

# WELCOME





A photograph of a forest path in autumn. The path is covered with fallen yellow and orange leaves. The trees on either side have vibrant autumn foliage in shades of yellow, orange, and red. The text "WELCOME TO ECO-FRIENDLY CREMATION" is overlaid in red, bold, capital letters, with a reflection effect below it.

**WELCOME  
TO  
ECO-FRIENDLY  
CREMATION**



**A PROJECT OF**  
**SENIOR CITIZENS SANTACRUZ (PASCHIM)**  
**SANSTHA**



**SAVE TREES**



**AN APPEAL**

**for**

**Eco-friendly Gas Crematorium**

**‘ECO-MOKSHA’**

**at Hindu Crematorium**

**Santacruz (West), Mumbai - 400 054.**









**SAVE TREES**





**SAVE WOOD**





**PRESENTED  
BY  
DR. K.K.MEHTA  
FOUNDER MEMBER**



A large, intense fire is burning in a dark, industrial setting. The flames are bright orange and yellow, rising from a pile of debris and smoke. The background is dark, with some structural elements visible. The overall scene is one of destruction and pollution.

**Air Pollution**





**Water Pollution**



# **ECO-FRIENDLY GAS CREMATORIUM**

**‘ECO-MOKSHA’**

***A PROJECT OF***  
**SENIOR CITIZENS SANTACRUZ  
(PASCHIM) SANSTHA**



# ***INTRODUCTION***

- ✗ People want Eco conscious way of Leaving Earth. It is no longer enough to live a greener life. Now people are being encouraged to be environmentally friendly when they leave the earth too.

Britain has been a world leader in eco friendly funerals for years & a source of green burial products.

**“ you can make any funeral and make it green”.**

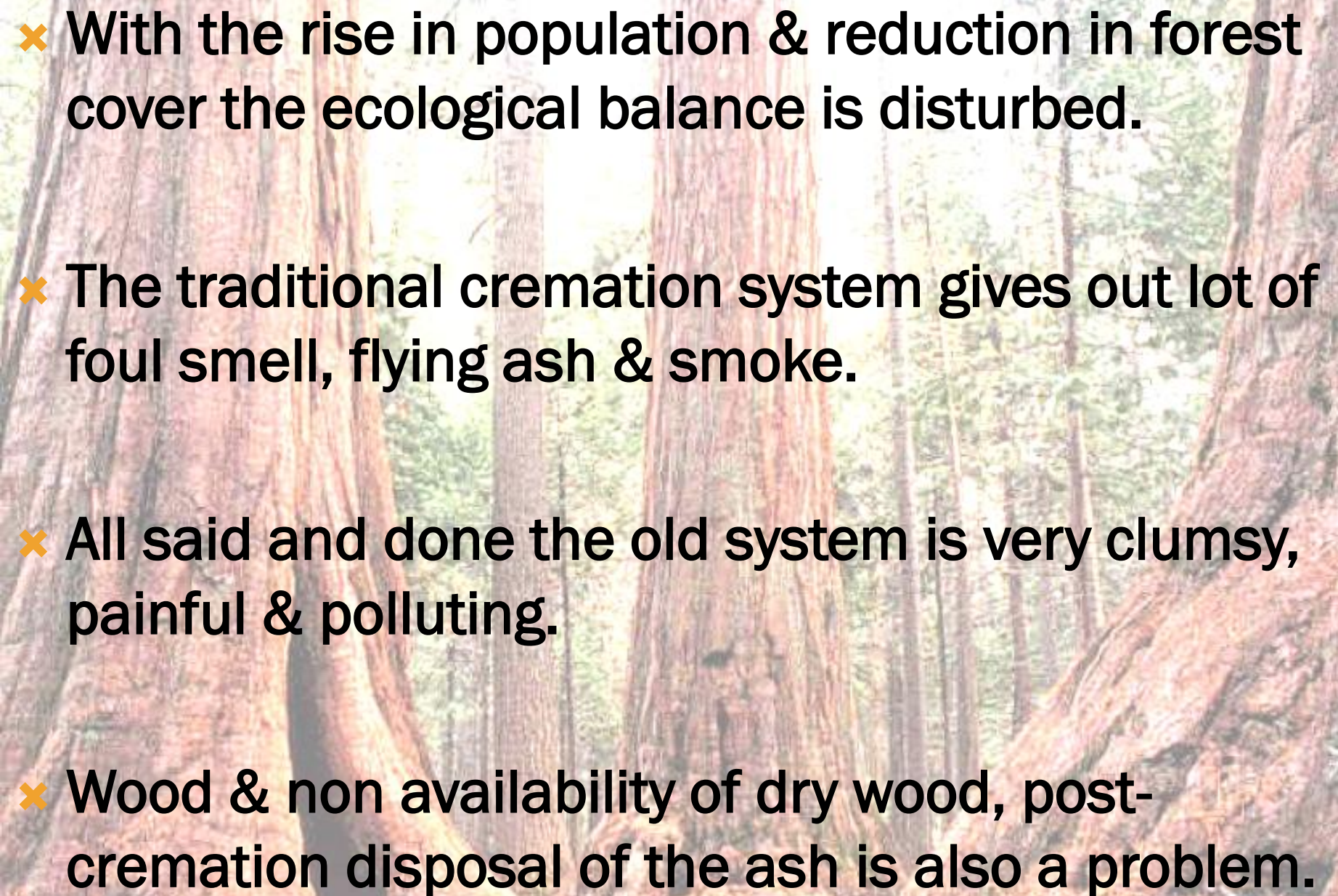
The green funeral bodies are not embalmed & are dressed in pure fiber clothes. Green campaigners say refrigeration or dry ice is a good alternative to formaldehyde which can seep into the water & be toxic. Similarly gas cremation is eco-friendly than wood cremation.



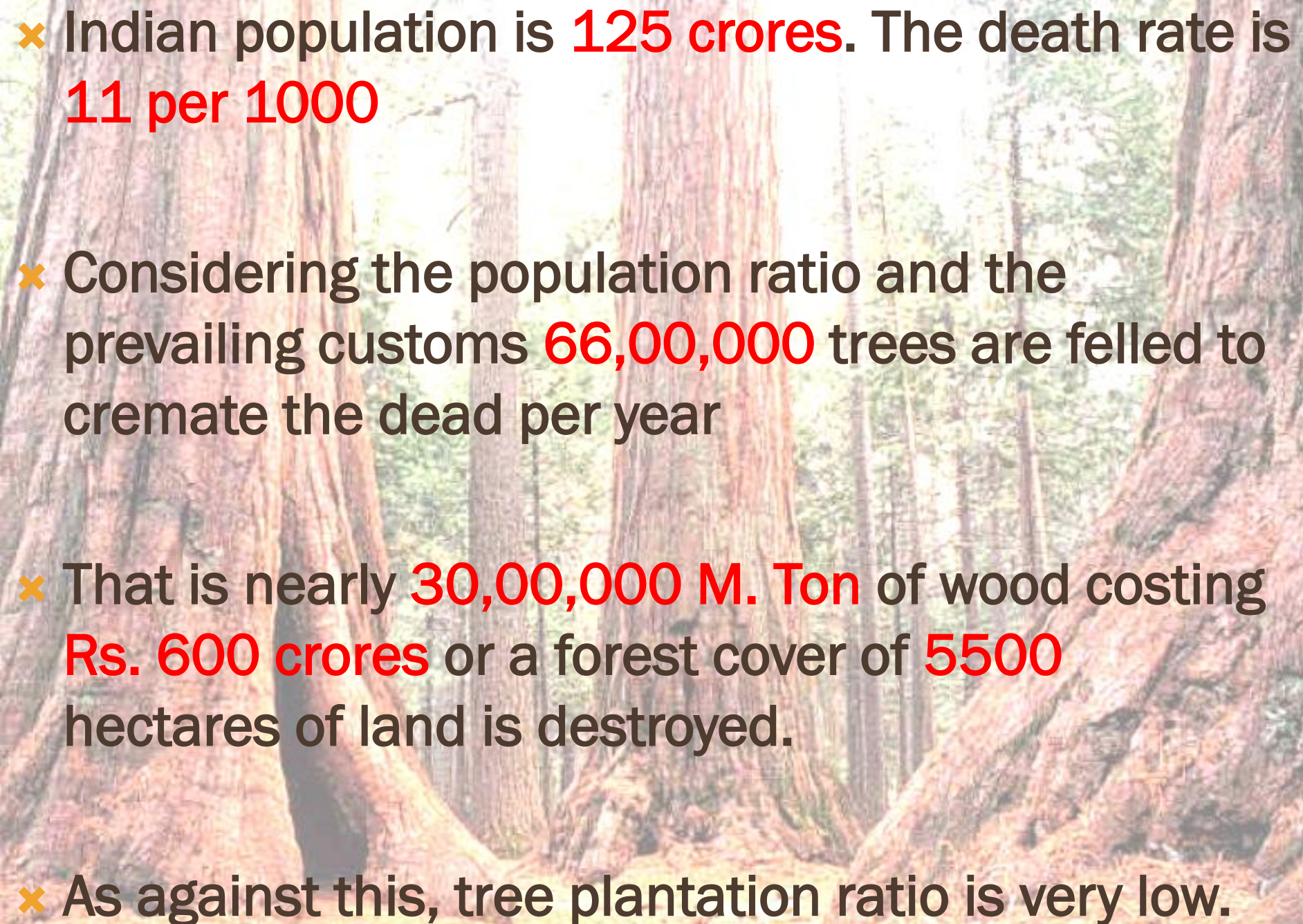


***One Hindu Cremation  
means felling down  
one fully grown tree.***

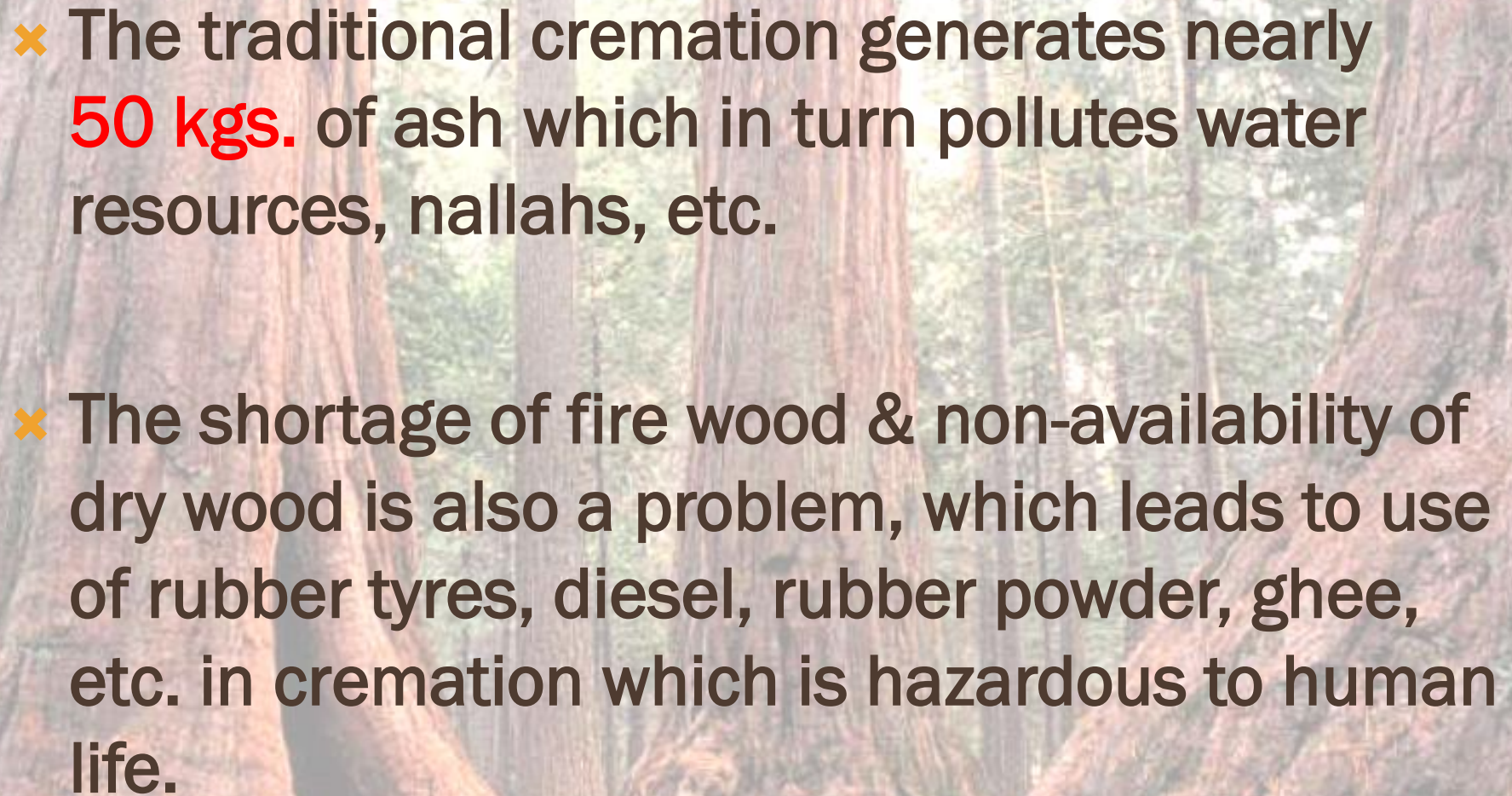


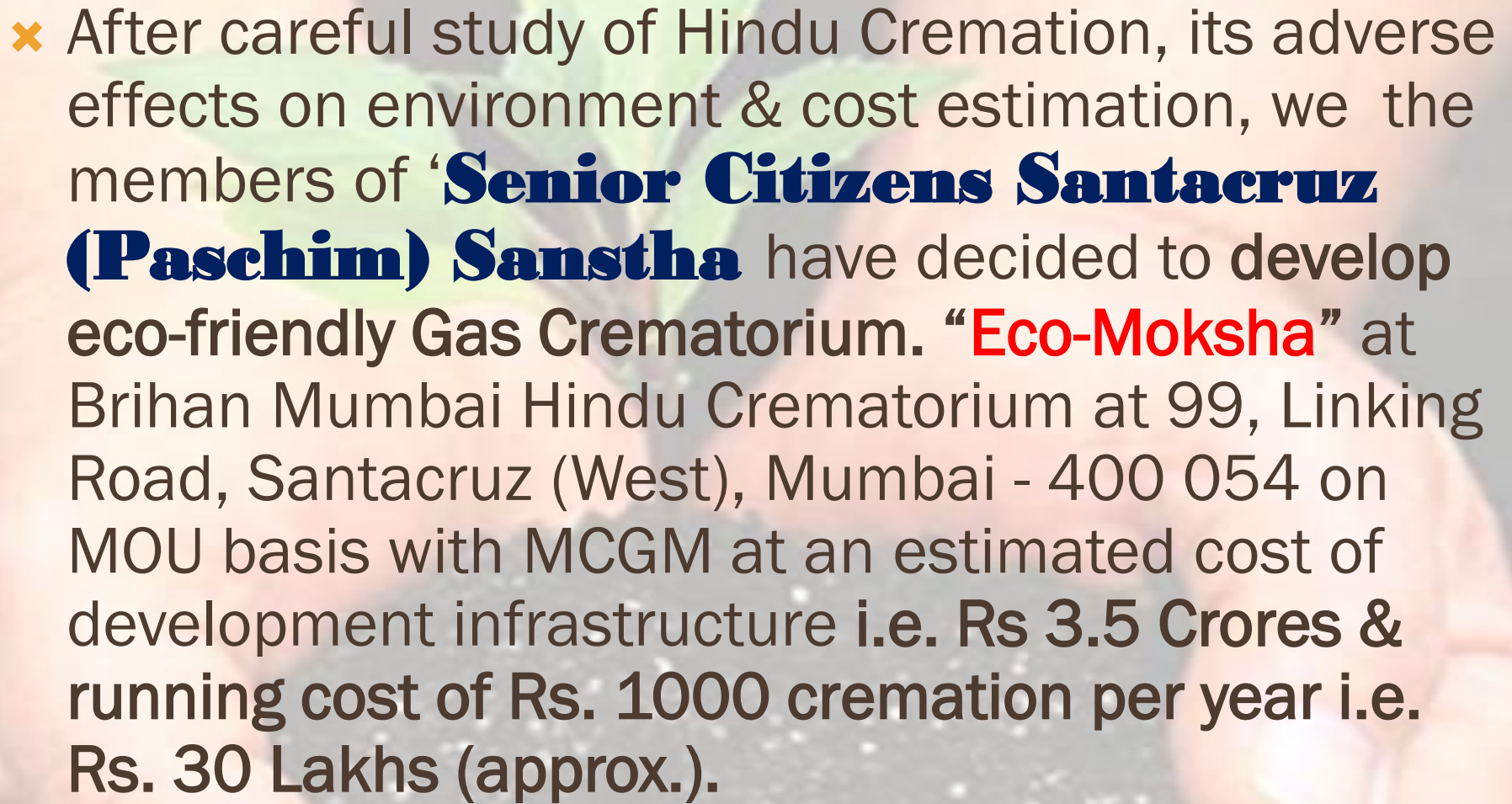
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- ✘ With the rise in population & reduction in forest cover the ecological balance is disturbed.
  - ✘ The traditional cremation system gives out lot of foul smell, flying ash & smoke.
  - ✘ All said and done the old system is very clumsy, painful & polluting.
  - ✘ Wood & non availability of dry wood, post-cremation disposal of the ash is also a problem.



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- ✘ Indian population is **125 crores**. The death rate is **11 per 1000**
  - ✘ Considering the population ratio and the prevailing customs **66,00,000** trees are felled to cremate the dead per year
  - ✘ That is nearly **30,00,000 M. Ton** of wood costing **Rs. 600 crores** or a forest cover of **5500** hectares of land is destroyed.
  - ✘ As against this, tree plantation ratio is very low.



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- ✘ The traditional cremation generates nearly **50 kgs.** of ash which in turn pollutes water resources, nallahs, etc.
  - ✘ The shortage of fire wood & non-availability of dry wood is also a problem, which leads to use of rubber tyres, diesel, rubber powder, ghee, etc. in cremation which is hazardous to human life.

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- ✘ After careful study of Hindu Cremation, its adverse effects on environment & cost estimation, we the members of '**Senior Citizens Santacruz (Paschim) Sanstha**' have decided to develop eco-friendly Gas Crematorium. "**Eco-Moksha**" at Brihan Mumbai Hindu Crematorium at 99, Linking Road, Santacruz (West), Mumbai - 400 054 on MOU basis with MCGM at an estimated cost of development infrastructure i.e. Rs 3.5 Crores & running cost of Rs. 1000 cremation per year i.e. Rs. 30 Lakhs (approx.).



# PREAMBLE

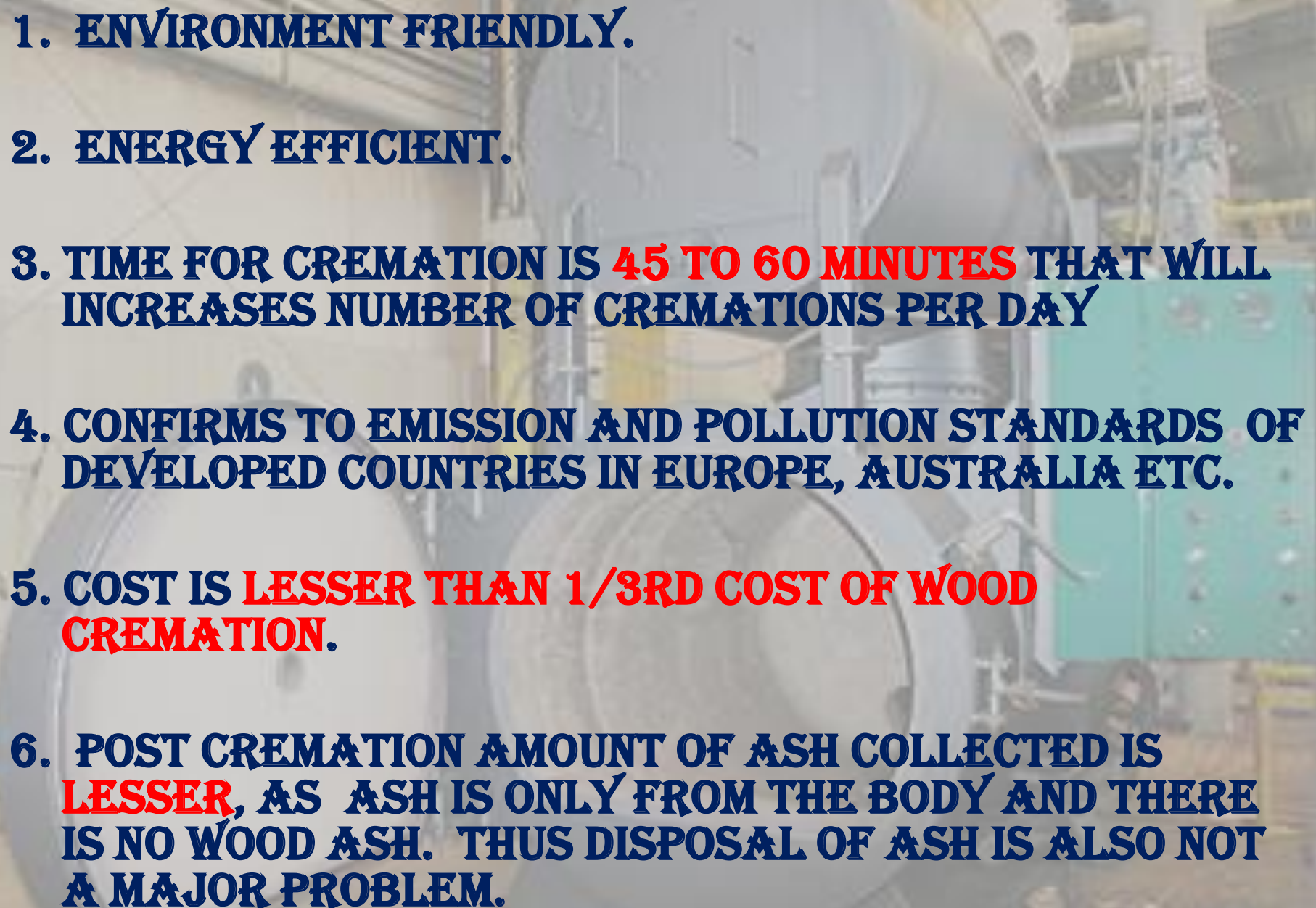
- ✖ Our traditional method of cremation by wood pyre is not eco friendly and it is costly, but newer systems like cremation through oil furnace, electric furnace or more recently gas (P.N.G.) furnace cremation are not only eco friendly but also cheaper, quicker and are easily available throughout the year.
- ✖ For wood pyre cremation one would need about 400 kg of wood which equals to one fully grown tree over a period of 10 to 15 years. However on the other hand gas is a natural waste product from our refineries.

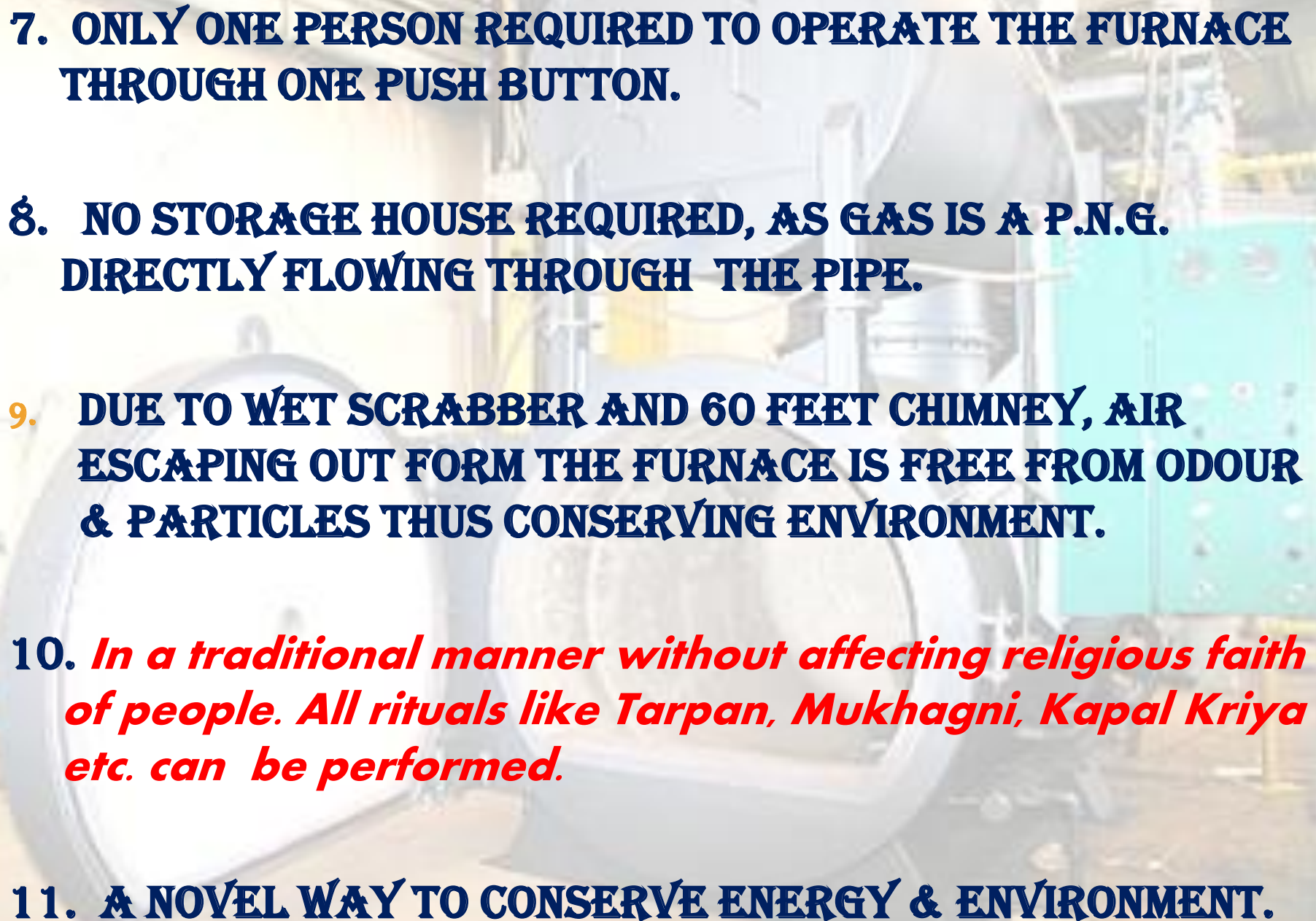




# **ADVANTAGES OF GAS FURNACE CREMATION**



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- 1. ENVIRONMENT FRIENDLY.**
  - 2. ENERGY EFFICIENT.**
  - 3. TIME FOR CREMATION IS 45 TO 60 MINUTES THAT WILL INCREASES NUMBER OF CREMATIONS PER DAY**
  - 4. CONFIRMS TO EMISSION AND POLLUTION STANDARDS OF DEVELOPED COUNTRIES IN EUROPE, AUSTRALIA ETC.**
  - 5. COST IS LESSER THAN 1/3RD COST OF WOOD CREMATION.**
  - 6. POST CREMATION AMOUNT OF ASH COLLECTED IS LESSER, AS ASH IS ONLY FROM THE BODY AND THERE IS NO WOOD ASH. THUS DISPOSAL OF ASH IS ALSO NOT A MAJOR PROBLEM.**

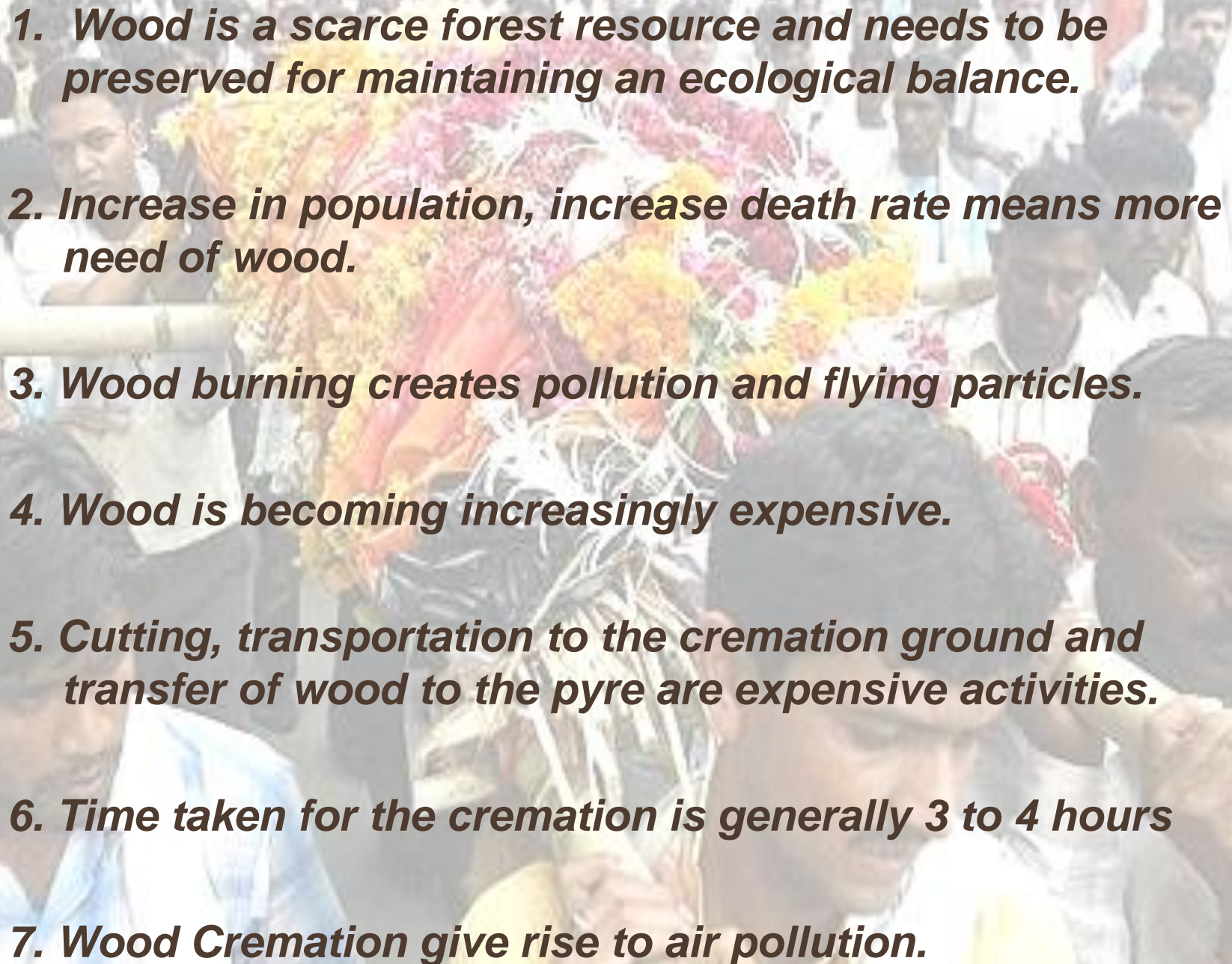
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- 7. ONLY ONE PERSON REQUIRED TO OPERATE THE FURNACE THROUGH ONE PUSH BUTTON.**
  - 8. NO STORAGE HOUSE REQUIRED, AS GAS IS A P.N.G. DIRECTLY FLOWING THROUGH THE PIPE.**
  - 9. DUE TO WET SCRABBER AND 60 FEET CHIMNEY, AIR ESCAPING OUT FORM THE FURNACE IS FREE FROM ODOUR & PARTICLES THUS CONSERVING ENVIRONMENT.**
  - 10. *In a traditional manner without affecting religious faith of people. All rituals like Tarpan, Mukhagni, Kapal Kriya etc. can be performed.***
  - 11. A NOVEL WAY TO CONSERVE ENERGY & ENVIRONMENT.**



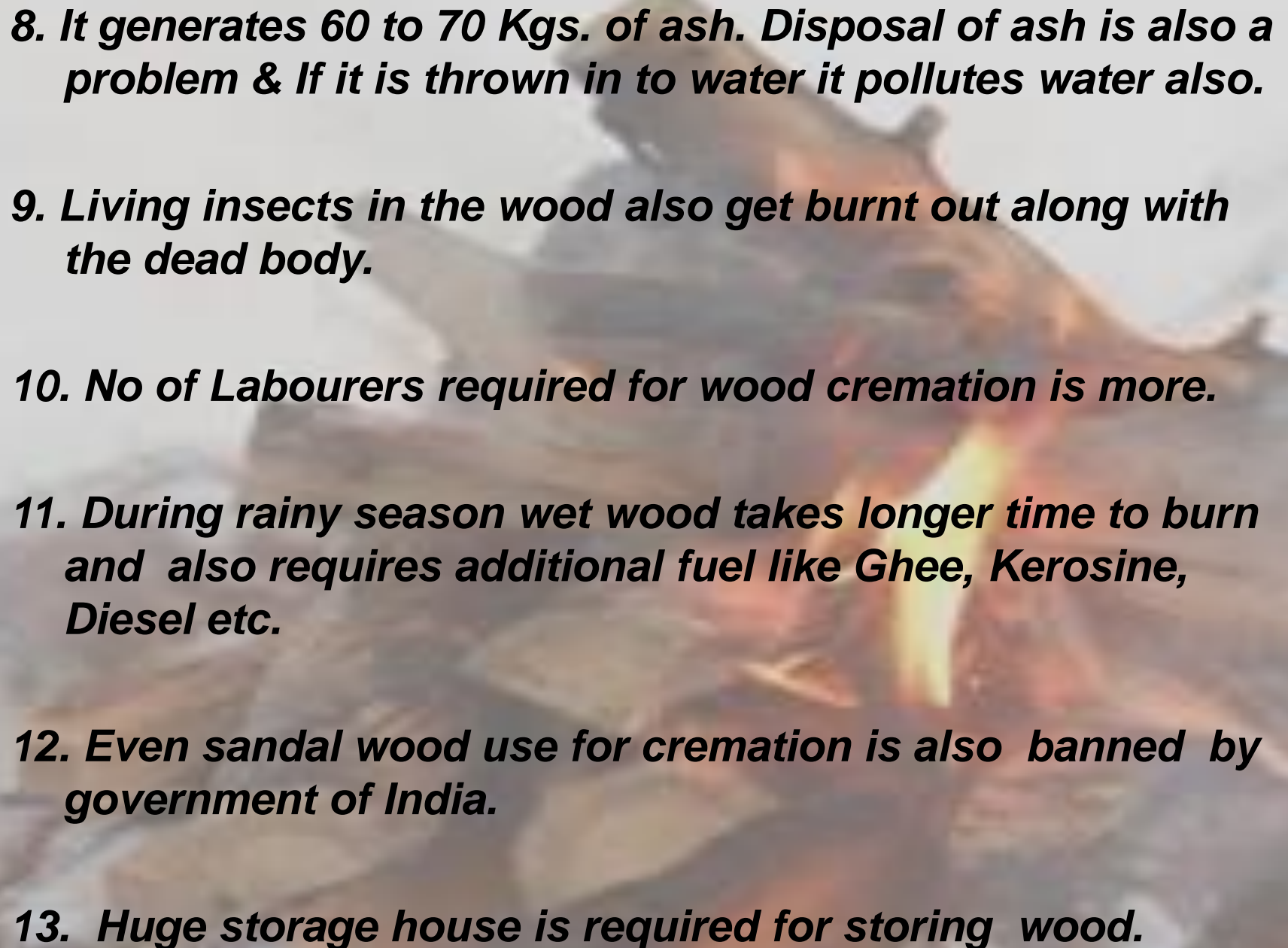
A photograph of a large wood pyre cremation. A massive pile of logs and branches is on fire, with bright orange and yellow flames rising into the air. A thick plume of white smoke billows from the base of the fire. To the left, a person wearing a white protective suit and a hood stands observing the process. The background shows a line of green trees under a clear sky.

# **DISADVANTAGES OF WOOD PYRE CREMATION**



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- A large crowd of people is gathered for a funeral procession. In the center, a casket is being carried on a wooden palanquin, heavily decorated with garlands of yellow and red flowers. The crowd consists of men and women of various ages, many looking down at the casket with somber expressions. The background is filled with more people, creating a sense of a large-scale public gathering.
- 1. Wood is a scarce forest resource and needs to be preserved for maintaining an ecological balance.***
  - 2. Increase in population, increase death rate means more need of wood.***
  - 3. Wood burning creates pollution and flying particles.***
  - 4. Wood is becoming increasingly expensive.***
  - 5. Cutting, transportation to the cremation ground and transfer of wood to the pyre are expensive activities.***
  - 6. Time taken for the cremation is generally 3 to 4 hours***
  - 7. Wood Cremation give rise to air pollution.***

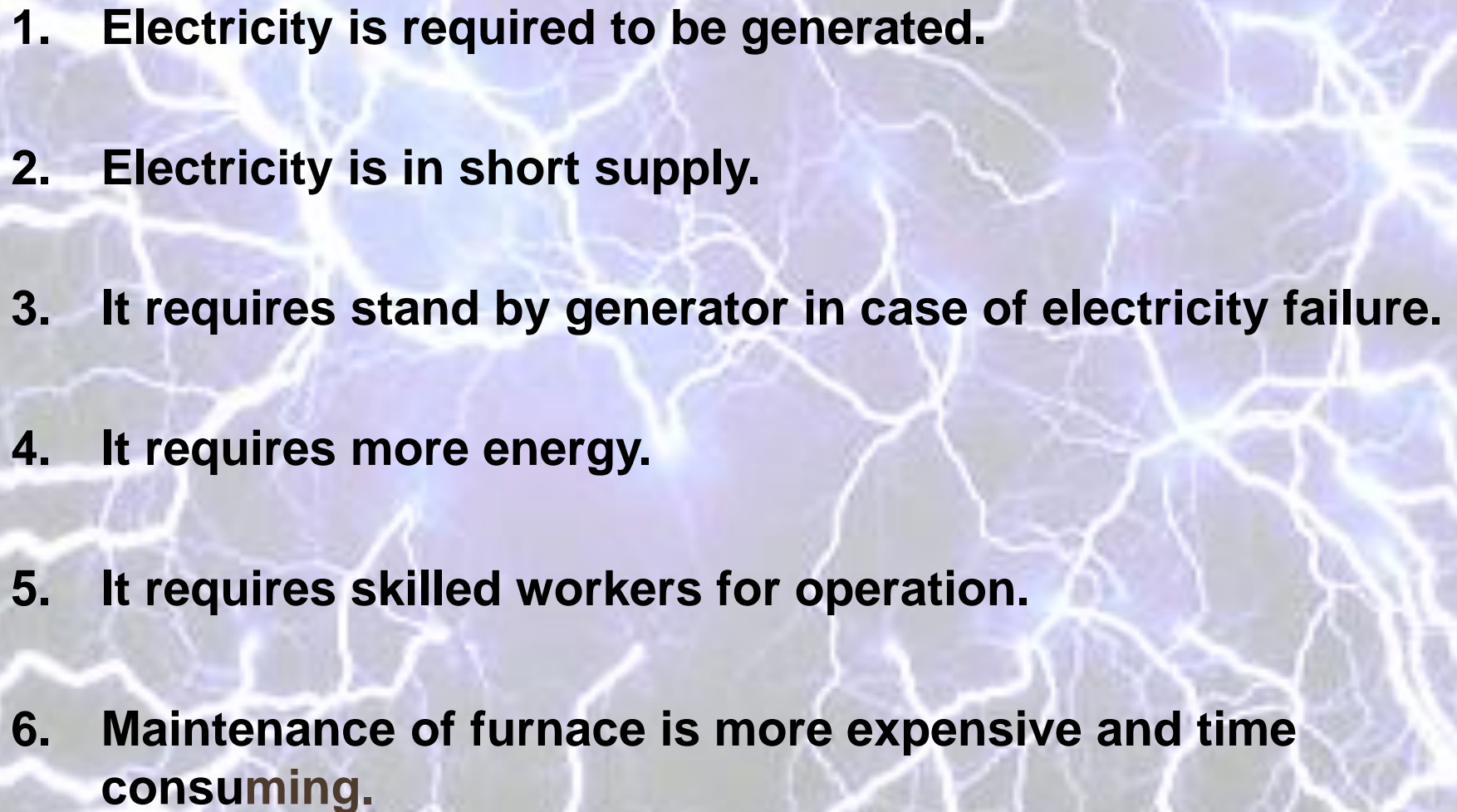


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- 8. It generates 60 to 70 Kgs. of ash. Disposal of ash is also a problem & If it is thrown in to water it pollutes water also.***
  - 9. Living insects in the wood also get burnt out along with the dead body.***
  - 10. No of Labourers required for wood cremation is more.***
  - 11. During rainy season wet wood takes longer time to burn and also requires additional fuel like Ghee, Kerosine, Diesel etc.***
  - 12. Even sandal wood use for cremation is also banned by government of India.***
  - 13. Huge storage house is required for storing wood.***





# **DISADVANTAGES OF ELECTRIC CREMATORIUM**

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- 1. Electricity is required to be generated.**
  - 2. Electricity is in short supply.**
  - 3. It requires stand by generator in case of electricity failure.**
  - 4. It requires more energy.**
  - 5. It requires skilled workers for operation.**
  - 6. Maintenance of furnace is more expensive and time consuming.**



A tropical sunset scene with palm trees and a body of water. The sky is a mix of orange, pink, and purple, with scattered clouds. The water in the foreground is calm, reflecting the colors of the sky. Several palm trees are silhouetted against the bright part of the sunset on the left side of the image.

# **FACILITIES PROVIDED AT THE CREMATORIUM**



**R.C.C. Building of 3000 Sq. ft. area.**

***Separate area for 2 cremation furnace.***

**Web cameras with website for last Darshan by Relatives & Friends who are unable to attend funeral.**



**HALL WITH SEATING CAPACITY FOR 100 PERSONS.  
ELEVATED PLATFORM FOR LAST RITES.**



# **SOUND SYSTEM FOR PROVIDING BHAJANS, DEVOTIONAL SONGS ETC.**



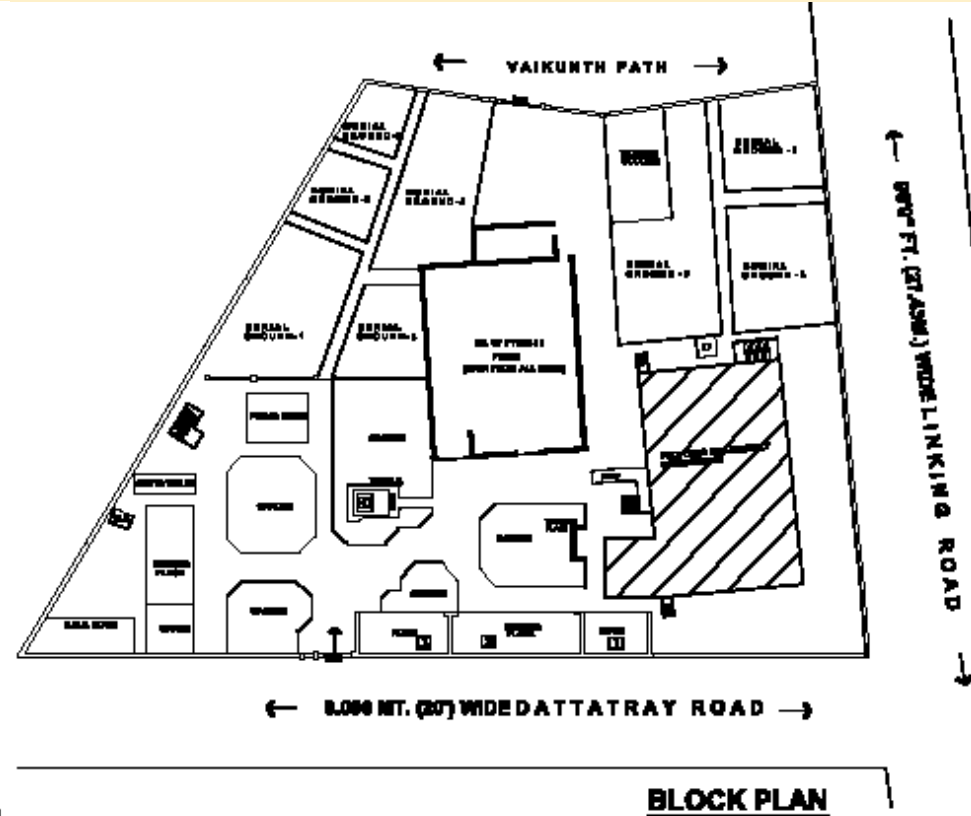
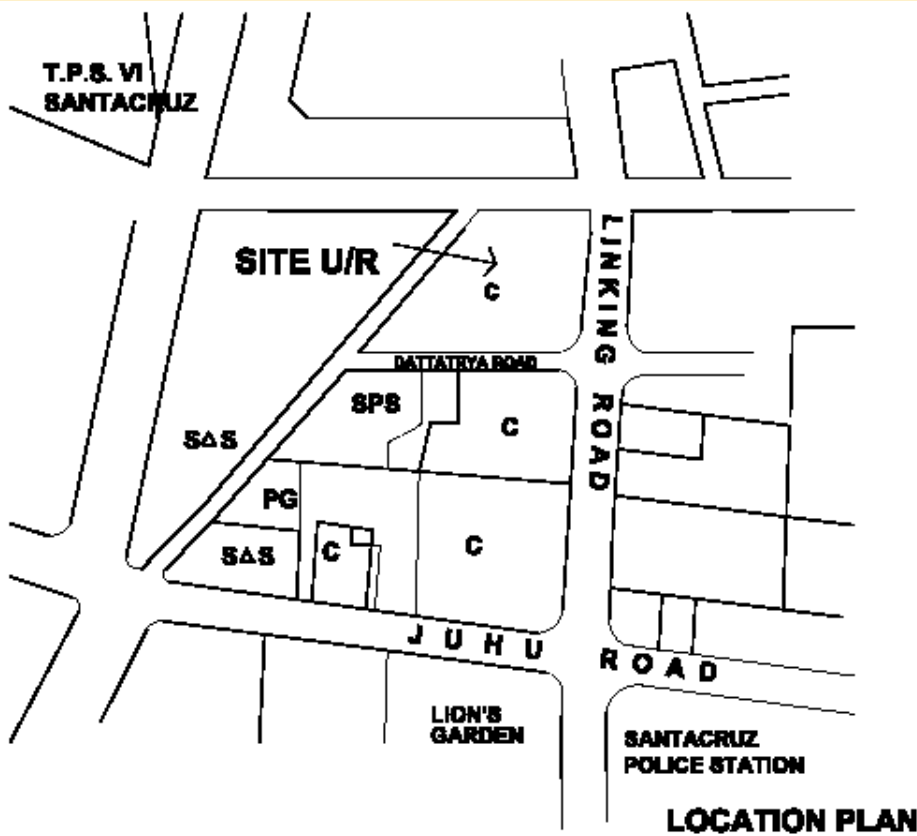


# PROJECT PROFILE



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- ✖ **Name of SANSTHA :**  
SENIOR CITIZENS SANTACRUZ (PASCHIM) SANSTHA
  - ✖ **Date of Incorporation**  
18th February, 2008
  - ✖ **Registered with**  
Society & Charity Commissioner, Mumbai
  - ✖ Registration No . Maharashtra State, Mumbai, 1778 of 2008 G.B.B.S.D.
  - ✖ Charity Commissioner Maharashtra State Mumbai - Reg. No. F36397
  - ✖ CERTIFICATE UNDER SECTION 80 –G OF I.T.ACT
  - ✖ NO DIT (E)/MC/80G/2265/2009-10
  
  - ✖ **One of the main object of the SANSTHA is to provide an Eco-friendly Gas Crematorium (P.N.G.) at Santacruz – West.**





## LOCATION

Brihan Mumbai Mahapalika Hindu Cemetery at 99, Linking Road, Santacruz (West), Mumbai 400 054.  
A plot within the cemetery at South East corner of Burial Ground. marked in a lay out plan done.

## BUILDING STRUCTURE

A Building will be of RCC Construction which includes a community hall, Furnace room, office and toilet with underground water tank, over head water tank and Chimney. The approximate area will be about 3000 Sq. feet.

## CREMATION FURNACE

Gas cremation (P.N.G.) furnace (2 Nos.).



## ✕ WATER CONSUMPTION

***To prevent air pollution due to Toxic Gases coming out of the furnace, toxic gas would be diverted to scrubber where water sprinklers will clean air born particles and odors. Approximately 1200 to 1500 liters of water will be require per cremation. Underground water tank of 10000 liters and over head tank of 10000 liters will be installed. In addition to this there will be another water tank with capacity of 10000 liters will be installed for recycled water.***

## ✕ WEB CAMERA

***It is for the first time in Mumbai Web camera will be installed in the hall to enable the family members and friends at home and abroad who could not attend the funeral of deceased person, to view the last rituals through our web site.***







# **CREMATION CHARGES**

**FREE TO EVERY ONE**

**Though cost of one cremation is Rs. 3000 the trust has decided No charges.**





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## नोंदणीचे प्रमाणपत्र

याद्वारे प्रमाणपत्र देण्यात येते की, खाली वर्णन केलेली सार्वजनिक विश्वस्तव्यवस्था ही आज, मुंबई सार्वजनिक विश्वस्तव्यवस्था अधिनियम, १९५० (सन १९५० चा मुंबई अधिनियम क्रमांक २९) या अन्वये वृद्धांगेय विभाग, मुंबई येथील सार्वजनिक विश्वस्तव्यवस्था नोंदणी कार्यालयात योग्य रीतीने नोंदण्यात आलेली आहे.

सार्वजनिक विश्वस्तव्यवस्थेचे नाव सिनेयर सिटीझन स्पोर्ट्स  
पश्चिम संस्था

सार्वजनिक विश्वस्तव्यवस्थांच्या नोंदणी पुस्तकातील क्रमांक ५५० - ३६३६८ (मुंबई)  
श्री. जी. शाह यांस प्रमाणपत्र दिले.

आज दिनांक ०२/०९/२०२० रोजी माझ्या सहीनिशी दिले.

शिवका



सही सहायक धर्मदाय आयुक्त....  
धर्मदाय आयुक्त, महाराष्ट्र राज्य,  
पदनामुंबई यांचे कार्यालय.

**MUNICIPAL CORPORATION OF GREATER MUMBAI**  
**Public Health Department**

No. HO / 587 / RI dated 22.4.09

To,

Shri Jitu Shah  
Secretary, Senior Citizens Santacruz Sanstha,  
6, Anabel Co-op.Hsg.Soc.Ltd.,  
81, S.V. Road, Santacruz(West),  
Mumbai.400 050.

Sub: Permission for development of Eco Friendly Crematorium at  
Santacruz(West) Municipal Cemetery.

Dear Sir,


This is with reference to your project proposal pertaining to the permission for developing Eco Friendly Crematorium at Santacruz (West) Municipal Hindu Cemetery addressed to Hon. M.C. I am very much pleased to inform you that your proposal has been sanctioned by competent authority. You are now requested to contact the office of the undersigned in order to sign the Memorandum of Understanding between M.C.G.M. and your trust.

Please contact the office of the undersigned immediately so that the agreement can be signed as early as possible and the work of constructing Eco Friendly Crematorium starts immediately.

With regards,

23.APR 2009

Yours faithfully,

  
(Dr. J.G. Thanekar)  
Executive Health Officer

olc



# THANK YOU





**I APPRECIATE YOUR HELP...**  
**THANKS ALOT.**