemoon (is a kind of stone reddish like
Geroo or Singra Sukh) - one tola use this with
the juice of Simka, Hirtal, Shingraf & Silaer filings

6 maashas, Shingraf 3 maashas; - these things
make the Kirs, the baiton is 1 tola muskeh, 1 tola Nimukh 2 tolas Phelavan
or salt & jungalghota in a hand gharea.

Jora of Gold.

Take 5 ~~tozas~~ tolas of Shora place 1 tola Shingraf
in it & burn in a Kullea in a See of Opla - repeat
heating this Shingraf 5 times in the loobhee of Jeintee
using a Kullea & 2 sees Opla use to color Silaer
which quench in Jeintee juice afterwards 13 times
to decrease the color.

Sunka - remember to ask the horse dealer.

Cook in 120 Kandehs or jungal Opa; with Unprootee in
1 see Opla each time.

{ Isree Rishads first { Jora Silver } -

6 maashas Silver, 6 maashas copper, 1 maasha just melt
together & throw on 6 maashas Sujee golabee, 6 maashas Nimukh
Lahoree & 3 maashas Nowadut pounded together & cast a Renee.

Kalee Nuggud to turn copper white -

use Goosaym juice for 4 days on foot & 2 piece
March 2 piece -

Zirri Karoon or Mārkhāpēshā & Sōhūn mākhīe

Kuiss

3 maashas Shunja, 3 maashas hinkka
or Kohol ahmut, & reddish mineral to be had at Mecca

& 2 maashas Antemoon Musree, 2 maashas
judaga it is used for the eyes as Collyrium instead of Soorma. -
Soorma Sopha hancee, 1/2 totas Silver filings

pound in sufficient honey to make a Ball &
melt it. pour the juice of 2 onions over

it close the crucible leave a very small hole
at the top & burn in a case of pla if it does not

melt. repeat it by using another beer taking

care to close the crucible. - for the Baitok or without

of the musk drawn by the above Kuiss take 6 maashas Samhar 6 maashas Shore
pounded together & 4 totas Bhelawān pounded. place the musk in the center & the
Bhelawān above & beneath.

Black Moolie yet in Delhee use
this for Shunja 21 times Kavin hoga

For 20 totas copper mixed with 40 totas silver
Sunka Itola, Seemab Itola, Roshopoor 3 maashas,
Silver leaf 2 maashas, Sajjee 8 maashas, Shaga Ka
Phoola 8 maashas, Bors lochum 2 maashas,
Sūt-gitoh 1 maasha, (it is white like arrowroot)
Phutkaree Ka Phoola 8 maashas
Kowsadur 3 maashas; 4 piece of Soap makers Khao or acid water

Remember
this it is white

{Pash, Kuntel, gunduk } ^{where} to find Rooder buntie -
{Shingraf, munsul, lead;}

Remember Bitoor on the Ganges near Cawnpore
it is also called Brimma but it is a place of
Ternth of the Hindoos, near this place is a
village called Sujjora, in this village are
water courses or runnels for watering the fields
on their edges Rudurwantee is found it fixes the
the juice may be extracted & kept in bottles, use the juice.

Lead

[illegible]

color mix this with an equal wt. of Parch. then take
Bishowntee Ka ~~ar~~ ^{the Khak} arak & pound for 1 pukur
enclose it in two chiraqs place Kuprowtee over it & burn it
in 10 seers Opla in a gajput repeat this pounding for 1
pukur in Bishowntee juice & burning in 10 seers
Opla for 16 times ^{it will become red Khak} then mix an ^{one maasha} ~~of~~ of Parch.
rough ^{total of lead} & pound in the juice of Bishowntee 4 pukurs

& place it in an atisher thewie in a Belu
joiter & heat for 32 finkurs & ~~an~~ use the Khath
which will be red on silver it is also good to eat.

Sunka -

Take 1 pound Sunka in lumps of a Tola each &
1/2 seer ulsee seeds & 1/2 seer Bhélawān pound place
in the ulsee at the bottom of a small haudee over this
place 1/2 the Bhélawān then the Sunka spread
about over it then the remainder of the Bhélawān
& over it the ulsee close the mouth of the haudee
& keep gently for 3 pnhurs, take out the Sunka &
repeat this 3 times with fresh ulsee & Bhélawān,
then place a lump of the Sunka in a Kercha with
ghee & cook it till it swells & becomes Shiguff
when use on copper as you may think proper.

Tey ab to fix Parsh.

2 parts Kosees & 1 part Shora draw the tey ab in a
Krambeek - Take 1 Rottree silver Khāh to each
maasha Parsh make into a muskeh of this take
4 tolas & over it pour 4 tolas tey ab in an atishee
Sheshee over this place a Krambeek & draw off the
tey ab repeat this with fresh tey ab on the muskeh
at least 3 times or often till it becomes fixed.

Rooma Shingraf

five

12 tolas Parsh, 8 tolas gunduk, pound first together & add 5 tolas each
on unsal place in an atishee, Sheshee & sublimate for 16 pnhurs.

(my own
receipt)

To prepare copper for silver for a -

Take 2 Maashas lead to each tola of copper
melt & throw on shora & stir with a stick
till the whole of the lead is removed the copper
when heated red hot will become black mix
this with silver ^{the aut is black not very black} & throw on your medicine & please
God the aut will be needa.

In rojal. Take 1 tola Kuruva Nimuk, 1 maasha
Sambur nimuk, 1 maasha Shitkarree, & 1 maasha
Nowadur, heat in this 3 or 4 times & quench in Khuttace
or Fushace;

to Plate Silver on copper & brass.

1 tola silver precipitated with by copper & 3 times
washed with salt 2 tolas Corrosive sublimate
4 tolas Nowadur pound dry together & keep in a
closed bottle when required for use make into a paste
first wash the polished brass with Nitric acid diluted
in 8 times its wt of water & then rub on the paste
with wash leather.

Is a long standing venereal.

^{or Litharge}
Moordar Sing 5 grains, old goor 5 grains. Liquorice
5 grains pound together with sufficient water to make

into a Pill; repeat this ^{five} 7 times for 7 days i.e. 7 Pills
of 15 grains each given either once or twice (if twice
divide the Pill into two small ones) a day will in 7
days effect a perfect cure without salivation or
any other inconvenience. Observe to eat plenty of butter
& ghee.

Silver Sheet. — (a true Nushki.)

1 seer of 1 seer Shora, 1 seer Nowsadur, 1 seer Phitharee,
1 seer Brickdust, draw the teg ab in this powder for
4 phurs, 1 tola Ukurkhurra, 3 tolas Parch, 5 tolas
Sunka, 1 tola Silver leaf or filings, heat in an
atishie Sheeshee for 4 phurs in a Balujitor, repeat
this 3 times pounding for 4 phurs & heat for 4 phurs,
use 2 colles to a tola of copper, try the medicine in a
sheeshee till it becomes perfect. —

White Dalchikura. —

90 parts of Parch, $7\frac{1}{2}$ parts Sunka, pound
a whole day & sublimate for 4 phurs. ^{or more.}

To make very red Shingraf.

6 parts Parch, 1 part gunduk, $\frac{1}{2}$ a part Lead
pound & mix well & sublimate for 16 phurs, melt &
mix the Lead & Parch first, it is of a finer red than
that sold in the bazaar. —

ameenolla Shah Syad.

404 Mūhūmmūd Shādul Khān.

In the name of my Heavenly Father & his beloved
Son Jesus Christ.

^{H.D.} - The Tamar is the Cucurbita lagenaria.
The Indraya is Colocynthis or Cucumis Colocynthis.

(not a Bull)

male or female one

12 Pittas of a cow, 12 Pittas of a goat, ~~that~~
~~has not given birth~~, 12 Pittas of a hen (not a cock),

that has not given eggs

The three ajwains, ajmode, ²Whoravance, ³Desse,
twelve tolas of each, i.e. 36 tolas altogether.

~~18 tolas~~ 18 tolas Kurwage ^{fruit stalk leaves all dry} Tamar, i.e. the fruit with the
seeds, & 18 tolas Bindāl (Kurwā) ^{i.e. gōrāyon stalk & all dry} & 18 tolas of

Indrayon, ^{zūrd not red fruit stalks all dry} Ka Phul; Take 10 seers of water, ^{or more,} pound
all the kinds of fruit dried, pour them & boil

them ^{with the Parch as directed below} in the water (keeping the Pittas separate)
till 5 seers of water remain; Take 1 tola Hortal tubbe

prepared in salt till it melts & becomes red ^{place Jambur above & below the Hortal which place between 2 leaves of a tree & this} then

1 tola Parch prepared as follows when you boil the ^{the Hortal with} above fruits in the water, boil the Parch in a

bag, in it till ~~the~~ 5 seers of water remain out of this

weigh 1 tola; place the ^{the Hortal} Hortal in lumps of from 2

maashas to 4 maashas or in one lump with the

Parch in a cow's bladder (a good large one), then
extract the juice from the Pittas above mentioned after
first mixing them well in a separate vessel & pour
them into the bladder tie the mouth up tight

Place this bladder in the above 5 seers
of water that has remained ^{with all the fruit in it} in a handee place this
handee in ^{and with} a ^{hand} balu jontor or if you cannot
get sand use ashes or earth place the hand
with ^{the} balu jontor on a chintā & use opla aspie
which cut each opla into 2 bits & burn ~~in~~ them
under the hand till the juice or water has so
far dried up as the whole shall become as thick as
mud but observe to ^{turn the bladder about}
occasionally gently; ^{after this take the plug out of} place the bladder in a
small handee the mouth sufficiently large to
admit of its being the bladder being put into it
place a cover over it & over the mouth 3 Kuprosties
place this handee in a quantity of horse dung for 36 days
observing to take it out exactly at the same time on
the 36th day as you put it into the dung on the first
day in ^{after this} take out the Kural which will be ^{separate}
from the Pārch, & also the Pārch which will have
become hard like just, take 1 maasha of the
Kural & 1 maasha of the Pārch place these with
~~and~~ 4 chawals in wt. of the fat ^{about} of the eye of the
Rohu fish is. The fat round the eye which melt fresh
& keep by you place these in a ^{small} bottle & place ^{place} at Ah in the
month tie a cloth over it & ^{this in} Ketchree for half an

Four or more ^(the iron sustains most loss) the whole will become ^{of a whitish reddish color} oil use it on iron
 steel, brass, copper, & silver ^{Pareh} in the mixture of copper
 & silver ^{equal parts} there is the least loss; ^{the silver sustains a loss of 2 tolas in 5 seers} the Pareh turns just
 & copper into silver use 6 tolas to 12 tolas of copper
 & 2 tolas to 12 tolas of just they will become silver.
 one seer of the oil is sufficient for 10 seers of
 iron or silver by merely rubbing on the oil &
 heat the silver red hot. — N.B. The scrapings of the crucible
 in which the gold has been made will color silver pound the bottom
 of the crucible & mix with wax which throw on melted silver
 it will become light colored gold. — The Pareh muskeh if made into white
 is good to be eaten. —

To look the Hurtal if you do not use salt you may
 pound 4 tolas fine & throw it into a Kerace with
 1 ^{cold} ^{& stir} seer of oil, heat the oil till it boils when
 immediately take it off & you will find the Hurtal
 in a lump at the bottom the oil of this Hurtal
 runs faster than that prepared by salt but it
 does not color so well as that the other. —

Remember 40 tolas of oil of Hurtal will turn 2 ^{1/2} seers of Hurtal stone into ruby & ^{which you need only rub on iron} ^{Parus Puthur} by
 N.B. The longer the Hurtal is buried in the lees
 beyond the 36 days the better. —

Muhammad Shadal Khan's son's name is Borkot allee of
 Shahjahanpore. — Remember that if you melt a seer of Shor
 in a Kerace & throw one drop of the oil above mentioned on
 it the whole will become abscess & oil like the oil of Hurtal; also
 the Kaim Pareh ^{1 maasha} muskeh gives other Pareh ^{12 tolas} in a gentle heat & that other Pareh
 or stermitz which turns copper into silver if too great heat is used it becomes silver. —

Soma Makhee Akseer.

Sohum Makhee 1 piece, 1 seer Nowadar, first
place the Sohum Makhee with 1 tola of Nowadar
in a gharea heat this with the bellows the Nowadar
will fly off the Sohum Makhee will melt repeat this
with fresh tolas of the Nowadar till the whole disappears in
smoke, then melt 1 ^{one} ^{piece at a time} ~~now~~ ^{just} & hold the Sohum Makhee
over it with a pair of tongs in the flame of the just till
the whole of the ^{one} ^{piece} ~~just~~ is consumed, then melt the Sohum
makhee & again place another piece of just in the
gharea & again hold the Sohum makhee over it in
the flame when the second piece of just is exhausted again
melt the Sohum makhee with ~~the~~ ^{the} ~~gharea~~ & so on
repeat melting the just by a piece at a time & then
the Sohum makhee till the whole of the just is
exhausted; when pound the Sohum makhee
in Darineel Juice 4 mihars & heat in 2 deols
in $\frac{1}{2}$ a seer of Sple repeat this pounding for 4 mihars
& burning in half seer Sple 18 times & in like
manner pound & burn in lime juice 18 times; then
take 7 heads of the Robin fish ^{small ones,} hollow the head where
the brain is place the Sohum makhee with
maasha of opium in one of them cover it over with what
you have cut out place it in a Kullea & burn in 2
seers of Sple, repeat this with fresh opium in all the 7 heads
& use 1 maasha on 12 tolas Silver Soma koya.

Sunkha Shkeer -

Take 50 lines cut them as required for use in
half take Phulleedar Shoorwar half dry it
& burn it take the ashes which keep; Then take
4 piece of Bheinsa Kā Gōvūr, place ~~the~~ sand
about 2 fingers depth at the bottom of a handee
over this 6 maashas of the Phulleedar Shoorwar ashes
over this 1 tola Sunkha just moistening the ashes with lime
juice over this place $\frac{1}{2}$ a line over this 4 piece more
of Bheinsa Ka govur & over the whole sand heat
on a chula & watch the mouth of the handee when
Smoke arises it is a sign that the Govur & Co. is burning
take out the Sunkha & repeat the above process 100 times
with the $\frac{1}{2}$ lines observing to sink the Sunkha into the line; it
will become a reddish color use it on copper. —

Gold.

6 maashas Shrivaf, 6 maashas Parah, 6 maashas of
filings or turnings of Kus Koot or Torā of which the Cōtā
are made of first pound in $\frac{1}{2}$ pow & keeps milk then in
2 tolas ghee & dhar juice when dry enclose in
a copper Sumpūt of 2 tolas over it place 3 Kupostes
place this in a small handee which burn in 15 Sees
of oil either the whole becomes gold or Shkeer. —
Kus Koot is made of rang, just, copper. —

Brad Sona & Scheer

The Balu jointer like a Sandee large enough to hold 5 seers of Sand the Scheer like 1 seer from the bottom & the whole except the neck covered

Phithaue 1 how Shora Keer, Brick dust 1 how, 7 1/2 tolas Kunkee - & mix & draw the tea ab. Sona 11 tola Parah 1 1/2 tolas Parah & 1 1/2 tolas Silau & leaf. pound for 4 pin hairs dry in the Sun, place 33 tolas or so much as will make the gold into a muskeke with the mouth stopped with a bit of cloth cook in Sand for a soft muskeke so that it can be lifted up 4 pin hairs - repeat this till it becomes fixed at the bottom heat as you in Katchee take a thin gold leaf ha keeshee that will hold use 1 Rokee to 1 tola - 4 copher for silver & 3 maschas gold leaf & 1 tola Parah pound tolas, throw into it 4 maschas of the muskeke & mix & take from 4 to 6, which of this muskeke take a Scheer that will hold 3 or 4 days how sufficient tea ab to cover it a finger left place this in small portions all round the bottom of the bottle & pound in the above together place the Scheer on brood of pla & so on fresh as not to pile more than 1/5th of the bottle or less. Hence this in a coal place a bit of cloth at the mouth & dry it when dry place a little coal round the glass away from the thing it will become red repeat this in the same tea pouring fresh tea at the repeat pouring in the tea till the gold becomes black this will be in about 4 times, the Parah same quantity 3 times when it it will become shiny will become red the gold of a brown color in this manner make the whole in this manner of a red color do the same with the whole of the Then pound the whole in the above tea ab for a ghaseen & dry it in the Sun or if there is some leave muskeke till it becomes knistep which will in the fire, repeat this three times each time putting in tea enough only to make it like mud after take 15 days - after this it has to be cooked 100 times in the 4 following tea ab i.e. 25 times a bar of Sand in a small of hangee placing the Scheer with a khiponjee over it in each after which cook it 7 times in lime juice half a finger from the bottom of the handee heat for 1/2 pin hairs as you in Katchee repeat this pounding in the above tea ab & subliming till the whole such cheeknee juice but observe to pour for 4 because fidd which will take about 24 times or more as very little of the tea ab each pin hairs the Parah will in time weigh what has remained time when place in this shingaffe a 3 seer kind of one best hollow this & place at the bottom & see if it is 22 tolas if so keep it at 15 maschas & 1/2 maschas & 1/2 maschas & 1/2 maschas pound together above & below it that weight & set aside the Parah that has but of course first to make a Tikea of the Kaim gold & Parah in the above tea ab & dry it in the Sublimed observe that each time you sublimed to repeat & set aside the sublimed Parah that is above the weight of 22 tolas or however more Parah

Sum place this in the above & place a khiponjee over the 3 seer kind & begin in 4 days of the

Sublime & the remainder on weighing
 be left then 22 tolas then add sufficient of the
 sublimed Panch to make the weight 22 tolas
 & after this do not set aside any Panch that
 may sublime but add it each time of pounding
 to what has remained at the bottom of the Sheesha
 The 4 tolas are as follows -

1.
 you only require *gungu* *Na-araka* drawn
 in *cup* that the additions i.e. Sulphurous acid
 in this moisten & heat 100 times. -

Shigutt of Kaim Panch

Mix 1 ^{tole} ~~maasha~~ Kaim Panch with 1 ^{tole} ~~maasha~~ gold, weigh
 2 ^{toles} ~~maashas~~ white Sunkee & 2 ^{toles} ~~maashas~~ Telea Buchnaka
 pound ^{these last} together & place above & below the gold & Panch in
 a Green Kund weighing 2 seers place it Kuprow ^{to}
 over it & burn in a mound of opia. use this a
 Chawal to a tola -

To eat for Shakti -

Take the gold of the above *muskeh* i.e. the *Khakh* out
 the first *Sheesha* that has separated from the Panch
 heat this in $\frac{1}{2}$ a seer of opia in 2 seers & eat
 a Chawal daily for a month on a teaspoonful of honey or
 on a *Bütāshā*. -

a true receipt of
Just & Parck for gold.

Take 2 seers of Goosrayon juice i.e. when the plant is green, ~~now~~ take a small cup of ^{just weighing} 2 tolas in this mix 2 tolas Paech using lime juice take 2 seers of ~~Paech~~ Samhar pounded place in a Keraee on this place the cup of just & heat strongly & Chowwa to the whole of the Goosrayon (i.e. Bindal) juice on it when it will become soft like butter & will stick to a seenth. if rain into it, you have merely to mix a little of this on copper & throw it into the fire Sona toga.

White Khârn of Copper.

There is a plant called Kātee Nūggūd which will turn copper into white Khāk. also if you burn a piece in a lump of either, Kuchla, or Bkētawān wood hollowed out for it, it will also become Khāk of a white color.

Sicher wahr.

Burn in ~~the~~ ² ~~tolas~~ ² ~~tolas~~ without anything after cleaning the surface
after heating it red hot Thowut Wa Doo-oh A after
first quenching it 2 times in the same water.
Burn in one ^{lost it & melt} ~~seer~~ ¹ ~~of~~ ¹ ~~pla~~ ¹ ~~Pukha~~ - or $\frac{1}{4}$ aus pla - not more.

Sunka.

Take Zehputtee Ka ^{not the tursh} ~~is~~ the small
tehputtee of ooka Phool place 4 mashe
Sunka in a cloth soaked in this juice hollow a
 neem tree place this cloth 2 days & nights in
~~the~~ this & then take it out & place it cloth and
all in a tidhara tree for a day & night, then
take 2 $\frac{1}{2}$ seer Dhak Ka rak place the Sunka
in this rak place is the rak at the bottom of
an handee over this the Sunka as many lumps
as you like prepared as above over this place a
handful of rak over this a kumhee Sanser &
over this the remainder of the rak over this
a brick weighing $\frac{1}{2}$ a seer close the handee
& burn for 3 puluns such as if you were cooking
Dāl, mix a tola of Orach with 4 mashe
of this Sunka in the above Zehputtee juice
& till they unite & make a ball which will
take 3 puluns enclose the ball in Kaper & place
it in a mukhee gharee & burn in $\frac{1}{2}$ a seer dha-
wa on coffee for silver. —

Sunka.

Chowwa do āg Ka Doodh for 40 pulhas
on 1 tola Sunka in a copper ~~at~~ Kutra on
a tripod of iron burning ~~Beer~~ Ka Koila
beneath it & this placed in a smelter Chula
occasionally blow with the bellows & burn
2 pie of charcoal under it a time. when the
40 pulhas are over mix a ^{10 masikas} tola of Panch
with 4 masas of this Sunka using cucumber
i.e. Kheera juice this will mix in about 2 ghaces
burn this wrapped in paper in a crucible closed
in a sec of dpla use on copper for gold. -

Sunka -

Chow āg Ka Doodh, 4 pie Sidhara Ka Doodh.
1 row Jintee Ka āg, ^{that grows on old walls} Siddee of ~~white~~ yellow
flowers, extract the juice with water mix these
juices & chowwa do on Sunka. -

Shingraf Keim.

2 1/2 seers of Katelya, 1 1/4 seers Nuckchee Kneel,
extract the juice. place a tola of Shingraf in 4 pie wt.
of the loobokee of green Peking pour the above secret &
burn in a Kutra in 2 seers dpla wheat this 3 times. -

This is the plant that Golam Rubbanee makes gold
 & a Kees of Parch with the utmost number of
 leaves is 16 & from this downwards to 4 if it has only
 4 it will do
 length of
 by Golam
 the stalks
 or longer
 the leaves are



the 4 top leaves & the
 the stalks are drawn
 Rubbanee himself
 is neither thicker
 than what is drawn
 green & full of juice

the root is strong & breaks it is found in Kinkuree
 ground in the hot months of May & June
 about Bareilly if you rub one plant on a tola
 of Parch in the palm of the hand ^{it instantly becomes muske} & melt it, it
 becomes gold; for Shiguff place 1 Meashe Parch in
 a small golab. Ka sheeshee with $2\frac{1}{2}$ or more
 of the juice after separating the gād, at the least you
 must have 2 meashe juice for 1 meashe parch heat on
 Charcoal & use 1 Rotta of the Shiguff on 2 seers of ^{coffee}
 if the whole Parch does not become Shiguff ^{use}
 that which does & separate the Katcha Parch.

N.B. the muskeh made in the hand will not
 become Shiguff although black in a Shiguff
 it invariably becomes gold perhaps by adding
 more parch to the muskeh it might take the
 Shiguff. —

1/2 part gold.

1 part silver 3 gold.

3 maashes gundak, 3 maashes Kuntal, 1 maasha
minisul, 1 maasha Parsh, pound for 2 pulars
in Kurwee Gobhee juice when plaster it on
a Lucnow Rupee beaten out to $2\frac{1}{2}$ times its
length over this place 2 Zikkas of good clay &
when dry 2 Kuprontees & burn when dry in 4 day
opla, mix of this 3 parts gold & 1 part silver
& use this for a Ban; take 2 tolas of

Pown war Ka beej (the had at the Punsarces)
soak for one night in a chat of water, throw
away the seed & quench 1 tola of Phoulad beating
thin 11 times in this water (which will be yellow)
use of this Phoulad 2 chawulsto 1 tola sona asa Ban.

Sunka a Ksar.

100 Kuréla Ka Phul, 1 tola Sunka, 1 piece of
Sufaid Moollee juice enclose the Sunka in the Kuréla
pour in the Moollee juice place 1 Kuprontee & burn in on
the Meidan in $\frac{1}{2}$ seer opla repeat this in the
100 Kurélas & use on copper. —

Karin Thora -

1st. Philtharee $\frac{1}{2}$ pow Shora i.e. 12 totas Shora
the Philtharee
bound together & melt place it above & below the
Shora in a Kercha & melt place rub a little oil
at the bottom of the Kercha melt & stir & cook Sunka &
"Shindraf" in it.

To make Guatal red like a Ruby -

Take 1/2 lb. Hartal & 1 Chat. Phittkare & 1 Chat.
Shora pound together inclose the Hartal in 2. nuttree
bark & cook for 4 or 5 ghans in a chula take
out the Hartal if it has melted if not heat again
draw the teg ab of Phittkare & Shora equal ^{in a phinapup.} wth
melt this Hartal & Chowwa to this teg ab on it, it
will become red & clear. —

Lazil Copper.

1 maasha green Kosses & 1 maasha Shingraf pound for
4 hukars in filtered vinegar, plaster this on stone after
baking thin as paper in ^{red hot} vinegar distilled with
Podena (i.e. mint) heat & quench in this vinegar
observe to plaster on only a little at a time of the Kosses
& Shingraf after the quenching plaster on
a maasha each of Gunduth, Hural, Shingraf
Pareh, ^{Munsul Surkh} (i.e. iron ore) pounded in ghee-gwar ka cos bath
2 Deoles in 2 seers oila, pound together equal
parts of Mohod, Lokaga, ghee & have it ready

pound the Khām & mix this in very small quantities
with the Shohod, Shigā, gho; make a hard Ball fit
& melt it after leaving it for one night
melt & then weigh it take 4 times its weight
of lead now remelt & add the lead by degrees
say 6 maaschas at a time melt till this
is destroyed add another 6 maaschas lead & melt
in like manner till the whole of the lead is
destroyed changing the crucible after every
6 maaschas of lead has been destroyed when the
copper becomes pure again beat it into leaves
as thin as paper & repeat the whole of the
above operations from the commencement & soon
again & again for 21 times, but observe that only
~~2 or 3 maaschas~~ 6 maaschas will remain after
this fashion out of 4 tolas copper i.e. for the
first 4 or 5 times when more will remain
& more & more each time - take up
less than 5 seers of Copper at first; at the
11th time 1 maascha will do for a tola of
silver mixed with a tola of gold & makes a
a good Ina at the 21st time use 6 cottons or

total of silver for gold.

N.B. if you do not use lead more copper into
low so well tho' it
is about 25 years of age.

Kupin ash-off. or Choteh Kēring out of 4 tolas
bakeel in the Judges
Court of Allahabad.

is the son of Acreant
ash-off Govt. bakeel of
the Allahabad Court.

lives in househ ⁶ ~~know~~ ^{recd from Allahabad.}

vojeince, Pergunah

Chāyūl or Chāil, Zillah
Allahabad. Knows how

to make Parah Naime annar
with Bronteas.

(it is 3 puttees)
See the form of leaf, over
the other side it is found
at Chunar gunk & in
Hilly Places.

in a form 7 to 10 inches
at the 4th time
from 1 to 2 tolas
the 8th or 9th time it will

take the 8 five 5
things of each; Maashas
equal to 1/2 of Shitkaree
2 together ~~separ~~

in the Bohaga
say a maasha in a lump
a little at a time
the 4 last things
throwing on the
peat the melting
till the whole of
is destroyed when it

pound the Whāh & mix this in very small quantities
 with the Shokod, Shiga, glee; make a hard Ball of it
 & melt it after
 melt & then we
 of lead now. Use
 say 6 masses
 it destroyed. add a
 in like manner to
 destroyed change
 6 masses of lead
 copper becomes, for
 as thin as paper.
 above quantities for
 again & again for 2.
 2 or 3 masses &
 this fashion out
 just 4 or 5 times
 & more & more
 less than 5 times
 11th time 1 mass
 silver mixed with a total of gold & makes a
 a good ma at the 21st time use 4 cotton ba

[illegible]

total of silver for gold.

N.B. if you do not use lead more copper will remain but it will not color so well tho' it is very good.

at the second time of purifying out of 4 tolas about 7 maashas will remain a from 7 to 10 maashas at the 3^d time about a tola at the 4th time a tola & a ^{quarter} at the 5th from ^{1 to 2 tolas} 2 to 3 tolas each time it will lose l^y in w^t at the 8th or 9th time it will become a yellow gold color.

To color silver.

3 maashas ^{six} maashas 3 maashas 3 maashas take the copper, silver, lead, iron, filings of each; 5 maashas silver Shingraf, take also equal w^ts of Shitkaree Smasher, Shoa, Sohaga Pound together ~~separately~~

melt the 4 first together in the Sohaga throw on the Shingraf a little ^{say a maasha in a lump} at a time & instantly throw on the 4 last things powdered keep melting & throwing on the

Shingraf & bodorka repeat the melting throwing on the bodorka till the whole of the mass except the silver is destroyed when it will be colored yellow.

Bun for gold -

3 maas has gold 3 maas has rany melt & when nearly cool & about to fix add 5 maas has Parah take Brook Kun that the hare & rabbits eat place this in $\frac{1}{2}$ horn of the loo bokee & burn in 1 horn. opla repeat this 10 times after this burn in $\frac{1}{2}$ seer opla 10 times & use on light colored gold. The color on heating increases the defect is that it does not show well on the Kusow tee.

Jol choondra a perfect one -

Take equal w^{ts} of the filings (the finer the better) of iron, lead², tin³, zinc⁴, Phool⁵ (made of tin & copper) ^{use the turnings}, Bhurt⁶ (made of tin copper & zinc) ^{use the turnings} & copper filings pound in ullee ka tel till the whole becomes an ^{iron} uniform mass as soft as wax observe to dip the pestel in the oil every now & then & not to pour the oil into the iron mortar, pound with great force use this as a Jolmoondra & when you require it a second time pound it up again with more ullee ka tel.

Shingraf -

$1\frac{1}{2}$ tola of The Tole Ka Shingraf Take 2 piece Pakka of raw Haldee that is being dug up & 4 piece Pakka Seer ajiwain pound them well in agka dooda burn in 2 muttee Patas in $1\frac{1}{4}$ seer opla after it

has been burnt i.e. the smoke gone out & well broken
by being rubbed by the foot, place this above & allow
the Shingraf i.e. the sunprint & when cool repeat
this with fresh loobokees 7 times & use on
silver & maaska to 1 tola the color after 3 or 4
meltings will be a light yellow. mix with gold.

Alkeer

9 maaska silver filings, 9 maaska gold filings
9 maaska zurd sunkea, 9 maaska shere,
pound fine place them in a china saucer
& take distilled ^{or filtered} water & soak the above in this
& cool one night & cook in an Atiskee then the
next day repeat this 14 times try on silver & copper
& if it does not color well go on up to a 100 times.

Alkeer for gold

White Kuteya

3 seers of $2\frac{3}{4}$ seers of ~~Kuteya~~ juice cook from 1 to
5 tolas of Shingraf in this by churning & beating strongly
then take $\frac{1}{2}$ pow ^{of this above} & $\frac{1}{2}$ pow shora pound together
Place a tola Shingraf in this & burn in a sac of ~~ph~~
take it out & burn from $\frac{1}{2}$ pow to 2 seers of berec ka
glee in a thin iron vessel or cup then 2 pie in
it at a time so that it shall be covered by it after $\frac{1}{2}$
a pow has been expended try it on silver & keep on
burning & see till it colors. - if you cannot get the
Kuteya juice take ^{how much} Bindal, Goosrayon, Fourree & ~~ph~~
soak in ~~Kuteya~~ juice 2 seers & strain through cloth.

Shingraf -

Take white onion juice with this make chuna, ^{1 lb} like
thick mud place 2 tolas or 3 tolas or a chataur
of Shingraf in lumps of from 6 maas to a tota in
this place $\frac{1}{2}$ a seer of dry pounded chuna above
he low & ~~burn~~ ^{heat} in a handee on a chula for 4 pulas
as you do Ketchere, repeat this 3 times. - Take
6 maas of this Shingraf take 6 maas
of the scrapings that are taken off ^{by the razor} from
shaving mix this with the yoke of an egg place the
lump in this throw away the white & fill the ^{shell} ~~space~~
with another yolk place 3 Kuprowtes & burn
in ^{one} ~~how~~ ^{opta} repeat this 7 times & commence trying
on Silver from the first time & stop when it colors well.

Kutcha Jolmoondra for short lines
orad ka tal ka ahlak powdered in blood
& subbin pinic for such time as to make
it soft. -

Good Jolmoondra -

Boil yellow wax in water till it sinks
after which pound it in Borog ka, Prepal
ka, Pakur ka & gooker ka doodh till
it becomes pliable & draws out & contracts like
Indian rubber. -

Jora of Silver

Just 1 tola, Parch 1 tola, Sunkea 1 tola,
melt & mix the Just Parch & pour it with the Sunkea
in a tola Shohod & 1 tola misree when well
mixed enclose in a silver Samput weighing
2 tolas so that there shall be sufficient room &
no more for the medicines place a moottake
mukke Kuprowtee over it & then enclose it in
a strong Pukka crucible which cover over & burn to
fill up the space between the crucible & the Samput
with good clay place a Kuprowtee over the whole dry &
burn in 7 oplas if the whole melts into an
uniform mass & the crucible does not burst use 1
massha to a tola ^{of silver & a tola of silver} & you have for a Bi sagh.

Sona Ka Jora -

1 tola Inkhee Kirtab to be well powdered for
2 pindus in ghee gwar juice ^{and} weigh ~~the~~
~~burnt~~ in $\frac{1}{2}$ pind ~~of~~ plaster on an
equal wt. of silver burn in 2 deelas in a sec of pla
mix with 3 parts of gold Vahew purified then on
1 Rotee of Rang Ka Kushta. —

To color silver.

Pound 1 tola musul in 2 tolas of the red juice i.e.
the Teph Ras of the ghee gwar (this will take about 20 deelas
of ghee gwar to obtain) place 6 masshas Sambar powdered
above & 6 masshas below the Teph in 2 deelas & burn in
 $\frac{1}{2}$ pind of pla & use on silver (it will become red like ruby). —

Silver white Khath -

Take a chat: of the lobbokee of the leaves
of the Kuppas ^{C.E.} cotton plant first quench a
cupee 6 times in the juice then burn in $2\frac{1}{2}$
seers dpla in the above lobbokee placing
2 Karpooties over it; repeat this 3 times the
4th place 6 maachas Jeyēā merich above
& 6 below it below it pounded & enclose
in the above lobbokee & burn in a kula in
10 seers dpla Khath koga - mix 3 maachas
of ^{Khām} ~~Pach~~ with 1 tola Pach pound in ag ka
doodh 1 tola burn in 2 seers in 1 how dpla
mix the muske with ^{equal wt.} copper Khath (previously
burnt in the Sudee juice 5 times) pound & burn
in Sudee juice & burn in $2\frac{1}{2}$ how dpla repeat this
21 times use on copper for silver; if you like
get 1 chāwāl of the chandee Khath not more it has
the usual effects, for Sona Khath do the same
as above for the Chandee only use 2 coffees
sona makhee each time pounded & placed
above & below instead of the Chandee muske
use the Sona muske to mix with the
copper Khath repeat the same operation

21 times use on copper & silver for gold.

Yellow Snaker

Yellow snaker 1 tota Parch 1 tota round
in Shulleedae Shour juice make a
Ball & suspend this above $\frac{3}{4}$ seas of
Shulleedae Shour juice in a Kulle
with an open cover burn gently over Brothel
the Parch & Snaker will melt & drop through
the cloth & the bottom of the Kulle & form
a white stick when the milk is thoroughly
dried ^{take the stick out &} use on Copper for gold.

gundak.

6 maschas Laboun juice, 3 maschas
mal Kungune & 1 tota gundak. - fried.
remember to use 4 tota Laboun juice to 1 tota
gundak for poluondra.

Poluondra

ma Khate, Loha ka meil, Fillee of the
goat & wax.

oil of Mustal.

6 maschas Kale Paharee til & tota Mustal
extract by Mustal Jantar.

Baitoh - of Muskeh in Durāb alces ^{See}
^{Muskeh. Sep.}

remember to use Shin underneath about 4 lotus
to a tota of Muskeh & use twice the wt. of the
muskeh of Shaga. — after burning in Kanch
& Shaga in two Decas in 8 pice wt. of oil
repeat this last 3 or 4 times.

Remember. See further back
Muskeh's of Shingraf; & Just Parch.

on the Shingraf use a lep of 2 maschas
white gong chee seed powdered in Tictain
ka doodh & if this is not procurable
use ag ka doodh each time of burning
hollow the time from above, & give
the Shingraf plenty of room to go down
so as not to destroy the lep -

also observe that in the Just Parch
muskeh you place it - in a loob & see of
about 6 maschas of the Kala Mukoh.

Each time of burning.

use dung of Foxes mixed with oil. & Rubes rubbed on the
parts in a peppary for 2 - 2 - 2

Memorandum.

recollect my Burkandaz Shāhāmūt Khan who
on my coming away was sent to Thaneh om la
zillah Bareilly. —

recollect my servants Hoormut alee &
Isree Pīshād both of Bareilly. —

also: Āmān alee Khan, Kūmbōo of

Bareilly. — & Rāhūt alee Khan

Kūmbōo of Bareilly. — also Mirza Bobot Jung
of Bareilly. —

To strengthen hair that is
falling off —

3 parts water & 1 part Pyroligneous acid
mix & rub in daily into the roots of the hair.

Remember Mirza Bobot Jung of Bareilly

has been reported what the tale they tell in which I am concerned
that is lot white fruit & green in water in which I am concerned
Prepared 1840.
2 lbs of Sulphur 4 oz, pure salt of Soda 4 oz,
a Shatla - or the Sulphur 4 oz, Soda 4 oz,
Dried Sulphur.
12 oz well & mixed with

1. *Alkaline* 603 *Imp. of the same in a few heat.*

Alkaline of Bicarbonate of Lime

Sublime Bicarbonate with an equal of Sal ammoniac or water
of Bicarbonate we give either a liquid or merely in things

White precipitate of Mercury

Alkaline Mercury in Aqua fortis & precipitate with Salt water.
a count for taken years

The finest - still be dissolved in alcohol - or pure water
deposited in a test or apparatus as a solid.

Crystalline Mercurial Precipitate

Mercury purified by Salt & Brimston 203 strong aqua fortis 803
distilled by alcohol coloration till all is exhausted, a few more if
oil of vitriol 203 digest & abstract the oil, a few alcohol
digest 3 days & decant what has 3 times with fresh alcohol

Black colored precipitate of Mercury

Mercury 15 aqua fortis 203 boiling water 303 Lipidus of Mercurialite
with fresh water wash 100.

White precipitate of Mercury

White aqua fortis with Mercury till it becomes as in 3 or 4 hours
times use fresh stronger water with time, deliquescent alcohol of it.

Space of time

For things 403 a few as it in a large glass spirit 1 Water 303 &
oil of vitriol 203 stir it with a stick, dilute the top with the
alcohol 1003 & make an space of a few yellow
which decant & filter for use. - observe to heat the reaction
by drops or water of Mercury & alcohol use the Alcohol of the
and spirit of salt ammoniac.

As much Sal Ammoniac mix & sublime, the Sal
Ammoniac will ascend leaving the mercury & other
like pure gold at the bottom, sweeten by solution or elevated
it will become red. if put in a crucible it will turn into glass.

Fluxed filtering Autumny.
Autumny & white sugar w/ Salate & wash & dry; let it
again with an equal w/ of the again wash & dry; again let it
with an equal w/ of it; let it; but this into boiling water, like
& precipitate with 5 pint of vinegar & wash & dry it.

Mercuric gold.
In mercury, sulphur, Sal ammoniac equal w/; mix & wash
at 2 parts to 1 to that of each the other, or 2 parts mercury
to 1 part of the other, the lesser the better the color.

White of An.
Let this be the tin let over fused sulphur or sooth of in
Cautious Autumny. Let the be 15 lb for 24 hours
take away the top at bottom & the matter is called Lemme.

Regular Autumny 103, Aqua Regia 33 digest in a bag of 3 lb
of white sugar the A. R. wash the bag & dry when
black. or this - Burn the Regia with the burning glass till it is gone where.
The brass given made by common salt is the best -

Cinnabar Autumny.
To make the better of Autumny mix equal w/ of crude Autumny
& cinnabar sublimed expose the about mercurium to a
strong heat & the cinnabar will sublime.

White Phosphorus of sulphur
Celestine Sal Ammoniac for 2 hours & take of it 33.

Red silk ribbon
 3 1/2 lbs. powder of Gun 6 lbs
 white colored yellow
 mixed it with a nap or ^{fine} ~~thin~~
 white ribbon & mixed with as much of the
 gold & dried it
 a Preparation for the
 of the 6 lb.

(Faint handwritten notes, likely bleed-through from the reverse side of the page.)

Immunine Seed with mercury

[illegible]

to this add water & a white powder will precipitate
out the (which is the resinous salt) and take the
water & distill it till you get a yellowish clear liquor
which is Chlorophyll Spirit of Vitriol.

Chlorophyll Spirit of Vitriol.

Take the cream made by the last receipt (see the
103, Chlorophyll Spirit of Vitriol (see above)) 2 oz digest
in Vitriol the 2 tinctures together & abstract & the
thicknap of honey from the 2 seas another tincture
with alcohol & a salt with water abstract
the alcohol till it is like oil & add the salt
purified which digest. —

Magnesium Bismuth.

Take the Bismuth in Nitric acid & precipitate it
with salt dissolved in water & wash the precipitate with
dry and filtering paper.

Softener of Colic.

When colic is relieved by cementation with Sulphur, heat it
in hot & quick in dissolved oil over the fire immediately
& let it lie till cold, have oil enough to cover it
& wash & quench in this till the oil is consumed
Meaning to cover it with oil & wash it flowing.

or thus —

Reconvert the red calined oil with Sulphur
that is strong & brittle, 3 times, each time 24 hours

the mercury

Structure of Bone -

Alphabets are filings in aqua fortis & alcohol, the aqua fortis
grinds the harder & calcareous with water till it is sweet
when the tongue, on the hour distilled wine vinegar & sugar
40 days in water & then a sacchar, till the powder is
reduced & the liquor is black & sediment harder it is
stronger & it will be a black sediment structure -
light it is alcohol till it is black & sediment almost to
blackish structure of Bone -

[illegible]

Confound oil of thong.
2nd they, a little which 1st, alcohol in the Tarter
the spirit.

Silver cleaned by Reverberation.

Alloy of silver made with aqua fortis 103, Salt 203, Sal
Ammoniac 203 and reverberate 10 days & wash it.

Silver cleaned by Concentration.

2nd to remove sublimate & that silver in least cement
till the necessary spaces the silver will remain like before.

or thus.

Silver filings 103, flux of Saltpetre 203, Salt 100
mix & trundle, mix the sublimate with the Caput mortuum
& with this mix trundle 8 times, then let aside the sublimate
& wash the salt. or thus.

Filings 103, Salt 403, a lb, mix & cement for 1/2 hour.

oil of ether

Alcohol filings of ether in spirit of salt & distill.

in the red oil

Take the same still & mix & separate it with cream of tartar
& distill it with aqua fortis in a glass still & increase the
fire to a great heat. If you have the red oil, 183, well
& receive the Caput mortuum. In by heating the matter
with this same oil the ether may perhaps be separated by itself
or purified from its blackness.

Red oil of cam.

So made as above for red oil of ether.

The Dying of Copper

Take the red about *Portulaca* & copper from above parts extract
 it with water by percolation, pour on the spirit of salt.
 Ammoniac in wine, stir it & set it well, rejecting
 the *Portulaca* times, then percolate it out with
 purified salt ammoniac 2 parts, put in 4 or 5 times
 in a glass vessel in a sand bath (stopping the mouth of the
 vessel with cotton wool), for half a day the copper will
 be covered of a golden color which you can certify
 with *Portulaca* (i.e. the salt *Portulaca* of blue color) or
 its own color. *Portulaca* & *Portulaca* 3 times more.
 N.B. The method of washing in Aqua fortis to dissolve other
 is by distilling a liquor of *Portulaca* 2 lbs, Sal ammoniac
 = wine 1 lb, mix together & percolate with 3 times as
 much Ale.

Copper Dying

Calcine Steel filings 4 oz with Saltpetre 2 oz for an hour
 pound it on this digest oil of vitriol for 3 days separate
 this in a crucible & evaporate for 9 hours & remanent
 hot in cooling it will become as red as copper.
 or thus.
 evaporate iron filings 2 lb with salt 3 lb for a day
 wash at the full & evaporate for 10 days & give every
 will be as rich daily to the assay.

Chloride spirit of vitriol

Take 13 lb of Antimony (made by distilling Regulus of
 Antimony with an equal wt of Corrosive sublimate)

A note to Rev. Mr. [unclear]

from [unclear] [unclear]

Alcohol pick glue in alcohol to a mucilage mix
this with flowers of sulphur, beaten finely powdered
& Cinchona ground in milk to a lotion, lay this
within the neck of the bottle & in the month & dry it.
or thus -

Mercurius, fine Bone, Venetian Turb, Gum
Sassafras, in fine powder mix into a paste with
finest oil.

A yellow pigment from Turmeric - (for painting)
Spind 1 water 1st Turmeric, 10g salt water, but the
the water is well stirred, filter & add it a strong solution of
Rock Alum, this will precipitate the yellow matter, pour the
whole on a paper filter, the pigment will remain on the filter &
must be shaken with the water till the water is without color &
then a color for painting with, by the action of the water from

To make necessary of silver

Take the ~~water~~ that remains after making the salt of silver
(see below) digest this 40 days in spirit of tartar
then from a glass vial distill it from filings of iron
into a receiver with cold water which gives you
the necessary silver - or you may immediately distill the
Common Mercury with silver till it will no longer
salt silver & acerbated salt with & carbonate

1st Honey, 2nd Oxy. Cheimik wine, distilled with a very thick
 burning spirit & Distillate of Honey.
 black they appear - the distilled liquor is the burning spirit of
 Honey. - Take the Residue & an equal wt. of Calender
 which however or sand. Distill by a gradually increased
 strong fire & you have a Spirit & a stinking oil.

Honey oil & Spirit.

Army, and -
water & the boy have to one half, having
1st Army, in it please if in the Sun till it gets dark
Another look at this and suppose find it & then

[illegible]

From this I can make aqua forti made of Nitric acid,
 subjecting it to steam, the last time increase the fire till the
 matter boils, with distilled vinegar extract a linear
 twice from the crystalline mass, the iron will be that of
 a the mixture of a sediment of silver will remain from
 which you can obtain a red copper.

Sweat Disease (purifying matter)

Sublime arsenic by itself, take the sublimate
 & heat it in a crucible till $\frac{1}{3}$ is evaporated which
 does it from it blacken then take it up & mix
 with the scales of Arsenic & sublime which when
 done 3 or 4 times so will it be good from it proper
 twice or 3 times Sublime 2 or 3 times with
 Ocean; lastly Sublime 2 or 3 times with
 Recrystallized salt in a bath as in a sand furnace
 & a gradually increased fire when all is distilled
 out back the vessel back the sublimate & throw away
 the remainder - on melting & mixing it with (water)
 it whitens them & the whiter it remains it is good therefore
 it is important in sublimation make them black & white
 them with a brown sort of tincture - it is that to be an
 antidote against poison in a very few ~~from~~ small
 dose.

Notable gold.

Gold 103; Quicksilver 6 oz mix & heat with a
 much common salt melted separate the
 mercury knock at the salt with water heat the
 remaining salt with cinabar 3 oz. Repeat 3 or
 4 times in a crucible with a hole at the top till the
 cinabar remains about this 7 times with
 heat cinabar till the gold becomes like a
 red sponge; sublime this with 8 times it is 151

mix & with water make a paste. - or sand, others with
 Horse dung and small 1 lb, Salt 4 oz, glycer in powder 4 oz
 Sand 5 lbs, soap 3 oz, green kumars 5 lbs, or the same in powder 5 lbs
 2 oz madder bark (coloured with) date for coloring glass vessels -

Lime 103 white starch 103, others with in powder
 date for coloring glass vessels -

white paper & use quickly or it will harden.
 with Quicksilver (or lime green) in milk) with
 date for coloring glass vessels -

& mix with milk which make smooths.
 so close the mouth of the bottle -
 called schistus or fire stone & each equal 15 lb forster

others with dried, Roach alum, a kind of oil
 date to make smooths of

103 pound together & dip in soap boiler dye
 green without alumina to adrop 2 oz, Sal ammoniac
 3 oz, Quicksilver 3 oz, Antimony 3 oz,

Lactic - (not found)
 full alcohol till the 15 or 20 must when bottle it

mix there with Alcohol extract a tincture till
 it ceases to be colored, dip the remaining
 salt in distilled vinegar again extract it
 tincture with alcohol; mix all the tinctures
 bottle in an amber bottle till the oil dries

13th prepared Sulfur 1 lb in Nitric & Ole. distilld
 in water for 24 hours filter the red tincture &
 precipitate with vinegar in which the Apot. Mercurium
 is dissolved has been boiled (Sulfur gone which is
 much) & this will give a scarlet colored powder
 from which with spirit of wine extract a tincture.

Preparation of Sulfur

Diploze Sulfur in oil of Clove, Cayote, or Sand by
 boiling, then evaporate it into a red snap, on this
 digest spirit of Arine (imp) till the spirit is
 tinge, pour this off & put on fresh spirit & wine till all
 the tincture is extracted, put all the tinctures together & let
 gently till a blood red tincture a digester remains
 at the bottom, on this digest about 9 you will have a
 layer smelling like garlic, if you digest for a month
 it will smell like balsam & if for 2 or 3 months
 like much or anthers.

Butter of Arsenic

White arsenic 2 lb, Corrosive Sublimate 1 lb
 distill by a retort, & you have a thin spirit
 & a thick layer or butter which will smell
 like Arsenicum. The thin spirit separates in

in a pot for a while one gets inside
 Salt Ammoniac, wash it with water; then take
 alcohol 12 parts, Spirit of Salt 4 parts, heat may
 distill them into this mixture the red spungy cake
 or the sublimed cake & digest till it is dry
 if you distill off the alcohol you will have a yellow powder

or that -
 Calc of gold made with aqua regia & strongly concentrated
 by heat till very brown and volatile salt - urine
 which is made by evaporating very limp & alcohol & the
 substance of honey, like this will distill over that will
 & a white spirit (digest 40 days in a closed vessel
 concentrated in the cold) like this all fresh liquor
 till the liquor look like the maximum is no longer tinged
 reject this till the maximum is no longer tinged
 put the solution together & distill off the maximum
 then with the spirit the same we again & then will
 (which keep for the structure that -)

Calc of gold digested with Spirit of vinegar in a water bath
 which results with alcohol. This
 Calc of gold precipitated a rather quick & volatile this salt 20 times
 to repeat with alcohol, alcohol the alcohol & distill the
 or those with alcohol, alcohol which digest for a week &
 residue in spirit of salt which digest for a week &
 Abstract. -
 Cement for purifying gold
 vulgar cement

Proved thick 1 oz, reduced salt 2 oz, Nitric 10 oz

Spirit of Salt of Slopout.

Take pure salt (the best) that comes from Germany or Hungary & mix it with common oil of salt by this waying mix the way & repeat this operation till the salt becomes by the golden color & sweet scent that it is time to distill when place it in a glass chamber & distill it off the spirit which rectify, it is said to be more the true nature of gold without loosing the body of it.

Salt of Coral or Coral

Ornith & diaphane in fine piece filtered, or distilled vinegar or when piece filtered in spirit to dry up. - To make the salt of coral some calcine the coral till it is white which will take a very strong fire for 3 days, then diaphane & digestion for 8 days with vinegar or lime juice in a gentle sand heat.

Flowers of tin.

Calcine tin by trinitating it with melted ^{for 3 days} of this powder take

Black of Sal ammoniac of short substance.

Calcine tin in white acid then add water till it precipitates when with powder all the acid away & dry between blotting paper in the shade

Salt of tin

Take the flowers in distilled vinegar, evaporate the

vinegar, become the acidity of the vinegar with alcohol off it 5 or 6 times every fresh alcohol each time.

Asenic 12 gr; Nitric 45 after mix 28 gr. ^{however charred 1 1/2 gr.} previously
calined with a hot coal 9 gr; con pling 6 gr; &
mix & melt in a crucible which shake to let the

Distance 1st, Salt of Sauter $\frac{1}{2}$ lb. horned together
 & mix with 1 lb of soft soap place this in a
 covered crucible having a hole at the top, with

Keya Wastone

Chronic, like, Doctor Equal ^{with}, turns into a red her

salts with hot water. Do you have a white (red)

two!
Caustic Phosphoric

Young leaves are
eaten but like if not & having it & again kept

Strongly for 2 hours back of in not seen in a
Stephen's little. —

Living gold.

Dissolve 20g gold in 80g aqua regia & 12.0g quack
silver in 24g aqua regia & mix a black precipitate
will ensue. Pour off the spirit & keep the still at a
red heat for some time, if any thing shall have sublimed
mix it with the remainder & dissolve it (stirring it)
in a crucible with an iron rod to stir with; wash & dry
it with warm water & rectify with alcohol with many
distillations. - Some use from 6 to 12 times as much mercury
as there is gold. - (This seems an almost universal remedy in olden times)

From 6 to 12 parts mercury to one part Amalgamate. ^{a fluid}
Stirring it, wash with water & rectify often with alcohol. -
Salts of crystal. - ^{crystal} oil. (or of any other thing)

Found & calcine in a strong Rectifying furnace for
12 hours, when cold reduce to an impalpable powder
& mix an equal wt of pure Nitric acid than in a
crucible covered with a tile for 2 days in a like furnace
then cold reduce it to powder, throw it by spoonfuls into
a kettle of boiling water which boil till it is the water
is consumed, filter while hot through a German paper
& then evaporate gently stirring with an iron stick
in a gentle heat dry it. - In the oil leave it in a
vessel till it is thick. - in like manner you can
make the salt of any precious stone as the Ruby, Topaz,
Emerald, Diamond, Coral, Pearl: - for the precipitate

aque regia is white. Decant the liquor, wash the precipitate with clear water several times, but the precipitate in a
crucible till nearly or about as light as the precipitate & you
will have a purple color. Put the precipitate in a glass
plate place in a large crucible heat gently to dryness &
suck out the spirit the color of then till it melts &
from like water. Heat it thus till it becomes white
colored which will take about 1 hour, take it out from
with powder & with alcohol extract a red tincture.
The remaining salt melt with tart & honey with
Antimony when it will become a yellow color.

oil of Sale

Distilled Sale & Filter coloured with the yolk of
its black layer over layer. Amant in a distal
crucible for 6 hours, the crucible being red hot,
honey & extract with spirit of vinegar filter,
congratulate & leave it in a warm place to melt
it is a splendid cosmetic or Shino.

Direct finely powdered Mountain Sale in vinegar spirit
for a month in three days adding daily fresh vinegar
till it becomes mucilaginous, distil from a glass
retort the vinegar comes first & then the oil which
is white which keep in use, the face being well
washed & then this applied it is said to retain its
whiteness for one month without renewal & to be
worth 5 £ the oz: -

Bathurst & North Salt.

Well it then like we indicated water clear & cogulate
most or the fine white & cogulate which these sections may
again, before the salt-beans very fine & wide well as being
put to the candle.

Pickle Salt in a Crucible, take it out & package it in
 which is not of us fair sugar again mix with the salt & make it in a
 sugar, mix this with powder of plants, & pick it in a
 sand bath, you will find have a yellow spirit & then a set of
 sweet oil of salt.

Rec'd of Salt

Common oil of Salt. —
 Sifted in water
 Gray Salt 1 lb or 2 or 3 parts of powdered bricks mix &
 the distill in a glass still in a naked fire
 over the fire ^{by water bath} by distillation
 with a large receiver. to improve it pour it out hot bricks
 in it several times & distill again by the process if necessary. Solved
 of gold. —

to turn up by & to discolour water mix your post of
with this water adding as much color as you please from
the tooth in a bowl made in two pieces with a small gap
the centre of it & by the stroke of the
the colour of the impression itself.

Recipe of Salammunna

One half pint of oil of cloves 1 oz, ^{volatile}
 salt of urine, or of horse kelp, cows horns, plants herbs, ^{volatile salt}
 or hair, or of flesh 2 oz, - mix the ~~urine~~ with the oil
 then add the water & keeply adding & take the Salammunna
 from the water in a vessel in water with an iron pipe. -

Salt of Iron

Salammunna should give some filings of Salammunna mixed
 like the the salt of iron in water. After & coagulate -
 use the Salammunna once again on fresh steel filings -

ground iron filings with vinegar to a paste when ~~the~~
 round the idry again washing again round the dry
 the it becomes a a sweetish taste; now pour a pint
 vinegar & boil good & evaporate to add fresh vinegar
 when the vinegar is well impregnated, repeat & file
 it & evaporate in a water bath & crystallize it, when
 these crystals in alcohol digest for 7 days & distill off the
 alcohol the salt given will remain -

old recipe
 Salammunna salt 2 oz, alcohol 1 lb. mix them in a vessel
 close over firing has cover it with a sheet of white
 paper & digest 15 days, dry the white salt like gathering
 in the sun & stir with an iron spatula keep in a close

you have only to add salt to the solution in hot water
 which precipitate will & dry. ^{by digesting} ^{in hot water} ^{some of it will}
 Distilling with alcohol the pure salt, some of it will
 rise when this with the pure alcohol the all over that will rise.

Spence's Crystal.

Crystals crystal alone & quench in distilled vinegar
 then volume for 12 hours with Nitric, & this salt (crystals)
 4 oz, add spirit of vinegar 10 oz, digest for 5 or 6
 days in water. ~~the~~ with Nitric for 24 hours,
 the white oil & digest the red oil with
 Alcohol & decant from the dregs & keep in use.

Spirit of Quicklime.

Put it in a bottle of pure
 Quicklime (crystals) & a quart of Nitric
 to make the lime rising & take
 alcohol from it 12 times, to make the lime rising & take
 it 10 oz; Salt of Tartar 1 oz; Spirit of Nourishment of
 Tartar first heat 9 oz; mix it in a little alcohol
 not quite to last. Filter, distill with a receiver joined
 by a neck. The first will receive the Oil of Tartar
 the first part of the spirit which will only
 rise with a strong fire. It is difficult to separate the
 spirit from the alcohol you must either distill it gently
 off or let fire till burn it off. - so

Simple & compound Distill.

Simple; Spirit of Oil of Nitric, mix & coagulate. The compound
 is made thus Salt of Tartar, Sal ammoniac, & the Common Salt,
 gum there are 3 kinds; Mastic & Rock alum

Place 5 or 6 lbs of ^{actual} Nitro. in an iron pot with 4 lbs of ^{thick} oil
 if ^{a thick} ~~hundred~~ ^{thick} charcoal till it ceases to smoke & then
 & remains greenish colored till it no longer smokes or burns
 mortar & put it up in a stillard bottle or jar
 by solution in water filtration & drying -
 to make of this a black salt.

Revised note (carbon) 1 lb & spirit of vinegar 2 lbs digest
 for 24 hours, distill off the spirit - add fresh spirit of vinegar
 digest & redistill again, repeating this till the vinegar
 comes off with the same sharpness it went on - when the
^{has} pure alcohol made from spirit of wine digest for
 4 days when distill in a glass alembic till dry, this
 will remain a resin with like tale which will melt
 in the heat like wax & is soluble in all kinds of
 liquors containing the fixed rate incorporated with the
 acid of the vinegar - ^{in one or 2 samples in nature of}

Salt & Nitre equal parts lay 1 lb each well together
 then throw it on live coals in a large
 crucible over them in the bottom which place
 a wet cloth - took off the substance with
 a spatula. -

I think Nitro is best when burnt best heat for 24
 hours to the highest degree. -

Digest (Antiseptic) Sale with the green spirit of Salt &
 carbonate till red fucine come out - to make the oil on
 spirit of salt; mix fine powder of bricks with one third its
 weight of dry salt. Diposed in water dry it & distill
 using a large receiver of a strong heat; - or that much
 red hot bricks in salt. Reliquies in a moist place
 after separated & then distill the last gives the green spirit.

Digest with alcohol & carbonate by many times till it takes
 white in the digest. Antiseptic Sale for 4 months in home
 black liquor appears. This is called Philosopher's spirit of
 sediment & take the acid water. distill this till a yellow
 takes butter of antimony with it with water, let aside the
 through the Alembic or thus.

2 parts of salt of Satar 1 part. Antiseptic Sale, mix it in
 a moist place to melt what remains cement with
 4 times its weight of water, the Sale will melt into a
 clear white soap which will be in equilibrium but it
 to a strong liquor, this water is corrosive but it
 must be washed off down with a dissolution of heat & has
 lost its corrosive power.
 or thus.
 White Satar 20 oz, 20 oz.
 Salt 10 oz, Salt 10 oz,
 Distillation of Sale.

any the order also granitic with when melted
with Enigmatite type of a rusty color. -

Heavy silver - from copper. (have these small copper
cubes with 2 it is of a yellow, molten mass in air things by
degrees, this will form silica at the top leave the silver at the
bottom in a lower state. - what you find with lead often mark. -

Count for Enigmatite & for increasing activity.
Alkaline 2 oz of Barium in a pint of water. mix slowly
time in that sufficient to make a creamy consistency
lay it on the crucible with a brush when dry again place on it
the following cement take black lead or a pound, line with
the it becomes a paste plaster this with a brush over the
other when you use the crucible a second time add some
fresh cement. (for good set)

(for good set) A Powerful Plug (in use)

4 oz red lead, 1 oz white sand powdered, 2 oz dry bicarbonate of salt
ground together well, & melt in a clean closed crucible in 2 or 3 hours
or more when cool separate the salt at top which set aside
& keep the pure glass of lead which will be at the bottom
as a plug. - use it in making guns, making up castings, &c
in pumping good & when. -

Black Plug.

White Plug, common Indian Plug, burn it out &
refractory the whole by lighting it at the top or the
close it & heat till it softens & then black
burning this & keep in softener bottles

stitch bottle

Report on Kings 14 in 2 lbs oil of cedar 24 hours
extract, filter, evaporate & keep in a bottle

Experiment

Quinine 4 lbs, Alum 2 lbs, extract (Korea) 2 lbs,
put with white or black iron, digest for 10 days, then take
to cloth, the which add as much of the above liquor
as will cover it in a kettle, boil it half away, then it is
evaporated. It looks like a white string & evidence it is
used to cleave metals & to make them soft

Alum & tartar
Cavaleri & the tartar & tartar crystals

oil & salt. (This is the best for making
the yellow, green, or blue blue & short silver & silver
with white & black, with well & well. The oil of lemon like
rich & water for 5 hours & 4 hours in the oil in
glass in a crucible, form & dispose in the oil in
make 4 or 5 or 6 times as much tartar as you do
Alum & well as above - 8 makes the tartar form, alcohol
on the lower end of the test in a quite hot, shaking the stopper
the oil becomes red. According to the alcohol & heat now on
till it ceases to become tinged, but if the alcohol in
a water-bath and a red tin plate will remain in the test
to make with 1 lb

Alcohol and in some cases liquefies. The oil of lemon like the
to make with 1 lb

To make Smilgin Blue.
 Take Tart & White 4 oz each precipitate & make a sized pill - then
 add 4 oz of strongly Oxid powder of Chloro, & leave this mixture
 in a close vessel which is only filled two thirds, guided by in a
 mortar, & when in boiling water & steam off the water, & wash
 & separate to 2 Quarts; & when green which is almost
 Whiting 1 oz in 6 oz rain water & fill the 50 lb tin; & before
 the 2 1/2 lb I made alum in 2 Quarts of boiling water add the
 & the solution & alcohol taken out from the jar, adding also the
 last-dissolved matter in a large vessel a great solution with
 to the blue & a green color came; during this solution pour the
 mixture from one vessel to another & add it wet, then strain the liquor
 in a linen cloth & keep the pigment in sediment that remains in a
 the cloth take it off with a wooden spatula & place it in a
 now smile pot & pour over it 2 or 3 oz of Spirit of Salt & a
 beautiful blue will appear stir the mixture well; let it rest for
 a night & till the precipitate subsides & decantate into rain water
 place it in a linen strainer & dry it when it comes to dry in the
 & if there be that the smelter at first the water gradually then partly
 & if there be water again & a little heat & that liquor is mixed with
 only let out with the greatest expedition.

weaken it by adding more oil if the light in color add more of the ~~purple~~ ^{purple} & dragon blood.

in it also mixed in water & made into a moist ointment.

We know these for quinine & bark from
in their skins the oil -

to have the white.

The white juice three 6 marks tall
round in this water below it in 2 marks from in a Beer
of oil after the two has gone out may this with
Bark & the oil in three three pieces.

but the following Mark in the white Mark.

Mark ka Mark -

Take the juice of the *ferula* article

round 6 marks Bark in this make a ball in
a crucible over the fire & again found the
ball & ~~put~~ in this piece again but what they
times then however if 2 pieces of *ferula* Rad
close the glass & burn in 2 1/2 hours & may the
Mark with the Mark Mark & then a copy.

A powerful compound that for ever.

Before Write by long boiling in lime water. Take other
that, common salt melted first in the fire that, &
white sulfur that, poured together & continue them to a
white powder; & then weigh it & weigh an equal wt. of lead
glass; use that 2 parts to one of the Stibonnet and.

Do Saline that for ever where Sulfur
& Collet with.

The strongest Sack before does 4 lbs, white Sack 1 lb.
Common salt previously melted in the pressack 1 lb.
Tie them together in 5 gallons of hummer wine for a
very salt.

Compositions for hummer & Sulfur

(with about 10 to the cat.)
2 parts of fine clay & that sand sifted, mixed to a powder
Mixtury of ground Stourbridge clay (with about 6 cat)
7 parts of like clay that. - Dry them & burn in
the weak hummer. - Do Saline Write - Dry it.

Concent - Write with the Saline that poured together for 6 hours
or there. - with it from the water by
Evaporate then increase the fire to make it more what the
Repres then increase the fire to make it more what the
5 times always using fresh acid. or more during
acid at all use alcohol from the common acid & Sulfur
or there.

Write in powder made with white & eggs, dry it
melt in a strong fire & pour it out. - that poured & dried

Does not like if Gravelly was in my house.

Silvery Plover - lived at Gumburka Sivaroon ka
near Porren Mull's house: trilled of single, white
Mark of upper part, of foot black. Mottled blue & white.

shows that it immediately with the remaining
rath after 3 hours the just, black becomes
a yellowish colored black & swell up but it does
not mix with any water on being melted.

Plumby Salts. Sal Ponce.

Take 1 lb of purified Nitre, melt it in a crucible till it flows like a metal, & then mix it by little & little at a time 2 oz of Arsenic, when it is almost hard, the white into a deep basin, then add Rock in a glass bottle until it is full, then pour any heterogeneous substances close stopped. - The sulphur being any heterogeneous substances that may be in it & if carefully thrown on by only a little at a time the it immediately takes flame itself will not explode the Nitre.

Glaze for Porcelain.

One part red colored Silex, 2 parts, 10 parts Borax, 4 parts of dry sand, 3 parts Nitre, 3 parts Soda, & 3 parts Cornwell China clay, this mixture to be pounded together & melted to a put, & then the ground to a powder with the addition of 3 parts Coloured Borax make a paste for dipping with sufficient water, dip the Porcelain in it & bake.

For a harder glaze than the Common.

4 oz of Coloured Borax 1 oz fine white Sand (powdered) melt together in a large glass crucible, in a strong fire for an hour or 2. This glaze will cut the Common glaze.

A color glass. A solution of gold in aqua Regia, with a large proportion of fair water to dilute a solution of tin made in aqua Regia diluted with water & this is poured into a shallow dish & a number of glasses will fall because the liquor

Sunka white 1 1/2 lbs. Neel 1 1/2 lbs. Indigo 3 martsas,
 Belawan 9 martsas, Semalghata 7 martsas,
 Beringing 8 martsas, Senok ka bay 10 lbs.,
 Agwan See 10 lbs., Nakhā Seengee 6 martsas,
 Joter 4 martsas, Seemhe ka chura 1/2 lbs.,
 Sheegwar ka murgus 1/2 lbs., under Katal
 6 tolas, Jante Kama 6 tolas, bound the
 Take also 10 lbs. Katal, Bopabee - which keep delicate
 Take a small kadee that will hold 6 or 7 lbs.
 of water bound & put all the above things sweetly
 the Sunka then pour them into the kadee which fill
 with water, suck the Sunka washed in 3
 pails of cloth in this 4 pails from the bottom
 place it on a cloth & from 1/2 a doo-wood
 (not more) gently under it - then place the
 ghura in the Sun in like manner from 1/2 a doo-
 wood under it the 2 day after 8 pails of water
 if in the Sun 4 to the 3 day also from 1/2 a doo-
 wood under it & place it in the Sun when

Sake Neck Cell Brown dissolved oil spirit that has not been mixed
if amount to cost $\frac{1}{2}$ fl. summer them together for 2 or
hours being gently & observe not to boil it till the
color is exhausted, then pourd $\frac{1}{2}$ Drachm of
Dragon's Blood in Curried oil finely & mix it
up with the above oil after straining it; use
this to dye wood with if the color is too dark

Tochter des Hofsorgers bei

If a ton of lead has a few lbs of silver in it melt &
 stir it with an ash stick. The silver will adhere to
 the ash stick, but observe not to completely burn
 away the stick & destroy it. The lead will become
 refined. [Inverted from Thomas]

get me to the
highway from the slink

Sitak or at the N. till $\frac{1}{2}$ hour - collect the best of
churns or a yard of cloth for ^{the} large way on the side
when it lands get a large hair's stone ~~to~~ wash the cloth
round it but the oil & burn the lunk in it until
become a yellowish hard. ^{Eng. M.H.}
20 lbs of Rhinoceros skins dry them then extract
the collagen the rest - take a lb of Bilex $X \frac{1}{2}$ take
of Sunk in water melt & throw 2 coffee of Indoes
on it still become a 3 amours

Feed the horse with that after the water
has been given him. About this 4 days he
will be recovered.

Childs hol, Sugar & Oak leaves in the
hot quirk makes back much. & I saw
the white. Sugar & Oak leaves in high then he
the better in it.

Wichmanns Road River does
at Natchaug. Bärgeier ka munda
near the station.

Remember Sunset Jostahar son of
Sifos Choudree he lives in the
Bärgeier ka munda at Onda
he has promised to teach me how to
make white cloth of cotton.
The plant seems from Onda to Kura
Kura ka munda. Bärgeier ka munda
therefore ka Bärgeier in Onda, he is son of munda again
the munda ka munda.

Keep the remaining part of the tincture for use in a close bottle

Sublime in filings of Sal ammoniac equal wth wth the
about 100 grains & coarsely to 100 grains; ~~the~~ affuse on the
alcohol & get the tincture which add a few drops of spirit
of salt & digest for 4 days; you may without working clear
the about 100 grains to liquefy in a sandy cellar
of this -
the about 100 grains mixed things, to the the about
100 grains & 30 grains first digested Alcohol 2 1/2 pints
of salt 2 1/2 pints for 4 days, but if in the house of
the tincture which decant after that added -

Mix of Sulphur (more of the Sulphur than the
Shower of Sulphur that quicklime or salt of tartar parts 3
oil there in sufficient quantity & water to the solution of the Sulphur
filter while hot & precipitate with either distilled vinegar or spirit
of Nitric then sublimate & dry.

Red oil of tartar.

Take salt of tartar impregnate it with vinegar till it will
receive no more acidity & on this affuse 2 Cologne Alcohol & seal
till it abstract the Alcohol & place the tartar in a moist place to swell.

(or continue substance) Sublimate of mercury vit.

Crude mercury vitric calcined, Nitric equal wth each 2 lbs,
mix & sublimate, mix the sublimate with Nitric & salt a little
calcined each 1 lb & sufficient wine vinegar to make a paste
the clear the vapour the yellow & separate a clear tincture.

Crude mercury 3 lbs, Sulphur 2 lbs, Sal ammoniac 1 1/2 lbs
mix till the mercury disappears but leave mix the
sublimate with its own process & continue do this several
times increasing the give each time till it becomes fixed.
40 grains of salt, Nitric equal wth the & alum a little
calcined each 1 lb, 3 grains & water with vinegar & sublimate.

Just. Just 2 total, Pack 2 total, melt & mix
 & burn in 4 gharres in Chirchella i.e.
 w/haykair ha aakh makh haat ha
 take 2 bar of Chirchella ha with keep
 a little out of the with, & place the remainder
 1/2 below & 1/2 above the haat in a house &
 the heat will below in 3 minutes when the with

be high for a long. —————
 choose & burn on it 4 or 5 of the above
 them together melt take coffee & 1/2
 now take out the Sunken & 1/2 total burn
 again with as before for another 10 days
 when again burn away the medicines &
 as before with the last one for another 10 days
 again burn away the medicines & cook
 above & then the Sunken in the cloth wrapper
 burn the top of 1/2 gharrae that place it
 for another 10 days when take out the Sunken
 just medicines & & what the same process
 then away the medicines & place them with
 leave it for 7 days after which take out the Sunken

rediggrade 10g may.

Royal Cement.

Boiled bricks 30g, Sal ammoniac 10g, Rock salt 10g, common salt 10g mix & mortar with lime.

or mud.

Plumwood 10g, coloured salt 10g, crude alum 20g, Nitre 20g, Vitric 20g, make a paste with distilled vinegar in this place the good plaster or plumb & place it on the following first preparation. Layer of powdered bricks mixed with coloured salt & on this place the cement in which the good (changed) plaster of some more of the powdered salt & brick. Place it in a gentle heat for 5 hours then raise it to a red heat for 4 hours more.

To receive gold by amalgamation.

First amalgamate Quick silver 6 oz with gold 10g & distil off the Quick silver which again mix & distil separating this till they refuse to mix. Then add 2 oz sulphur & calcine stirring it till the sulphur evaporates.

Spirit of salt of Taiter.

Salt of Taiter which evaporate 24 hours on a retort but melt it out & the salt will be blue till the vinegar is very old then filter & congeal on this with fresh spirit of vinegar till four times.

0 - 01 5 59
 0 - 0 - 001
 0 - 0 - 001
 0 - 0 - 46
 0 - 0 - 001
 0 - 01 - 76
 0 - 0 - 001
 0 - 0 - 007

July's Salary 542 - 8 - 0
2358 - 9 - 0
July's Salary 542 - 8 - 0
3340 - 13 - 0
Interest 11 5 - 0
3359 - 8 - 0
055 - 10 - 0
2639 - 7 - 16

1861
1000
Bryant
Bryant

I am of each before after forming separately in groups
 some, filter & compare the soil by heat. -
 for talic de the
 have a silver thing, this shape
 with a handle like into this space
 have yellow
 does not returned like when the heat & thick like off
 as great impression of the heat beginning the tooth
 in this form plastic of mass when it has set hard
 partly melt out the heat; now you have a bridge
 of the mouth in plastic of mass, such this in casting
 sand to make an impression & cast a similar one
 of 7 heat give method with heat in (blowing
 it) at there be altogether about ^{the 15th of heat} well and & advance when
 the surface has commenced to show up down
 the give casting into it & hold it there a short
 time when remove it you now have it this
 broken die for stamping the next silver or
 golden which the first tooth is finished) a few
 generations does this without hunting either the
 given or the lead. The tooth is made with Solphur
 colored with Stannum by pouring finely enough the



horse becomes fat.

no-thin, i.e. breaking on the
point of the hind leg.

~~What for~~
2 deer buckles, & 2 deer horns
from together & feed the horse with
it in a little
2 deer daily becoming to
water 24 hours first mix in a little starch &
give about 2 an hour before you feed it.
in 8 days it will be cured if it is not
cured go on giving it for 5 or 6 days more.

Take the leaves of the white poplar 2 lbs & 1 lb
of Rhase gum. boil together & take it in the
hour over it - the remnant of the water in which it
boiled when it has cooled a little: what this with
good muck for 3 days -

For cold in a horse's neck
Take 6 marshmallows, 2 lbs starch
boiled the same place the being in the poplar
goff the fine bit it becomes hard & strong & will stand









The oriental Ruby & Topaz are Sapphires
Colors blue & red - also grey white green
Yellow - occurs in blint edged pieces
crystallized & in roundish pebbles.

after diamond the hardest substance in
nature - Refracts Double - The blue
variety of Sapphire harder than Ruby.

^{of sapphire}
10 Carats = 50 Guineas. -

It occurs in alluvial soil, in the vicinity
of Rocks belonging to the secondary or
floetz trap formation imbedded in fine
white & pale blue varieties when heated
become white & are used for diamonds.

Crimson & carmine red most valuable.

1. Oriental Ruby. 2. Sapphire. 3. Topaz.

In India the diamond bed of clay is underneath
beds of red or bluish black clay. Also in
alluvial tracts in India & Brazil.

For working mines cutting Diamonds &c.
see Jameson's Mineralogy.

Diamonds

1. Carat is £0

2. Do. is $2^2 \times £0 = 32$

3. Do. is $3^2 \times £0 = 72$

4. Do. is $4^2 \times £0 = 1200$

100. Do. is $100^2 \times £0 = 80000$

This Rule however does not extend to Diamonds of more than 20 Carats. The larger ones are disposed of at prices inferior to their value of that computation.

The snow white Diamond is most highly prized by the Jeweller.

The Carat grain is diff. from the Troy grain 156 Carats make up the price of a Troy oz; or 612 Diamond grains are contained in the Troy oz.

1. Carat = 4 grains & the price of one Diamond as compared with another of the same color thus many times for the same is as the squares of the respective weights.

The average price of rough Diamonds is worth working is 2£ for the first Carat.

Colours are white & grey. - also red, brown, yellow, yellow. green, blue & black.

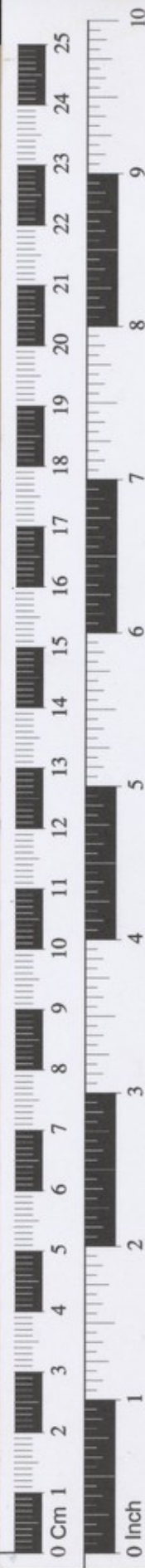
MS No 846

Byjennath's

Shūmish & Nūkrā

Rece

Shūmish & Nūkrā
Shūmish & Nūkrā



Wellcome Collection

(Silver -
(total maasha)
1.6
Jiwā Khār 18 maashas, Sunkeā 37
(total maasha)
1.6
Parek 37 maashas, Nowa dūr 18
Pound together in Nimboō Ka ara
place in a muttee Sumpūt & burn in
when cool take it out & pound in

for one hour & ap-
by one chataukh
in the urine &

1 maasha on for
if too hard use
Remember Hokeem

Baboo Degal Singh's
lives in Mīhade
bring Hokeem Wōhā

gēnlee is a Bulb

Parek, just 11 tola
juice melt copper & throw on the

Is often & cleanse Copper.

Melt & pour copper melted into Sidhara
softner, then beat into a leaf which heat
quench in a chewed Pawn leaf in which
has been mixed, heat & quench in 7 Pawn
become purified a great deal & melt soon. — (add
each tola copper afterwards if necessary)



Wellcome Collection