



BY
SURYA
[SARIPALLI]



DIAMOND TREASURE ISLANDS
BY
SARIPALLI SURYANARAYANA

2025

By

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DIAMOND TREASURE ISLANDS
ANTARCTICA
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Diamond Treasure Islands

By

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THIS BOOK IS

DIAMOND TREASURE ISLANDS

Of

ANTARCTICA

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**I WISH TO DEDICATE THIS WORK
to the memory of
My Father,Late Saripalli Somayajulu,Astor-Palmist,
Mother-Lakshmi Kantham
And
My Uncles and Aunts**

**Late Saripalli Venkatchalam,
Late Pappu Bhaskar Rao,
Late Pappu Visalakshi.
LatePappu Mohan Rao,**

**With respects to those in family for encouragement
Pappu Krisna Murthy.**

**And
Many in the Family
Of
SARIPALLI**

**And
PAPPU**

[Never leave with out reading the last 50 pages of a novel]

**My deep Remembrances to
Late.Shri.Alapati Narsinga Rao[A.N.Rao],Director
General Fiance.,Ministry of External Affairs.**

**Late.Pakala Suryanarayana-Film Censor board
chairman, Southern Region.**

**Late.Prof.P.V.RATNAM., Principal.,
A.U.Engineering college,**

**Late.Prof.Krishnamacharyulu, Principal,
A.U.Engineering College.**

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So also, I wish to acknowledge My wife Mrs.Janaki, M.A., B.Ed., a History, Geography and Economics teacher, for her contributions.

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And

WIKIPEDIA

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My sons and their wives have made valuable contributions towards the materials for this novel.

Engineering is a continuous changing subject, as we progress we develop the theory.

Bernoulli, Newton, Einstein, Euler and so many such were able to find the logic for each of the development.

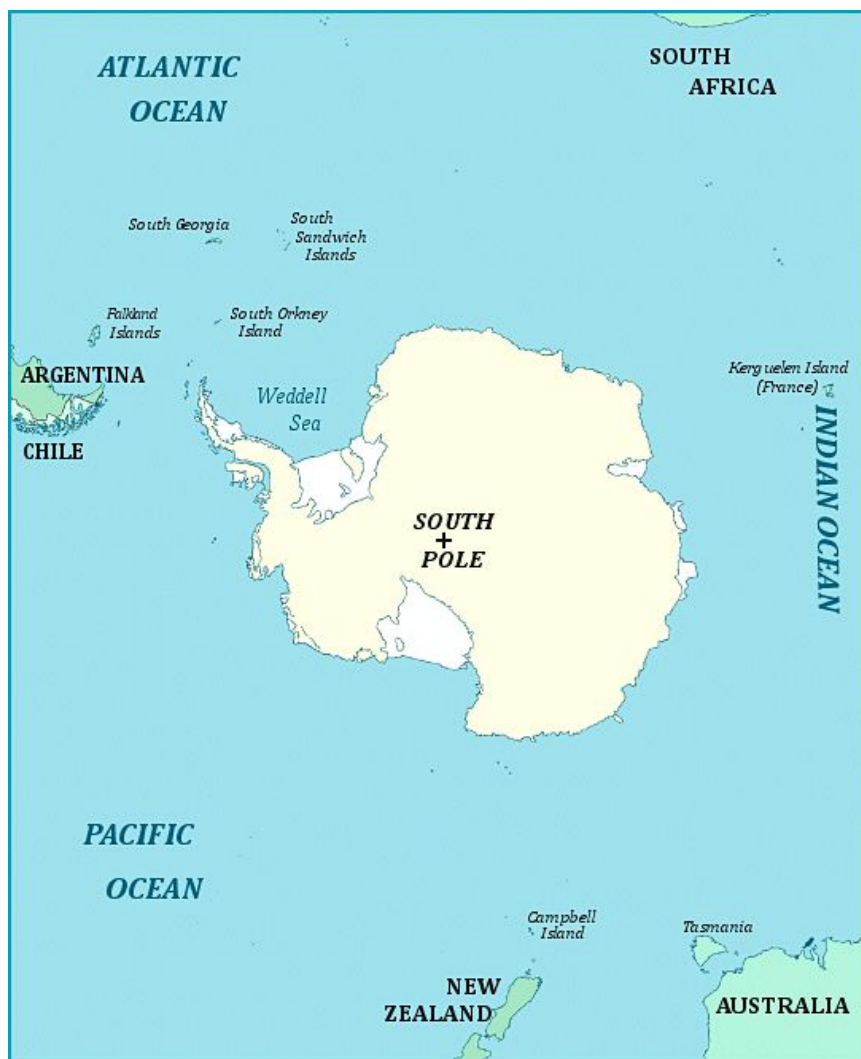
The purpose is to educate the Young Engineers.

All stories could be real with changed Dates, they are meant to be morals.

All names are Fictitious.

This is fiction and copy Righted.





PREFACE

Climate to Humans is a necessity as that of Farming and agriculture.

For an Engineer adversary in climate can jeopardise his work in Irrigation and Industry.

Engineering is to meet daily needs that meet the Industrial production for human life.

Climate has to be consistent with nature, for Humans it has to be embedded on the Earth.

No one knows how and why and where the Earth Cracks and quakes. Why humans have to suffer.

Engineering long standing roads and Buildings are of utmost necessity of this generation on this planet.

Communications are putting a net between the Earth and Sun.

Believe in nature, design as per nature, but Nature it self is neither Static nor has a Pedigree.

Believe in your self.

Believe in everything.

Cesium-134 of less than 147 is expected in Human body. This gives an indication of Radiation. The Testosterone, levels below 270 shows men and women in inactive conditions.

INTRODUCTION

The pineal gland has been implicated in a number of disorders including cancer, sexual dysfunction, hypertension, epilepsy, Paget's disease, bald head etc.

The pineal gland calcifies with age and melatonin production correspondingly decreases. This decline in melatonin has been suggested to be a trigger for the aging process.

The pineal gland was called the "third eye" by ancient people. It was thought to have mystical powers.

This may be why the French philosopher Descartes decided that the pineal gland was the seat of the human soul, the location of what we call the mind. The pineal does contain a complete map of the visual field of the eyes, and it plays several significant roles in human functioning.

Melatonin is implicated in a wide range of human activities. It regulates daily body rhythms, most notably the day and night cycle called the circadian rhythms. Melatonin is released in the dark, during sleep.

The theory that stomach ulcers were caused by spicy foods has been replaced by the discovery that many ulcers are caused by a bacterium

The deadliest disease from Sudan which can spread any where is Mycetoma, which is a flesh eating, bone destroying disease whose prevalence and etiology are not known even today.

This could be a modification of TB, which attacks the bones.

Near to Newzealand and Tasmania of Australia are the Italian and south Korean stations Zucchelli and Concordi.

Auckland, Queens town and Melbone are some important towns of future land scape.

Far away in to the main land of Antarctica but near to ocean are Casey and Davis stations which are manned by different nations.

South America is having Terra Del Fuego an island of Argentina till the end of South Pacific Ocean.

This Island is well connected to near by Falk lands islands and Georgia and South Sandwich Islands which are little far away towards east and nearing African continent.

This is where our story begins.

From Buenos Aires of Argentina fly towards Rio Gallegos or Rio Grande. Ushuala and some times called as Ushuaia is another place in Argentina well connected place in the journey.

Then head for Machu Picchu base of Peru and Base Presidente Eduardo Frei Montalva of Chile.

These two are on a single Island while, Base Yelcho of Chile and Base Marambio of Argentina are on another island. The diamonds originating from Kimberlite are one source of attraction to the place.

The diamonds from Hercynite stones or from dolomite. There is saying that they belong to a class of Axinite which are the diamonds from calcinations.

What US is aspiring is to make multi nationals but as US citizens on the Islands could as below.

General Bernardo O'Higgins is a base of Chile is little far away say by 100 miles.

There are Fortin Sgto Cabral of Argentina, near James Ross Islands, Trinity Islands Liege Island and Brabant and Anvers on Main land are all closely located.

All these six Islands and connecting main land is called the Diamond Treasure or Diamond Islands.

These are claimed by USA.

This is a place neon lighted Diamonds are available.

Penguins live happily while whales are common sight in seas.

The unlocking of the Diamond treasure started in 2016 with the exposure of Panama papers and Bahamas Fraud. The treasures in small Island nations has come to light.

But it was in September 2016 continuous events happened and a group of visitors coming from Antarctica were caught with highly sophisticated

neon colored diamonds of high worth at **Buenos Aires, Rio Gallegos, Rio Grande**, and at **Ushuala** which is some times called as Ushuaia.

Satya had a team to assist him. Ramu to look after the materials.

David took care of logistics.

Sanjana is sister of David who took care of the architecture.

Engineering and versatile construction matters were taken care by **Mary** with assistance remotely by **Bethanik**.

Ana Arundhathi a great social teacher took care of the ancillary developments.

Neeraj was in-charge for developing the Contract systems.

Personally satya was looking at the needs for water, transport electricity, and all other modalities.

General Frank is in charge of the whole Islands, and **Architect Samuel** is the consultant.

2025

Diamond Treasure Islands

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SARIPALLI

FICTION

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[Do not leave last 50 pages of any novel]

DISCIPLINE ONE

SEGMENT ONE

DOG CLUBS in JAPAN

The **Dog clubs** are most common in Japan, Europe and USA. The dogs are trained for several field works.

They perform such of the activities as looking at strangers, barking when unwanted thing happens or when a stranger barges. They also get trained in to running or smelling and identifying people.

But many people train the dogs by keeping only a single dog of any one of the sex. That is male or female.

Some times same sex dogs in group may swim waters and fetch some bags, etc.

But in the dog shows the people and police dogs find some problems.

The problems are recurring and many times the trainers' give in to the fancy of male or female dog to have sex with the opposite.

This is some times taken care by sterilizing the dogs before they are at the show.

Some of the by standers' was asking if such issue happens for dogs, that is sterilization, and then we have bulls which are sterilized and converted to ox.

Will they also run for sex on seeing the opposite?

The trainer said it do not happen if the sterilization is done in a proper way.

What does that mean some one asked.

In a general sense transsexual is not in nature and is rare.

But we the humans some times create them to meet our authority and needs.

You mean the transsexual community is a creation by our generation.

It is true and the **LGBT** group world wide also asks for rights of this gender also.

Given that how the animal lovers look at the rights for sterilized dogs and sterilized bulls. The same applies to transsexuals.

It is difficult and if at all they recognize we will have a virus modified out of Zika.

Zika as understood now can also blind the persons.

There are other issues for which the term is **Microcephaly**, which means abnormal small head a congenial condition associated with incomplete brain development or simply Microcephaly also could have happened. That was when Zika was in Asia about 64 years back say in 1952. What does that mean?

The man holding his dog said, arbovirus causing mild illness across equatorial Africa and Asia was present earlier. But from 2007 onwards there were large outbreaks in previously unexposed populations. From 2013 outbreak is linked with neurological disorders congenital malformations for reasons that are yet known. The future may coincide with Aedes vectors or person to person transmission both vertically and horizontally. Is this becoming more problematic than AIDS. There will be others which will follow with the hot climate prevailing due to the climate changes.

There were onlookers looking at the special dog show. The dogs are well groomed and well cared. But one of the dogs was looking healthy but the skin is giving away a bit. There were many spots of white and red patches all across the body. The owner is looking like a rich man. He is Aksai chin. He is a Chinese descendant.

One of the onlookers had a box in his hand. A stethoscope hanging around neck.

Looks like a pet doctor said **Juoru**.

The doctor introduced himself as **Kurimoto**, and trying to talk to **Aksai chin**.

Are you from **Fukushima**. The man said you mean that Tsunami effected nuclear plant area? Yes said the doctor Kurimoto.

No, but thank god that you did not ask if I am from **Hiroshima** or **Nagasaki**, but tell me Doctor what made you to ask that.

Said the Doctor, it looks like the breed of your healthy dog has some radiation effects at least some generations back.

It could be but the Dog parents and grand parents are from Tokyo.

I live near an area where I always fear radiation from cell towers could be hazardous. He gasped and continued,

I saw his parents when at its birth.They did not have any such markings on their bodies.

Did they also lived near cell towers emitting more than 2000 watts of Energy asked Kurimoto, looking in to Aksai chin.

Yes it is a common sight in colonies and daily the increase in Data,number of cell phones and net connectivity is increasing.But tell me doctor if I have children suppose,will they also be born like this dog.I mean continued the pet owner the parents do not have any surface defects and the children carry some or get some.

It is nature said the Doctor, unfortunately it is like the Japanese encifilities,or in modern times it is when the growth is in womb,the radiation can effect the children like the Zika virus.

I am reading now about both the effects of Japanese Enciphalities and the Zika said the **Aksai chin**.

I have to treat that injured dog and Kurimoto left.

Why, **Jurou** asked.Why; you say you want to be away was her real question at the face which is looking intensely worried.

Because you love to have the sex in the way these animals do.

Jurou seeing do not mean i agree for such.

I like to understand why and what.

By then already, **Arata** is a local man and **Ami** who had come from Far East, **Hiroku** the man from Far East and **Kurou** the women from Hiroshima paired, and were heading towards the nearby park.

Maki is the girl from Tokyo, and Maiee from Kurmito went to a corner and were sitting in a corner bench, and both these girls were eating a sandwich.

They turned to Aki and said your friend likes hard way of things; we are soft girls from Japan.

By then they were watching two dogs, slowly moving here and there, trying to catch some eatables.

Both looked like friends.

The International development agencies have their own monitoring team across continents to assess each of the new innovations developments and happenings.The same team is there since 2016.

Edwards, and Irwin, was managing to interpolate the data from a dozen developing countries.

They were sending the spatial records to several corners of the globe. Their first targets are to assess **poverty and hunger**, their second were **health and education**.

There is almost **500 Exabyte of Data stored** at different places, at least 1% of this is accessed every day. This is just 2% of all humans use.

There are **Ratna** now married to **Santha kumar** who is on his way to the **Diamond Islands of Antarctica**.

He is a professional Engineer with varying experiences in Indian projects.

The Experiences some times matches to the Consultants Engineer **Satya**.

Dinesh is also now married to **Sangeetha** another Mechanical engineering graduate in to projects from India and now a USA citizen who is also heading to the Islands.

Dinesh and Ratna are using the data from a dozen countries which are well developed.

The third party comprises of **Ishar**, and **Mohemmed** who are manning almost all other countries Data. The data is segregated and stored across many servers in different parts of world.

The fourth party comprises of **Bethink**, and **Sari**, along with associates, who are into smart or Sustainable city, architecture, design, desirability etc.

The fifth party is at an unknown location, in Canada, and Australia, split into two groups headed by **Mary**, and **steward**, who change locations, and monitor the money flows, across, banks, financial institutions and the ATM, located across.

They look for indecent behavior and independent operational characters and also look where the smell of money goes.

They are assisted by special group of Interpol agents.

While they were collectively working, they suddenly thought of the power generation and consumption, which were showing terrible increases beyond any assumption.

The data consists of possible health hazards, spatial disorders, and developmental program.

In September 2020 Novel the hero was Calvin.

He is head of International Development and attached to UN agencies.

He was running, sweat falling from his head on to the escalators; yes he is on an Airport escalator. But this time it is not India. He has new ideas, new Innovations and has to look at new developments around the world.

The last call for his flight is announced. It is Crist Church; somehow he reached there to avoid the trivials of Antarctica.

Bethink, and Sari, along with associates, who are in to smart or Sustainable City, architecture, design, desirability etc, have stated that the Drain works of Mumbai are falling short of expectations.

It is **Mary** has now married **Stewart Randil** who is a contractor for the town construction on all three Islands.

Mary and James Stuverd are still in to the financing systems.

They sent a SOS, stating that irregular activities around the Oceania.

The sensors in built and connected to satellites in to the sky are giving alarms. Unforeseen activity, visual images state that there are UAV and other vehicles in sky.

There is an escort with him, in the long corridor connecting the first floor of huge L shape building, many gates are provided, for making the number of telescopic bridges for parking or docking of the aircraft.

The number of carrier on each of the arm are at least 6 numbers, leaving sufficient space for the parking of double Decker 350 seated Boeing 707 category craft.

The huge crafts are still made by two companies in the world, Boeing, and Airbus.

The airport terminal gave a signal for the aircraft to land.

It started its downward decedent flight.

Calvin has boarded the plane.

It is not Nasik or Pune in India, but it is Church-gate in New Zealand.

There is 300 percent increase in traffic in all these Pacific countries.

It looks as if our of 9 billion at least 1 billion is starting to live here.

Do we really need to save any material in IVF clinics for future?

Near to **Newzealand** and **Tasmania** of **Australia** are the Italian and South Korean stations Zucchelli and Concordi. **Auckland**, **Queens town** and **Melbone** are some important towns of future land scape.

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Then head for **Machu Picchu** base of Peru and **Base Presidente Eduardo Frei Montalva** of Chile. **The Sgo Cabral** and **Marumbio** are the Argentinean bases.

These two are on a single Island while Base Yelcho and Base Marambio are on another island.

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Earlier groups coming from the Italian and South Korean base stations have also been caught at Curchgate and Perth with possession of high worth neon diamonds.

There is indication that these diamonds are made from **Kimberlite**.

No signs of rock of any formation including basalt in that.

But the diamonds from **Axinite** or **Herkermer** which is found in **dolomite** can not be ruled out.

Essentially it is a crystalline substance formed out of sea calcium which could be millions of years of sedimentation, decomposition and setting time.

It is so hard and the light passing through it gives a colour of neon. They could be also from **AXINITE**.

DISCIPLINE ONE SEGMENT TWO **CIVILIZATIONS and CULTURES**

Satya was looking at the temples in **Thailand** and **Cambodia** on his way to **Vanuatu** Island.

Angkor wat temple could have been built some where in the middle ages of **1130AD** and so on and went on changing from Shiva temple to the Vaishnavite temple.

It was built by the kings **Suryavarman of Khmer Empire**. Completed probably by end of 1200 by another dynasty and latter in 1700 era converted in to a Buddhist temple.

He was reciting what he read about the temple architecture every where.

Even in 1100 AD not many metal utilities and instruments were available. But the architecture has greatly developed giving rise to many arches planning and construction.

That has placed limitations on the materials that could be worked in constructing these temples.

These temples could also mean a remembrance to a devastating **Tsunami** in the earlier years.

The mud bricks, formed with hands, were in use at many places during the era.

The techniques of **Prefabrication** of the stonework, or the mould-ing of stone at ground using chisels and hammer and getting the symmetrical geometric arrangement of stone indicates that the builders of Stonehenge had mastered architecture and public utility and have used surveying as qualitative work.

The earliest large-scale buildings for which evidence survives have been found in ancient **Mesopotamia**.

Moon Goddess **Nanna temple** on top of the **Ziggurat at Ur** was built by the kings.

Bricks varied widely in size and format from small bricks that could be lifted in one hand to ones as big as large paving slabs.

Rectangular and square bricks were both common.

Drawings survive on clay tablets from later periods showing that buildings were set out on brick modules.

Bricks were also being fired for standing against weathering conditions and surviving records show a very complex division of labor into separate tasks and trades.

The Egyptians used engineering, with primitive technology; they did not use wheels or pulleys.

They transported massive stones over great distances using rollers probably of tree trunks, ropes made of vegetable leaves and sledges made of stones cut to wedge shapes. Using such they have hauled the stones by large numbers of slaves.

The methods used in the construction of the pyramids have been the subject of considerable research and discussion.

About the **Great Pyramid at Giza**, Andrzej Bochnacki did great research on the mechanism and mechanics, feels that the stones were tided to boats and transported during High tides.

That wooden pulling carts probably having three four round trunks at bottom for rotation and on top non moving platform could be their mod-us operendi. Such vehicles with out wheels were employed for land movement.

The lifting was done using slant platforms built either out of accumulation and compaction of earth or using dry stones nicely packed were used for pulling the stones for different heights.

May be theory of triangles which could have been the thesis for Pythogerus theorem, was used in arriving heights. Based on such 3,4,5 formula the bases for these pyramids were built starting from 2000 BC on wards by the dynasty of pharaohs.

They also might have employed tree trunks drilling hole though and putting a wedge to arrive at human or animal, knee type technology which could have been used for lifting the stones.

At that time as per history it took around 20 years to construct each Pyramid and the life expectancy was only around 30 years.

Hence at least 2 generations of workers, technicians and Engineers could have been used.

What was their fate after completion of each structure needs a research?

The **Great Pyramid of Khufu** was built 1500-2000 years before the others. It was built around 2560 BCE as the tomb for the **Egyptian pharaoh, Khufu** who ruled during the Fourth Dynasty, in the Old Kingdom.

Strangely, of that time it is the only Wonder that still survives.

The Great Pyramid lies in Giza, Egypt, having been built on a plateau near the Nile River.

Khufu's pyramid stands 451 feet tall.

It was originally 481 feet tall, but invading Arabs stole the top 30 feet

of stone for their own buildings around CE 650.

The Pyramid is made up of a total of 2,300,000 blocks of stone, which vary in weight, the largest weighing about 15 tons.

In Kerala, Nepal, Mongolia and some other places, we see the 600 year old wooden constructions which are still existing.

The ancient Greeks never developed the strong mortars which became an important feature of construction from 16 Th century onwards.

Previous cultures had used lime mortars but by adding volcanic ash the latter civilizations managed to make a mortar that would harden under water.

In the modern construction empires had trade guilds.

Most construction was done by slaves or freed men.

The use of slave labor undoubtedly cut costs and was one of the reasons for the scale of some of the structures.

These empires placed a considerable emphasis in building their buildings extremely fast, usually within two years.

Sophisticated timber cranes allowing them to lift considerable weights to heights.

The upper limit of weight lifting was the order of 10-30 tons.

As we go forward we see the protectionism employed by using the Army, Navy etc, by the then Kings and Emperors.

However no indication does exist of the type of detective and policing services the kings employed.

Temples as shelters against natural disasters, and for community activities were probably the theme of coastal areas and so that of Rajaraja Chola and his son Rajendra Chola I.

This coincides with the approximate age of 1130, because the Cholas were from 1000 AD onwards ruling vast stretches of south India, Srilanka and other areas in eastern provinces.

Rajendra Chola-I, in fact annexed parts of Malaysia, Thailand and Khmer Kingdom of Cambodia.

That speaks about same time disasters a possibility in to going similar structures.

The maturity and grandeur to which the Chola architecture had evolved found expression in the two temples of Thanjavur and Gangaikonda cholapuram.

The magnificent Siva temple of **Thanjavur**, completed around **1009 A.D.**,

was a memorial to the material achievements of the time of **Rajaraja**. The largest and tallest of all Indian temples of its time, it is at the apex of South Indian architecture.

When these dynasties existed, the rich had their houses, the poor houses were often effected by the earth quakes, Tsunamis, and the cyclones.

The temples were centers of cultural activity, as well they were to house the Habitat at time, when natural calamities occur.

Hence the bases are wide to accommodating the quakes, and wind storms.

The temple top was embedded with bronze, or copper to serve as the lightening arrest-or, added to that a tall bronze column is erected as a separate pillar to take care of the lightening, and this was worshiped separately.

The biggest trade by these kings was across the seas spread up to Philippines and Africa.

They used two masts on the decks of their ships to balance the wind forces at the equator. They also built some temples in Cambodia, and other countries at that time.

The Pallavas were instrumental in the transition from rock-cut architecture to stone temples.

The earliest examples of Pallava constructions are rock-cut temples dating from 610–690 CE and structural temples between 690–900 CE. A number of rock-cut cave temples bear the inscription of the Pallava king, Mahendravarman I and his successors.

Early temples were mostly dedicated to **Shiva the god of anger and destruction** who needs to be pacified **indicating a resemblance to the natures' fury which** they have faced.

The **Kailasanatha temple** in Kanchipuram and the Shore Temple built by **Narasimhavarman II**, rock cut temple in Mahendravadi by Mahendravarman are fine examples of the Pallava style temples.

The temple of **Nalanda Gedige** in **Kandy, Sri Lanka** is another example of similar architecture.

The famous Tondeswaram temple of Tenavarai and the ancient Koneswaram temple of Trincomalee were patronized and structurally developed by the Pallavas in the 7th century.

Satya has by then memorized and built a plan of action how better to build the temples and the churches at the Diamond Islands.

He started making the plans. At times of disaster these shall serve the

people.

There has to be heat at inner snactorium, followed by big arches for in take and out flow of fresh air.

The temples have to be raised by two meters above ground, slowly by using step after step.

He is clear in his mind what he needs to do to accommodating at least 1000 people at any given time.

He knew the back ground of most of the Religious priests.

The Hindu priest **Sastry** has a social and family harassment of his mother by his grand mother's sisters who in the name of god were taking away what ever his father brought as an officer of the temples.

His grand mother was so innocent that she used to donate her third saree and her next day meal items in the myth of a blessing of god from her mothers' sister.

In his twenty eighth year he learned many scholarly **Vedas** and gives lectures on life and his insistence is say the truth and always acknowledge the donor. Never deceive a person.

He knew about reverend **Dharma Isha**, who has seen the natures furry of 1977 in Machilipatnam of Andhra pradesh, where all his family died instantly with a killer wave striking instantly in the night.

His father was left alone who latter converted to **Christianity**. He of late in his teens saw the Climate change with the **HudHud** Cyclone off Visakhapatnam coast.

Many of his devotees of his church ran helter skelter with no aid coming for months. Now in his thirty years of age he is more a Christian and devoted more to the Lord.

Similar to both of the above scholars is **Imran** who have vouched not to marry and remain a devotee for Islamic studies and remain attached for good of people. Fortunately he is from Mysore area.

All the three are from India.

The **Anvers** and **trinity Islands** will have some religious structures because the size of islands is very big.

Sastry intended to see some temples in East Coast of India, one of which is a Sun god temple.

The original name **Harshavalli** means abode of joy.

It is believed to have been built in the 7th Century AD by the Kalinga rulers **Devendra Varma** of Orissa.

The temple is built in such a way as to make the **Sun Rays focus on the feet of the God twice in the year in the months of March and September** in the early hours of the day.

The rays so focused on the feet of the Idol through the five entrance gates of the temple, remain for a few minutes. 1. Aditya 2. Ambika 3. Vishnu 4. Ganesha 5. Maheswara, represent all the faiths.

Finally the devotees visiting this temple, go and worship the presiding deity Sun God about whom the puranas speak as the embodiment of Trimurthies, Brahama, Vishnu and Maheswara.

Another 20 km away another temple which was also a center of learning resembling **the tortoise** built around 1250-80, with the belief that the god acts as a tortoise to **float the earth**, which was facing severe water inundation due to **tsunami**.

The destruction in both periods could be so high that the belief for gods apparently visible is increased.

According to inscriptions in the temple dated 1281 AD, the holy place of **Kürmakshetra** was reestablished by Sri Ramanujacharya under the influence of **Jagannatha Deva** at Jagannatha Puri. Later the temple came under the jurisdiction of the king of Vijayanagara. The temple is dedicated to **Sri Kurmanatha**, the second **avatar of Lord Vishnu**, Kurma Avatar.

There is another temple of Kurmanatha in Kurmai of Chittoor District of Andhra Pradesh, India.

There is also a **Yoganandha Narasimhan** temple in front of **Sri Kurmam temple**.

His next place will be at Varanashi, he needs to see how they prey the god on the banks of river Ganges in the morning and evenings.

He has decided to end the **erratic mental** behaviors of Antarctica which were followed from **Tierra Del Fuego** place or island needs to be adjusted in the brains of the people for better thinking and long life.

He felt that the Ice **shelf's and mountains** covered there will be seen as similar to **Himalayan gods** and priests.

It is a matter of time when he will preach along with others to concentrate on **medication and yoga**, they will riddle the sickness happening there.

He sure will do the prayers for *Samundra [the ocean]* *The tortoise*, the sun god a total rendezvous. It is humanity that has to be exhibited and endured.

There were the heads who asked for construction of Venkateswara temple, and Shiva temple, which he promised he will do on hill tops at suitable places. **Key** to the success of his mission is **Satya** and Architect Samuel.

He knows that General will understand the needs when they present them systematically.

He visualizes a uniform slope and connected drains for drainage of water in the compound and outside the temples.

-

Dharam Isha thought he shall visit the **Saint Francis Xavier church** before he goes to the Brabant, Liege Island, and Trinity Islands where he is likely to see the operation and rituals of the church.

He is keen in the Saint Francis church built some where in **1552 -in Old Goa** which is a very famous and old Church in India.

Though he called dharam in his native language he is Reverend Jacob Isha. He has to drive away the cynicism which is an inclination to believe that people are motivated purely by self-interest.

This is also called skepticism, a school of ancient Greek philosophers, the **Cynics** was a meaning out of such. This has to be driven away.

The **basilica** holds the mortal remains of St. **Francis Xavier**.

The church is located in Old Goa, which was the capital of **Goa** in the early days of Portuguese rule.

As a true Reverend he has visited the **Jerusalem, Rome** and other important destinations.

Imran as Muslim scholar is for the welfare of his fellow Muslims, who has to go for prayers during morning and night.

The term Clergy may also include the body of Muslim Islamic scholars trained in the whole body of Islamic law and in other Islamic disciplines; but some times and in some places as a Islamic clergy he has to fulfill the role of a counsel for the people in a democratic way, keeping the place, the situation the need and the disasters in mind in a Democratic way.

Some one who knows **Marino**, who is a beautiful North African Public health specialist.

It may take them some generations to make up the strength of elongated muzzles to have a flexural strength in sports and other arena.

One of his friends have said I know by seeing you will fall for Marino, her beauty is such and you are like a fan for her, but let us also prey that, the

deadliest disease from Sudan which can spread anywhere is Mycetoma, which is a flesh eating, bone destroying disease whose prevalence and etiology are not known even today.

The earlier engineer said, this could be a modification of TB, which attacks the bones.

DISCIPLINE ONE SEGMENT THREE PUBLIC HEALTH

Doctor, 'how is my husband', she was looking at the man on the stretcher.

That is Calvin on the stretcher. She is Loire his legal wife.

This time there is no Edward and no Irwin.

The scene is not in Europe.

This is New Zealand.

Lorie along with her two grownup children is standing outside the Christ church office.

The reason he is sick and in a level six treatment center is because of his loss of memory.

He suddenly started feeling giddiness and started vomiting.

He visited many new Islands near the Antarctica.

He took almost 3 days, and stayed in guest houses in cold weather.

The cold was not more than -10 degree Celsius in night.

The camp and the guest houses were well furnished.

He saw the arrangement of finances. He also saw the logistics and planned living conditions in each of the Islands.

It is wonderful. He felt but he forgot about the way the people live in Terra Delfugo.

That was it loss of mind, memory and vomiting, every thing happened in no time.

The head surgeon General was told by the scientists, that they are ruling

out Liver and testicular mild cancers because the rise in Alpha fetoprotein (AFP) levels are of no indication and can be due to food changes.

They said non-malignant conditions such as , cirrhosis, benign diseases of ovaries & breast been known to cause elevated glucose designated as CA 15.3 levels in women.This gives an indication about Serum in body.

CA 19.9 are estimated for gastric/pancreatic or stomach cancer - It is a diagnostic tool for gastritis, abdominal pains, or gas.The numbers are markers for tests.

Carcinoembryonic antigen is also done to know about digestive tract.

Epstein Bar virus (EBV) has been has been ruled out.

CBC Blood test lists the amounts detected of about 44 substances normally found in the blood and compares the blood status with known indicators of diseases.

DR-70 is a simple blood test that screens for 13 different cancers at the same time.

The scientists said we have to see for him to gain to normal function we need to shift him to Geneva after a week.

There is nothing wrong with him.But he cannot respond to any work for much longer time.

He has seen the Falk Islands and the governance there, which is under U.K,but with a government there.

The other is George Islands, George Sand witch islands where population is less than a hundred and tourist season many tourists come there.They are controlled remotely by the Falk Islands.

With over 3000 population the life, the farming and other issues on the Falk Island looks great.

Now he has to go back for testing and treatment if required.

Architect Samuel saw the works done by the Indian contractor with in a span of 30 days.

He felt he is impressed.

The works are well done by the Indian contractor.

All septic tanks are connected to the 5 buildings which are now nearing completion.

City plumbing from houses to the main tank is well done.

Slope and direction of soak pit and the treatment plant to treat this water along with the proposed drugs plant are well built.

Plumbing water supply and drainage, has needed some expertise beyond the technician work.

This job is better handled in India by civil Engineers and plumbers.

But in West the mechanical En-Engineers handles this, thus leaving the floors of baths, rooms, Engineers with out a draining out 'P' Trap connection.

This causes ample of nuisance on the floors.

He talked to his workers from Indonesian and Indian nations.

They have shown to him that, 'S' Traps are used for either Indian or European water closets. 'P' Traps are used at floor drains. All the drainpipes are connection by 3" PVC pipes and Led to manhole and then to septic tank.

It is better that only water closet and urinals are connected separately and with a separate manhole they should be taken to septic tank. All other water shall be led to a soak pit and allowed to recharge the ground water. But here we are not allowing that and we shall be able to send the waste water to treatment plant.

The main water lines from overhead tank are 50mm, and from then 40mm and 25mm are drawn for Units of houses. The final bib cock points are of 20mm threaded, concealed G.I. Pipes.

The septic tanks of suitable size with top inlet tank middle settling tank, and final water out let tank are to be suitably con-structured. This avoids ground water contamination.

The toilets inside were fin-finished with glazed tiles for easy wash and to avoid fungus, bacteria, germs and mosquitoes. There were tower rods, a beautiful mirror, a hand wash basin with a small shelf for keeping all daily use items.

They have shown how they fixed both a head shower, and a western batch faculty. Suitable soapbox and curtain rods along with W.C. paper holders are to be fixed.

The internal floors are finished with a very slight slope to the point where drainage shall take place. The total slope shall be 12mm and in no case shall exceed 25mm.

Floors are made with slabs made of (a) Granite, (b) marble (c) Glazed tiles (d) or any other tiles or with 20mm chips concrete called Indian patent flooring (IPC).

Based on the position and hierarchy and the back ground family history the need for better finishes goes on. Some times we insist to call this as a pedigree.

Such IPC floors are useful for laying either a rubberized or PVC tiles to give better aesthetic appearance and to reduce noise level. They also do not absorb moisture and keep the floors tidy.

Finishing inside the open halls and kitchen area is an important aspect in house finishing. Proper anti termite anti moisture and non-flammable materials shall be used to make kitchen cabinets. All furnishings shall be covered with decolom sheets to make it flame proof.

A modern chimney, an exhaust, fans a service counter and spacious open area is a must for modern living. An electrical point for a small geyser a mixture and an oven are also must.

Proper dish wash and hand wash basins with rubberized auto cleaners for dishes are a must. Finally the life for cockroaches shall be bad in kitchen, with all damp-ness and moisture exhausting in minutes.

The architect and engineers started discussing how best to modify the modern bed rooms. Bed rooms are made to stand the dignity of human life. These shall have ample space for a telephone, for a reading table, for a dressing table and not less than a 7ft square Cot to be accommodated.

Suitable cup boards with hangers for cloth and for papers are also to be built by using proper non flammable materials.

The architect is satisfied and thought other things can be decided in due course.

The finishing of floors can be to suit individual taste.

The fully furnished houses with air condition, TV, built in computer screens and Internet with a fridge washing machine geyser and a heater cum cooking range are to be furnished for each or such who are in to family life.

The cots and bed rooms and toilets for family accommodation were modified to make them comfortable and make them feel at home.

By the time Calvin is back they need to finish some hospitals and many houses.

The target is in the minds of the workmen imported from India, Srilanka, Thailand etc.

DISCIPLINE ONE
SEGMENT FOUR
LOGISTICS

It says Calvin had an extra marital relation in Mumbai, and the Lady Zia with whom he had his affair in 2020 has given birth to a very bright child and he is already 8 years old in 2029.

Now Lady Zia is also at the Islands as a expert in the diagnostics of digital technology.

The Institution representing Engineers, and another Institution representing the valuation of assets have jointly decided to hold their talks at the new Island.

Every week they were to conduct their meetings and draw the funds from the head quarter for expenses.

They call experts, Bankers and so on from different places and educate their staff and help the governments in the public work administration.

The council representing the Engineers and working with FIDIC has its own way of working and has distanced itself from the above two organizations.

One day a complaint was lodged about an expensive Conclave which was shown on paper to the main land head quarters but never happened.

In fact the members were in a picnic with their own money and with their families and friends to see the near by Island.

The social sites were full of the pictures of the gatherings, and other entertainments shown with date and time.

The main land sent a notice of termination of the Chairman and secretary of the organizations.

They desisted and tried to get a stay from the main land court in absentia.

The court declared them as persons not available to the public and dismissed the petition. This is fast action by court, which normally takes sets of years under Indian Judicial systems.

The association sent message to General Frank and Stuvart to dissociate them from any activity of the association.

It was done with out hearing them.

Their belonging were searched, their accounts seized and the monies were

recovered, as if it is cement bags stolen by a watchman.

Next day new chairman and new secretaries have taken over the charges.

For construction works it is better to calculate load distribution of welding transformers, motors, pumps, piling rigs, lighting etc., and provide suitable size of 3 ½ core cable where the ½ core is used for earthing.

The ships have come and small unloading machines have started unloading the packing.

Many types of packing have no names.

They could belong to construction workers tools and tackles.

Some are accessories to construction.

They are labeled well and who has to receive also is written on them.

Some owners have no idea that these packing's have arrived.

They arranged a tripod like lifting and long distance moving rope way for cartoons and moved them beyond the high tide points.

Some were laying there they may contain valuable papers or clothes of several of the people who came there.

There could have been a receiver at port if the port is operational.

The instruments for Communications have also arrived.

Some workers have searched and taken lightening arresters and red indicative lamps for night riders, they are required here on this island and are also required for high-rise buildings.

The size of steel or aluminum flat to be used and number of lightening arresting pits to be made for building has to be decided by a qualified electrical Engineer (a) based on internal load utility (b) Length of building (c) The light of building.

Transformers of which have arrived have been shifted to various places for installations, along with suitable capacity relay switches also are planned for in station to avoid power fluctuations.

The engineers have established Load centers proper load distribution, as well as to enable the monitoring of instruments and functioning of furnaces and conveyors escalators and lifts.

This monitoring is always connected through sensors and load cells to central control Room.

The central electrical control room shall be of proper size of accommodate all cables, cables trays.

This room as well as central control room has dummy floors for operation purposes.

Fire hydrant systems of at least two tires have been provided. The one hydrant has to be from the overhead tank, the other from reservoir.

Ducts are meant for ventilation, circulate fresh air, to heat the rooms, and in tropical climates to maintain room temperature of 280 C. Ducts are generally made of G.I or aluminum sheets, with rock wool in between for avoiding losses in air.

The marked their discussions around the systems used by Satya and his team in the last town ship at Australia and Newzeland.

The systems modernized with systematic review of products for longer life of Buildings which could be around 60-70 years along with an orderly plumbing and sewerage systems were welcomed by one and all.

They believed that they need to call the team for a better faster progress. In the process they are aware that the team or part of its services may be utilized for construction of port.

DISCIPLINE ONE
SEGMENT FIVE
ALTERNATE MEDICIES

It was a party there was band with sound of music. Some one was feeling how this band has come to existence.

People have started pairing.

The modern trend of LGBT community was clearly explicitly visible in the pairs.

Gay, Lesbian, and transgenders pairs as they felt for their physiological as well as psychological needs.

The head of the meeting or the host of all Guests was Raushan.

He could not be implicated much in 2020 happenings. But was in jail for almost two years with out charges.

Many of his vault treasuries which he acquired by killing wealthy people have missed under mysterious circumstances.

He used to travel, please the wealthy by meeting their entertainment needs.

In the process he could convince them to store their non taxed wealth at his Vaults.

Many attackers of ATM and cash chest man-agent companies of 2020 have under went a 2-3-5 year jail term.

Some of their wealth and assets have vanished overnight.

Their own kith kin and associates have drenched them.

Raushan thanked all guests, and said he wanted to deal with the oil giants in the Caribbean Islands.

The daughter of Raushan has become old by another 8 years. Galica, hugged each one of the important guests, so close to her chest, and each was forced to loosen their suit, so that she touched their hairy chest. She lip locked some so much, they almost ejaculated then and there.

She has learns the way to do modern business after two years of slogging in jails.

At one point in a jail she told the Jailer in confidential talk that she would love to live in his house for a week and sleep with him in his bed.

The meeting was coming to a close. Finally she hugged Ahsoka and asked “when you have such a beautiful and hazel eyed wife Kum, why is your head getting bald.”

Some one said last time you asked him same,he is son of Kapila,and I am sure you have not met him or Mr.Kapila during last eight years.

She said yes.Now I know I know what he will say also“Nervous, and may be premature discharges”.She looked in to Ashoka eyes.

Ashoka said that system is gone now.Kum and me are very happy couple .But at another point

I will tell you about pinel glands and their duty.

She said be tension free have a ‘Try with others, i can give you three or four sessions, from tomorrow, during next one week, and let her company with Marcos during the period”.now we need more of you than ever before.She said and left along with all the guests.

Ashoka started explaining to other friends and his wife Kum.

There were other doctors who are in to alternate natural medicines.

One of them said, ElectroDermal Screening (EDS), is a form of computerized screening based on acupuncture. By taking readings at the different acupuncture points, doctors can tell the health of the organs and of the body itself.

The other said it is successful, by having the patient hold substances or remedies while the EDS tests the acupuncture points, the physician can tell what the patient is reacting to and what might heal him or her. EDS can be used to detect many disease states, plus the presence of chemical toxins, food and substance allergies, and imbalances in the body.

Then the first doctor said,Electro-acupuncture biofeedback, a form of EDS has been very successful in screening for a wide variety of conditions. However in screening for cancer it is advisable to also use traditional blood tests, blood analysis with a dark field microscope, and other screening tests. There are a number of naturopaths and alternative physicians that provide EDS screening.

The naturopathic doctors said this is the place where we can grow plants that live on Himalayas.We need good land and two or three places to have good hospitals.This is place where we will be successful.

He further explained I have my father’s friend tested for GI track problems using Endoscopic ultrasound is another test being used to detect tumors and help in diagnosing GI cancers.

Unlike a traditional endoscope, which looks inside the GI tract, the

endoscopic ultrasound looks through the tissue into surrounding organs. Many times, if something is found, a biopsy is done at the same time as an endoscopic ultrasound to determine if it is cancer or just an infection. This technique is also used to help determine the stage of pancreatic cancer without doing surgery.

All the alternate medicinal systems we are using [1] same machines for analysis[2]we are using same DNA techniques for blood sampling,testing and arriving at the stages of each of the disease.

Lymphocyte Size Analysis was developed by Valentin Govallo, MD, a Russian immunologist.

The test measures the diameters of lymphocytes and counts the numbers of swollen versus normal cells in a sample of a patient's blood.

If the number of **swollen lymphocytes** is excessive or when the ratio of swollen to normal **lymphocytes** is out of balance, then cancer will most likely develop. A lymphocyte is a **form of white blood cell** whose numbers increase during infection.

An Allopathic and an Homeopathic doctor joined their conversation.The homeopathic physician said now we are granted license to do surgery.We also feel that **Maverick Monitoring Test (MMT)** is a not really a cancer test, but it measures **malondialdehyde (MDA)** levels in the urine or blood.

The amount of MDA tells the physician how much free-radical damage the body has sustained, as well as how the patient is responding to a nutritional anti-oxidant program, based on how much MDA levels decrease while on a particular therapy.

The allopathic doctor added,Maverick doesn't diagnose a disease, rather, it highlights the possible preconditions that may contribute to an illness and can help detect a health problem before it occurs.

Another interesting thing the test can do is measure the effects of chemotherapy and radiation and help determine the best dosages of antioxidants to counteract these effects.

He concluded by saying homeopathy and Ayurveda and such feel that GI track damage over years is an undetected infection which gets close to the head and brain.

I had done so much study on these consequential effects and found certain

medical dictionary terms and medicines that are good for Lumber
ridiculopathy Spondilites, and sciatica and such which are the happening
due to **Gastro Interstainal and or rectum infections**. These also could be
because of bad e-coli unless ruled out.

DISCIPLINE ONE

SEGMENT SIX

CLIMATE CHANGES

People are trying to find why China is not speaking word about climate changes and new Islands.

Britain is busy in Cook Islands.It has used its companies to concentrate on Small Modular reactors for the towns usage.

That is a place where lots of aerosol particles are burning.This substance is enclosed in water particles and under pressure and is released as a fine spray by means of propellant gas in the winds.The organisms are spread in aerosols generated by showers.

This makes the clouds denser, whiter and more reflective.

This causes cloud albedo effect.

This is further described as changes in the rain patterns and water droplet sizes.

This has necessitated whole lot of new research.

While a combined research programme is happening at Vanuatu Islands.

That is it Vanuatu is the place where lots of hidden research happening.

Does the Disasters require a good fire hydrant system was one research port,which is part of several systematic studies on earth quakes,Volcanoes,Nuclear energy its implication.

Bhandari and **stuvart** and his men were determined to have a good Fire hydrant system with running water and a stand by post and house at regular intervals is a must.

Form hydrant system with, foam tanks made of stainless steel and pumps made of stainless steel are also a must.

In these rare Islands it is possible to have many health complications when working with Atomic power pats,gas lines,refinery area.

Mathne gas is found at a very shallow depth.Establishing a gas filtration and storage section on one of the Islands is inevitable.

In such a scenario all the industries needs a foam which protects the skin from burns in case of fires.

Most of the valves is on the **wharves** for **liquid loading** and unloading.There are also motor operated valves with pressure gauge,

temperature gauge flow meter and other Instruments fixed on the pipe lines.

These instruments are controlled from the central control room remotely by using the spectrum. The sensors, actuators and transducer play their part in converting the signals from electrical to digital and stopping the or starting the supply as needed. The normal pressure for gas and oil in pipe lines is 8 to 10 Kg./cm². For foam and fire hydrant the allowed pressure is about 4 to 5 Kg. /cm². Water lines are laid with concrete non pressure pipes in gravity flow. In pressure flow for city water supply RTZ – PVC, Cast iron (malleable) or steel (M.S) pipes with internal cement lining or pre-stressed concrete pipes are in use.

Satya is sending his Group of persons for looking after the Jetties and off shore works from Rome. Hoisting masts, flood lights, light houses, guiding barges in entrance channel are all a must for safety of living humans..

If iron and alike materials are to be unloaded the unloading steel pellets or balls are done in to concrete hoppers which are lined inside with stainless steel plates.

On top of this suitable size guide rails are bolted to see that materials do not get struck, in Hopper. Stacker re-claimers are used to stock semi solid non poisonous materials near Port area.

General Frank and Engineer Santha kumar, along with Commander Bhandhari has placed separate group of technicians and engineers for pipelines and related activities. The pressure mains are designed for 4 Kg./CM² pressure (working pressure). Suitable flow meters, non return valves, Air relief valves on ridges etc., are to be designed.

The pipe line has to be buried at least 1 m below ground level. Contaminated ground water shall not enter the pipe line.

Oil & Gas lines are another important factor in the lives for developed cities. The pipes are made of high grade steel and heavy wall thickness to withstand 10 Kg. (working pressure)

They are weight coated (with cement concrete) on outside.

They are buried 1 M in side earth. The welding of joints and testing, including NDT are to be as per AP1 – 1104.

The root and other passes of welding are done with high current of 32 Amps and above using DC welding motors. The lines alignment is tested first with water and then with a pig.

Any bend or obstruction in line will make the pig to stop or bend. The place is ascertained and as per established repair procedure and the joints are opened and welding done again.

New systems in place are direct sonography of sea bed, and random or little use of divers.

The welding and water pressure testing are automated on the barges to look more like a factory fabrication.

Installation is done using the Jack up barges, and tower cranes on large flat top, flat bottom barges.

All instrumentation as per (Supervision, control and Data Acquisition) SCADA are done and continuous monitoring is done at terminal stations.

To avoid scaling/cavitations and rusting suitable earthling is done at designated places on the length of the pipe line.

WELDING as recommended on drawings is to hold the permissible stress on weld in tension 150N/mm^2 , while in shear is 108N/mm^2

The strength of a weld is equivalent to the thickness of weld, the length of weld multiplied by the tensile stress.

That is area of weld \times stress. A factor of safety can always be applied.

Also the thickness of weld in no case can exceed the thinner of the two plates to be welded.

Normal welds specified are – 4mm, 6mm, 8mm and 10mm.

Scaling is to be removed between roots and filling, good grinding is to be done between successive welds to achieve bonding.

The quality electrode material, their burning, the current in transformer either in A.C or D.C. are prominent players. NDT check, flakiness check, and sonography are done on [1] Structural materials supplied by the manufacturer. [2] On welding performed by the site contractor.

The supervisors and engineers explained about the materials and the concept of construction for each work.

They were told to make a list of pending materials and their requirements at site by date have to be mentioned.

On completion of their site inspection Architect **Samuel**, General **Frank**, Engineer **Santhakumar**, **Murray** Center for disease Control, [CDC] Equipment engineer, and Cdr. **Bhandari**, the off shore works engineer met at a corner and all sat on a bench near the **Jetty**.

Stuvert is a general contractor, he said Mr. **Satya** and their whole team of around six people are coming.

Bhandhari said in next 30 days we are getting around 100 administrators, Engineers, Doctors and all class of workers. Then By October we shall have residences for not less than 500 persons.

He stopped and looked in to their eyes.

Bhandari asked in what capacity.

Frank said less said about them the better. But other wise they are project consultants for all the three Islands we are developing now.

Santha kumar said, I am very particular that they assist us in ancillary, port structures and where we need to install **SMR[small modular reactors] and TGT or RTG[Radio Thermal Generators]**.

Frank said we are unable to set up total communication systems, and one of the five Islands we want to develop for communication system and another for fuel use research.

Those two are places Satya and their team will concentrate.

We have to keep daily two helicopters ready with all daily supplies, they do their work along with Raymond and others and come back here.

Samuel said I saw a ship heading some where I fear there are others near far to us.

Yes that is a big issue. It can be **Kapila- Raushan** Gang or any other but they are active near far Islands.

Let us disperse and do our works.

DISCIPLINE ONE SEGMENT SEVEN TESTING EQUIPMENTS For HUMAN HEALTH

The most important Cancer Hospital is composed of many instruments which produce radio active Radiation. Murray is in charge with his team for all instrumentation.

He was felt that the look out for cancer out of Radiation and Radio active materials is premature.

It is premature in this location as radio signals are yet to be established.

The infrastructure is comprising of around 20 test rooms, two patent waiting halls, doctor treatment rooms, and rest wards for 50 patients. Each hospital is separated and specially equipped for each eventuality.

This hospital is most important structure to take care of people working with SMR and TGT reactors. This also keeps a watch on the telecommunications induced radiation on human body. Cesium-134 level in the bodies has to be tested. The monitoring has to be continuous to keep the levels below 147.

The instruments are carefully placed for testing in isolation rooms so that the radiologists can take care of the radiation effects.

While not many women are expected, Mammotome Breast Biopsy System is employed as a first check for an image guided procedure (ultrasound) that helps physicians locate breast abnormalities and obtain tissue samples for diagnosis. Unlike other biopsy methods, the Mammotome is capable of sampling a variety of breast abnormalities with just one small incision and requires no sutures. However, it still uses x-rays to help guide the procedure. This system is to diagnose and treat humans immediately as needed.

The instruments for Tests for Colon/Colorectal Cancer: Carcino embryonic antigen (CEA) is a cancer marker are in the next room.

These instruments are to safe guard men from possible damages due to cold and icy conditions.

The oncology department needs minimum 3 tests positive to know some cancer is in the body.

Then only the doctor discusses with his patient about the procedures and options. He also need weight loss as another option to further his

treatments.

PreGen-26 is a new DNA Test for **Colo rectal Cancer** is not a predictive test but a test to detect the presence of actual disease in people with **hereditary non-polyposis colorectal cancer (HNPCC)**.

People with HNPCC have an 80% lifetime risk of developing the disease. The test, a **stool-sample** test was developed by Exact Sciences Corp. In active colorectal cancer, **DNA from tumors** is shed into the colon and carried out of the body in stool.

Equipment for **Lung Cancer** are also installed as the treatment is most important because people have to work near nuclear fuels. This test is fully organized in half a dozen rooms.

Sputum cytology is done using the microscopic examination of cells obtained from a deep-cough sample of **mucus** in the lungs can help determine if tests for **lung cancer** may be required. The tests may be such as the **Lung Alert** test.

Many are now using **CT scans** to replace **X-rays**, but **the PET scans appear to use less radiation than many CT scans** and may provide a more complete diagnostic approach.

Tests for Ovarian and Cervical Cancer, with **CA125[marker tests]** predictive levels can indicate cancer of the reproductive system including the uterus, fallopian tubes and ovaries. A safe system followed for future populations coming here.

Positron emission tomography with glucose analog scanner (PET-FDG) may also detect the presence of **cervical cancer** that had spread to **surrounding lymph nodes**.

Thinking of arrangements of instruments, rooms for tests and treatments and rest rooms for such of the infected when they came out to have a testing are well arranged.

One of the best things they have done is **planting of trees** seven years ago. The lay out and number of trees is collected from Google earth and Google earth, using the new **Iridium satellites**.

The next one street is for parking refreshments private rental rooms, hotels etc.

The next street has parks, and after those educational institutions, banks ATM s and other policing force offices.

The earlier streets have the Immunology center, passport and visa offices.

The fifth street in row is another hospital to gauge human Nervous

systems.

They include **Autism and disorders Spectrum**.

This is a new Central nervous system study center.

The feeling is that while there could be Disorders due to the radio active waves, they also will help in healing central **nervous system disorders** because of cold conditions.

Autism is a complex neuro behavioral disorder that includes impairments in social interaction and developmental language and communication skills.

They tend to be rigid, and repetitive in their behaviors. Children with autism have trouble communicating.

They have trouble understanding what other people think and feel. This makes it very hard for them to express themselves either with words or through gestures, facial expressions, and touch.

But are we prepared for changes in environment.

Once a man was very fond of having a particular dish whose taste he liked instantly.

He found the cook is nearby.

He told his wife to follow the cook and do the dish.

The cook is another lady.

She went to a beautician, the wife followed her.

She took her dog to a doctor, she followed there and finally she went to a tailor, and wore her attire and started the dish.

By the time the man returned she was ready in her house. He saw nice polished women with a Persian cloth tied around her.

She started serving the dish in a bowl.

He said the dish should have been fried in a pan. His wife said by the time the dish was in final stages the current [electricity] went away

.Hence she could not understand what is next.

The husband told the wife to follow her next day and make the **VADA, a south Indian dish**.

Next day the wife went along with her neighbor and she purchased some gold, she also did the same.

She again went to the doctor and the physio therapist. After that she went to a hukka joint in Banjarahills.

By the time they returned it was evening. They cancelled the program of making VADA for the day.

She told the husband all the story same to same. She said she felt relaxed

when the physio therapist was pressing her thighs and legs. She said she saw heaven when she had Hanukkah.

The husband realized that the wife is still not mature to segregate the good and bad. He sat by the side of her and taught her the making of vada. Which he learns recently from many friends and cooking classes.

He then gave her Arabian nights stories and asked her to tell each story every day.

By end of 50 stories she realized that she needs to be a mature woman and a future mother.

DISCIPLINE ONE
SEGMENT EIGHT
DIMOND ISLANDS-KIMBERLITE DIMONDS

The Antarctica continents and near nations such as Australia and Newzeland we have new Islands coming out of the oceans.

The **James Ross Island** group is a group of islands located close to the northeastern tip of the Antarctic Peninsula.

The largest islands in the group are James **Ross Island** is an **island** formed by four volcanoes in the **Ross** Sea near the continent.

Sir **James** Clark **Ross** discovered it in 1841, and it was later named in honor of him by Robert F. Scott.

Ross Island was the base for many of the early inventors.

Usually a clear night sky is not polluted by light from unnatural sources, it makes looking at stars easy at night.

September is on average the month with most sunshine.

Rainfall and other precipitation has no distinct peak month.

Zucchelli, Mc.Murdo and **Amundsen Scott** are some important stations of different countries which are very active today.

Anvers-island, Brabant, Trinity Islands and corresponding main lands of Atarctica and places are getting developed. Other places near, **Terra Nova** Bay area and **Rose sea** area are some of the major places now available for living.

The **President** was telling the audience, comprising of very high officials.

Over last three years there are some of **restaurants, houses** etc which have come up on the **new Found land**.

Still it is not claimed by any nation as **territorial right** for fear of action by the **United Nations**.

We are now proposing the territorial rights of such Islands which are in our back areas.

How ever the continent Antarctica is owned by very different nations.

Hence we suspect that many countries would like to declare the new places their own, depending on the position of their camps.

The ugliest thing is there is plenty of **thorium lumps** available in nature.

There are places where a highly **degenerated diamonds** called **Shallgu** are in circulation as a new **Gold**.

There is a peculiarity in the happenings. A scientist started telling.

Earth axis is inclined about 22.5 degree.

So the earth receives more light towards the Russian –Siberia, and in the South Pole towards the South America, that is towards **Terra Del Fugo Island of Chile.**

Over years we got less ice towards **Oceania** and **Australia**, and similarly towards the new found land of Green Land.

Now the earth has certain reversals.

Ice is settling towards Green land on north side and far away from New Zealand on south side.

In the process we have new Islands which belong to Americas.

We have preferred to call the New Islands on the American side as Treasures of earth.

Sea Diamonds is the exact name which we want to incorporate.

The Russian side Islands belong to them.

That was **Secretary of state.**

We are sending more ships for **construction** and making new **regulations** in the systems of houses, offices, communication towers.

Gentlemen we are in all sorts of emergency as we have to speed up space satellites and up linking facilities from ground.

We are looking to have temples for Hindus and rest of cultures who have already went there and are staying in new built hotels.

Technologies have changed over time said one person who is moving out of the conference.

Overnight my friend found enough plasticity in a mud in one of the small islands there.

That was **Engineer Raymond**, we have developed new concepts and new construction techniques and the materials now used will make the constructions to stay for 100 years.

Now our full army and civilian engineers will build the town ship to match a well developed area exactly in 90 days for at least 5000 residents from day one of start over.

But you need at least 90 days for planning 90 days for procurement and another 90 logistic days.

You also need 30-40 days for dismantling of some equipment and some time to send the personnel to their homes which comes altogether a bout 10 months for such a gigantic project.

Stewart from the American society of civil engineers was talking about it. So new regulations will be in force.

We shall meet after a month by then the UN resolutions will be in place and we will have a space station to monitor the happenings at home and our new territory.

Many people wanted migration to USA; in a world where tensions are daily routine the human angle is forgotten.

The migrants are asylum seekers, the people who have defected because of unforeseen conditions. But many are highly educated talented people who will keep our principles high.

We have granted many people citizenship rights in last one year, and we are relocating such people for further development of many places including these Islands.

We have some responsibilities in Africa, which we wish to full fill by using the services of the new immigrants from Asia and Mexico.

That was commerce secretary.

He has left along with the defense secretary and the President by then.

Raymond and General Frank took the stage.

Frank said I will be total in charge for all islands there and administration will be totally under my control.

We will establish marine and civil police.

We will establish **Judiciary and dispute redressal mechanism**.

We will engage Mr. Satya and his team as consultants for all works along with the international development teams.

Santha Kumar is chief engineer, Raymond here will describe you about the communication system.

Please do remember we are in the other half of globe of Earth where the land mass is less than 30% and population is about 11% and there are few problems of climate change here.

Let us hear what Mr. Raymond says.

Raymond started his impression by saying that this south block is not connected with other world either through the spectrum or through the broad band and communications.

We have many satellites which catch signals from a point on the earth and then irrespective of earth rotation they are relatively in touch with the receivers placed on the earth.

With IRIDIUM satellites in place which is a constellation of 66 communication satellites round the earth on pole to pole orbit at a height of 780 km, no communication, no data will be lost.

Till 2015 the transmitters and receivers comprised of five seismic, four radio nuclide, four infra sound stations to send data which were at equator of earth. Thus many times the data was lost.

The General continued. Most of the signals we receive for TV broadcasts are going to be in Ku band.

The Kurz (K-band) frequency range is that which is resonant with water. Due to this, the K-band is absorbed and dispersed readily by atmospheric water (Humidity and clouds) and especially bad in inclement weather.

The Ku band allows transmission at high frequencies and data rates while being able to penetrate the atmosphere with sufficient power left over to give acceptable signal performance.

Ku isn't infallible though. Due to its proximity to that magic K-band, it is still very susceptible to precipitation.

GPS often has a hard time getting a lock when there are a lot of clouds. Would that be for the same reason or is GPS on a completely different band to Satellite.

GPS is actually a unique case. It is broadcasting right around L-band, though it has certain bands that go higher. It is at a low frequency, at low power.

Any interference is going to absolutely kill a nice clean GPS signal, with clouds being the most common.

Even Data broadcasts will take a hit if the cloud cover is very thick. GPS signals are incredibly easy to jam due to the low power levels, but are hard to spoof due to the coding built in to the signal.

Many frequencies of radio waves have trouble penetrating water, so clouds and rain can act to scatter or block the signals from reaching satellite dish. Specifically, many providers broadcast in the Ku band, between 12 and 18 GHz.

The phenomenon is known as "Rain Fade".

And interestingly enough, rain fade is often more of a problem in places where it does not rain heavily very often.

This is because broadcast satellites use hundreds of "spot beams" to form Coverage contours with varying fade margins depending on the historical rain fade rates.

The engineers try to balance things out for a standard up time of 98% or so in all areas, but it never works out perfectly, and areas with a larger

population will typically be given more of the proportional power available in the satellite.

Since satellites use microwaves, isn't the best description that the water absorbs the signals.

They're not nearly in the same band. XM for instance uses 1.7GHz.

That doesn't resonate with water much.

We have no real understanding of electromagnetic propagation.

As the visible spectrum is refracted on rainy days creating rainbows, does this not also happen to the other non-visible frequencies

Electromagnetic radiation is a wonderful thing.

It brings us heat and lights up our day, it brings us radio and television and carries our telephone conversations.

It brings us the Sun's energy which is needed by all plants for photosynthesis and growth. It brings warmth to the inhabitants of the planet.

In 1873 James Clerk Maxwell suggested the existence of electromagnetic waves and worked out mathematically what their properties might be before anybody had ever observed, or even thought of, such a phenomenon.

Electromagnetic radiation has the following interesting properties,

It can be found in nature or can be man-made.

It does not require a medium for propagation. It travels with the speed of light. It carries energy as it propagates.

The higher the frequency, the higher the energy associated with the wave.

It can transfer its energy to the matter on which it impinges.

Its transferred energy may be sufficient to break chemical bonds, ionizing the matter on which it impinges.

It can be used to carry information. It can be broadcast outwards to reach many locations or it can be formed into beams to reach a particular spot, and the communications are no more analog, they are digital.

Despite all the communications benefits **"electromagnetic radiation" makes possible, the name has a sinister connotation.**

The alternative name, "radio waves", does not seem nearly so threatening.

He said my interest is to let you know that with more water, less land the communication links do not pose any health hazards.

He concluded.

All men and women dispersed for lunch.

There was a video running a commentary and action of men at work in the new Islands.

DISCIPLINE ONE
SEGMENT NINE
RADIATION

Cathy said let us in this group discuss about **Radiation** as we know.

This is to understand what is affecting the **climate of this globe**. Is it the sun's radiation or the man made radiation.

One after the other started telling. The Electromagnetic radiation is the propagation or traveling of energy by means of **electromagnetic** waves.

These waves can be **inter woven**, interlinked, and can vary in electric and magnetic fields. Heat, light, radio waves, X rays and gamma rays, and such traveling with the speed of light carry EMF.

Perceived is that it is harmless below the frequency of X rays.

X ray frequencies and above, the electromagnetic wave carries sufficient energy to cause **ionization** of the materials even if it touches the **human** body hence can be **hazardous** to humans and other life.

Another started saying, **Nuclear radiation** is the flow of discrete, high energy sub-atomic matter particles, not waves, resulting from the natural decay of nuclear materials or from **nuclear reactions** such as **fission and fusion**.

The velocity of the particles may approach, but can never reach, the speed of light.

The ever present background radiation on earth is due to the decay of earthly nuclear materials found in the earth's crust but also due to debris from the **extra-terrestrial fission** and fusion reactions taking place **on the sun** and the **stars in the cosmos** which result in the constant bombarding of the earth by cosmic rays.

Long **distance radio** communications depend on **ionization** of the upper layers of the earth's **atmosphere** by **cosmic rays**.

At frequencies above the upper end of the visible **light spectrum**, starting with **ultra violet (UV) radiation**, the **photon energy** becomes sufficient to cause **ionization damage** to human body tissue.

Over exposure can **cause burns** due to the heating effect of the **radiation** but prolonged exposure can result in **chemical changes** to the **skin tissue**. **Ionization** can cause **DNA mutation** leading to **tissue damage** and the **possible formation of cancerous tumors**.

Cathy said,the **Eye is a biological miracle** with a sensor network that replication is near to impossible.Cathy thought for a minite about the happenings about two years back in **2023 at Venice**.

It is a devastating earth quake.On the night of August 12 th 2023, she sat along with mother and father in the porch of their apartment looking at stars that were dancing in the waters.Some where there was a motor engine working.

Few people were returning homes at night 8.00 PM.The day was pathetically hot the sun has melted what ever it can by using its 40 degree temperature.Still the water vapor is in the air.

Mom cooked the Pizza and a beef roll.There was a soup and a coffee pot is still steaming till we finish the food.

There were rattles.The rats and other similar small creators living in water and and other buildings started rolling from one side to other and started making noises in groups.

At first they thought it is an invading army.She was trying to locate a bat to disperse them,but they were coming out and running from building to building.

Then suddenly she saw a stream of water flowing above the height of her about 7 to 8 feet above her.

She started shouting for her father and mother to go up stairs.

The voice was hopelessly loud.

It is in fact for a girl of her age 1000 times higher than the decibels she uses in her sounds.

Mother father and she started climbing the stairs.

From some where a jerk came.

The house started crumbling like a pack of cards.

The electricity is gone.

But from the sounds and voices she could feel and hear that the adjoining houses also have collapsed.

She is in water, she is searching pointlessly for her mother and father.

She is getting drifted.

The noises were slowly reducing. But it is the fall of the buildings that is happening in slow sequence, making her to hear rattle like sounds.

She found no water on the ground after 20 minutes. It is all slush.

She is crying asking for help and asking for her father and mother.

She had some thing hitting her on the head.

She lost consciousness.

On Richard scale it was a 6.2 magnitude earthquake that struck the Umbria region in the early hours of Wednesday morning.

Italians have taken to social media under the hashtags #terremeto and #prayforItaly to share their stories from the dramatic shock that devastated hillside towns while residents and holiday-makers were asleep.

More than 2000 people have been made instantly homeless by the quake that shook buildings to the ground within seconds and in some cases tore entire walls right off.

Inside, intimate scenes of family life sat untouched while in some properties phones could be heard ringing off the hook as people called for updates of their loved ones who were no more.

Italian news agencies wrote of horrific scenes when paramedics tried to pull a six-year-old girl from the rubble of a destroyed home where she was trapped with her twin and four other people.

There were shouts and people were crying about the dead one.

Meanwhile a dramatic video has surfaced of a rescue worker

speaking to a woman who is trapped under piles of rubble.

The worker was heard telling her to breathe ,he could only see only her arm which is visible.

Another person local said his sister and her husband were trapped under the rubble as he waited for diggers to help get them out.

“There’s no sound from them, we only heard their cats. I wasn’t here, but as soon as the quake happened I rushed here,” he told the press.

“They managed to pull my sister’s children out, they’re in hospital now,” he said.

Many patients were being treated outside the hospitals and many locals were dazed by the event with one man walking the streets in his underwear carrying a suitcase.

An other said he saw 15 people digging with their bare hands to save a family of four.

“I can hear one of the children screaming,” another one told Mail Online.

A woman said she “fled from the house naked” after the old houses and main streets collapsed before returning with a tractor to clear the streets.

A reporter was on holiday and was forced to evacuate her property after the quake.

“Plaster everywhere. Power down,” she wrote on Twitter, saying they went to the garden to shelter in the “pretty terrifying” event.

Another man said “10 seconds were enough to destroy everything.”

European leaders have offered assistance as rescue workers scramble to pull victims from the rubble of the devastating quake that is the worst the country has seen since 2009. That was in 2023, August.

It was after a day as said by the local disaster management that she Cathy is rescued from below the debris of her house.

She went there to see what is Available in the form of her belongings. It is all slush.

The aid workers has taken out from the mud many bodies.
 She could recognize her mother and father.
 Father came form Romania, and mother from France, both were at University of Milan where they fell in love.
 They married and got job in FAO of UN.
 She is now 21 years old. She had no certificates with her now. In fact she do not remember her pass words for web portals, to get duplicate copies stored in mail box.
 Government ordered for issue of fresh certificates which she got in the refugee camp.

She had nothing, the bank computers and records, where their accounts were maintained is also gone below the ground.
 After a month she went to the head office at Milan where she was accepted as inherited kith and kin.
 Luckily for her she had about 8600 euro in her account and about same money in her father and mother accounts.
 They had merged all accounts and gave her a new pass book.
 She asked for the valuables they kept in the bank locker.
 The bank took note of details about gold and other valuables and asked her to sign the insurance.

She lost whole of Venice, there are no friends and family members now.
She has no idea who else can be her contacts. She has to look for a job. Lucky for her the FAO offered her a job at Rome.
She started feeling the hissing sound in her ears. She is not alone.

Cathy said the eye is essentially a very sensitive receiver and image sensor.
It has a wide band tuner, the retina, with a bandwidth of the order of 350 T Hz and can detect electromagnetic radiation in the frequency range from 400 to 790 T Hz, (200,000 times higher than microwaves).

Raman said, it has an automatic gain control system, the iris, which protects against signal overload.
It has a self cleaning and protection mechanism, the eyelid.

It has an expected lifetime of 70 years or more years.

There is no electronic equipment which comes anywhere near to this level of performance.

We could also consider that some people think it's a biological miracle and that is why we all do not die from exposure to all the electromagnetic radiation in the atmosphere.

For Raman the life post the Kathmandu Earth quake of 2022 May, is a disaster.

He has been witness to disaster after disaster from 2020 on wards.

His Uncle was an engineer with a construction company.

In the 23 rd floor slab the shuttering yielded while concreting.

People say there was a mild tremor due to the Mining in the area.

It could be around 2.5 on Richard scale but the inevitable happened.

Some weights have fallen on his uncle and he rolled down to ground from 23 rd floor.

The disaster here is an accident.

Uncle died instantly leaving many of his relative helpless and clueless about future life.

He used to talk about the life he wants post 2030.

But he is no more. That was in 2020.

2021 was another miserable year in his family.

His father a divisional Engineer in BSNL was responsible for monitoring the spectrum and there by the Radiation.

He has to measure the cell tower power utility, and then convert it to show how much radiation is there at that point.

No instruments are still made to measure the radiation at 3m-5m-10 meter distances.

The owners of cell towers were not showing the exact readings and asking for the signatures of the staff after office hours, at pubs and bars.

Things were cozy for some time of around two years.

Suddenly the measurement meters to measure the radiation at fixed distances have come up in market.

Some one purchased huge number of such meters.

They took readings at all cell towers.

It is found highly populated areas have more radiation in nearby areas, and there are skin problems to people surrounding the towers.

That led for a PIL [public interest litigation] in the courts, courts asked for the checks the monitoring agency did for last 6 months as a comparison to what the new agency are doing as citizen network.

The court found Raman's father has certified all fictitious readings in bars and asked his staff to sign on the dotted lines.

They all were terminated from the jobs.

The family has no support from society or from the department he served for 25 years.

There were problems in paying the tuition fees for sisters.

Marriage of sister is suspended. One of the house to be taken possession is sold at 80% cost or 20% loss.

The family shifted to Chennai from Patna.

By then the grand father was in his house in mount road.

He was a rejected man by Raman mother.

She made her decision that either one only will live with Raman family.

But his grand father is no looser.

His grand father always felt that nature has its last laugh it says what it wants.

To confirm him beliefs his car and he were taken inside the sea on 2023 November Tsunami.

The details of his insurance or savings his fixed deposits, insurance of self and vehicle etc were not available during last one year. It was a disaster every year.

Cathy said, he has described the number of sensors and machines developed to match the function of the Eye.

As said it is a miracle un replaceable. But we are going to do some thing and replicate it more and more.

Then the other said how do we with stand the, Radio Frequency Safety Limits. Specific Absorption Rate (SAR) and what are the frequencies we can stand.

The magnitude of the effect of radio frequency radiation on the body depends on the intensity and duration of the radiation.

The specific absorption rate (SAR) is commonly used to measure the power absorbed by the body from microwave ovens, mobile phones and MRI scans.

It is a measure of the potential thermal effects on the patient's tissue due to exposure of the body to electromagnetic radiation and is defined as the power absorbed per mass of tissue in Watts per kilogram.

It is not the power emitted by the source.

The actual energy absorbed by the body depends on its distance from the source as well as the shapes of the source and the body and their relative exposure and orientation towards each other

The tolerance of the body to radio frequency radiation depends on which part is involved, vital organs being much more susceptible to damage than the body's extremities.

The SAR may be averaged either over the whole body, or over a small sample volume weighing a few grams. In case of **mobile phones**, for which absorption of RF energy by the body is an unwanted consequence, the safe

SAR limit is specified by the **FDI in the USA** as 1.6 W/kg (averaged over 1 gram of tissue) whereas in **Europe the IEC** specifies 2.0 W/kg (averaged over 10 grams)

4 W/kg averaged over the whole body for any 15-minute period

3 W/kg averaged over the head for any 10-minute period; or

8 W/kg in any gram of tissue in the extremities for any period of 5 minutes.

For reference an SAR of 2 W/kg would take 2 days to melt a kilogram of ice. (Since the latent heat of fusion of water is 334 kJ/Kg, it will require 334,000 Watt seconds of energy to melt. With a 2 Watt source it will take 167,000 seconds).

By then Raymond has overseen the installation of Radars with two of them already making measurements of the three dimensional structure of approaching storms.

Two aircraft have arrived and will be ready to fly later this week. The third is performing test flights and will be ready to fly missions' next week.

The rollers and graders with high heated vacuum air are making a hard and even ground for air craft to fly.

Air craft sensors have inbuilt thermostats in them to tell surrounding temperatures for tires and conditions for landing.

The amount and depth of ice can be measured with the light rays in the

sensors.

The aircraft are light weight and can fly after 100-200 m run way. Avoiding the ground bumps.

The survivalence of weather is done with the ground radars and is fed to the computers on board.

In case of contingencies and emergency the craft can land in many near islands or even come back.

These are a necessity in may/June when the storms peak.

All these preparations are just in time, for the week the forecast is for a major, very wet 2-day storm system to impact the Olympic Peninsula at the end of the week with rainfall totals potentially as much as 300 – 450 mm (12 – 18 inches) of rain.

So they have a clear view to the ocean to sample oncoming storms and a clear view to the Mountains to sample the storms as they interact with the terrain.

We are not sure what data we are collecting is used by whom.

An agency is trying its signals from Antarctica to some nations.

Is it a blanket of **Moir lines** use? It depends.

Santha Kumar was talking to his workmen along with **Architect Samuel** and General Frank. The in charge of settlement camp and townships got a confirmation that the ships from Europe has the requisite instruments. They need to be down loaded on to small barges and then transported to the shores. This is till such time modest jetties are ready for accommodating medium size barges and ships.

The load consisted of many numbers of many sets and types of meters to assess the strength of materials, the concrete and other materials such as wood.

The testing equipment for concrete are also packed.

A total PMI program with appropriate quantities tools and plants and logistics is made available for organizing the township construction.

Stuwert the contractor and logistics head is particular that he gets paid at work site as well at his head quarters office for all materials, workmen, and for transshipment. Billing is the essential part of construction.

The running account bills normally are paid at the discretion of the authorities based on the materials purchased, material stock, work done, and work done but not measured etc.

The ultimate aim is to see that the contractor is not unduly bur-burdened, and the cost is burdened by the authorities who are heading the project, but very judiciously.

The specifications supporting bill of quantities are made simple and detailed, but not exhaustive.

If it is exhaustive it leads to litigation and arbitration between nations supporting such an experiment with their financial strength.

All items of work shall be thoroughly detailed in drawings and in Bill of Quantities. Water supply lines, bends, elbows, Taps, Rib cocks etc., each shall be priced separately. Similar care shall be taken in drainage and sanitary and in electrical fittings.

Care also is taken to detail the class and corresponding IS, BSW or API regulations for fire hydrant and gas line systems.

The samples and testing procedure shall be detailed in specifications. For supply materials the payment shall be on FOR destination, rather than part of consignment.

All excise materials shall be properly fenced and Dual lock shall be maintained (in accordance with Excise laws).

DISCIPLINE ONE SEGMENT NINE

Anu Arundhathi, Teacher

The teacher started telling the class about the developments in modern technologies.

The school is in **South Mumbai** and she is teaching to her X Class students.

Anu Arundhathi started telling;

It is an **Empire** for the rulers of **United Kingdom**, having in their rule many countries and many Island nations around the world.

These are **Canada, Australia, New Zealand, Jamaica, Barbados, the Bahamas, Grenada, Papua New Guinea, the Solomon Islands, Tuvalu, Saint Lucia, Saint Vincent and the Grenadines, Belize, Antigua and Barbuda and Saint Kitts and Nevis.**

Now they are also in to control of some stations near Argentina coast fly towards Rio Gallegos or Rio Grande. Ushuala and some times called as Ushuaia is another place in Argentina which is well connected in the journey. Then head for Machu picchu base is a peru country established base and Base Presidinte Eduardo Frei Montlva is a Chile country base.

These two are on a single Island while Base Yelcho is also a chile country base and is in operation and Base Marambio is an Argentina base and both are on another island.

Falk Islands and George Sand witch Islands are controlled and governed by the **U.K.** There are around 3500 population in both these Islands.

There could be other UK base stations, you name any left over Island in the world, and that will have control of the UK government.

Many world happenings are in Island countries either controlled by UK, or USA.

Anu continued with her students, in 1884-Nipkow of Germany invents how to convert images in to light pulsed by using a disc rotating with holes in it. Hertz in 1888 has demonstrated how to make radio waves.

But in 1894 Sir Lodge has broadcast a radio message transmission successfully.

1923 Zworykin of Russia uses a TV with cathode tubes.

1924 to 1946 several inventions goes in to making radio and TV transmission possible by several countries and their inventors.

It was in 1966 a Plasma TV, and in 1988 LCD TV were developed.

The use of TV in India might have started in 1980 .

That was Ana Aurndhathi she is a very good social teacher but harassed by very **premature** teachers.

From this both systems of transmission began the Cell phone invention.

We are in fact swimming in an ocean of radio waves of various strengths.

It is in 2020 the total communication system is rationalized.

Hundreds of long wave, medium wave. Short wave and UHF radio broadcasts have been abolished and new spectrum wave based on tiny micro wave home based transmitters and receivers started working world over.

Television signals at microwave frequencies were beamed down by satellites.

UHF signals from hundreds of mobile phones and their local base stations were systematically modified in an technology intervention.

VHF signals from Private Mobile radio used by the emergency services and private network were codified and fit in to small transmitters using only a small fraction of energy used in digital broad casting.

These are called tiny data transmitters..

Random RFI or radio frequency Interference is due to distant electrostatic discharges from lightning strikes anywhere between the signal source and the home.

And at the other end of the spectrum we have, Very low frequency radiation from power cables, electric motors, domestic appliances, transformers and battery chargers.

But curiously many hospitals ban the use of mobile phones because their tiny transmitters might interfere with sensitive medical equipment.

Then we are all bathed in more general background sources of radiation most of which we can not avoid and some we can.

Low level X rays from high voltage cathode ray tubes (CRT) formerly used in color televisions and monitors and ,Ultra-violet lamps and tanning equipment, all use the radio active band widths.

Thus the energy flow (measured in Watts per square meter (W/m^2)) falls off rapidly as the distance from the source increases.

Radio waves interact with objects in three principle ways. They are

Reflection – A radio wave bounces off an object larger than its wavelength.

Diffraction – Waves bend around objects.

Scattering – A radio wave bounces off an object smaller than its wavelength.

Extremely low frequency ELF band with 3-30 Hz frequency has a wavelength, 100000-10000 Km.

Super frequency 30-300 Hz has wavelength of 10000-1000km

.Similarly Low Frequency is 30-300kHz-and wave length is 10-1 km.

This is where the people health counts.

She said children we are going to Antarctica where there are new Islands called Diamond Islands.

The trip is funded and selection is intelligence based.

Please give your names and in two weeks we will leave there with the selected students.

The class was roaring, one student said teacher I have a uncle in Malaysia, another said my father is in Papua New guinea, another cried my mother is from Hong Kong.

Please give such details which help us in selecting people, it will also facilitate you to see your relatives on the way.

She said Vanuatu, Australia, and Newzealand also we may stay while coming and any resource there is welcome.

Our int-rest is to observe why the Ice is melting at that place, how Corrialis force is changing at equator from 23 rd September.

Also we will look to see if the Spectrum is interfering with nature. She Ana Arundhathi left.

DISCIPLINE ONE
SEGMENT ELEVEN
2025 August End

AnaArundhathi was sitting in her living room and watching her TV set. She is more anchored to the digital set, which some times was relaying dots than a photo.

She was wondering why this new technology is chosen.

To have more storage and faster transmission is general answer, she is aware.

But her eyes are itching some times to look at the figures of Astronaut and may be extra terrestrial living spaces like figures on TV always.

Some say it is the fault of your transmitter.

There is always a reminder on screen asking the viewer that their dues to the transmitter are to be paid, other wise, so and so channels will be stopped.

The wave function below may seem smooth and analog, but when you look closely there are tiny discrete steps as the signal tries to approximate values:

That's the big difference between analog and digital waves.

Analog waves are smooth and continuous, digital waves are stepping, square, and discrete.

Transducer: a device that converts one form of energy into another. Sensor: a device that converts a physical parameter to an electrical output.

Actuator: a device that converts an electrical signal to a physical output.

ITU gives recommendations to UN and asks nations to foster the adoption of best practices and effective policies for managing concerns about exposure to EMF from radio communications and mobile systems consistent with WHO advice.

Encourage the lawful adoption and subsequent implementation of a coordinated policy against identified societal and environmental threats such as the widespread proliferation of counterfeit devices.

She heard the word ITU.

It shall mean International Telecommunications Unit, that is what she told her 8 Th grade students.

It is an independent unit, standardizing transmission systems on earth.

It is also now part of the United Nations system she told her students while in class.

The students were asking her what they standardize.

The earth has electromagnetic field, which your science teacher calls it when pointing to a magnet as a formation of rings around it based on the magnetic field from north to south, it is also known as the EMF.

Does this mean that the Earth EMF is used for communications and is it under used or over used.

The fact is that we are not aware. But many modifications have happened since 2020, and now there are less interference, each tiny sensor receives and transmits the signals.

A hydrology engineer the other day came to the next house.

He said he constructed a rubber dam across so and so river.

His friend asked him what the idea is, is the foundations he again asked.

The Engineer said, we can spend money and have more spread foundations to with stand the forces.

We can also have the weir for water storage and surplus discharge and then we have a down stream cistern or a basin to absorb the forces of water falling down from top of weir.

The seeping water under neath the foundations also will have a gradient which produces the up ward hydraulic forces.

We are quite aware of many theories which tend to show that water seeps and makes a piping action unless we make a long length of travel for water to loose its potential.

That is how water is contained and allowed to travel long distance to loose its energy or potential.

Then, he said, the idea is some thing else.

The idea is to shift the dam as retrieved in physical condition, because the course of river is shifting almost every 5 years.

We are aware that the maximum sea depth is around 11 KM.

We are aware that light and sound gets deflected more in water and other fluids.

So we use other forms of communication, than what we use in air and land.

The EMF is a land measurement?

Is this an other Anthropology, she wondered.

Her student always asks her why the chest is some where for many animals which are verbatrite.

But humans only have Breast below the head.
 She was no way wondering about such questions.
 She thought as Anna, she should tell her students that, the humans have many times overtook god.
 The biggest process was the evolution of walking in humans, and slowly developing the other two legs in to hands.

That was not alone, there are internal pituitary glands modified to suit the release of required digestive acids.

The biggest is the vanishing of tail end S-1,2,3 etc bones pertaining to the tail.

The other day **Jennie** was diagnosed with the **Lumber ridiculopathy** for her low back pain.

The problem was her L2-3,4-5, were slightly bulging.

The Therapist wanted the **Physio therapy** to be done to ascertain the bow back strength and quadrupeds' strength.

Get the Monocytes' and get blood picture.

Get the investigation on **Blood calcium**, vitamin -D-3 and Bone mass density.

These are approximate assumptions based on the medium and time we spend on the blood to have approximations.

An Indian student said in class, there was an Indian surgeon, who was using ants for stitching the wounds in the very ancient times called **Sushrutha**.

He says may be his fore fathers lived in ancient Ramayana times where the slit sections of lips of many apes were stitched by them.

In all these she knows the students mean that they can defy the God which could be true.

The height of the question is when the humans were designed to crawl on four legs, they modified two legs in to hand over centuries, and they started walking.

What else god has not thought and humans have made possible.

It is the Spectrum.

The current used for communications is also a barrier for direct sun rays.

But the intensity has not increased immediately.

There were no bad effects from 1970 to 2000, till internet became fully operational over continents.

Some one was murmuring can we not make an agitation on that fellow who started stitching.

A girl student was heard shouting it is gender equality need rest for 20 days and need to go outing with my boy friends, we shall have rave parties.

We put a slogan “save the world from stitching, save the country from spectrum Band”.

Here we have products and producing industries where men are accustomed for usage.

This is also producing a blanket of hot air.

Research is done, conclusions arrived. One over the other shouted.

Which industry is doing damage is kept confidential.

No one could stop the other it is 2016 when the steamed earth has shown the bulges.

It has started cracks. The earth is cracking.

Can humans stitch it, can we dump some thing more.

Anu Arundhathi has decided to take a walk to **Sanjana house** in **Panvel** in **Navi Mumbai**. Her house is near by. Both are working for Satya for the Townships at new Islands. Her brother **Dravid** who wants to be called as **David** with no conversion from Hinduism to Christianity.

Can we do capital revival plan, So 2020 became a revival period, and tiny individual specific use transmitters were developed for corporations. Municipalities have some such, while houses have another variety.

The spread has decreased, and the moirlines interface has decreased. The vapor coming from seas is going up freely and atmosphere is table. A clean sun could be seen in 90% area of globe. It is well done process by engineers.

One of my earliest memories as a child is visiting my grand father at a house he was remodeling and riding on his lap in a small car. I also spent many hours at my grandparent's real estate brokerage and tagging along for property showings and open houses.

That was again the memories of **Sanjana**. But it was about her brother **David** [also known as **dravid**].

He was always interested in construction and real estate throughout junior high and high school, he realized however, that the life of a professional can be very difficult.

That too electrical Engineer of the days was threatened with very few jobs. Construction, real estate, business management and marketing are said to be in his DNA.

And he found his niche in the world of architectural, engineering and construction forensics.

In middle school, while the other kids at the science fair were examining whether white or wheat bread were more likely to create mold, or constructing telescopes out of available cans, he conducted an experiment analyzing lumber.

Despite some flaws to the experiment, he was able to successfully demonstrate the relative strength of air-dried, kiln-dried and green lumber using a torque wrench connected to a lever.

While it was mildly interesting to understand how the moisture content of lumber might affect structural integrity, he thought the biggest impact for him was understanding how important testing materials and components to the point of failure is to the design and construction of the built environment.

Does this also mean a forensic engineering for wood. She thought she knew what now forensic subjects in public health are?

A record negligence by the rulers and their executives, a badly managed water bodies. The simple process for water treatment and distributions not followed.

She remembered the Lasundhra-Kwpadwanj water supply scheme done in Gujarat in the year, 2000 where she was a trainee engineer.

When the whole world went on discarding **asbestos** the scheme engineers used **pipes made of asbestos** to carry water for a length of around 6000m.

It was not ignorance, every one tends to say the other ordered such, no one specifies such shall not be used.

The forensic investigation of users' lives leaves the mark on the designers and approving chief engineer.

Forensics is the important engineering aspect which not only looks in to the claimants' ways of earnings, spending, his logic and ways to climb to top.

Psychoanalysis alone will not solve unless his actions and his life style proof is assembled systematically. The records shall be kept close to chest.

DISCIPLINE ONE SEGMENT TWELVE

Life in Antarctica-Communications

There was a big bar and restaurant in the Hilton hotel at **Darusalem**. People started assembling and seeing each other the other was acknowledging each in coming persons. Darusalam is the Capital of **Tanzania**. It is about the flow of information. Use of the Information and codifying the objects is also part of the digital revolution. But the digital revolution uses less space and less energy.

The real meeting presided by **Carl Hussain** is not exactly about the Communication or the Climate and weather satellite information. The worry on the Faces of 30 odd people in the room can be seen. They know they are all above the enacted laws on any land or by any country as on that date. They are not worried about their or their family future, they have secured it. They can use the charging stations at intermediate rocket stations, which are called earth orbiting stations, which has also nuclear power.

They knew they can be away from the dynamics of earth and moon gravity at least for a year, and they required more than such. But they knew they have only 12 such stations which can accommodate around 25 pairs and 25 children in each.

From nowhere, **Mughal** started telling, he stood in the center of the room, and started, we have our cargo flight landed on August 17th, and had all our equipment and installation was done. They all consumed heavy alcoholic drinks including Vodka, vat-69 and such. Dirty Tequila is a cinnamon and pineapple infused tequila. It has been in the market for 3 years and is growing in both distribution and sales. This is the drink many preferred.

There was some drama, however finally Mughal said we have received all our batteries pipes, and the actual instruments. They are the spectrum contractors for Antarctic islands. Spectrum relates to the radio frequencies allocated to the mobile industry

and other sectors for communication over the airwaves.

Because the mobile industry has demonstrated time and time again its potential to generate economic value and social benefit, operators are urging national regulators to release sufficient, affordable spectrum in a timely manner for mobile.

National regulatory authorities are concerned with interference that could arise from incompatible spectrum use along borders, which must be managed or negotiated with neighboring countries.

Finally, equipment manufacturers need to develop affordable devices that work seamlessly within new frequency bands.

Essentially, you have spectrum "bands", and frequencies around a particular band are then auctioned off.

The allotment of spectrum is either paired or unpaired. In case of paired spectrum, different sets of frequencies are allocated for up link and down link.

For example in case of 900MHz spectrum, the regulator allocated frequencies between 890MHz - 915Mhz for up link, and between 935MHz - 960Mhz for down link in each circle.

Up link and down link just refer to data sent from you to the telco, and from the telco to you respectively. The telcos have to separate the two to manage the spectrum effectively.

There is an established procedure and old base stations of the Italian, and The Korean station.

Both are within sight of each other, about six miles apart on opposite sides of a bay, so there is Italian and a Korean base.

Mary and **Bethanic** along with **Edward** joined a group taking a zodiac drive over to Island the next day and retrieved the misplaced equipment. **Carl Hussain** and **Mughuals'** men are at work of installing equipment.

The American base camp is to equip 350 workers during summer November 15 to February 15.

The three months summer and tourist season are accounted.

Now the summer has elongated to more than 4 months and the peak winter temperatures have fallen much below the averages.

That made life comfortable, with several ships of equipment and housing ready for installation for the future residents here.

Mean while the GPS tracking systems on earth located at Antarctica are being made ready for use by the men of contractor **Mughual**.

They were fortunate to begin the day with good weather, and due to a slow schedule, and having helicopters as stand by transport systems.

This allowed four personnel, including a safety guide, to join them. With their help, installing the GPS stations was done.

The GPS systems include a disk-shaped antenna that receives satellite signals and a computerized unit that processes and records data.

With good processing after the stations are retrieved, they get positions accurate to about half an inch, which will allow them to study the vertical and horizontal motion of the ice shelf, especially the effect of ocean tides.

The stations also include a solar panel and a 12-volt car battery for power.

The antenna is mounted about five feet off the ground on the end of an eight-foot steel pole sunk into a three-foot drilled hole.

The solar panel is mounted on a shorter pole that also passes through the carrying handle of the plastic receiver box, so that it's much harder for the receiver to blow away — a constant threat with a slippery ice surface and high winds.

Wires attached to anchors drilled into the ice secure the solar panel, and the battery is firmly strapped to the receiver box. All these ice anchors are temporary, they are getting compressed air bit drills, so that ice is melted quickly.

They planned on installing two GPS stations, then returned to load the helicopters and installing the remaining three in the afternoon.

Mean while heavy cloud cover started to blow in. Clouds diffuse sunlight and create an effect called "flat light", in which depth perception of **white snow and ice surfaces becomes difficult**.

It is a **neon light effect**, could be such vapors are in air.

This is a **climate change** happening at least since last several years, or say 20-30 years.

This obviously isn't good for flying helicopters, so they returned to the station early to be safe.

The majority of their equipment wouldn't be arriving for another three days, so they thought that they would settle in and learn about the basic amenities of the station like food, showers, laundry, wifi, espresso machine.

All of them can learn all sorts of unexpected skills living in Antarctica.

But then the day turned out to be sunny and clear, perfect for flying and one of our collaborators, came and told that they had reserved a helicopter for that afternoon to scout out field sites.

DISCIPLINE ONE SEGMENT THIRTEEN

LIFE OF AMRUTHA

In line with the population increases and in line with the settlements in 1880, the people from South and south Asia Including China and India started Migrating to various Island countries for better living opportunities.

The Government of India in 2016 has made a law that surrogacy of motherless womb is only for Indian born parents. This was done to prevent mischief malpractice and middle or last abandoning by parents quoting one or the other reason.

After all in genetics mothers' [surrogate] blood also goes to the baby and the characters can be as damaging as George Bernard Shaw used to tell the beautiful women that "if the baby is born with my face and your intelligence then it will ruin the world."

There was commotion in the auditoriums and already set up small laboratories.

There are 2500 sq.mile methane thick clouds coming to the Antarctica. The number is never disclosed.

Every one says the next Island has also confirmed.

Some one Just landing by flight says he heard that NASA has already warned Australia and Newzealand.

A woman asking what the calamity is and what is the Precaution. She looks like she is from some part of India.

A yellow turban person walking next to her said, he could be a priest, We have to prey to god to keep us cool.

We do not have much alcohol, sugar or for that matter even diesel also.

There was commotion in the next bye lane.

A man having a cross across his chest has a big white gown on his body. He Should be a priest.

He said we will have at least a week of prayers to over come the evil.

A young boy of around 20 years could be from Indonesia was asking what does methane has to do in the climate.

Methane has one carbon molecule and four hydrogen molecules.[CH₄]

The boy said water has one hydrogen and two oxygen molecules [H₂O], where as sugar has six carbon and twelve hydrogen atoms.[C₆ H₁₂].

The Carbon hydrogen molecule interaction is a very complex equation.

If Nitrogen or organ gas increases in the air then we will have more bright light.

If it is only methane we will find that hydrogen is separated and joins to the water bodies on earth with a bow like arch action.

How ever what ever it may be we will have more heat more radiation,and we may have better EMF and less communications in the coming months.

They all dispersed in their work directions.

Amrutha is from a village called **Naga Lanka**, meaning Snake Island.She is around 30 years of age.She was working in a town near Andhra Capital till last year 2024.

There was a selection of hard working people at their native town.Some one said an American Engineer has come to take people for his works.Employment will not only will give full reimbursement of tut-ion fees,but also they will pay for hostel Lodging and around 2000\$ towards reimbursement.At the end they will receive their M.S.,or P.Hd.

She was not sure she will be eligible.

She had her bachelor degree from the university in medical equipment.She knew how to operate the MRI,body scans.By name body scans she knew how indecent the men and women always are.She found a hospital cloth tied around their near body part for her support of arm for taking the scan.Some times she felt why she has to do this.But after hearing from Doctors and seeing them in work she felt it is nothing for her.

Once her heavy built up of chest has fallen on a old man who was ill.It went and touched his thighs while she was scanning his stomach his rectum,and testicles.Well suddenly she Shaw some thing ejecting,the old man felt ashamed and closed his eyes.

She smiled reassuringly at him and completed her test after taking care of herself a little away from his chest.

A man had Syphilis a disease came out of sexual contact.There was useless smell out of his clothes and inner wear she felt it is a day.

A women came to her she has a dead baby in her stomach,may be few hours ago and she is luckily only 5 months pregnant the moment she saw her position she called the doctor.

The doctor saw the things and then decided to terminate the pregnancy to save the women.

Her boss came in she said Amrutha they are in search of people for education and work I gave the dean your name.

She looked deep in to the eyes of her boss.

She said I know you have no body here and two years of memories must have made you to feel that you need to be away from here for a short time.

Amrutha was showing no feelings on her face.

The Doctor said finally Amrutha reading further will enhance your skills.

We are here always.We and the state know that we are your family.We all want your well being.

Amrutha slowly turned her head with out a whisper.

The Doctor continued they will come here you need not go any where if you have friends you can also call them for an interview.

We all know you are a robust women and we wish you all the best.

That was it she did not recollect what happened on 1977 November and so after 46 years again in 2023 it is any body guess.

Many ports constructed have vanished in the area there are others who suffer for cyclones but it a Tsunami.

She left,after collecting her medicines for Vitamin e with omega-3 for her skin and calcium tablets comprising Calcitrol,Calcium carbonate,and Zinc soft gel.These have become a necessity for her to with stand water bound infections.

DISCIPLINE ONE SEGMENT FOURTEEN VANUATU ISLANDS

The team working under **Raymond** also have to establish antennas for GPS, broad band and digital spectrum use.

They had spent quite a while looking at satellite images and computer model output in order to estimate where the processes we wanted to study would likely be strongest.

We wanted to be more in the middle of the ice shelf, away from the islands and rocky outcrops that pin its margins in place. That gives an accuracy in measurements of ice shelf flexure and movement.

Cathy was enthusiastic at what she is going to do with Vani and all women team at Oceania and Vanuatu is suitably photogenic both naturally and with its photo-loving people and hip-shaking festivals. **Vanuatu** is an **archipelago of 83 islands** with a unique blend of intact tribal communities, resorts, beaches.

Diamond with a gem-quality core and a coating that contains tiny fluid inclusions from deep beneath Earth Powerful volcanic eruptions **can punch** through the centers of ancient continents to bring diamonds to Earth's surface, embedding the **crystals in rocks** known as **kimberlites** that can be up to 2.1 billion years in age. Formations of Kimberlite are often barren of diamonds.

Most scientists think diamonds crystallize from some kind of fluid. However, what exactly that fluid might be is controversial.

The scientists analyzed fluid inclusions within 11 fibrous diamonds stones that consist of **multiple layers** instead of a **single gem-quality crystal**.

These **droplets** were salty, loaded with plenty of **chlorine, potassium and sodium**, much like **seawater**.

That was their first helicopter flight, Cathy insisted that she should sit up front.

Taking off is sort of like riding in a glass elevator.

Flying in a helicopter is very different from flying in an airplane.

Being able to go low and slow (or hover) gives great views.

Some sites selected were located on ridges and ice formations and were avoided.

The tilt meters measure angles less than half a degree. And has truly spectacular views of the ice shelf and the rocky hills surrounding it.

The flight to Antarctica by a plane starting at 3 am made its landing after a 3 hour travel. It was a ice turf on which the plane has landed.

The ice turf looks to have been rolled every day for use .

With an impressively long run in, and then stepped out into bright sunshine and a “refreshing” breeze.

The Antarctic! What a **spectacular** place.

Cathy thought her self what ever she is seeing.

We were surrounded by mountains and ice and sea ice as far as you can see.

The shifting of people and materials were done in a tractor, but we were lucky enough to get driven over in a specially adapted big van with heated seats.

What luxury! On the way over, we drove past some basking **Weddell seals** and **seal pups** enjoying the sunshine.

The Island from the outside looks like a space ship and the inside does not dispel this imagery. It was only built in the last couple of years and has all the mod cons.

There’s a greenhouse, hospital area, small gym with climbing wall, espresso machine, wi-fi throughout, and even humidifiers in each room.

By afternoon most of her dormitory friends were ready for meals with cheery music. The best thing by far is the view from any of the windows at the dining halls.

We can see an impressive iceberg, some more seals from the terminus of glacier.

We did manage to have some fun in the afternoon by visiting the **Canterbury Museum**, it was in Newzealand, which has historical, cultural, and scientific exhibits and is adjacent to a large and beautiful botanical garden.

Raju was recollecting how he landed at **Antarctica** and how he is living at the new Island.

In fact he landed at the **Amundsen-Scott South Pole Station** Australian Summer 2024. Latter he moved to the Diamond Islands in 2025.

He has made many moves to come here, but the final decision to make the

journey here came suddenly, and without a lot of time for reflection or preparation – both for me, as well as my friends and family. And so, as he made his way down here, with many people was a surprise. It is **Raman, Raghav, Seshu** the three **Hindu priests** along with him made the difference.

They have lots of questions about how, where, why, and when have come up. To help answer a lot of the more frequent questions, here's a list of a few of the more common questions I've received over the past few weeks.

So, it's not difficult now a day.

A temple architect along with an engineer for erection of ready made granite stones also traveled with them, but if you're dedicated, you can make it happen.

I've noticed that most people down here are very specialized at what they do, extremely motivated, smart, and outgoing.

Some people were cooks, and dishwashers, and janitors almost everyone has a higher degree, or has been working in the field for a while.

It's difficult to get in, especially if you're good at a lot of different things, or have a lot of experience at a career that doesn't directly apply to the specific job but people with with digital media were also welcome.

So, **Raju** was looking to find connections that can give him a job at Antarctica. He has submitted several applications on many web sites for having a trip and a job .

He is aware that any Job including a chef is accepted by him. That did the trick.

How to get down to the South Pole Station from the states, the journey is through the route with the Commercial flights from any place to **Sydney** and from there to the CHC or **Christchurch**.

Summer Season is about three months, from November 15th to February 15th. During the summer, the temperature is around -18F, and the sun shines 24/7.

During the winter, which is Feb 15th to Nov 15th, the temperature gets down to -100F, and it is dark all the time. But now the seasons remain the temperatures have come down. Some years back may be in 2017 many tree samples were planted across all the islands. Now typical forests have grown, which can resist the cold and ice.

If there's a mass casualty incident here, then we are in the team that responds to it.

When expeditions and tourist groups arrive here at the South Pole and want a tour of the station, we are one among such of the people who can lead them around the station. The life at Diamond Islands is different. It is exciting and more fun.

DISCIPLINE ONE
SEGMENT FIFTEEN
LIFE of ARMINE

Armine was in class room.

She took the modern day system of finding her own friends from her day after Puberty.

People were rather cynical and trying to exploit with her perky body.

That was un-wanted, she found her self more isolated from rest of friends and male counter parts for long years it was when she was in her 12 Th class she found Zarine was interested in her.

She used come closer,she used to hug early mornings when they meet first time and she slowly started kissing her secretly and pressing her where ever possible in secret.

The experience was intimate.Zarine said I have a powerful friend but she is a little older than you and me.

She wants us to join us for a party in Gotten-berg.

Are you sure.Armine said we are now in Business empire I am in Europe, and gotten-berg is some where near Norway.

Not now, in holidays, in summer we can go.

She had high class friends.

It never happened.

She is a distinct relative of Rostov,a person who works for Satya in his marine consultancy.

Rostov luckily survived the 1986 April, **Chernobyl nuclear accident**.Chernobyl which was part of the Soviet Russia has seen the accident in 26 Th April 1986 but now it is in Ukraine.

The civilization as on today the September 2025 is yet to fully integrate the territory.

People fear that the **wood,the steel,the rocks and the soils still have the ionization** out of the nuclear accident.

Rostov married another nuclear survivor at **Fukushima** where the **accident** took place after another 25 years.

She is **Lucia**.Both luckily fall in same age, married and have two strong children.

Lucia, Joru and Ami were recollecting the tales of horror while they were at Rome.

It was Japan the site of the 2011 nuclear disaster associated with the Tsunami disaster.

A giant earthquake triggered a tsunami that inundated the Tohoku coast, killing over 17,000 people and causing the core meltdown of the **nuclear reactors at Dai Ichi Nuclear Power Plant**.

After the March 11, 2011, event, a 12-mile exclusion zone has sat largely uninhabited. About 70,000 nuclear refugees were scattered around Tohoku in temporary housing communities.

With the **nature and man made efforts to decontamination, and allowing decaying radioactive elements such as cesium, associated with the environmental factors such as typhoons and storms, radiation levels in Fukushima have fallen.**

Restrictions on entry to formerly abandoned towns are slowly being lifted. But for many, the future remains uncertain, and anxiety looms large. These were stories of many families till 2023. “Many children are living and working in Iwaki nearby Namie.

They work for the Daiichi Nuclear Power Plant.

They screen people that go in and out of the nuclear reactor to see how much radiation the workers have been exposed to.

They do not go in themselves, they work in an area with low levels of radiation, but they are exposed to the people who come from there and I worry about them.

It's been 14 years since the disaster, but there still no homes for them to go back home.

They heard after around 38 years the 26 Th April 1986, Chernobyl nuclear problem is getting diminished.

They have ray of hope Some day they just want to see the radiation problem solved, but it takes time, and there is nothing to do but wait even beyond these 15 years.

Joru and Ami felt the sufferings from stress more than anything. There are no places to go that is why they choose to work with **Lucia and Rostov**. We can't go anywhere new. We are stuck in limbo and it has traumatized us.

They are on their way to the new Diamond Islands.

Armine and **Zarine** were sitting across, while Rostov was seeing through a glass window to the visible **Naples mountains**. Definitely it is not Rome. Now it is winter. Winters here are much colder in these areas. It snows like any thing there, we could walk around outside in a jacket, but here in these places with lots of inner wear.

Armine said our grand fathers lived many places, “My grandfather started this farm, and I inherited it from my father. When the nuclear reactor melted down, I was one of the children who was at 30 Km farm house. I soon came from that place in a few days, I lived with my grand parents. Since then I am attached to this farm. Some of my neighbors sold their horses to me many said the animals on this farm despite the contamination of many of such are around here.

Rostov said many animals and horses as good as 90 were killed in due course, due to the radiation.

My uncle used to write letters to me, when I was at the asylum, that seeing horses get sick and die over the first five years was a horrifying experience.

One of his friend said when they did autopsy at Fukushima in 2015 on the dead animals they found 200 becquerel/kg of cesium in their muscle, but that is not enough to be considered lethal.

Ami said at Fukushima also after the accident, some horses were sent to live on other farms, but forget about my ownership and getting paid a compensation, I really feel pity for the animals.

She, **Ami** continued one of my friends has “opened an organic restaurant on the day of the disaster.

The family is in to food, a hotel giving tasty food. The food made by them was like medicine.

The accident caused a far worse problem for our food than pesticides.

Customers who come to this type of organic restaurant were the first to leave Fukushima.

They started the use of a greenhouse in 2015, sheltered from the effects of **cesium** and the rice we had on reserved from the year before, and have been in production ever since.

Then **Lucia** said today they have added new ingredients to the menu, for example, added **roasted several bean** to coffee and cocoa cleanses. It, enhances antibodies and the rate of secretion of cesium from the body.

Now my philosophy has evolved from healthy eating, conscious living, to processing the nuclear exposure from our bodies.”

Finally **Joru** said “The biggest problem facing **Fukushima** today is the decommissioning of the nuclear reactor and the decontamination of the prefecture. For the most part we have been able to clean up the cities, but our next challenge is the woods. We are working on our solution for this problem now. We Japanese people have faced a history of natural disasters.

Lucia, Rostov, Joru, Ami, felt that they need to meet their friends **Fyodorovich, Anatoly, both are from Novosibirsk**.

There are others from **Kherson area of Ukrainian** are **Baranov Akimov** and they were from cities such **pripyat, vulgaris, atemisia**.

These were the areas even after 38 years in **dire straits** in terms of sufferings.

Fyodorovich said, We are resilient. When I look back at the last five years I can only draw inspiration from the tireless efforts of those in charge of cleaning up after the tsunami. I live on and I work for them. Now we will go to the Diamond Islands.

Baranov said, I cannot give up, I wake up every morning for the people. I serve the people, and I will do my best to ensure that not only are they are safe, but they have peace of mind.

I encourage you to look at the website of the city government. We post all of our radiation readings there.

Anatoly finally refreshed, “I couldn’t think of a better place to run my company than Atbasar. It’s my hometown. We work with many kinds of technology, mainly for cyber security, but our new project is going to reinvent the wheel.

It’s in the start up phase now, but I hope to make bicycle wheels that contribute to accurate radiation level reporting wherever the bike rider goes. It won’t only measure radiation, but also temperature and air quality as well. The more we measure the environment around us, the better we can understand the environment.

I’m not going to just sit here and accept the fate of **Chernobyl**, I’m taking a part in making sure people actually know what is going on. I’m not pro- or anti-nuclear, I’m pro-data, and pro-science. I went to Helsinki and road my bike with a radiation censor.

I met my friends. They asked, ‘Oh, are you still living near Kherson? Isn’t it dangerous?’ Of course there are some areas, but it turns out that the city

of Helsinki has double the radiation as Aizu.

“For a year after the disaster, we saw many volunteers coming in to our city. Watching these people come in and help us in our darkest hour lifted my spirits. I simply wanted to thank them, so I used to greet them with hot coffee. They kept coming, and I kept cooking.

Ami said, eventually I and my friends opened up Odaka no Hirugohan as a way of providing some warm delicious food to the decontamination workers, the volunteers, and even the media who came to tell our stories, she is talking about Fukushima.

Odaka is still under restriction, even though levels here are some of the lowest in the entire prefecture, we can only come back for the day. I personally still live in temporary housing in Haramachi.

Only those who apply for permission to stay overnight can do so. When the restrictions are lifted, I'll give back this space to the original owners who used to run a soba shop here.

I can't wait to go back home and just be a housewife again.

Rostov and Lucia went to their bed room. All others went to sleep in the hotel.

Armine and Zarine said good night to all and went to their hotel room.

They had well one more drink, and moved to their house. Between them when they were tightly oven in winter and reading their class work, her friend **Aleksander** saw, both kissing each.

He told both of them to be careful.

You know two years back in 2023 what happened to Armine, it was **Pento Baznov**, but any one can be a leathel weapon.

That was a day in 2023 winter, he Aleksander entered the room with Armines' mothers' permission, and did not knock on the door.

They were caught in the act of two women in uncompromising pose.

Till then it was only some trial of available soft tools, she was using as pleasure.

Zarine said she admire her innovation.

The young were made for their study.

But the world is in rapid succession.

They saw some videos on U-tube, where male and female organs were amply shown, where self satisfaction, and using same desire

Interactions were good.

But it did not end there

They made deep discovery and made medical searches to know the anatomy of human body, how men and women are made.

It was endless.

They searched for intimate casual encounters, they saw what they want, in pictures and videos.

Now they knew what they are doing is exactly correct.

It is in that order that **Pento Baznov** has come near them. Aleksander never made a move even in dark nights.

But Pento Baznov could not desist his desire.

He was reading with them, sleeping with them in the same room, and some times in the same bed and blankets.

That was the coldest winter the temperatures dropped below -40 degree Celsius.

She was feeling the cold. **Zarmine** made a small vodka, she tried with extra room heaters.

Still she was shivering which is an opposite of sweating.

That night she slept with Baznov, really and it made a mess.

She forgot about it for two months.

Then her mother took her to Paris, a house of our grand parents.

Doctor washed off the whole uterus, and said use a condom.

Mother never looked at me again.

It is me **Armaine** who has now graduated and is now in **Paris** searching for a Job in **FAO**.

That was in 2023, September, some one approached her continuously weather she will be interested to do a job in the south, from FAO only.

She agreed.

Last two years she had been planning and sending the birds, animals, seeds for transplanting them there.

She has seen the grown birds animals and trees.

She has packed herself and is ready with the rest of her friends from Ukraine, and Japan, who will be monitoring the crops food etc.

DISCIPLINE TWO

DISCIPLINE TWO
SEGMENT ONE
**Life and Experiences
Of
ENGINEER SANGEETHA**

Samuel and **Bhandari** were briefed about the systems of finances and project management. The present environment of Angel investors, Venture capitalism are no more sufficient tools for making a socially acceptable solutions for climate change.

The other is bank finances for housing where the life of houses is expected to be 40 years. The safe bet is first 20 years no depreciation, and the next 20 years it is proportional depreciation per year.

This has to increase they both agreed, for these Islands we will formulate a scheme for implementation, we will keep financing option for first 25 years of construction based on valuation.

Next 25 years we will ask the banks to finance 40-50% of valued asset cost. If necessary a market valuation will be done by using the services of brokerage and trader companies.

They agreed it will stabilize the industries.

We are getting half a dozen **banks** in the first one year.

The whole operation is basically **e-banking** from main land, only card swipe and credits are here.

In three years we shall have 5000 population with at least 10 ATM s.

The mainland companies are managing supply chain.

We want companies for construction and trade to deposit 1% of estimated turnover for overseas fund.

That will be used for logistics and infrastructure.

Sangeetha found the oldest tradition still in disposable

The labor contractors and suppliers were paying at 2% at place of order and 3% of the order to the site-in charge or the project manager and his designated staff.

This percentage is divided among them and paid directly in cash form up on each bill payment. The trends are still in vogue.

When there are elections these monies have to go to the contestants for their campaign.

Latter who ever funds a winning candidate and based on the amount he gets a promotion in public duty..

The place was very cold, and some of the workers always carried small detonators in their tiff-en boxes so as to defuse the cold laden ice.

She started thinking about her past life.

She had her grand mother in Delhi. She also had some family in Rajastan.

The works contract was for 15 months, after a year they selected a conveyor belt company. That was her previous experience.

This Company has 5 joint ventures with different companies across the globe.

Their primary job was to manufacture aluminum naked cables for the electric lines.

They will provide the needed sensors, escalators and lifts.

The Industrial automation company will provide the required heating system for the 8 months in an year.

In such circumstances a job in material handling was highly paying with attraction of going by flights weekly to different places of work spread across the globe is which attracted Sangeetha.

Latter they went in to making and selling of cable making machines, and also formed a JV.

For material handling systems. The pulley, idlers, belt etc were available in the ready market even at that time.

The design of angle of conveyors is based on the angle of repose of the materials, the conveyor sizes vary depending on material requirement for the process plant.

Junction houses, concrete and steel hoppers, and storage bins are part of the work.

The speed of conveyor and the storage in bin is as per the process plant requirement.

The sooner Sangeetha landed she found to her dismay that the specialist contractor for diaphragm wall quoted his rates based on the design of EPC contractor.

To bag the contract the designer has not used the design, with surcharge from behind, for cantilever diaphragm walls.

For excavation form 12 to 15 m depth the diaphragm was designed up to 18 m, Where as the requirement was 21 m, and below.

She was traveling every week to different sites, spread on all corners of India.

The company has facilitated even a trainee engineer to travel by Flights. When in **Delhi** they were staying at either “**LODI hotel**” or the ‘**Jan-path hotel**’.

They have quoted for the longest conveyor of NALCO. Even the competitor did not get the works, it was a company of Australia that has bagged the tender.

As a civil and structural designer, sangeetha attended to the design of material handling systems of a Charge chrome plant, in Orissa, along with other works.

There were many essential tools, such as the welding procedures, and welder's qualification for each of the project which have to be submitted for approval.

These approvals can be used for the next projects also as per the relevant codes.

There were also, Gamma Ray, X-ray, and Painting specs, along with the sand blasting and other procedures which as done once are the company property.

The material testing procedures for steel welding, and for concrete and other materials, mix design procedures for concrete are also the Company-assets once done clearly for any project?.

Then the designer was contemplating cross strutting at various levels. Unfortunately a manual unloading coal hopper for a power plant has many accessories to be constructed on top of the concrete hopper, and inside.

That led the company's division to give itself to the **Board of Industrial and Financial Reconstruction**.

There are technical specifications such as steel plates to be bolted on top of concrete to stand abrasion.

Steel rails on top of plate to guide the material in to the hop-per, then top grijjley or mesh, to allow around 200 mm size material on-ly.

Below the hopper there is weigh feeder, and material falling on to the conveyor belt, which then conveyors above the ground to the ground hoppers, where from the material goes to the boilers.

All the weigh hoppers and conveyors are connected at the central control room.

The conveyor belt motor and as well the counter weight to control the sag on the reverse direction is at the transit houses.

It was a losing job **Sangeetha** fought till end.

Finally she had a job as a teacher in engineering college.

She gave up the material handling works and walked in to teaching with a sigh of relief.

Flying day in day out waiting endlessly at Airports looking after clients at star hotels was horrifying for her.

She was always advised by her father to join a job in State bank of India, she desisted and wanted to continue as an engineer. She had her stress and hopeless life.

DISCIPLINE TWO
SEGMENT TWO
Life and Experiences
Of
SANJANA
Indian Mongolians

We are the first line of migrants from **Mongolia** to India.

It is **Sanjana** who is part of Satya engineering team in Delhi. She started feeling the heat.

Our fore fathers were more of fighters who settled after their monarchs have left them high and dry.

During last 700 and odd years we mixed with many Aborigines of Indian soil and mixed with several races.

In consequence we have new generations on this soil.

In the south we have mixed with the tribal people of Dandakarinya.

In the north we are mixed with tribal of sunder-bans.

In the plain lands we have made a new culture of Aryan and Mongolian which are hitherto called as Indian culture.

But what we could not reimpose or make changes to the nature made earth quakes and the affects on the people of the northern India abetting the Himalayan regions.

Today it is graceful to understand that our race could change little of the life of the Indians.

So also the people from the coastal areas of Eastern India are victims of several cyclones and Tsunamis.

Our friends and the community are into this work of art.

For us the art is also concrete and construction, but that is apart from sewing and netting of cloth.

We move places, we learn languages, we earn money, we spend money, we loose money. Some day a small investment from his mother by way of sale of her gold made him a rich contractor.

To day his family is rich.

The city of Old Delhi was once also called as Shahjahanabad. It was a small city during sixties, and you could walk around.

The River Yamuna is quite close and people used to go for bathing, before sunrise.

Nights were cooler and full of stars as there was no pollution.

The old houses had no windows but all rooms opened to the courtyard, it was an original urban dense traditional settlement.

Out of Old Delhi many had built a house, in what was to become a very expensive area of South Delhi.

These were the houses with a garden and the house plots were laid out along a crescent, with a garden in the middle.

The whole area was surrounded by greens, the Golf Club and the Lodi Gardens.

The families has transformed from urban to sub-urbanite, at that time but now it has become a concrete jungle.

Late eighties were the starting phase of the change of Delhi, with the Asian Games held at that time, leading to the construction of several Hotels and stadiums. That Was the time when all these younger generation were born. Sanjana is now nearing her thirty years.

There was one thing common to both Shahjahanabad and New Delhi. They both had places for a wide range of income levels.

In Shahjahanabad the rich and the poor lived in close proximity, within their own areas .

Although the Indian tradition of urban settlements is thousands of years old, it is the medieval towns that are of greatest interest today. These towns in the warm climate of North India were compact settlements, with walking as the predominant mode of transport.

The entire Old Delhi was called as Shahjahanabad was a walk able city, although it did have horse carts and cycle rickshaws.

It measured about 2.4 km from one end to another.

The city of Jaipur that came up a hundred years later also has almost the same size.

When New Delhi was planned, and when migration patterns changed the out look was more connectivity by train and bus. But the scale Changed completely and it is found that it was not a city planned for the automobiles revolution of the 1990s.

Today's cities connect with road, rail, boats and airplanes.

The desirability of different systems of transport depends upon the safety viability and nearness of housing. But from 2010 onwards the business houses from overseas wanted to invest in business ventures, that led to very speedy development of the Air carriers including chartered aircraft and helicopters.

The need for better Airports for speedy take over with a run way stretching a few miles and better passenger amenities for connected carriers led to development of good airports. In turn more cities developed better airports to connect their capital city to reach faster and finish their work in a day long stay and evening return.

Thus the carriers have switched to accommodating more than 100 seated aircraft which needed the extra length of the run way.

The economics and time factor worked well, with the huge 1 billion population thriving to see good developmental patterns for better life.

Transport of more persons has become possible.

The cost was equal to the Bus and Rail systems.

It was more a friendly transport than the other two.

Still the connectivity from Airport to homes is costly with very high taxi fares.

That led to electrical sophisticated modern rail connectivity in cities.

Because of the speed associated with aircraft, air transport has become very desirable and airport planners even claim that in terms of efficiency of resource utilization, air transport is better than trains.

Lighter-than-air craft may yet offer the most efficient mode of transportation between cities if not between continents.

That would mean a big reduction in the land required for transportation.

The city would have to be structurally stable, resistant to natural disasters, capable of evolving and being built over a period of time and be large enough to have playgrounds, parks and open areas.

Sustainable disposable systems for garbage are another essential tool.

Recent studies indicate that even though compact cities use transportation more efficiently, this is not enough to ensure urban sustainability.

New cities are being built mainly as extensions of large existing cities, and more often than not, they result in a spread out urban region.

It was on a dark day when nothing was visible, it was in the month of November, the seasonal cutting and burning of rice paddy waste for next season sowing of wheat.

It is the rich Punjab and Haryana states where there is biggest crop sowing and transplantation goes in the season. One person was sitting aside the construction work along with his playmates.

His father and mother both were born and brought up in Delhi. That was in fifties and sixties. He is brother of Sanjana.

They had seen the rise of Delhi one side and fall of old Delhi on the other hand.

He had some times people to play, many times from his house he was able to go to school.

The school in Chandininapura was wide.

He had playmates in Daulat ram, Nanak Singh, and Chandini.

They grew in to the construction world as tikkedars or simply contractors.

It took them around 15 years and by mid 2015, they are well earning.

He or either of them was unaware of the reasons why the sky is so dark on the mid day, November 2023.

There were rumors that an earth quake some where happened. People were running helter svelter.

Of the flood effected area is one of the priorities for keeping water bound infections and mosquito away.

Be it the new Diamond Islands or the hinder lands of Asia, or the populated cities of Asia it is imperative to have good sanitation system to have a healthy life.

He thought he should move with his sister to the new place and learn more about the systems.

According to the Joint Monitoring Program for Water Supply and Sanitation (JMP), 37% per cent of the developing world's populations of 2.5 billion people are lacking improved sanitation facilities, and over 780 million people still use unsafe drinking water sources.

Inadequate access to safe water and sanitation services, coupled with poor hygiene practices, kills and sickens thousands of children every day, and leads to impoverishment and diminished opportunities for thousands more.

Poor sanitation, water and hygiene have many other serious repercussions. Children and particularly girls are denied their right to education because their schools lack private and decent sanitation facilities.

Satya the Team and their counter parts in international development are looking at ways as to how the cities can be restructured.

Some one said when nature is unkind it takes away slush and leaves good for the remaining people to live.

Some one asked what you mean by that.

Think of **Surat** of modern day when it was struck with a **diseases** in **1990**, at the end devastation left to modernize the city.

Are we looking for such for Delhi, each one looked in to the other way and with out a word left the place.

Connect all water ponds, avoid garbage, raise good parks next to ponds and provide good rail or tram connectivity which is safe and economical.

That shall be your city.

If you provide for better waste water treatment you have a smart city.

Good number of 3 or four airports, air strips for helicopters and use of modern sky travel and photographic systems makes your city a next generation city.

Think and act.

DISCIPLINE TWO
SEGMENT THREE

SATYA
And
Arbitration Cases

Satya was thinking and assembling the stories of life and Arbitration separately in his digital folders.

There was a case why a pavement made of concrete cracked. The consultants as usual said it is faulty work by the contractor. The tribunal asked you supervised, and the client also certified along with you. Come on say where the doubt was and why did you hold the payments at that time.

This time the consultant was lucky.

He said a bridge adjoining the area of the pavement had one of its pillars sinking. We ordered load tests and found it may not withstand the loads. So, what did you recommend the Arbitrator asked?

The consultants said we asked for extra piles, a pile cap and strengthened the pier, now it is safe.

Was the original pile as per approved drawings and tender conditions the arbitrator asked the contractor. No, the soil strata report at particular point did not match to what clients have given us.

Even in our reports we did explore by bore holes and found piles will not stand friction and we wanted to do a well foundation.

The client answered that goes in to a deviation and we have rejected his designs. So, you rejected their designs because it involves extra money, now with your designs you need not pay them any more.

The client answered, yes.

The contractor said no, he has to pay. The consultant kept quiet.

The arbitrator asked now the pavement is done as per your design, did the contractor send you any changes in design?

Yes he sent, what are the reasons.

He says the soil in deeper areas is more of silty and clayey, and is near to a water area of river.

So you understand bulging and with-drawl crackings of soil the arbitrator asked.

Yes said the consultant, and the client

But still you asked the contractor to do the work because it involves extra payment. Do you read terrazaghi soil mechanics book, do you understand what is elastic condition and what is plastic condition.

Yes said both

But now the pavement cracked vehicles cannot ply

Yes

What is the remedy?

The contractor has to tell us.

The arbitrator said it seems you do not trust the contractor from the beginning why not you appoint a design team and find what to do.

We have to deduct the charges from the contractor.

The arbitrator said, now my decision is you have to pay for contractor for payment original as well extra work.

You decide whether you make him responsible by accepting his designs and product liability for next 5 years

Or employ another and pay him from your side.

How ever what ever work done extra will be payable by you.

The judge left.

Krishna said I have one story which **Sanjana** will like.

One of the old women has the earnings from her job. Her husband died some 2 years ago. She had 4 sons two daughters.

She said her house is worth 0.4 million rupees, to be shared equally by her two sons.

Then she gave 0.2 million cash for the other two sons.

Immediately one of her son went to market purchased a I phone for his daughter, an apple lap top for son, and two Air conditioners for his house.

He never thought that the money which she gave is what she earned in her life time. And she kept that to give as a memento for her grandchildren and so it shall remain as a memento.

The other son paid his debts with the money.

It was a great system that none of the sons ever presented cash or kind to their parents during their tenure. Never taken them to a hospital or paid hospital bills. Never took them to a pilgrimage.

He went on with another story, a neighbor is a woman who has none to look after her.

She wanted to renovate the house and asked a gentle man to check the house and submit drawing for approval.

The houses were old by 100 years and there were no municipal records. The engineer made his own assessment of foundations and gave for alterations and additions based on the prevailing municipal laws and practices.

He explained to her madam drawing is generally an art that represents the features.

What ever figures are taught in school such as triangles, circles, to bisect angles, to create a sector, conical figures and children play block are a good starting for drawing various views of a single item.

This is called as plan when seen from top, section when cut across, and elevation when you see from any side.

For buildings, industries, Towns, and major mechanical items the plan, section, elevation are a must.

Madam lettering has to be learnt by student by using graphs.

The drawings shall have a boarder, and also title block,.

The title Block shows, Scale, drawing No., drawn by, and the title of work.

Also the consultant or other agency name can be written.

All specifications for buildings are to be written on the right hand corner of the sheet.

Madam in daily life we come across many structures for highways, road crossings for entry in to factories, suitable splay for com-pound wall for entry end exit of vehicles shall be shown.

Also the posi-tion of guard room and control of gates shall be clear.

Many structures be it private or public need the approval by the concerned, State or National highway authorities.

Those features shall be incorporated in cross drainage works. Drawings shall show the revetment, slab thickness, slopes etc.

Madam Visal asked the engineer explain me some details about lifts, escalators and CONVEYORS used in our daily life in shopping malls Airports and such.

The engineer started explaining madam Vishal we use ;

Metal Escalators for buildings, malls, rail stations are a way to ward off the congestion and traffic.

The principal of these escalators, and moving continuously by using a motor the metal chain belts are pulled up.

The other side of the load carrying belts is called the slack side which does not require any force.

In malls and airports it is same as that of industrial conveyors which primarily runs on fixed rotating rollers called Idlers.

Also conveyor elevators and steps are common for mass disposal of passengers.

Conveyors are for lifting loads or materials.

In airport the conveyors distribute horizontally and laterally the passenger luggage..

In industries, the conveyors are used for feeding material to hoppers or silo's for storage and then for mechanization.

Such conveyors are made on convex idlers to increase carriage capacity. The inclination of conveyor is based on the angle of repose of the material proposed to be lifted up. Normal conveyors are nylon threaded rubberized belts resting on idle rollers.

At one end a motor rotates the pulley, which in turn makes the belt to pull up wards.

The topside of conveyor is called tension side and the bottom side is called the slack side.

Adjustable loads are placed on the slack side of belt to keep the belt under tension.

This makes the carrying of material easy. Suitable supporting towers for the conveyor, for gallery for inspection and other structures to accommodate motors, drums, hoppers and bins are part of this system.

Apart from belt conveyors, industry also uses bucket elevators (which you can see in villages for lifting water from wells) to move the materials vertically up wards.

There are also what is called air-slides.

Pneumatic air is pumped along with the mixture of material vertically as a feed for the industry.

Here compressors are used.

These compressors have great use in cement concrete grouting, cleaning and sinking of well foundations.

Also compressors are used for driving hammer, for piles.

The compressors are used to blast hot air in industry where required, and for drilling and blasting purposes.

Madam Vishal for you the utmost importance at any given time is lifts which are operated by hydraulic systems.

These lifts are used to carry passengers vertically and so the loads.

A counter weight and a spring and suitable switches for absorbing the current while carrying heavy loads are desired and installed.

For your proposed 5 storey building we will have a passenger lift of 8 persons or 600 KG capacity, with sliding doors, ventilation and lighting from both sides.

Madam Vishal asked I am a teacher I need to tell my students that buildings older than 60 or say 100 years get weather affected.

Please tell me why and what happens in general terms.

Weathering action in all materials made out of nature is most common thing. A sort of mud when added with water acts very tough and stands loads from any side for over years. But the weathering is common for lime, cement, metal and all other produced natural materials.

It is most common even for rocks, which tend to lose strength over years with loss of binding strength.

Corrosion in concrete is a term used by the engineers when it is attacked with moisture and salt laden weather.

It is common and very effective in rainy areas and near sea.

Adequate detailing of reinforcement, use of proper water, proper slump, and complete Vibration/compaction are essential requirements.

Where sulfates are more and tidal variations are high sulfate resistant cement should be used.

Also epoxy coating for re-bars is essential for longevity of structures beyond 10 years.

They did realize later on seeing **Sangeetha** photo in her house, that she had a very good engineer in her family.

Then one of the visitors from conveyor belt company told that I have a story.

It so happened that once a rich merchant's house was robbed.

The merchant suspected that the thief was one of his servants.

So he went to Birbal and mentioned the incident. Birbal went to his house and assembled all of his servants and asked that who stole the merchant's things. Everybody denied.

Birbal thought for a moment, then gave a stick of equal length to all the servants of the merchant and said to them that the stick of the real thief will be longer by two inches tomorrow. All the servants should be present here again tomorrow with their sticks.

All the servants went to their homes and gathered again at the same place the next day. Birbal asked them to show him their sticks. One of the servants had his stick shorter by two inches. Birbal said, "This is your thief, merchant."

Later the merchant asked Birbal, "How did you catch him?" Birbal said, "The thief had already cut his stick short by two inches in the night fearing that his stick will be longer by two inches by morning."

Madam that explains what we are in this contracting field and we are happy to see Engineer **Sangeetha** Photo in your house she was our friend and worked with us.

Then they departed.

Satya asked Krishna I believe all these stories are of the same women. Yes said Krishna she is Vishal madam.

DISCIPLINE TWO
SEGMENT FOUR
SATYA

Stories of Life

It was 2025 August, they were feeling the huge rains the roads were mostly in water the drains are full and all dry garbage is flooding in to the roads streets and hearing about floods every where.

They are all busy with designs and take off of materials needed for the town ship.

In the morning hours under nice breeze, Satya was sipping his tea, when Krishna came in and asked Anna, you are very good in telling past present and future please tell me any such.

Once about twenty years ago, there was a brother who has to be married followed by an younger sister.

In normal course the sister gets married, and after that the Elder brother marries.

With a system of dowry in place for middle class the marriage celebrations and dress were also costing a lot.

Added to that is providing the required gold to the bride and giving transport and other amenities for 3 days was very worry some.

The earnings of families from any source was normally around 500 to Rs1000/- or less in a month.

It is also common in such circumstances to find a match for the boy who can afford the money and see that the marriage happens.

In the given story the father and mother sees simultaneously a bride for son and a groom for daughter.

To cut the long story short, the marriage happened for both on same day.

In the traditional system both have to have their first night.

The bride of the son, and Groom of the daughter were missing by evening. All waited, searched and by next day it is known that they both were lovers, and eloped before their first night takes place, to some where.

In another story Satya continued, about 10 years back a gentleman was searching for a bride for his modest daughter who was firm on going to US and doing her MS degree there.

Luckily it is assumed that the girl is still not attached to any boy friend.

The father was searching telling the prospective grooms that her education is important, and where ever or which ever city she gets a seat she will go and study.

Many **grooms** were **dejected**, one groom asked after that completion of studies what else.

Then the father said her brother will go and join her and he will find a college where ever she stays and where ever she gets a job.

This time the boy is still not dejected, it is wonderful he said but what if the boy had a girl friend and wants to join him.

That cannot happen that way the father said, it is important that my son and daughter stay together in US so that i can visit and stay there.

Still not moved the groom asked **what is the role of the groom you expect to be?.What made you think that your daughter needs a husband.**

The father said, **he will give money,train her,have children** and come home **minimum** number of times and stay where ever he wanted.

He shall give all **accounts** to my **daughter** and me all his savings from the earnings.

There is a possibility he may earn from other sources and that **accounts** and money or **richness** shall reach me.

The groom said it is a wonderful idea, and you are a master.

I have a phone number which i can give you can call the guy and ask why the bride of his wife brother choose him and left him.

This may sound you like a story of Telugu famous writer by name, "Chalam".

Shocked the man sent his daughter to US with out marriage.His son went there for studies at the expense of his sister but married him self and settled in US.The daughter is trying for US born native for marriage now as she is in her forties.Her brother says your earnings are for my children so do not marry.

The third story i tell you will make you hungry for your breakfast Satya said.

One of the systems followed in the **United States**, now is to keep families at one place which will become their native place in long run.

The women and men used to go for changes in cities, based on the employment.

One of the women said most of the men in my road in the city are employed out side,they come every 15 days to see their families.

Now that i also have to move out of this city of **Denver** why not i marry or keep a person who can be of service to me.

To cut the long story, she went to employment to a far off place leaving her house husband and children for two to three years.

During the period she went on vacation to her mothers' house and so to the relatives and friends who were near to her place of working.

The new city happened to be her native place when she lived in her younger days.

Breaking her thoughts she returned to her husband house after say 3 years.

When she was back she found her children are happily playing with their **step mother**.

But she the step mother was **her neighbor** at **Denver** with whom she confided that she will keep a friend so that he will attend to all her house hold works.

In the process she escaped attending to her children for more than few years.

By then they realized they need to wash and sit at the table for break fast.

There was the maid who served them the breakfast.

One of the team mates was telling an instance of forensic engineering

During one of the trails on a **failed water tank**, the Judge was asking the owners' Engineer was his technical terms and designs were proper.

The owners' engineer said they gave only out line sketch and the contractor is responsible for designs.

The contractors' engineer said we have made the soil studies and said based on the requirements of water for the users in the towns, we have said that a spread footing with reduced height of water tank will survive the wind forces as the soils are weak.

Then the Owners' engineer said the consultant and the Management of town municipality still wanted same height but a bigger water tank to meet the proposed architectural look for the city.

The contractor said,we have stated that under prevailing circumstances it is not possible to construct bigger tank and also same height.

With out a notice they canceled the tenders' and en cashed the Bank Gurentees and delis-ted the firm.

The company shares collapsed and the MD of the firm has asked the Engineer to take responsibility for the project.

Now there are cases against the engineer from the SEBI, from the

municipality and the Banks.

He has come directly from jail to the court and has to go to the court.

Then the Judge said who is really looking for easy money, let us test.

But today I am busy because my house is a very old house.

There were lots of hidden treasures which are buried in the back yard in a well.

I am asking the jail inmates be sent for de watering and taking out the wealth in night so that government will not claim that money.

It may be necessary to work through out night they will work. He left.

Some time in the midnight the Judge woke up to see that his thought was wrong.

There were half a dozen municipal workers emptying the water from the well and it was under the supervision of municipal engineer.

Behind him was the municipal administrator.

Judge text-ed to district administration and they came and arrested the Engineer and administrator.

Next day judge asked the municipal engineer in front of the contractors' engineer, who is greedy?

The interrogation to the municipal engineer led to the collapse of a system where each one received a percentage from the mobilization advance of the work issued to contractor.

The assets in bank lockers were recovered.

Then they wanted more money before start of work, and that is why more capacity water tank theory and cancellation of contract so that he the contractor, gets loss of 20% with out a spade of earth work. That shall teach him as to how he should do contracts with the public servants. The public servants existed always but have become more corrupt and greedy with the joining of political bosses'.

The contractors' engineer was granted bail, he took more works and completed them in following years.

After about 10 years the Municipal engineer is punished along with the administrator and their assistants.

By then the company is again doing good at works and earning profits, but sticking as much as possible to private works only.

DISCIPLINE TWO
SEGMENT FIVE
SATYA
Forensics

Satya and his team were served with idli with some vada and sambar was made available.

They finished the breakfast and had a little fruit juice.

Maid said the tea is being made and will be served in next half an hour.

Satya said i have not finished the morning stories yet, for me either it is you or any one otherwise i go to the club house play my shuttle and talk these stories.

Next Sunday Krishna came, to the house of Satya in Delhi.

He said as you are aware one of **Sanjanas' maternal** uncles' is from Indo-Mongolian race.

Her fore fathers came to India very long time ago, and then settled.

They had cross marriages.

However still some boys were born with the Mongolian features and white skin.

This is after say 4 to 5 generations or more than a hundred years.

My mother sister and another person fell in love while working in a garment factory.

They married.

Now we have cousins who are both of Indian and Mongolian looks.

My mother' s sister is unable to find a match for her sons, while her daughters are in love and are getting married.

Satya said this is often the case with inter religion inter caste and inter race marriages.

Here the race is most discussed issue.

By the way you are yet to tell me the true story of your Uncle and his residence and marriage.

Krishna looked at him, i know you are asking about how he became a priest overnight in Pune area, during the drought time. I am also asking how he brought rains how he desisted his food for 12 days, said satya.

We know that this is actual story, and it is not the 'Guide' picture of DevAnanad, which we have seen.

But before that he had the parts of Raj Kapoor film, 'Mera naam Joker', where he was loved by his girl friend, teacher, house maid, and runaway nurse etc.

It looks like your uncle is a runaway hero of other sort.

But before i hear about him i am telling a story about a marriage where a Rajkumar exists. He is more than a Joker in the end.

These stories are meant to give reasoning and logic for life.

The systems of life are some times challenging, many times defeating and deafening. The silence is pathetic, the isolation in success makes one feel why and how he succeeded.

There was a case of a impersonation, where in a man married a bank manager by giving all the documents of his brother. What happened is.

Two sisters were the products of a family. The elder sister was married and she got a job in Hyderabad.

By the time the younger sister got a job in a bank the father developed complications and following his death the mother has also died.

This all happened in a span of 4 years.

Suddenly the elder sister thought she only has to take care of the younger. The younger working in Mumbai thought that she is well versed with the world.

When she was asked about marriage she said i have given an advertisement in papers.

She was flooded with offers.

Of such she wanted to select a Rajkumar like figure who had good earnings,car bungalow etc.After all she is alone with no bonds no expenses and any one shall like such an intelligent girl.

One day a phone call came.

Evening she met a man with beautiful suit in the Nariman point hotel lobby.

They discussed about all issues.

Next Sunday she had a call,she felt she has to open up.

She disclosed her identity,about her sister etc and every thing.

On hearing that he said i know all this i met your sister in Hyderabad.

I was in a business work,i went and met her in her college etc.

She asked her sister about this beautiful wonderful man.

She said in negative.

Coming week he went to Hyderabad,met her sister and telephoned from her house.

He took some guests as his father and mother and introduced them to her sister.

She took a week time to verify about what he said and check the horoscope etc.

Finally she said things look o.k.,but he had an elder brother who was convicted for seven years,and that may not be good because he has no property or earnings.

Both started moving freely in Mumbai,from car he came down to taxis and from taxis,either the Auto or the local trains were their mode of transport.

In two months time the marriage was done a local registrar in Mumbai.

Following a month long recession, there were dull activities except both were traveling places.

A sub inspector visited the house of elder sister in Vengal rao nagar in Hyderabad,he only collected details about her husband,about her sister.But asked nothing either about her family or her sister newly wed husband.

One fine day a gentleman came to her house and started begging her not to implicate him.

When her husband came from his work and asked him what he is and what he wants.

He started telling that his brother who was convicted of a felony is released from Jail.He used all the documents of him and has made the marriage in his name.

They were stunned, and did not know how to talk to her sister.

In two days time there were many phone calls.

One from her sister she was weeping, and telling she is duped.

The other from the police inspector to come to Mumbai police station, crime branch and identify the person who married her sister.

In doing so she has to tell the names used by him in front of the judge.

The last was from his brother asking her to help him,so that he can again go back to USA with his passport.

Finally they landed by train in Mumbai, identified the person and his names as used at marriage registrar, wedding cards etc.

They saw the passport and visa details of his brother, who is in USA.

The elder who is out from Jail used the typed attested copies of his brother [there were no xerox machines then].

He was sent to Jail after two months of proceedings for forgery and multiple marriages.

The elder sister has a grown up son,who is in USA who is married.

Her younger sister who was duped is now retired stays with her sister in Hyderabad.This is story from 1980 to 2010.

Krishna said,i have to go to **bank** to **transfer** some **money** to my friend in **Visakhapatnam**.

Opening his computer Satya asked him to give his **Debit card** and account number.

The transfer is done in a matter of 10 minutes.

It was a Paper less transaction, from home and no phone calls were necessary..

Thy both were busy attending to the house needs, and going for different works altogether for almost a week.

He said Krishna we are in to Sustainable Development Goals,which India along with around 190 member countries have signed and these goals are under implementation from Jan-2016.

Now these SDGs have 17 goals.One of the goals is banking for all.

We will talk about it slowly.

But Satya said as we went of Laws for human development,so much so we went on inventing banking systems to reach all citizens of any given democracy.

Human enduvour is also part of greed and ego.Forensic systems are dependent on establishing a time scale mechanism to look in to the human bondage, human relations also.The digital divide has to be given a go-bye.

Krishna said the contract systems went on modifying as we invented languages and their use.

The logic changed with purpose and systems of life.The continuous development of legal systems is a human necessity.

If all of us and learn a bit about the contract system adopted for the Suez Canal from the history.

A ship canal, about 166 km (103 mi) long, traversing the Isthmus of Suez and linking the Red Sea and the Gulf of Suez with the Mediterranean Sea.

Built under the supervision of Ferdinand de Lesseps, it was opened in 1869 and came under British control after 1875.

The modern canal was planned by the French engineer Ferdinand de Lesseps, who also supervised construction (1859-69). Great Britain, which had opposed the construction of the canal, became the largest shareholder in 1875 by purchasing the interest of the Egyptian company.

The Convention of Constantinople signed in 1888 by all major European powers of the time declared the canal neutral and guaranteed free passage to all in time of peace and war.

Great Britain was the guarantor of the neutrality of the canal; management was placed in the hands of the Suez Canal Company.

The British withdrew in 1956, and Egyptian President Gamal Abdel Nasser nationalized the canal, precipitating a crisis in which Israel invaded Egypt, and Great Britain and France sent armed forces to retake the canal.

United Nations intervention forced the canal reopening in April 1957. The canal was again closed during the 1967 Arab-Israeli War and remained closed until June 1975.

In 1995 for a project in Kakinada Beach, Satya and their team were looking for aggregate or crushed stone, for our concrete work of Tetrapods.

These tetra pods were to be cast at site, and then to be shifted for shore protection along the beach. Each tetra pod was weighting about 10 tons. The concrete mix was to be M30, Sulphate resistant cement was to be used, as the sulphates and chlorides were beyond the acceptable limits in the sea water.

Hence they were searching for granite or basalt stone which are available at Rajahmundry, which was about 100 KM, apart.

The stones were good the quality of crushing was bad because of two reasons.

One was the crusher teeth' were old and not crushing uniformly. Second Jaws and the screens were badly installed, and were old.

After rooming about a dozen crushers we ultimately could get the approval of Mr.Ayyangar [The consultant] and the Kakinada port trust wanted.

The consultant Engineer was as hungry as the clients representatives. The peculiarity was the consultant engineer has good knowledge and experience, but in background his marriage was a deep love for one of the Stenographers. That made him realize that she is much accustomed to the clubs and dances. But by then his marriage was over and he had a cross culture and cross religious breed son.

Having done that the team went on arriving at test specimens and tested them as per then prevalent IS 456 which is the code for concrete. The cement used was minimum 400 kg, per cum of concrete.

Satya said but in 2007 we had good nova crushers which were domestically made with collaboration from Norway, and they were roller mills, which were in use in cement plants.

The team went on making the inventory of materials from each of drawings for the housing and other allied works. This is generally called the take off.

Forensic systems also depend to arrive at the timidity, inability, incompetence, inaction, inter dependency and incomprehensible attitude of any or all the parties.

DISCIPLINE TWO
SEGMENT SIX
SATYA
Spectrum

On a Sunday morning when Krishna arrived there was a visitor already talking to Satya. It was 2025 August end, many are packing to leave to the diamond Islands.

Suddenly turning to Krishna Satya asked we know that light passes in straight lines as per Newton's laws, we also know that sound propagates, reverberates and it travels in medium.

But both cannot travel in vacuum.

The superposition image does not change if transparent layers with their opaque patterns are inverted.

When considering printed samples, one of the layers is denoted as the base layer and the other one as the revealing layer.

It is assumed that the revealing layer is printed on a transparency and is superimposed on top of the base layer, which can be printed either on a transparency or on an opaque paper.

The superposition of different broad casts outlines periodically repeating dark parallel bands, called moiré lines.

Spacing between the moiré lines is much larger than the periods of lines in the two layers.

Light bands of the superposition image correspond to the zones where the lines of both layers overlap.

The dark bands of the superposition image forming the moiré lines correspond to the zones where the lines of the two layers interleave, hiding the white background.

The passages from light zones with overlapping layer lines to dark zones with interleaving layer lines.

The light and dark zones are periodically interchanging.

Analog spectrum is long ago abolished and now we are in to digital broad casting,which leaves no space in communication. There will be less disruptions as well there will be clear picture. With less space more volume of data is transmitted freely and timely.

Bewildered were both the new person who latter introduced himself as **Edwards** from a **Solar electric** company.

The maid came asking the visitor how many spoons of sugar he wants for his coffee.

Satya turning to her said,he is not aware what your spoon size is how can he tell,if you ask how many milliliters,he will tell you how many milliliter of coffee and how much sugar.

The maid went away twisting her head and brought the coffee and sugar separately.

Now coming to the point this gentle man is telling that we can keep at different levels the Photo voltaic mirrors on a tree like mast, but all pointing to sun so that we save on the space.

Radio waves propagate outward from an antenna, at the speed of light. The other name of space wave propagation is line of sight propagation. But we have a feeling that our own net work of energy shall not be an obstruction for our beam bands which source our television and mobiles.

As we see our neighbor employs only 200 KVA peak load generators for transmission and uploading the beams as connectivity.

They are releasing very high un-obstructed sound and light beams in to the band width.

Which some times is called the spectrum.

One of them asked was it the same spectrum of previous governments on which there are cases.

It is about selling the space and making it crowded and allowing it to obstruct the sun light and wind rays.

No one was in a mood to take his cue on the matter.

By the way Edwards how can we make our batteries to retain the charge for at least 14 hours or even some times 38 hours is it really possible.

We are using litholium oxide for battery power and they retain the power till last drop.

Suppose we have a turbo generator with Nuclear power to connect our 10 acre 1000 apartment complex then the problem of power will be very less.

When available we can use the solar energy said Satya.

Krishna started,if light and sound can travel in space then what will happen when it rains.

For instance the thunder does it grow loud because of our mobiles and TV waves.

Will the lightening gets extra power because of the Light waves we induce in a band.

Are these bands are above the 10 KM range above the earth.

They do not obstruct the aircraft communications and allow for safe passage.

DISCIPLINE TWO
SEGMENT SEVEN

SATYA

Two Brothers and New Islands

If very thing is yes, then why we get the **earthing of lightening** at places very strong and we also get **induced currents** in any low level flying vehicles such as **unmanned aerial vehicles** known as **UAV**.

It is 'more time taking' than being difficult to explain each system every time **Krishna** asks.

We shall address them slowly.**Satya** concluded and **Edwards** went to the **masts** under construction in the borders and central areas of the 10 acre land.

There was a town away from town in fact there are many towns with in town which are not exactly the china town, Taiwan town etc.

But they are workers colony, washer man and hair cutters colony and colony for the destitute and orphans.

The rich old man orphan village.Young un-affordable, underemployed town.

There are peculiarities in all most all these towns.

The towns are made for the specified purpose,but the residents have changed from the day one of their incarnation,thus sabotaging the purpose they were meant to be in use.

This leads to simple **forensic** systems for investigation.

As we are aware the systems are back ground checks of adaptability requirement or the criminal intent of individuals.

Two brothers were undergoing training in a new country.

The brothers did enjoy a lot but have not learns the lessons of life taught by others.

They wanted their own.

They were in a zoo,a small group was trying to climb the horse.

They followed their trail.

Another group were on top of a camel, they also went on top of that.

By evening they had seen all area and came to the gate,by toy train.

The trainer asked them did you notice the white lions.

One of the trainee said no one told me where they are.

The trainer asked the other,he said you should have told that in the beginning.

He looked at the face of one of the brothers and said did you see the peacock.

He said no.

The trainer asked the second brother did you see the elephant,he said i saw it from a distance,but why was its skin so white and there were dark zebra crossings.

The trainer understood that he is with the second category of people as per the American society for training and development.

So he told all the people before we start our next set of lessons we will come here once more tomorrow,we will see all animals and we will not leave even the Crocodile.

People were happy they got one more day at the Zoo.

-Next day the trainer said before we go to the zoo,i would like to ask you,how much area i need for a zoo,if i want to have 10 tigers at 20 hectares for tiger,10 zebras at 1 hectare for a zebra,and 100 sq.meters for each Crocodile,with 10 Crocodile.

One of the trainers immediately said, provide the water needed for Crocodiles and also make area needed for tigers,and that serves the zoo.

The trainer was stunned at the fastness of answer rather than the argument behind it.

He then said i will ask you a reply for a small story.

A man and his **brother in law** were going on a **pilgrimage** and suddenly they saw many pairs of women are heading to the worship place.

The man has lost his **wife** latest and the brother in law is not yet married.

Brother in law made a proposition that i will see a sister to you, and I will find a woman for me.

The man has said it is time for you to marry,i will see a girl for you.

Then finally as a compromise they wanted to see **two women** to be married.

By the two women came near them gave them a bottle of camel milk and the short women proposed to the man.

She said as per the terms of my sister i am to marry you, because you are tall and dark.

Then the second tall and white women told the brother in law our custom is our agreement and me and you are married.

Both felt happy that their wish is full filled and asked them about their where about, their relation and where they belong.

Finally the short stout lady said i am young to my aunt.I am her sister's

daughter.
My mother has died latest.

Then the brother in law asked with their relation what will be the relation of future kids.

The women said you are from **paternal** relation families, while we are from **maternal** system women. She further said it is now more than 200 years that the first cousins marriages were abolished by all most all countries.

There was an agreement, she said, in spite of we the women relationship, we shall follow your relation ship.

-Then suddenly one of the trainees said sir we need not see the zoo and animals once again.

Show us the map of zoo, its functions and the area. That is sufficient.

The trainer said hear me boys the women were having more equal rights in the prehistoric ages, which can be seen from the Mahabharata, Ramayana, Homer Greek mythology in Iliad etc.

We also hear that in Maurya Empire in 321 B.C. when *Chandragupta Maurya* was in throne people used to wear colorful dress and diamonds of the area.

How ever around the time of Alexander III of Macedon (356–323 BC) there were more of first cousin marriages. Brother sister marriages of Cleopatra ruled ancient Egypt as a co-regent (first with her two younger brothers and then with her son) for almost three decades were seen as an emphasis to preserve the empire.

From the time of *Razia Sultana* (ruled Delhi, 1236-40 A.D.) around the world, the women started getting involved in the functions of state and family.

It was a turn around in history and an evolution in women empowerment.

In modern times women were not the property holders and only property holders were having a right to cast the votes.

It was after Second World War universal franchise of all eligible voters is followed in democracies.

Here comes the question who will rear the children, who will safe guard family and family traditions and property.

While they are equal partners they have not seen the mischief or mis behavior of male persons in society. Many times women play against

women and they use opposite sex to crush other aspiring women.

Hence their understanding is need based.

While with the **gender equality** women are able to climb high to sustain such positions is more a family issue than their capacity.

The trainer asked what you learned about women empowerment from the history

One trainee said it is difficult to train women to do certain jobs.

Another said women empowerment is not that easy.

Third-women needs lots of courage

Fourth-women shall have good men behind them.

Fifth-women also has limitations like men

Sixth-Women are less costly labor hence encourage them for all sorts of work and keep men for supervision.

Seventh-More women in Education, Banking, Service sectors, Administration and police will bring down corruption.

The trainer said enough.

That is it for the day.

Satya has finished his meeting with his team of associates and remote meetings with the teams at the Diamond Islands.

Start immediately, collect all documents, look at precast yards and materials on way at Cambodia, Vietnam, and Vanuatu..

The message is flashed for all. Once again Satya repeated the message to all his associates who are in the new mission.

DISCIPLINE TWO SEGMENT EIGHT

SATYA

August 2025-His Assistants

It was in 2020 he started looking at what could be the possible solutions for creating a good residential town ships away from manufacturing or production houses.

By 25 Th October,2025 he thought he will be creating a sensation.

That was the D-day.

He is just two months away from the day.

He has several locations to see and replicate or give final touches.

The city near salt lake is just made with 6 to 8 story buildings.

Around 500 apartments in 5 acres housing 1000 persons.The city is planned in 500 acres only 50000 apartments,250 blocks to house 100,000 persons.

The transportation system is trams, electric small cars and bicycles.

The offices and manufacturing are around the city.Small Modular Reactors are installed almost in 10 nos,supply the University colleges banks and other services which have also the solar back up systems.

The manufacturing units and service sector have installed RTG [radio thermal generators] which may be around 30 nos.

This are housed around 3 m deep and does not require a water cooling system.

Air is used for intake and out put,the air Coolers are in built.

The quantum used is hardly 1 kg for period of an year.

The reprocessing of spent fuel is done in miniature labs on the out skirts.

One of the **500 MW Solar power plants** is critically connected to a **20000 MW, uranium plant** supplying to the neighboring state and industries.

Suddenly the losses has come down, the manipulation in power connected to grid are gone.

On book India has archived more connectivity by adding about 200 **SMR[small modular reactors]**,of 5 Kg per annum charge with a possible hazard area of 1 Km,and incidence time of 2 hours in case of any ca-strophe.and around 500 **Turbo generators or the RTG** using around a **KG of uranium** with a possible radiation time of one hour and around 500 meters area.

The fact is that only around 5000 MW solar energy is added, but the decrease in use of thermal energy is dropping by 10-15%, which it self can be because of long distance transmission losses.

Thus many manipulations have come to a halt.

These generators have to be mounted on stable foundations either made of steel and encased with concrete or made of concrete and having bolts for erection of the Generators boilers, compressors, cooling towers etc.

Precast concrete structures are of minimum utility for power plants and, Proportioning of concrete can be either nominal mix, or Trail mix, or based on (sieve analysis) fineness modulus method.

Water cement ratio, and slump shall be based on requirements of use.

Numbers of tests are specified for concrete and cement to understand the strengths offered and their rigidity etc. Cubes cylinders etc can be cast and tested as per design standards.

This gives a check on the actual site work done and design assumptions.

Blocks of size. 40x20x20 cum. Size are used for main masonry walls.

These blocks are made with sand & cement in 1:3 proportions to give 50 Kg/CM² or higher compressive strength.

The wall thickness of these hallow blocks is generally are 3 cm.

Prestressing systems includes inducing stress in steel before the steel is placed and concrete. These prestressed concrete structures with stand more dynamic loads.

A cup and cone arrangement is made where 4 to 6 mm Hard Tensile steel is groups spaced apart.

The group of bars is in general 4 to 8 Nos.

Then they are kept in the pre cast member where they are to be used. By applying pull force from end (other end fixed) the 'gauge indicates the amount of stress added.

Then concrete of M 35 or higher grade (design mix) is concreted.

The concrete is cured for 7 days.

Usual lifting devices or supports for lifting are used for placing these elements in place.

Satya had a team to assist him. Ramu to look after the materials and house hold works supervision.

David took care of logistics.

Sanjana is sister of David who took care of the architecture.

Engineering and versatile construction matters were taken care by Mary with assistance remotely by Bethanik.

Ana Arundhathi a great social teacher took care of the ancillary developments.

Neeraj was in-charge for developing the Contract systems.

Personally satya was looking at the needs for water, transport electricity, and all other modalities.

This is his home monitoring team. Remotely they are connected to the teams working for town ship and other works at Dimond Islands.

It is a new beginning for the industrial houses, who have acclaimed the diversification and the modular approach, in decentralizing the production to smaller units.

This has made the possibility to meet the needs of the generation that depended on the geography of the new production units.

There was a **dam** about which **Neeraj** started telling all his mates, this is to tell you why we need to be abreast of the developments.

That dam called as Vajont Dam it was a disused dam, and this dam was completed in 1959 in the valley of the Vajont River 100 km north of Venice, Italy.

In 1963 (9 October) landslide caused the over topping of the dam and around 2,000 deaths.

When designed it was one of the tallest dams in the world, it was 262 m (860 ft) high, 27 m (89 ft) thick at the base and 3.4 m (11 ft) at the top.

Its 1963 over topping was caused when the designers ignored the geological instability of Monte Toc on the southern side of the basin.

Warning signs and **negative appraisals** during the early stages of filling were **disregarded**, and the attempt to safely control the landslide into the lake created a 200 metre tall wave (ten times higher than predicted) that brought massive flooding and destruction to the **Piave** valley below, wiping out several villages completely.

This is a story about soils and mountains their stability and rigidity and the human suffering.

Ramu was washing many utensils and had direct manufacturer boxes beside him.

He had a metal polish, a white new paper, a red packing bundle paper.

Martha came in asked him what are you doing with the mixie and electric

rice cooker.

See first of all if there are any scratches and any food pieces left over on these jars. I am applying also the metal polish and putting this red paper around them.

But Ramu, you are not going anywhere and you need no packing.

Ramu called **Natasha** who is also near by, please come here.

When all of them were there at a place he started telling.

These Electric items are 4 in number and cost me about 3 years back Rs.10,000 or simply ten thousand.

Now the same new items are available for less than 7000 that is seven thousand.

In three years their product value has come down by 30%. But my currency also came down by 15% during last 3 years.

Hence I can buy new items and use them.

We are only two or three persons in the family.

These materials are sparingly used and even now I continue using sparingly.

Ram, you need to tell us what you are going to do with these packing and what will you do with these glass jars, cups, tea kettle, etc.

He said these were the bonus items on purchase of the above used electrical appliances.

These are also sparingly used and have no scratches anywhere.

But why is this cleaning and then again packing in to original boxes.

Martha suddenly got the picture, tomorrow onwards there are half a dozen weddings in **Ramu's** relatives' houses.

Exactly, we have no time to go there to buy the products, hence for all four marriages we are packing these items, and giving them as a gift.

By weekend I will buy my requirements.

Natasha winked at him.

They nicely cleaned packed all items and kept them ready for gifting to the new couples.

The last logic Ramu said was the new couple will not have time to open all gift boxes for 2 months, and since many gifts will be there they may not use them for over a year.

He had his own reference for that, some of his packets in gift boxes are 7 or 8 years old, still not unpacked, still not used.

Natasha said I am getting **Sciatica** pain. **Ramu** told her have a check up for **lumber ridiculopathy**.

The hospital doctor told her it could affect partially the body and certain parts may be paralyzed.

He took blood test for ESR, blood count and check Testosterone.

The friends were stunned at the rude behavior of doctor in asking such a test.

Doctor said I can test panthreas where nothing could be found,

I can check **Appendix** which can damage the small intestine. Storing of **e-coli** against diarrhea such a place is used.

Some one will say check the **biliary tract** connecting to small intestine and **duodenum**. But checking **Gall bladder** will give lots of idea.

But the person will have great idea where his health is heading if we check Testosterone because that is the one which shows the functioning of all sexual organs.

Mean while doctors prescribed her Diacerein to take care of bone swelling. Methylsulfonylmetane to take care of testosterone and Glucosamine for giving calcium from sea organics.

The Doctor asked for taking more vitamin D-3 as tablets or powder. B-1, B-2, B-6, B-9, B-12 combination tablets available as Methyl cobalmin, alphalipoic acid, Folic acid and Pyridoxine Hydrochloride .

She did her body scanning, X ray for lumber and disc.

They suspected that the need for her is rest.

She had her truma of working day and night with her previous employer who at end did not pay her two years bonus and 6 months salary.

She was prescribed the medicines for months and was advised light work.

Ramu went to London to have some political accounts in some of the banks.

While he was at it. He was called from his office and was told that he and **Natasha** shall move to the Diamond Islands at Antarctica in next 10 days.

Ramu, Natasha, were to go to Rome and meet their friends, Joru, Aki, Lucia, and Rostov and check all arrangements, and proceed to TerraDel Fugo.

He and others are aware large town ship needs administrators and workers that is why Armine, Zarmine, Akimov, Aleksander, Fyodorovich, Antoly and others are also moving with them.

From India other team members along with Sangeetha, Amrutha, Dravid, and such accepted members are moving.

Every one will be there before 5 th September 2025.

DISCIPLINE TWO
SEGMENT NINE
SATYA

DISPUTE REDRESSAL

Satya was in reconciliation, he was thinking about the need to understand how we can effectively develop forensic systems to trace cyber crimes, online transactions and other such important thefts which effect the society. And that was the job of international development team and the bankers.

The cyber crimes are more dependent on biological needs.

We need social psychologists with modern thinking, theory and thought.

We need physical biologists, micro biologists and surgeons who can talk to bodies and bones.

Satya said we also need Engineers who can communicate with the soils, with the earth, with concrete, with steel, understand machines and such which we need to develop to evolve modern theory and thought. That understanding will pave way to know about misbehavior humans and misuse of systems for human personal gains.

This is more of robotic term because we need to know about the man and machine combination which was called as Cybrog, or hubspot or super-proprioception.

A classic example is irrational marriages, where except time and money nothing matters, said Krishna, every one looked at him. A marriage just out of physical attraction of a RJKumar leaves both with such characters as MeraNam Joker. Life is never short, never run, be stable.

In the simplest terms, forensic science shows us what not to do.

More importantly, it tells us why certain materials and methods work better than others.

Take reinforced concrete, for example.

Concrete by itself resists compression very well when pressure is applied.

But concrete does not stretch much before failing. Steel has excellent tensile strength and can resist pulling and stretching much better than concrete.

Therefore, using steel as reinforcement for concrete creates an assembly that resists both pushing and pulling.

Many of the great architectural designs of our modern era would not be possible without reinforced concrete.

Testing components and assemblies to the point of failure provides understanding regarding the limitations of those materials.

I knew a friend who, grow up near the San Andreas fault, he have been through a number of earthquakes.

Analysis of structural failures following seismic events has led to the development of new materials and methods.

Applying this knowledge to the built environment has saved many lives. The earthquake the hurricanes, in Haiti demonstrated the tragedy that can occur when forensic science is ignored.

One example of how forensic science directly applies to design and construction is in the realm of fire resistance.

Events such as the MGM Grand fire highlight the importance of designing buildings to protect life in the event of a fire. To do so, wall assemblies are constructed and weight is applied.

This simulates the effect of a load-bearing wall that is supporting the weight of roofing or other floors.

A fire is then set and researchers measure the amount of time that the wall will continue to support the weight before collapsing. Knowing how long a particular wall assembly will perform in a fire is very important for saving lives.

We will go through engineering as we progress further.

Public health is such a factor now a days that we need to understand and demonstrate that we are able contain the spread of air and water borne vectors and we have strength to deal with the pathogens.

Another example of the application of forensic science in the built environment has to do with common causes of water intrusion.

The typical house is constructed with a weather barrier that is simply meant to keep the weather outside.

This material wraps the entire house, except of course at openings such as windows and doors.

The weather barrier is protected by the exterior cladding such as siding or stucco.

Water weather moisture gives raise to new vectors and destroys the fibers of all biological systems in house construction.

They act against granite floors and also against concrete.

There is very less way to prevent such water entry 100% in to structures and make them weather resistant.

Alternate Dispute redressal systems with proper contract conditions are an absolute necessity,Said satya.

We also need to develop contract terms, conditions, and material testing requirements as per ISO standards.

The team in place started verifying the drawings and checking the conditions.They set in the arbitration and dispute redressal mechanisms which shall have equal status to that of an average court.If any party is dissatisfied they have to move the local apex court,or the high court at the Federal Government.

DISCIPLINE TWO
SEGMENT TEN
Delhi-The Floods-Public Health

There was a severe flood warning which was put in place for the city center, with the river expected to reach a record peak on Saturday night. It was August 2025. Ramu Sanjana and other local team members of Satya were feeling the drenching and water logging every where.

The EA said it was due to “significant impacts to infrastructure and risk to life in the area”.

Police advised between 30000 and 40000 people to evacuate in the banks and adjoining towns of the rivers.

The Environment Agency said pumps in the cities used for pumping out excess drainage water during floods were at risk of electrical failure due to water entering the buildings and a decision had been taken to augment the power systems and keep the floating pumps above the expected water levels.

The important city near by is Delhi, and the council said an emergency meeting had been held and the river was expected to peak meters above normal summer levels on Monday afternoon.

It was late August, and the monsoon is active in the upper reaches. The rain has not stopped since last four days. Saying it rained ‘cats and dogs’ may mean nothing in modern days.

It has brought down a 24 inches or around 60 cm rain fall in 48 hours.

That normally happens in a span of 60 days now it happened in 4 days.

Water water every where, but the associated problems are imposing mosquito/cholera, typhoid.

The low level earning persons and people with no lively hood are at schools.

But to get them drinking water was hazardous.

It is augmented from little away cities.

Plenty of helicopters are hovering the sky.

Very few are lifting the people from the flood areas.

Boats and transport vehicles are used mostly, except when it is very essential to save some one on emergency.

Food is brought by nets contains the plastic bags,each house top receiving based on signals received for the number they want.

Water bottles,and tiff-ens were sent in separate choppers.The assort-ion and dumping was well planned.

The medicines were ready but they need a respite from rain, so that the medical workers,nurses,and pharmacologists can take the distribution by identification.

The doctors were kept in groups and at schools in each area.

A room or two were converted in to a check-up, operation, and surgery rooms.

Four beds were provided in the adjoining rooms.

Enourmous facilities were brought in in last 24 hours,after seeing the 14 inches rain fall on the 3 rd day,hearing about the cloud bursts in the upper reaches of the river,they were preparing for emergencies.

From no where the north easterly winds brought heavy water brone clouds and they burst with the heat already in place with the functioning of industries and good number of power plats in the area.

The result is 10 inch rain on 4 Th day in 24 hours.

May be rain will come down slowly and respite is anticipated, but the surge in flow as of river Yamuna is enormous.

The first flows washed major wastes of polluting industries in to the house holds of near by apartments and market areas.

The second surge brought all unwanted human excreta or the night soil what ever we call it from upper reaches to the slum areas.

The burning of fodder waste in the Haryana, Punjab has just stopped they started making their fields ready for cop transplants.

Some one told them not to plow deep using tractors, but where are small instruments and small tools.

They could have saved a lot in water, and spending more on fuel, and more on time.

They do not know who produces light plow machines.

There were inquiries, some one said it is the FAO of the United Nations advise,to use less water and use surface plows to avoid methane emissions,the governments are still studying the implications at model farming places.

Farming in Climate Change

The results are to be submitted to cabinet sub committees.

But there was some one who said these experiments are as good as 8 years old and by 2016, it was clarified that alternate wetting and drying systems saves 30% of water use and yields more of food by 20%.

People are waiting for experts to restore transportation.

Reports that Hyderabad floods have reached a warning level have reached every citizen in country.

Satya instructed **David, Neeraj and Franco** to go to the help of civic and public health authorities at Delhi and help them there.

Render what ever help the NGO and government needs, find out contour areas for draining out, evacuate the areas.

Employ big pumps to drain water from nallahs, drains and ponds. Please use suction pumps with self priming and diesel generators.

Those were instructions of Satya.

DISCIPLINE TWO
SEGMENT ELEVEN
SanthaKumar
And
Building Construction

The Engineers and their men were in action doing dutifully their works making foundations. They have to create the quarters for engineers, laboratories for bio technologists.

The central control room for communications and satellite data recording and transmitting is an urgent requirement.

Various religious heads have already landed; their **temple architects** and materials are on the way.

These temples and habitat places with huge parks are utmost necessity to accommodating around 5000 people in each Island.

Not many Jetties are available for shifting the materials from ships to the shore and work site.

The **barges** available are **shallow bottom barges** with limited capacity.

The machines cannot be used as the silty soils at shore do not have capacity to bear the weight of the crawlers.

Things are needed to be done urgently.

He has **ordered precast piles, precast deck slabs** [steel beams] and **precast wells** to be on ground in next 48 hours so that at first he will have small jetties in about a week in each of the Islands.

Then when he gets the materials he will go for a wharf for each island.

He is getting suction cutter dredgers for doing the work for wharves.

At the Diamond Islands, **Samuel** and his team has taken care to provide weather resistant doors and Door openings are marked and left after plinth construction.

The small hand held instrument can be leveled on a table, once focused it gives the plum of wall as well the diagonals of the room.

Their worry is that one of the dormant liquid Lava Volcano which is near by. When it was last active is not known.

Seismologists are with out a laboratory and are precisely unable to put their data to know its exact activity.

The satellite gathered data indicates that it may be around 100 miles away and many not pose dangers.

Vanuatu of Oceania is another place the volcanoes eruptions and Earth quakes are active.

Loss of life and material is evident there.

All precasting and orders have been done by Satya and his team who are working on shore in planning during last 15 months.

Another group of engineers led him to the yard.

Precast Lintels are imported to provide above doors and windows and are suitably designed.

Lintels lifted and placed properly or they can be cast in site, by providing centering and shuttering.

Where needed chajjas are with lintel they are best cast in place, and supports removed after sufficient weight of wall is built over them, otherwise the chajja will topple and create accidents.

He told them religious places and meeting halls need to be specially provided with big arches.

Arches are another form of lintel from aesthetic point of view, they are better. Semi circular arches were used in 6 Th to 10 century AD, Gothic arches were used between 10 Th to 13 Th century AD, Islamic or moghul arches development started in 10 Th century AD.

Before that Linnaeus were used above the door openings in 725 CE.

A keystone at center is provided in case of masonry arches. End thrust blocks for arches shall be capable of receiving half of the triangular load on each arch.

Centering for all arches has to be done carefully and removal shall be from center to corner.

Cavity walls are used in heavy rainfall areas and in areas where there is heavy snow fall. Hollow blocks are also used for making walls. The walls of the laboratories, Habitat and other Gym and meeting halls are proposed with these blocks

However care is to be taken to break the joints of each layer by using half blocks.

Under the given circumstances the walls are mostly double layered wood, covered with heavy PVC coating on both sides to keep the temperatures inside.

The scaffolding is a ready fold able aluminum structure which can be used in shortest possible time for heights up to 6 M. Where ever the out side walls are higher such hydraulic platform is used. This works as a platform for masons to do masonry.

Unless warranted, Double stage scaffolding keeping two posts parallel at 600mm apart is not used for plastering & painting purposes.

The pipes are tied diagonally and horizontally.

Form-work consists of shuttering plates, made of wood, plywood, or steel, folded steel plates, high strength plastics etc.

The plates shall have holes or rails for connecting together. In between two shutters either a timber runner or 12mm dia bolts are used.

The form work after aligning to the required shape of a footing has to be supported form top and at $\frac{2}{3}$ ht, in an inclined position.

The supports shall be rigid.

Remember concrete is in liquid form till it attains its final setting time of 10 hrs. (Initial setting time is 30 minutes to 90 minutes depending on type of cement).

Where ever slabs and beams are to be cast, they made of precast waffle slabs, and deck slab folded plate arrangements used in Atomic plant construction.

This is also called the multiform arrangement.

Steel scaffolding and steel props with 40mm dia, adjustable jacks are available.

These can take much bigger loads of 1.5 T and above and are easy for fixing and removing.

The removing of centering and shuttering is called de-shuttering of the slab., shall be done for beams slabs less than 2 M. after – 3 days, and for beams and slabs up to 3 M after – 7 days, for slabs beyond 4.5M span – after 15 days the supports are totally removed.

Deck or corrugated metal is used as a permanent form work to be in place permanently so that it with stands loads, and the slabs are usable with in short time, safely.

He along with engineers has posted the details on each of the specific worker who is in to specific job.

The worker in masonry gets about masonry and plaster, which he gets translated to his native language.

The **dialectics**, **nouns** and the **tone and tenor** were kept so that the worker likes to hear that many number of times, and see the pictures each time.

DISCIPLINE TWO SEGMENT TWELVE

SANTHAKUMAR-Experiences

Mr Frank or General Frank has assigned different roles for each of his project men.

The whole of the system is Under **Stantha or Shanthakumar** an Indian migrated to USA who latter became a chief engineer. Due to the presence of black cotton type of soil the depth of foundation needs to be below the water table.

You can Say that Frank is the Administrator from the US government, and so santhakumar is the in charge Engineer.

Enough sand bedding from 0.1 M to 1M can be made. But this bedding shall be confined in foundation area by all means, and at all times.

Sandy areas require plum concrete bedding and a raft foundations. Confinement of sand by stone pitching, growing grass and vegetation is important.

Isolated footings are normally done for column type framed structure. In some cases – a group of columns may have a combined footing. The footings of columns are designed near the column for shear punch, and at end against bending.

Hence, placement of reinforcement shall be appropriate.

Architect Samuel is assigned with the Engineering of the Buildings. He and his team of professionals started laying the parameters.

I am listing the preliminaries and the necessitates for Engineering different works, most of the works were executed by me at different projects at different times. Some places I was forced to even do the design engineering which I was familiar with.

For high rise buildings beyond three floors it is necessary to use theodolite and leveling instruments. Continuous staging is used as each of the floor progresses.

Corner columns are checked for alignment & verticals.

From there all other columns are demarcated.

Hoists and lifts are to be used for lifting concrete and materials. Special lifts for men are also used where the size of building is more. Height to length ratio has to be maintained by designer to meet the Govt., regulations. He saw no government there. They are to create one.

Further drawings went on describing about piles. Piling is either friction piles supported by the surrounding soil friction. These piles are pre cast and driven up to point of required resistance. The hammer weight and drop length of hammer on to top of pile is fixed.

These piles are called end load bearing piles. A bore is made up to solid rock, and some times drilled 1 M to 2 M inside rock, which is called socket.

Open bore with support of bentonite is made in stiff clay's by using chisel and grab. In water and soft soils casing pipe is driven, while grab is used to take the material from inside the casing.

The designed reinforcement called cage is lowered in to the bore. And concrete with 100 to 150mm slump is poured through 6" to 8" dia tremmie. The tremmie is always kept 1m in the concrete while fresh concrete is poured. Finally after completing the pile the top 1 or 1.5M loose concrete is chipped off and pile cap laid. Most of the piles are precast and driven at site except corner and some architectural areas.

Since the soils are uncharacteristic under reamed piles were proposed.

The top layers are silt laden, and below such is a Cohesive soil layer which can hold the sinking of buildings in weather patterns:

These are used for light load carrying capacity. After required dia of 500mm and 6M length bore is made (with or without casing) the grab is used to create a bulb at the bottom. Boring, reinforcement lowering and concreting are done as in bored cast in situ piles.

These are good in clayey soils.

Santha Kumar was hearing his **inner voice** which said what his experiences were over years.

It was very bad precedence in his work experience, the precedence hunted him.

The **Naidu affair** in a Government of Andhra Pradesh company has left him toothless.

The slab was cast 1m below the specified level. The measurements were recorded in his absence and the person who unexpectedly forged his signature. Latter Naidu made a dummy floor for fixing the pumps and maintain their suction and delivery heads.

That was an impersonation issue.

A government of India enterprise operating out of Ranchi was in to consultancy.

The balcony designs made by them for Russian quarters for a defense factory at Hyderabad, left every engineer wondering why the cantilever slabs of balcony were falling down when the supports were removed.

The design of anchor rods in to near columns from the supporting beams has resulted in completing the work safely.

It was Jaya who made him to wonder why he needs to do engineering works.

The small dia piles of 2 ft dia were designed as per Jaya instructions to benefit his contractor by the same consulting company, It was again the collusion of 3 parties, the consultant, client, contractor.

The piles in marshy soils are with over burden of loose marshy soil. This over burden still under compaction since last 20 years.

This has resulted in soil not offering any frictional resistance to piles. In fact the soil at shallow depth of 17 m have started yielding under the contemplated loads.

Normally the business houses in India which are in to construction are for making quick bucks. For them micro financing is a small scheme.

The TV and film making persons need lots of finance and over a small period of time they pay huge interest.

But the owner of such monies has to block his capital for more than the required period.

The other problem for such investors is there is no way to pledge the property with bankers and obtain monies for business except for construction.

That makes every one to enter in to such business.

Their in built system does not cater either for engineering or designs.

Hence they never venture to understand why and how they are losing and who is behind such destruction.

They like to suffer and lose their skilled engineers who have some capabilities.

Maistry like people are good for such business entities.

With such a list of failures he was thinking how he spent his last 15 years in India, and latter 10 years in USA.

Being a contemporary to many Engineers in his age group,he went on designing material Handling structures for four years.

The industrial conveyors were having center deflection and v shaped so that the materials can be heaped and more materials can be transported than on a flat conveyor.

The angle of conveyor to ground is to accommodate the angle of repose of the materials such as coal,lime stone iron oxide etc.

Built many handling facilities at Airport for baggage and also built metal elevators at the same time for few Malls.

Having left the company in 1994 joined as a Resident Engineer and site in charge for a Kalkotta based Engineering Company.

His duty is to draw, bar or pert charts, arrive at monthly money re-quirements. Taxes and Bank Guarantees costs are estimated along with guarantees for performance, and security.

The end is the profit or loss out of the project,for loss he will take punishment,but profit gives him rewards.

The rewards are never mentioned as a sum or percentage of profit.

Lots of money was pocketed by middle bosses,who used to show spending for permits and consultants apart the percentages to the clients which normally runs 8% over all.

This process of arriving at the costs and trying for economy for each one of the new project was taking at least 45 days, on opening a site.

This is in general a manual for the contract, which is also guidance, and check on the contract conditions.

All deviations are incorporated before the start of work, or after completion of the project, and a project report is established.

Santhakumar thought for a second about the Workers housing colony,water supply mains to engine assembly,paint shop,and fire hydrant system he was doing for an automobile unit.

The fire hydrant system was non Hazardous in all areas except in the paint shop.

The oxygen plant pipeline was so critical in handling. We also did compound wall rods and drains.

The physical verification of progress is a prime requirement of the Japanese consultants. He thought for a second about the manipulation they were doing for lack of money as resource in loss making project. He felt about sub-contractor Mr. Ramesh Choudary could not mobilize more resources and manpower, as the tender was under quoted.

Consequently internal pressure was building to mobilize more money from completing the project. So the masons were limited to 4 parties working at two locations on a 2 K.M, compound wall.

This has led the company to show the progress in the morning with four gangs at the entrance of the gate, and mobilize the 'same' masons to factory side in the afternoon, that is where the inspection takes place at that time.

A long lengthy wall with no columns [rather the columns at around 6 mtrs apart were avoided in the construction of the wall] and height of more than 6 mtrs was done in a hurry to facilitate early opening of the factory by the then prime minister.

There was no scope for the mortar even to harden and attain the strength, forget about having a concrete beam and pillar to break the joints.

A 30 m stretch of wall collapsed killing instantly 2 nos of masons.

The risks were the tender was quoted with prices assumed, some one fooled the tenderer, the actual cost was coming more than the tender value for each of the works, the owners were not paying in proper agreed intervals, the result was negative cash flow, and project losses.

Added to that is a change in policy by the government which permitted the automotive plants for building of passenger and goods vehicles for all three plants at the same time.

Suddenly the owners pruned the project and avoided building test tracks and other research activities and cut down the investments from Government..

There were daily stories of ghost traveling, stoning the night workmen like carpenters and bar benders for workers housing led to loss for the piece rate sub contractors, who were unwilling to carry work unless the payments were made.

One day a late-rite stone supply lady came to santhakumar house asking for payments, the plight of begging was alround.

Risk was more personal.

The chief engineer was against the company, and so the site engineer. The sub contractors for plumbing and pipe-line work and the Road work were threatening with dire consequences each day and every day . Young persons who came to work for the project have ran away with out telling a word to him, and with out asking for payment.

In the same company after executing the water connections to all manufacturing units of car production, and making all the ancillary work he have moved to a big cement plant.

The entry gate design to have good splay and allow the flow of traffic is followed in Hazira for another plant that gave him good credit as a designer..

Cement plant work was for 15 months, involving the Packing plant, cement silos, cement mills, etc.

The company purchased new jacks and assembled and made the slip-form work for the silos of around 30 m.

The hoppers were cast latter. Work was done without any misshapen, though the work was at heights of 30 and above meters.

One of his engineers was executing the quarters, he was tying the reinforcement for the slabs after the shuttering always in a wrong way and offering for checking after having done so.

The clients were unhappy with us because of increase in wastage of steel, which was cut and bent in the wrong way.

The owners engineer was a good person .He worked in our company and latter joined the owners side, as the night comes he wants good chicken, liquor, and good time pass band.

He was happy the way he was, he died of cardiac arrest after working for 10 more years at about 55 years of age.

His thoughts lingered around surrender Singh and ayyanna who used to booze and manage the crusher and workmen for doing the large dia silos and their bottom concrete hoppers.

Mysore was another memory for Santha, he had moved to telecables work, at Mysore, Hootagalli Industrial estate. The work was sublet before we went there, on Rs.100/-stamp paper, to 3 subcontractors.

As usual the rates were 20% less than quoted.

Because there was no mention of equipment and as well the mobilization advance for the sub-contractors, the work was stalled for more than 3 months.

The first thing we did was to get the regular work force and started working on each of the works the clients wanted and such of the works the subcontractor has no experience, and cannot invest.

There were tensions and the sub-contractors also started working with our materials.

The matter was settled, and work was completed.

From there he went to the works of bottling plant at URAN, Navi Mumbai.

Before he have reached, one of our colleagues, who was site –in charge was pushed and man handled along a kilometer length in the site, for starting the work without the local leader's approval, which was in 1996.

This project we did the works to the mark, however the stone columns done as a foundation,for the hotten spheres vertical columns failed and collapsed.

Hence the project commissioning was delayed.

By this time having received a promotion as Resident Engineer, there was enormous work to be done.

He was not sure about the schools availability for admission of my sons in lower classes.

He still had no idea that small contractors and suppliers pays him as a site in charge.

By then it was the end of 1997.We were happy to see many of the water supply and other industrial units done by us have started making production.

But the private sector in construction started seeing new emerging companies in Hyderabad region.

The competition was enormous.

Persistent failures are most common.

The goddess, which is the new project,[cement plant or similar] has maximum life of 15 years, of this it runs satisfactorily for maximum 7 years.

This is more so in case of bridge, and road projects.

It is the case with flats, houses.Which are to be built in 15 months.

If the project is delayed, and goes in to cost overrun, then the effective utility time becomes less than 10 years, in these projects.

1998-99 the company saw a great change in the construction industry, while working for the Industries at, Hazira for the petroleum cracker and other products plant.

There were concrete batching plants of 30-to 50 m³.,Greeves concrete pumps of 100 m³ and above ,along with rock breakers, excavators, pre-stressing equipment.

Even the precast driven concrete piles driving equipment brought by others from Russia, has created a record number of piles driven in a single day.

When the company started the works of an important factory, at Hazira, the company was along with the other big companies was, selected for the huge plant construction.

At that time close owners of new ventures have acquired or were acquiring the management in other big companies of India.

The first task was to do a filling of vast stretch of 500 acres, adjoining the Tapati River.

Moving huge amounts of sand for 2 m uniform level filling was nearly impossible. Hence we suggested that Tapti bed deepening for bringing input material for cracker plant, is imminent and hence obtain a permission form the district administration, and the state, so that the dredged sand can be filled.

The idea seemed fit, we were to contact dredging companies and jetty construction companies for making a jetty adjoining the existing wharf area for berthing the Dredger.

The work was done by a Netherlands company.

Only while moving the dredger inland the captain did not follow the high tide requirement and the dredger got grounded in nearby waters latter next day it was pulled to its position in river.

After completing the reservoirs with our design, the next was lining the reservoir, which we did with continuous concrete cast in place using a filler joint to make maximum 3x3m panels, connected at 1m intervals with 20mm dia bars of 1m length at joints.

Then came the laying of roads in dredged sands to the industrial standards, Meanwhile we have decided on the splay for the entrance of the trucks and gate parking system.

The road machinery including graders and rollers could not move a foot in the fine sands.

Then we have re-sorted to spraying of quarry dust and making the area wet before rolling which has brought some relief to us.

Elsewhere as mentioned we have done a helicopter landing facility as well better labor hutments for the project.

Here we have designed the foundations even for the batching plant and succeeded.

Suddenly the work was stopped in the project. We were routed to Udhana, spinning mills works of another industrialist, in the area. The works were under another division; hence not much money was flowing to meet the monthly challenges.

Sources said The Prime minister has changed and that changed the industrial priority. Because of lots of aggressive reports in the newspapers. Which have criticized lack lusture and proper industrial policy by the Government of India.

Though we did works well we have to demobilize to some extent from there.

In the events followed we were at Jamshedpur, Modernization plant, in 2000 June.

The risks were enormous, the rents of houses were either equivalent or higher to our salaries, the agreement was for 11 month tenure for accommodation, and the brokerage is from 15 days to a month.

The transport was freak, and we have to hire a auto for children education, the school admissions reflect a year salary, and the client companies were paying it while for us the contractors the money was not paid by the managements quoting higher costs. That was the life at Hazira.

The vagaries of clients hierarchy was abnormal, if you praise and go to their house and lend them a bottle whiskys, and a color television they will spell their monthly quota for each of the running bill passage, if you are not talking these things you are shunted to some freak works. We faced it because we got accustomed to it.

Having built good amount of Iron, and automobile industries to- day's position is such that they have become key players for development in twenty first century.

Jamshedpur was one of the oldest Iron making industry towns. We were there in the years 2000-2002 in the town, for the first modernization

scheme and building of the Blast furnace complex. The consultants and owners were well known in the field of iron making One component at Jamshedpur was the cast house, of the Blast furnace around 440X40 sq.m[Not exactly sure] area.

It was done with precision, with out any accident, using 440 tons steel given by owners, for Shuttering, supports and scaffolding.

The work was done 3 months ahead of schedule.

The Blast Furnace Receiving station of 12 m, and 100 m, was built with 230 mm brick wall, with 300X300 mm brick pillars at every 6 m apart, steel I section was used as beams of ISMB-500.

Then other connections followed, slab was of 100 mm laid on top. The I sections used for slab started deflection as the spans were more and in-between slab is not supported well. [1] the columns were insufficient

[2] There was no anchorage of beams in to Columns to take care of deflection

[3] The slab thickness was insufficient. Latter props were made and inserted at 6 m length of I section to take care of the excessive bending moment.

The problem was non working local forces headed by local gangs of JMM, who needs to be employed.

The weekly payment is a must, if work in evenings is to be done we need to get evening tiffin to workers and pay them double the overtime.

Added to that the activists of the political parties ask for favors such a taxi, money etc, if these are not given next day you are depromoted and transferred.

The company had worked in Marshy soils at Hazira in 1998-99, and santha kumar worked at Mumbai-pirpau Island in 1999-2000, for Hyundai Heavy Industries work.

He also worked on on shore and off shore platform pipelines and instrumenta-tion at Saudi Aramco in 1998, and Ravva in 2002-04.

We had worked other wise at Ankles-war in 2004, and Narmada River Piling for Power Transmission lines in 2005-06. By then Santha had his admission to US universities and went and joined there.

He went to my previous employer in 2005 he did not respond, even though he was the Director in a big company, he asked me what santha brought for him, in return he will offer santha a job.

It was only after completing the works of a small steel plant he was run-ning for life, a job, a work, and money, and was reading the book.

He soon went to Saudi Arabia after a brief stint as a contractor at home, in 1998. Infact he had worked on very big steel and cement plants earlier, did their engineering, and as well construction engineering.

But never was he so much targeted that it was a run your self situation. He did not know why the heads at Vizag plant could not give a letter of experience. They never gave a recommended either in letter or verbally to any one asking about it.

When Santhakumar came from Kakinada, he was taken to a granite shop for purchase of about Rs.5 lakhs worth of granite for house under construction.

Santha thought that the person has paid it, however the contractor wanted to be billed in earth work after about 2 years.

He thought it was farce but latter to dismay some small contractors who did the offices for the fabrication work and offices for contractors associated with the work were not paid.

He asked them saying it is part of their work, they told me in Mumbai railway station they paid unofficially to the headman of the project execution.

Latter in 2005 he came to know that the incharge works at vizag plant was asked to go home in 2000, while all others left in 2006.

The piles were driven to $n=100$, the class of soil was never assessed. As said in the fore gone chapters it was a marshy area filled with a sort fines, sand and silts.

The compaction of top or bottom layers has not taken place. The length of piles was shorter at 17M and it is shocking to know that this is the soil liquefaction zone in these soils.

Well foundations could have served better. then the Director of IIT, Delhi, recommended it before he was at the works for project execution.

The failure was to every one account .

Dr.Fleming came to site on behalf of the contractor.

He advised to use rotary rigs, large dia piles up to the rock strata, and integrate them with new pile caps.

This was done as per his recommendations and the company started production. Harassed dejected, misused with very less alternatives US looked like a heaven.

Santha Kumar having joined in a job in USA one day found Ratna,they discussed agreed and finally married.Together they both will be at these diamond Islands.

DISCIPLINE TWO SEGMENT THIRTEEN

Cdr.BHADHARI **Life Experiences in India**

Santha kumar was thinking the variety of men and women whom he considers as friends. Before going to USA he has varied experiences with his **women sub contractors**.

They used to do very difficult works, they were from Bihar, Bengal and TamilNadu.

After he went to USA he found **Ratna** and **married** her. As is evident she is working for international development organizations.

They, meaning some friends of him are in to same profession, some are work friends and some are family friends.

One of his friend from Khatiyawad area of Kutch, Gujarat had a beautiful marriage. The marriage was well attended.

Luminaries and socially recognized people attended the marriage. It was a doctor Engineer marriage.

The woman is a single girl of very wealthy family having business in to diamond polishing. They wanted a son-in law who can take care of the driving of their family business. Their daughter has chosen an unnecessary field of treating the humans. They could not tell her no.

Latter after her migration to Hyderabad it came to be known that it is a contract marriage for ten years, mutually extendable by another two years or upon the migration of the Bride groom to the father in law house to do their business.

The very basics have come to threaten the life after two years. Luckily she was very young. Hence they both agreed to going for moderation in an embryo clinic. After an year trial and after three years of marriage she could get a son.

Doctors advised not to go for any more child births.

He was discussing how modern communication travel and life have modernized over years.

It might be true that Vascodegama has found India. Marco Polo a traveler on his visit to south India from China was in the area in about 1293.

He noted that climate and ignorant treatment did not allow horses to thrive there.

If the climate then was little hot in 1300 then the climate went on changing and by 2000 year it is almost near to some desert conditions.

Marco Polo admired Kakatiya queen Rudramba, who has ruled Hyderabad area for forty years.

That was a person who made sea voyage possible.

He noted the Hindus' strict enforcement of justice against criminals and their abstention from wine, but he was surprised they did not consider any form of sexual indulgence a sin.

Marco Polo related a legend of brothers whose quarrels were prevented from turning to violence by their mother who threatened to cut off her body parts if they did not make peace.

Mongols were always an invading force at the borders of India.

Many kingdoms were facing problems with the fleeing Mongols.

About 200,000 Mongols invaded in 1299, but they were also driven back.

From such point the History of Modern India starts.

Having read his book with the stories, **Engineer Santha Kumar** thought it is time to say good night and started to sleep on his bed.

For a moment he could feel where **Ratna** could be.

How the children are doing.

He is aware **that she will join him in this Island.**

The Islands will have a tankage for storing of oil and gas for Choppers and for use for lighting and cooking etc.

But they are trying to find methane reserves, in nearby oil wells under investigation.

Bhandhari is now married to **Jakie** after she is divorced in 2020 by then Vice president.

He thought for a moment his broken marriage in India very many years back.

The women harassed him and his parents by putting a 498 A case of harrasment, and a complaint against demands for Dowry. It is also a case against house cruelty against women

It took him to settle the issues more than four years.

He was in Jail each time for a week may be at least 10 times.

Each time the case comes to a hearing, he was demanded money from all

sources,pleaders,Lawyers,Court clerks,Police,the girls lawyer and even the girls family was demanding money and more money.

Finally a friend took him to the Superintendent Of police,he advised him to meet the judge.

Judge called on the social workers and told them to settle the issue out of court.

Then the social leaders went to girl father mother and made some sittings, and then they went to family court and asked her to sign mediation agreement.

The judge gave consent to discuss in lok adalat, and for with drawl of case.

The judge also said any issues they can come back after settlement from the family court.

The process took another two months and costed another 10 lakhs.

Finally the girl received 30 lakhs as a lump sum payment to her account where she will declare it as an income.She has asked for special concession from tax authorities and based on court certificate she got exemption in tax.

All the other payments and expenses of her were more than 15 lakhs.

For social leaders development of their hostel 10 lakha.Police and others.another 15 lakhs.Ultimate expenses costed him more than a crore.

The fortunate part in the whole process was that the case was not listed for hearing,the police did not move beyond the FIR stage.

Hence he was lucky,other wise he will be awarded punishment such as imprisonment for some years.

He lost 3 years of his beautiful age when he could have enjoyed with the children.

Luckily for him the US military did not mis-own him.

He got promotion after promotion,and is now in this Island,with his wife and children.

He always thought it is in the DNA.One of his cousins has a mysterious sex problems.His claim was that he is weak and his newly married women is asking for more in the bed.An year before his second year of marriage he died,with unknown diseases.

Another of his maternal relation was known to have sex with many women.And the women used to offer him breaths.He too died because of

mysterious vector with in an year of marriage.

His cousins who has a love marriage was always looking for eligible women in community.

He did enjoy the women and gave benefits out of his power to them.

One of **his cousins** have married twice once a Lesbian Gay Bisexual transsexual community member, who looks like a women but could not bear any child.

Then he kept her and married second time and had children.

People envy him because they want for sure a confirmation that he has extra sexual first wife.

At these times **Commander Bhandari** heard that the **Small Modular Reactors or SMR, and Radio isotope thermo electric generators or RTG designed by Ted in 2013** are increasingly being used by many communities.

These reactors are marketed by many Island countries and are in use world over.

There could be small but still needs a confirmation that there are no radiation problems. In these generators Plutonium is used to generate heat and as it decays into non radio active materials it works as fuel.

The heat generated is used to make electricity by an array of thermocouples.

This is safe for flying air crafts also.

The fuel cycle can last 30 years and can generate 50-100 megawatts power which is sufficient to power 100,000 houses.

In such an event there will be under water cables instead of pipelines as gas and oil requirements will reduce considerably.

The procedure for laying and burying such cables will be easier than the pipelines.

DISCIPLINE TWO
SEGMENT FOURTEEN
MURRAY

CDC ENGINEER

Detective fiction emerged with logic and background analysis, that was from 1841-1941, the writers like Edgar Allan Poe, Edgar Wallace, and the fictional characters like Sherlock Holmes, Perry Mason became famous. It was logic versus forensic sciences use. It was legal versus the drama where men were caught in action.

Finally it was the psychological behavior of each person based on needs. But it was starting with James Hadley Chase who subscribed to the idea the cookies will definitely do a mistake.

Yes based on relative issues the cookie will do a mistake depending on his power caliber, knowledge and his relationships. That was how the world could catch masters who cooked up many things in their companies.

This reminds me many bondage's and restrictions placed in society to achieve a normal function and avoid abnormal relations. After all when idle human mind do not mind any thing.

This crime scene is about a Mother-in-law and son-in-law.

The daughter is busy with newly born baby.

And mother-in-law invites the man because there is no one else except the three of them in the house.

The scene was constructed by a friend of the daughter and she rushes from hospital to house suddenly to see the mother in the lap of her husband.

The daughter telephones police and sends them to jail.

But the intermediate scene is the husband and mother both try to kill her and her new born.

It was with her text message and a phone call to her friends' that gets the police to action.

That is why many societies do not accept the stay of mother-in-law in the stay of son-in-law, for a longer periods.

And so also the stay of son-in-law in the house of mother-in-law is also avoided. This was so even in earlier Vedas, and other known philosophical systems.

Not only that, unwanted young females around the husband who cannot

engage his wife, when the wife is pregnant or when small children are growing has to be avoided.

So also young men or close mama [uncle type] of relations of women are not allowed to stay in the women house when husband is away is also set slogan.

These customs are to preserve the Ethics, to preserve family, preserve the name of wife and husband and they as a family.

Money does not grow fast in families as the time ends and children become adults.

We understand many changes in laws concerning human relations enacted by each one of the social controls, either the kings, the Zamindars, the emperor or the judicial systems.

Well they remind us where ever and when ever we miss the forensics.

The mother has two married sons, and she has inherited lot of property.

The sons and their wives want to kill her to get the riches.

One day the sisters' husband meets them and tells them that she can be kept in a burning house.

By the day they realize that they need a death certificate to inherit her riches.

So they hire a dead body and put across the jewelry which their mother was wearing when her husband was alive.

In Indian terms after the husband death certain types of jewelry shall not be borne by such widows.

The women daughter recognizes that some cooking is going on, and searches the surroundings and finds her unconscious mother.

She teaches a lesson to her husband and her two brothers and sends them to Jail.

She tells the police that the corpse they brought was some body else.

Then they and police ask where she is, she tells police that the jewelry on the body do not belong to her mother and authenticates with a latest photograph of her mother.

The police realized the fraud and arrested the brothers and her husband also.

He thought, money has no limits in all these cases where greed is more personal. This is forensic science but we need to develop in to each branch of engineering in the years to come.

Murry was looking across the types of Human laboratories that are working under different countries under their Comm-unable Disease Center.[CDC].

CDC regime is so peculiar that it is difficult to get to know about the virus affecting the CNS[central nervous system] or for that matter the damages in brain before the on set of infected candidate.

Sports injury hospitals, Military hospitals, and hospitals of many Companies are to do an analysis why and how the Central nervous system gets affected in Injuries, and in infections.

This Island is to accommodating 5000 people at any given time. Of this around 200 to 250 persons are here. There will be around 2000 houses, which may be built in next 3 years.

Hospitals schools, play grounds say what ever but by the turn of this summer we need to complete certain hospitals and around 250 houses and another 10-15 dormitories to accommodating 30 to 40 persons in each also have to be done.

He started moving towards the main eating halls.

Having put his memory on such of the stories which Satya used to tell them, Murry was thinking about his works at the Island. The Armundsen-scott South pole is at 90 degrees at the south of south pole. A station by name AS114, is to measure the Auxiliary seismic system and is almost at the south pole near to the Armundsen-scott station..

There is **an Island** which is 150 Km away from it. That is the place where the convention is taking place.

It was a huge meeting hall with big Dias, many anthropologists, many doctors along with micro biologists and Public health and Engineering specialists were meeting for a three day discussion on rising temperatures on earth and the immunity the virus and bad bacteria is getting from the weather changes.

There are as usual many guests including **Kapila, Marino the Public health specialist, Raushan**, apart from others.

There are complaints that some places the existing antibiotics are not all working.

There were Doctors and other panelists comprising of **Dr. Raju**,

Ravinder, Shaw, Rammej, Samuel, Hochimin etc from around the world.

Dr.Hochimin started,“Based on what we know now, the best way to avoid Zika virus infection is to prevent mosquito bite and to avoid exposure to semen from someone who has been exposed to Zika virus or has been ill from Zika virus infection”.

He had not explained about further findings as to how the virus is blinding the people by affecting the eyes.

The discussions are clear, the insight is as expected,there are unconfirmed reports that one of the Malarial virus is in these Islands.

It is unclear how long the virus may linger in men’s semen after virus symptoms subside.The CDC spokesperson further added, “We have not made recommendations regarding sexual transmission of virus.”

Just a few days earlier, the CDC had emphasized that current science only allowed for the “plausibility of spread” through sexual contact, but that mosquitoes were still the most likely source of infection.

Future may coincide with Aedes vectors,and Person to person transmission both vertically from mother to fetus and horizontally through sexual transmission with international travels.

We now have to analyse any possibilities of interference between the Aquired Immune Deficiency and this vector interaction because the proximity of blood for their transmission.

Viral encephalitis is emerging or re-emerging as an important cause of human disease due to increased geographic.

Dr.Raju said changes in vector populations and in human association with reservoir hosts and the appearance of new viral variants that are more reactive for humans and are more efficiently transmitted.

Dr.Raju continued,**Larvacides** are poisons,similar to stomach poisons,which regulate the growth of **Larva** and regulate or control mosquitoes,and malarial infections.They control many insect at larval stage.

We have a research laboratory here for getting the drug in such form.

Other research is associated with emerging viruses, half of which cause serious neurological diseases.

The reason for proposing very number of special hospitals is because of some claims of radiation, and some bacterial infections reported over a period of time by the workmen and the visitors.

Arthropod-borne viruses have been restricted in range geographically by the availability of their invertebrate and vertebrate hosts. However, modern transportation has introduced vectors that efficiently transmit **arboviruses** into new areas. In many areas, pre-existing populations of competent vectors set the stage for successful establishment of viruses in new regions.

Among the increasing number of “neglected tropical diseases” that have been identified to disproportionately affect the health and socioeconomic status of impoverished populations of the world, is **onchocerciasis** caused by the **filarial parasites**.

Interventions designed to interrupt transmission of onchocerciasis and lymphatic filariasis are based on reducing the **reservoir of microfilariae** in the community below a threshold level that no longer sustains transmission by local vectors.

Five or more years of mass drug administration (MDA), which includes various combinations of **ivermectin, diethylcarbamazine, and albendazole**, is the primary intervention used to reduce this reservoir, as evident in the progress of the global effort to eliminate lymphatic filariasis as a public health problem by year ending.

Dr Ravinder caught the thread and said there is a discussion on health issues going on next room of the Habitat area. We can go there. Aksaichin was there. One of the Psychologists there was **Dr. Rameej** he started telling to the audience.

Clean **pineal gland** and strong mental health are most important to tell the truth from the lies and take control of your life back to your own hands. While we spend our days being manipulated slaves, science and spirituality are joining up and offering us clues.

Samuel said the pineal gland, or **third eye**, is located in the geometric center of the **brain**.

He continued the pineal gland was called the "third eye" by ancient people. It was thought to have mystical powers.

This may be why the French philosopher ‘Descartes’ decided that the

pineal gland was the seat of the human soul, the location of what we call the mind.

The pineal does contain a complete map of the visual field of the eyes, and it plays several significant roles in human functioning.

Another Psychologist is **Shaw**, he caught the breath of the audience It is the center for the production of the hormone **melatonin**.

The pineal gland has been implicated in a number of disorders including cancer, sexual dysfunction, hypertension, epilepsy.

The pineal gland calcifies with age and melatonin production correspondingly decreases. This decline in melatonin has been suggested to be a trigger for the aging process.

Environmental stresses affect pineal function, impacting overall body alertness, temperature levels, and hormone operation. He was thinking what affect the animals particularly his dog at this time could be having.

Today we can say that many of the secrets are right out in the open and that truth and knowledge can come to those who seek them and are able to recognize them.

Melatonin is implicated in a wide range of human activities. It regulates daily body rhythms, most notably the day and night cycle called the **circadian rhythms**. Melatonin is released in the dark, during sleep.

The theory that **stomach ulcers** were caused by spicy foods has been replaced by the discovery that many ulcers are caused by a **bacterium**.

He started telling modern hospitals are in mouldable air conditioned tent on top of 10 story buildings where the near by buildings have a chopper landing facility.

Waste management on high rise buildings and collection floor wise for instance is one which is a complicated management system.

Connecting buildings at floor levels to avoid ground traffic energy and time management also needs through investigation and study.

These connections for buildings at elevation have become a necessity of future.

Now these hospitals are equipped with digital analyser which takes already fed medical records, blood picture DNA sequencing, and deficiencies in Glands, requirement and or deficiencies in Vitamins, Minerals, symptoms of Thyroid-ism, and possible implications of blood sugar etc.

These are analysed systematically and then the composition set by doctor is checked by pharmacist and down below in the medical room the medicines for each individual are made.

That was how the Kings and Queens used to look beautiful, and healthy. Though this process is individual there are common things that all of us feel when our dormant knowledge bursts into our consciousness.

The third room **Joru** was present along with her friend.

Animals can be classified into two main groups: vertebrates and invertebrates.

The main difference between vertebrates and invertebrates is that invertebrates, like insects and flatworms, do not have a backbone or a spinal column. Examples of vertebrates include humans, birds.

The two main groups of animals are vertebrates and invertebrates. Vertebrates are all animals with a backbone.

Humans have a backbone which is part of their skeleton. A skeleton gives the body support and shape. Emerging Infectious Diseases of the CNS

It was **Dinesh** who was in a floor below the happenings on the building. He was also attending an official discussion from the doctors of center for comm-unable diseases.

Bats are increasingly recognized as important hosts for a number of zoonoses that cause CNS infection. (Filo-viruses).

Disruption of the environment with **changing agricultural** practices has increased the likelihood that these **viruses** will be transmitted to **humans**, as suggested by Ni-pah and Hendra virus outbreaks.

New outbreaks of Ni-pah encephalitis, nine of which have occurred in Bangladesh since 2001, resulting in the death of 40%–75% of infected people, indicate human-to-human as well as bat-to-human transmission.

There are currently no treatments available for these viral **CNS diseases**. Development of **antiviral agents** may be useful, but treatment at the time of symptoms may not be effective.

There is an urgent need for continued surveillance and identification of viruses in vertebrate and invertebrate hosts to anticipate the introduction and spread of new and old agents.

A better understanding of the mechanisms of entry into the CNS, of neuronal damage, the immune response to virus infection, and prevention

of **CNS infection** will guide the development of appropriate interventions.

Vector-borne diseases are illnesses caused by **pathogens and parasites** in human and their communities from mosquitoes, ticks, bugs, flies and other vectors..

Malaria causes more than 600 000 deaths every year globally, most of them ... an infected host (human or animal) and later inject it into a new host during their .

Vector-borne infectious diseases, such as **malaria, dengue fever, yellow fever, Infectious diseases** transmitted by insects and other animal vectors have . Similarly, by the mid-1970s, millions of new post-control cases had occurred in India of vector-borne human pathogens.

All four attended their meetings coincidentally they all met in the down below canteen for their lunch.

Joru was heard talking ,When my father said he saw an increase of around 4 degrees Celsius in temperature in 60 years I never felt like asking what were the negative effects.

Suddenly **Aksaichin** next to her said now in last 3 years we have seen an increase of 1.5 degrees Celsius of heat, is it because of cell towers band width. Dinesh said research is lacking in that direction before we conclude any thing.

Then **Kurimoto** the Pet doctor said, I put a thin layer of say a mixture of the tree saplings above some houses and gardens are we not feeling that we are getting less oxygen.

Dinesh said you can directly say that when covered even with a very thin glass paper, you feel affected in your tent.

He means if the light and sound waves are like that of a small blanket they can reduce the oxygen circulation, water percolation and heat up inside with small or no rains.

Joru said that is exactly what we are feeling since last several years when the net work connectivity has increased.

DISCIPLINE THREE

DISCIPLINE THREE SEGMENT ONE

HYDERABAD AUGUST 2025 RAINS

It is Hyderabad, it is August 22 nd 2025. There was a 20 cm rain in 36 hours and no respite. Looking from sky one has a feeling that all houses are in a big pond.

They all assembled and were looking at each others face.

It is clear they are waiting some one to start and tell them how to flush out the flood discharges.

How best to pump them out, and what are low lying areas that can take water away from the main city which has expanded beyond any expectations.

They were looking at the options for pumps and inter connecting the pump delivery by creating a manifold to keep the exit water at below a velocity of 1 m or 3 ft.

The hydrology experts have arrived and the discussion is on.

David is a mechanical engineer with knowledge of Hydraulics and water, Neeraj is Public health expert. Sanjana is water engineer, including its treatments, storage and usage.

When they were looking at the geographical map of Hyderabad, its rain gauge stations, and catchment area and contour maps of the area.

The Iron Production plant owner intervened and said I am getting very hot water in to my ponds. Water is very precious to us and cool water is needed for our lime stone for blast furnace.

He continued we also need cool water for our cooling towers.

Some one from audience said his cooling towers are small, while our towers at power plant are very big.

We will list out in detail one of the basic necessity of human life, that is water its use, and its storage, treatment and supply for industries agriculture, and drinking said **Sanjana** the water expert.

The Expert started explaining we are pumping out water from rivers by use of pumps.

The Depth below pump level is called the suction head, while the height above the pump level or the place to where the water is pumped is called delivery head.

The suction head has certain participles of gravity and hence it shall be below 9.84 Meters or 32 ft approximately.

By providing multiple pumps and impellers in series we can increase the quantum of height of pumping, for which specific pumps are available in the world markets including in India.

In Irrigation and drinking water works so we follow the hydraulic and fluid mechanic principles.

Water is called some times as fluid or liquid and its characters in flow are called hydraulics.

Turbines which we are using for aeroplane jets, as well for electricity production are also used here for lifting water.

Generally we try to connect number of pumps with a single delivery pipe to economize the costs and to reduce the exit velocity of water at out let. This system of connection is called manifold. The sizes are determined based on the internal velocity of water. We need to avoid turbulence and formation of eddies inside the pipe. We can not have air relief valves in these lines as water is let out at high velocity more than one meter per second.

The iron man said what ever speed of water we are getting at our pond is so high our pond entrance is getting eroded.

The second person on Dias is **David** who looks to be the boss of Sanjana and Neeraj who are lecturing, looked at the iron plant owner and said.

We have told you that we are making lined canals so that we can have a more speed of water to your plant to meet your demand.

We have told to construct a small pond before the entrance to reduce the inlet velocity, and also provide lining to your pond.

But these are to be adhered by all.

That is resulting not only in scouring of your entrance channel, but also lot of water is creeping in to ground. You can see certain foundations are already wet needing a Dmap proof course to avoid deterioration.

The Hydrologist Sanjana looked at his boss and continued.

The study of the above subjects was vastly undertaken in 19th Century.

India was the major source of research in Irrigation. Kennedy, Lacey & Khosla have done extensive research in Punjab on alluvial soils.

The upper and lower catchment areas, which receive the run off, are called the river basins.

Run off depends on duration and intensity of storm, slope of basin, the upper soils which account for precipitation and bottom rock (pervious or impervious) which contributes for ground water stability.

India is typically a monsoon country where the major source of rain is between June to Oct. occurring from southwest monsoon.

The eastern parts receive water from Oct. to Jan. in Southeast monsoon.

Civilizations have existed all along river valleys as perennial source of water for all needs were available.

Rains gauges are established all along the catchment areas and actual daily and yearly statements are obtained for at least 20 years. Now a days we have 50 years records every where.

In a cycle of 8 years gauging on rivers were conducted to establish dependable rainfall and run off.

The flatter the slope of basin the discharge from the river is slow and dependable.

In such a case construction of a dam or a weir is economical for storage of water and diverting water along contours and uses it by gravitational channels as flow irrigation.

The design of hydraulic structures is through Bernoulli's equation.

We have also used the quantum theory that quantity of flowing water at any place shall be constant.

Discharge quantity divided by the silt factor of the soils from a predictable table is used for estimating scour depth.

That quantity under triple root is the scour depth.

This is used to estimate the foundations depth at the river banks.

More reasonable is the availability of bore logs and the quantity of rock and its depth.

While I lecture you about the systems followed during last 150 years and still are in practice about 90% of places in the world.

I also tell you the most modern systems which we are following.

He continued, the crop water requirement depends on soil and for rice around 60" of water in 120 to 150 days is required.

Now a days we use only alternate drying and wetting techniques. This reduces the water requirements by around 25%.

Of this "the amount of rain fall of [75% actual worked out quantity is called the dependable rain fall] 30 to 35" is deducted and remaining amount of water is supplied starting from seedling time, transplant time to harvesting time.

Sanjana continued over and above the yearly averages of rainfall over a stretch of city means a problem for drainage at least for some days.

The immediate measures normally to meet normal monsoon are using contour drains, avoid over flows by estimating both the hourly rainfall and the duration needs for drainage.

Providing wells with under ground drainage and connecting them by using an upper layer drain is best suited when contours does not match.

But it is important to have a sophisticated recording system of water from rains, and system of roads, as well internal drainage connected with video or photographic medium to guide the city citizens to help in their routine work, and keep them safe.

Sanjana looked tired after her long talk with each one of the persons available on the floor of the house.

Drainage of the ayacut for which water is supplied is most important. The drains have to cater for flow of excess water from crop roots and for any storm water in the ayacut area during the period of crop.

Also roads for movement of tractors during sowing time and harvesting time are very important network to be created.

David threw his wait and said, any flow or lift irrigation contemplated shall also cater to the drinking water needs of the villagers in the ayacut area, proper storage, treatment (by clarififloculators and gravity filters) and mixing of proper chlorination to avoid bacteria and finally pumping to over head tanks for supply to house hold needs through gravity are important.

The designs are based on (a) requirements for crops (b) the requirements for human consumption including future population (c) to meet for recreation parks for the beneficiaries.

The requirements of upper catchment and lower riparian rights are to be properly balanced while contemplating any new project.

Only 75% of dependable rain fall shall be taken for projects in upper reaches while in lower reaches, excess water storage dams can be constructed.

Type designs for layout of pump houses for centrifugal and Turbine pumps and design of pumps are to be worked out using standard formula.

The design of intake wells and supply pipes are checked for hoop stress (PD/T).

The required water hammer devices such as non return valve, Air relief valve, pressure relief valve, sluice valve, Gate valve, foot valve (most of them are diaphragm valves) etc., are to be met in the line for safety.

The pipes can be with internal cement lining or RCC Hume pipes depending on pressure they have to with stand.

Suitable, relays, load centers, Transformers, manifolds etc., are to be designed and installed.

The necessary flow diagram for the fluid with the required ROW and other contour maps are to be arrived at.

The requirements of water for human civilization are indispensable.

The governments have to rationalize the supply and collect user charges for this if their tax systems are not properly made.

The private agencies do filter and bottling for human drinking and cooking.

The soils and water absorb all human excreta, and even human Skeleton. Still the soils yields food grain, and the rivers carry water for living.

It is good to have the knowledge about water and its purification for human drinking and industries.

The need is to plan about preserving rain water, storage, and supply. Hence the need to rationalize the city water supply

.In the beginning of creation there was water only on the earth Water is said to be our life.

It is indispensable for plants and animals also.

It is an essential to maintain life line of agriculture and industries.

Water is as important as air.

Water is tremendously obtained on the earth surface in sea, river, lake, and pond.

Underneath the earth surface it is in the well. Spring water comes out from the earth.

Earth's crust contains porous and non-porous rocks.

The porous stratum percolates Water and non-porous strata hold the water underneath the ground. It is better to develop suitable ponds to store excess runoff of water.

Water is found in the form of ice on the mountains, in the form of clouds in the sky.

Rain fall replenishes water.

It is obtained by the chemical combination of hydrogen and oxygen.

Califluculater is a circular settlement chamber, where water is drawn to sedimentary tanks from the bottom and all vegetable matter is removed on top with a scrapper.

The bottom sledge is drained from the bottom most point.

A manifold is used to connect the water form number of pumps to a pressure main. The pressure of water in the manifold which connects number of pumps is 3 to 4 Kg. Cm². Pre-stressed concrete pipes or steel pipes with cement lining inside and tar felt coating out side are used to covey water, up to to a ridge, or a storage reservoir.

For irrigation this water is led into branch channels and field channels.

Conclusively by today evening things will be better, said David.

Yesterday was really horrifying with several places receiving 25 cm of water in 24 hours and water going up to 10 feet in many colonies.

Mr. Neeraj my friend is a public health specialist he will tell you the cautionary approaches, but mean while, for flows through pipes in house connections and water supply the discharge can be computed using formula. This is essential to meet the drainage requirements.

$$Q = f l v^2 / 2gd$$

Where f is a friction coefficient based on pipe material

L is length of pipe

V is velocity of water in pipe less than 1 kg/cm²

G is gravitational force

D is dial of pipe

Impurities in water and other issues will be spoken by Sanjana and Neeraj.

Neeraj said while I will talk to you on public health please take care of,

1. Suspended impurities. Mud, sand, vegetable matter, sewage, trade waste and bacteria.
2. Dissolved impurities. Compounds (bicarbonates, sulphates, chlorides and nitrates of calcium, sodium, and magnesium, iron and
- 3 Manganese compounds, silica alumina, sewage and various trade wastes, and gases-oxygen, carbon
4. Carbon dioxide, Hydrogen sulphide and nitrogen. Rain becomes saturated as it falls.

Neeraj said around 1.1 billion people globally do not have access to improved wa-ter supply sources whereas 2.4 billion people do not have access to any type of improved sanitation facility. About 2 million people die every year due to diarrhoeal diseases, most of them are children less than 5 years of age. The most affected are the populations in developing countries, living in extreme conditions of poverty, normally peri-urban dwellers or rural inhabitants.

He continued,among the main problems which are responsible for this situation are: lack of priority given to the sector, lack of financial resources, lack of sustainability of water supply and sanitation services, poor hygiene be-haviours, and inadequate sanitation in public places including hospitals, health centers and schools.

Providing access to sufficient quantities of safe water, the provision of facilities for a sanitary disposal of excreta, and introducing sound hygiene behaviors are of capital importance to reduce the burden of disease caused by these risk factors.

Domain knowledge is very important!!!There was a family with one kid. One day the mother was out and dad was in charge of the kid who just turned three.Someone had given the kid a little 'tea set' as a birthday gift and it was one of his favorite toys.

Dad was in the living room engrossed in the evening news when kid brought dad a little cup of 'tea', which was just water.

After several cups of tea and lots of praise for such yummy tea from father, kid's mom came home.Dad made her wait in the living room to watch the kid bring him a cup of tea, because it was 'just the cutest thing!!'Mom waited, and sure enough, the kid comes down the hall with a cup of tea for daddy and she watches him drink it up, then she says to him, 'Did it ever occur to you that the only place that baby can reach to get water is the toilet?'.Mother knows.

Domain knowledge is very important!!! Else your supplier will trick you.

There is no doubt in the human physiological conditions, call it anthropology, or the psychology, it is the touch with which the warmth in the body increases.

Maturity as defined by puberty may be for the women, and adolescence as defined as maturity is for the men.

It was after a gap of almost five years I saw her, it was a unique figure, an Italian, could be an Arab.

She had one accomplice always, as do I keep with me one company always where ever I go.

The difference is she lives in middle east and have one from the region, she could be either from Cairo, or Kartoom, which ever she has well-built physique and beautiful body and shrewd eyes, sufficient to protect Mary, my best lady friend across, Africa, and Middle east.

She is here that is what every one felt.

Many do not know who she is or who she can be.

It is **Marino Jordana** the athletic, public health specialist.

She has a composition of degrees which leads to say that she is an Engineering medical technocrat.

She is a **public health specialist**. **David** said after we finish our works in our new project we can call **Marino Jordana to India**, they concluded and left.

At the Diamond Islands General Frank was thinking one of the true stories of an Engineer.

William E. Potter's was a specialist manager with extra-ordinary engineering skills. He was a professional success in both military and civilian life

Joined as a cadet in 1928 at West Point, later graduated, he was with a survey team. Management assignment responsibilities were in the Pittsburgh Engineer District, where he was assigned in 1933. He worked in slushy silt mud and water in Montgomery Dam on the Ohio River and completed it. Then became a project engineer in the construction of Tygart Dam in West Virginia, o managed people and materials in order to ensure the successful completion of the project.

After the Second World War 2, Potter became Kansas City District Engineer and then the Alaska District Engineer.

In 1949, he became the Chief of Engineers and in 1952, Potter became Division Engineer of the Missouri River Division. He looked after

construction of several dams on the Missouri. In 1956, he was appointed Governor of the Panama Canal Zone.

For four years, Potter oversaw the administration of the Zone as well as the maintenance and operation of the Canal itself.

Major General Potter retired from the Army in 1960. At this time he started another career.

From 1960 to 1965, he was executive vice-president of the New York World's Fair. In 1965, he joined Walt Disney Productions, eventually becoming senior vice-president of Walt Disney World Company. He established Walt Disney World in Orlando, Florida. Potter's multi-faceted career illustrates skills of the engineer for military and civilian works.

It is India which has more than 5 to 6 crore construction workers who are literally the builders of modern India. In peak construction season there were more than 10% population in to agriculture and so in to the construction.

Finally when he talked with satya over a conference call, he said we will store the rain waters in all the five or six Islands.

Some times we may convert the Ice to water and use it for drinking as well for irrigation on two of Islands to cater for food for all the Inhabitants of around 15000 populations in all.

Pumps water treatment, storage and use for irrigation are part of our lives.

There will also be an animal park or to say a Zoo.

It will come up in 2 hectares of Land, in the Island it is meant. A ship HMS Ulisyis is on way with all the implements and Animals in pairs based on sex.

DISCIPLINE THREE
SEGMENT TWO
Earth-Planets
Chang Expert of Earth quakes
and
Tsunami

Chang from china Institute of Earth quake engineering was in a session with the Tsunami Expert Gelli Stephen, Ram Naik a Volcano expert from Island nations was with them.

The reports about Global warming and its climate effects have no relevance in this private wealth management.

Melting of ice sheets at Antarctica and some extent at Arctic has made changes to the wobbling of earth at its axis.

Some one was heard saying the distance of sun and earth is 14960Million Kilometers.Earth travels around 940 million kilometers in a year around sun.

The computation of gravity and the Euler and Laplace theories about space could change with the introduction of Sun induced solar winds and quantized order in position and velocity of solar system planets.These theories were advanced by the LIGO group.

This is amazing.This was what the Hindu astrology says one way or other that all planets contribute for each one in position and that the 27-28 star assemblies, or constellations in turn control the present universe.

This is their 5 day in session.There is no Agenda.

A powerful earth quake swept many important industrial areas of China over last 2 months.

The P waves caused huge losses.

The resulting L waves left little or no space for work.

Few men died,but the buildings in-spite of having a earth quake resistant modern roller systems have lost their productive organic material to the nature furry.

The net result is no one can go the factories, Ar [Argon] and Methane gases emission have increased to the very peak .

The fear of resultant acid rain did not happen,it rained heavily.

The night looked like day.

There was entrapped light in sky waves.

Even in dark clouds and in high intensity rain it looked as if it is day.

People feared for life.

Not sure if it is more dangerous than the **nuclear fuel leakages**.

There was no food, or the food was contaminated.

The ways to clean and use food as many experts were telling was to **use salt water, and pour very small iodine** in huge quantity of water and wash it second time.

The population effected in a long belt were more than about 25 crores, or 250 million.

The Islanders near main land of China started fearing about the Methane Clouds.

The Nitrogen and Carbon dioxide are also in clouds in abnormal quantities.

The team thought we need expert advice on Earth quakes Tsunami and how the earth planets and Moon move and affect the cycles on Earh.

They informed that they need an expert in to the matters.

The Islanders of Oceania and Antarctica had retained the Chang, Naik, and Gellie for advice.

One person from NASA earth laboratories and another expert on sun and implications and an Hindu astrologer who volunteered was sent to the site in a week time.

The discussions were cantered on the fallowing subjects.

We are currently over nine years into Cycle 26 of sun spot.

Just as earth has cycles which we call seasons, the sun's energy output also changes on a roughly 11-year basis.

We call these changes the solar cycle.

But now it appears that 2025 will be peak in the sun's energy.

The solar expert has in mind which is on the screen continuously.

The reading of mind is going on.

During the last solar maximum and minimum, there were few magnetic storms on the sun, sunspots were rare, and geomagnetic disturbances here on earth were nearly nonexistent.

Aurora watchers had to travel to the Polar Regions to see the Northern Lights. However, change is here.

We are now in solar maximum in this year 2025.

This sunspot had a reversed polarity magnetic field.

The solar energetic particles strike the Earth with such force that it ionizes the atmosphere, creating a vast cloud of energetic electrons that bounce around inside the atmosphere destroying electronics and fusing conductive wires everywhere. This makes us to go for higher spectrum use and more energy consumption in communications.

It would probably take out a few satellites in Earth orbit, too.

The Hindu Astrologer started telling the Planets and the star constellations are interconnected keeping each in tandem rotation like a driving wheel, controlled in a inter-woven system.

The central control is never thought to be the Sun.

Because the philosophy says that if one sun goes the other sun takes over.

In that period the changes will be transitional and will not kill the organisms on the planets.

Each of the planets mentioned is interdependent on the constellation of stars shown below, they play their role for the periods shown below.

Ketu-7 years, representing star constellations of Ashwani, Magha, Mula

Venus,- 20 years-do- Bharani, Purva Phalguni[Uttara], Uttara ashada

Sun- 6 years =do-Krittika, Uttara Phalguni[Uttara]Uttarashada

Moon- 10 years-do- Rohini, Hasta, Shravana

Mars -7 years-do- Mrarisa, Chitra, Dhanista

Rahu -18 years-do- Arudra, swathi, sathabisham

Jupiter -16 years-do- Punarvasu, Visakha, Purvabhadra

Satrun -19 years-do- Pushyami, Anuradha, Uttara Bhadra

Mercury -17 years-do- Aslesha, Jesta, Revathi

The effect of these planets is powerful as they traverse in the sky with the driving force of each of the constellation of stars mentioned above.

Their gravity, their orbit and their movent in different planes and yet around the burning sun planet is dependent on the stars mentioned above.

It is a general happening that Earth is nowhere a fixed shape sphere. It has variations based on its proximity to other planets and so the stars.

Thus the oceans, seas have changes based on the rotation of moon around earth in 59.5 years cycle.

Chang was incharge of the discussions on earth.

Coastal areas form an integrated and essential component of the Earth's ecosystem and are critical to sustainable development.

They cover more than two-thirds of the earth's surface and contain 97% of the planet's water. Oceans contribute to poverty eradication by creating sustainable livelihoods and decent work.

Over three billion people depend on marine and coastal resources for their livelihoods.

In addition, oceans are crucial for global food security and human health. Let us also not forget that Earth has come out of Ice age and heading to hot age slowly in its turn of events.

They are also the primary regulator of the global climate, an important sink for greenhouse gases and they provide us with water and the oxygen we breathe.

Finally, oceans host huge reservoirs of biodiversity. Oceans, seas and marine resources are increasingly threatened, degraded or destroyed by human activities, reducing their ability to provide crucial ecosystem services.

Gallie has his ideas on Tsunami and coastal areas.

Important classes of threats are, among others, climate change, marine pollution, unsustainable extraction of marine resources and physical alterations and destruction of marine and coastal habitats and landscapes..

Satya started the work on his development of new urban systems for all, he has his responsibilities on all aspects of development for the Diamond Islands.

His first step is to get the population count.

He needs the population age group

The schools in relation to residence and their fee structure, some costly schools are in slum locations.

He has to know the work places and commuting systems.

He asked a well drawn Google map showing zonal wise statistics as measured in the UID recently.

That has given the spatial occupancy, education employment and transport systems.

What he also needs is the hospitals, bus stands and the buses that fly from different places.

He started his arguments and logic. He is remotely connected it is interactive discussion.

Chang who had NASA scientist with him continued to assess his general understanding.

Inside the Earth, The Earth's interior is composed of four layers, three solid and one liquid—not magma but molten metal, nearly as hot as the surface of the sun.

The deepest layer is a solid iron ball, about 1,500 miles (2,400 kilometers) in diameter. Although this inner core is white hot, the pressure is so high the iron cannot melt.

Above the inner core is the outer core, a shell of liquid iron.

This layer is cooler but still very hot, perhaps 7,200 to 9,000 degrees Fahrenheit (4,000 to 5,000 degrees Celsius). It too is composed mostly of iron, plus substantial amounts of sulfur and nickel.

Chang continued, The crust is the outermost layer of the Earth.

It is the familiar landscape on which we live that is rocks, soil, and seabed.

It ranges from about 5 miles (eight kilometers) thick beneath the oceans to an average of 25 miles (40 kilometers) thick beneath the continents.

Currents within the mantle have broken the crust into blocks, called plates, which slowly move around, colliding to build mountains or rift-ing apart to form new seafloor.

There are seven big Tectonic plates [A]Indo-Australia [B]pacific[C]Africa [D]Euro Asia[E]South American [F]North American[G]Antarctic plates apart from smaller other plates.

These plates move in different directions with different speeds .This could be because of Carioles' force or the trade winds.

Most Earth Quakes in the world occur along the boundaries of tectonic plates and are called as inter plate boundaries.

Continents are composed of relatively light blocks that float high on the mantle, like gigantic, slow-moving icebergs.

Seafloor is made of a denser rock called basalt, which presses deeper into the mantle, producing basins that can fill with water.

The Republic day Earth quake of, 26 January 2001 in Gujarat has demonstrated the Earth quake Vulnerability profile of India.

Stephen Gellie started telling his experiences with Indian Ocean areas.

The greatest damages were due to the 2004 Indian Ocean earthquake which was an undersea mega thrust earthquake that occurred at 00:58:53 UTC on Sunday, 26 December 2004, with an epicenter off the west coast of Sumatra, Indonesia.

The quake itself is known by the scientific community as the Sumatra–Andaman earthquake.

The resulting tsunami is given various names, including the 2004 Indian Ocean tsunami, South Asian tsunami, Indonesian tsunami, and Boxing Day tsunami.

Indonesia lies between the **Pacific Ring of Fire** along the north-eastern islands adjacent to and including New Guinea and the Alpide belt along the south and west from Sumatra, Java, Bali, Flores, and Timor.

Great earthquakes such as the Sumatra-Andaman event, which are in-variably associated with mega thrust events in subduction zones, have seismic moment.

The earthquake was caused by subduction and triggered a series of devastating tsunamis along the coasts of most landmasses bordering the Indian Ocean, killing over 230,000 people in fourteen countries, and inundating coastal communities with waves up to 30 meters (98 ft) high.

It was one of the deadliest natural disasters in recorded history. Indonesia was the hardest-hit country, followed by Sri Lanka, India, and Thailand.

With a magnitude of Mw 9.1–9.3, it is the third largest earthquake ever recorded on a seismograph.

The earthquake had the longest duration of faulting ever observed, between 8.3 and 10 minutes.

Older tsunami events were identified, dated to AD 1290–1400 in Sumatra and AD1300–1450 in Thailand, and could be the last big forerunner of the 2004 tsunami.

It could be actually date to the construction of Temples in south India, and Thailand, and other effected countries.

That was when the old Ports of Paradeep, Bheemilipatnam, Machilipatnam, Mahabaleswaram and even Alexandria and other ports destruction happened.

But on an island just off the coast of Aceh most people safely fled to higher ground in 2004 because the island's oral history includes information about a devastating tsunami in 1907.

The massive wave, at 500 miles an hour speed can strike with in 15 minutes and can cause havoc for 5 million people living along the coast line.

The NASA and European scientists started saying about sky.

The Galaxy is a disk-shaped structure and Earth is located within the Galactic plane of this disk, around two thirds of the way out from the center, on the inner edge of a spiral-shaped concentration of gas and dust called the Orion–Cygnus Arm.

The sun and the planets move as a whole in the galaxy, as a unity, along with their fixed stars.

The center of the Galaxy lies in the direction of the constellation Sagittarius; it is here that the Milky Way is brightest.

From Sagittarius, the hazy band of white light appears to pass westward through the constellations of Scorpius.

The fact that the band divides the night sky into two roughly equal hemispheres indicates that the Solar System lies close to the Galactic plane.

The Galactic plane is inclined by about 60 degrees to the ecliptic (the plane of the Earth's orbit).

Stephen Gellie said in the meeting, do not underestimate the nature, as many issues need more understanding, we are living on a planet.

The biology of this planet it self is such that it is supporting the lives of humans, and many such organic matter which no other planet can offer.

That is why the Earth is a living planet.

For large-scale motions, the force due to the pressure gradient tends to balance the Coriolis force – this is called geostrophy.

A consequence is that currents tend to flow along isobars, rather than across them; in the

Northern hemisphere, a geostrophic current flows with high pressure on its right.

Another consequence of the Coriolis effect is that the stress exerted by the wind on the surface of the sea does not set up a downwind current, the current at the surface flows at an angle to the wind, and the transport in the surface boundary layer, called the Ekman layer, is to the right of the wind in the northern hemisphere.

For statistical purposes, we have earth diameter at equator is 12,756.8 kilometers.

Tides are caused by the gravitational pull of the moon and sun on the water which covers the Earth.

Because the positions of all three bodies can be easily projected, scientists can predict the tidal patterns for an area and create a tide chart.

A tide chart also takes the topography and history of the region into account, and is a very specific document designed to be used in a small area.

Generally, there are four tides a day: two high tides, and two low tides. The variation in height between the tides depends on location, season, and

astronomical phenomena. Sometimes the variation is only a few feet, while on other occasions it has been recorded to be as much as 50 feet (15 meters).

In most cases, a tide chart will also include a graph to help readers visualize the differences between the tides.

Usually, a tide chart will be published for a general region with a list of corrections for specific areas in the front.

For example, you may need to add or subtract minutes to the time to get an accurate estimate of when a high or low tide is going occur.

In addition, there may be variances in height, which are also listed in the regional corrections.

When reading a tide chart for a region, first check to see if you need to make corrections, and then open it to the relevant day.

Make any adjustments needed for an accurate reading, and plan your day accordingly.

The daily tides have two high tides and two low tides. The fortnightly tides increase or decrease occurs depending on season.

How ever the full moon days or immediately after offers high tide.

The tides occurring in December reflects the movement of water from northern hemi sphere to southern hami-spheare. That is due to the effect of sun's gravity effects on each region of earth based on its rotation, round the sun as well around it self.

Moon moves around the Sun with the Earth, the Sun moves the same one degree per day in the lunar sky as it does during the Earth's rotation.

But while the Earth rotates in about one day, the Moon takes more than 27 days to rotate, so during one lunar rotation, the Sun moves over 27 degrees, relative to the stars.

To make up for this, the Moon has to rotate more than two days longer, as can be seen by comparing its rotation period to its day length. The 2.2 day difference between the periods seems extreme, but the basic idea is the same as for the Earth.

The moon does not orbit the center of the earth, rather, they both revolve around the center of their masses called the barycenter.

The moon also changes the position of the earth's equinoxes.

The sun and moon each attract the earth's equatorial bulge, trying to bring it into alignment with them.

This torque is counteracted by the rotation of the earth.

The combination of these two forces is a slow rotation of the earth's axis,

which in turn results in a slow westward rotation of the equinoxes.

Because of the seasonal changes in the ice, snow, atmospheric distribution, and perhaps because of movements in the material within the earth, the geographic poles constantly change position in relation to the earth's surface.

This phenomenon is known as the Chandler wobble.

The sun and moon, because of their varying distances and directions in relation to the earth, constantly vary their gravitational attractions on the earth.

This makes the poles wander irregularly by about + or - 9 arc seconds from its average, or mean, position.

This phenomenon is known as nutation and has a period of about 18.6 years.

The primary component of this is from the moon and is known as lunar nutation.

The sun and moon also constantly change the earth's rate of spin.

Twice a year, the Sun crosses the equator, on or about March 20 at a point called the Vernal Equinox, and on September 23 at the Autumnal Equinox (the terms derived from a northern hemisphere perspective).

DISCIPLINE THREE
SEGMENT THREE
Finance and Currency

Business and Finances

There were Bankers, Vault managers, Financial experts along with the Managing directors of Insurance companies across Asia and Australia.

They have seen the last decade happenings which were worse than the 9/11 happenings of USA, where in two world trade centers were blown out.

The experts from all over world took more than a decade to say that the steel embedded with concrete building cannot melt or get blown out instantly as was claimed by the then USA government and the supervising agencies.

Lockers are one item bankers are unable to reconcile with.

The lockers contained several documents including the properties, share certificates and some lockers contained rare notes of several governments and diamonds gold etc.

The persons have either died in accidents at a far away place or in disasters.

These properties could be in several important towns.

The valuables are never claimed. Under non performing assets banks have taken decree from the courts and want to auction them and claim the money as their profit.

Partly the private banks were successful. while the government banks have used the loot system to slowly personalize the belongings of others.

There are huge assets of people who lost family, and or dead in disasters like earth quakes.

The bank cannot claim ownership rights like a private locker company.

The locker is opened in the presence of government officials and a case of ownership of next of kin is awaited in the magisterial courts.

The pity of the citizens is they do not reconcile with the changes in legal systems world over and in their countries.

Who ever can prove as next of **kin** has to shell out 30 to 45% as **taxes** and will be a **legitimate** owner.

The owners' could have written a succession will and gave a copy to the kin and to the banks but **modern isolation's** have made such issues irrelevant.

It is same case with the companies also.

The companies have branches every where they never left a declaration that in the event of a calamity all ownership for materials and wealth shall lie with the company at head quarters.

The banks went on lending for high risk housing constructed in ponds, now the owners and the lenders are at risk.

The investors by **fixed deposits** are at risk of losing their monies as **banking laws** give them protection to a **fraction** of their investment.

The money is every where, the returns are easy, but the long term risks are equivalent to the pitfalls in lives of humans.

Oceania Islands, including Vanuatu, West Indies, Papa Newgunea and such Island places the rich have kept huge wealth of diamonds and gold in private lockers so as to use the treasure for future expansions and to be safe from **the vagaries** of rules changing with **regime changes** every 8 or 10 years.

These Vaults and **lockers changes owner** ship and are handled by different persons after few years.

The discussion on business, finance and insurance systems was still not started. People went to their rooms and said good bye.

But satya was not sleeping that night he is still connected remotely for the meeting from far away places.

How does the corrupt corporate leaders and hind sighted owners ever understand what earth is?

A fiction **novel of Engineer Jane** describes a hero by name **Marshal** he learns too late that his investigation of the Sandra Bullock house case has drawn the attention of a globalist super lawyer and his engineer-henchmen.

The 1st amendments, concerning about petitioning rights and the seventh amendment concerning the rights of Jury [it is now the SIT in India] were eroded in trail. The rights of each of the home owner is prejudiced by the organizations.

The **Mysterious Adventures of Marshal Yeager**, is to motivate the **fourth dimension which** engineers have to perform to be accountable in a society.

Written by Jane a Professional Engineer, is a book, it is a series of stories loosely based on actual cases that he and other forensic engineers have investigated.

June received his engineering degrees from the University of Texas at Austin in 1965 and 1966 and is licensed as a professional engineer in several states.

He specializes in structural, civil, and architectural engineering. His engagements during his 40-plus years of engineering practice include 8 years as CEO of an engineering/construction company, 22 years as CEO of an architectural engineering firm, and thousands of engineering design, inspection, and construction projects.

He has conducted forensic investigations nationwide in the public and private sectors. June is a member of several technical societies, has lectured on national security matters, and has authored several technical papers and seminars.

His reports are routinely used by attorneys in settlement discussions and at trial. When Satya told that story, that was a service to the society General Frank thought.

General Frank thought, the third person he loves is whom he never met but heard a lot. It is Diane France. She is a forensic expert who loves the bones. She makes the bones to tell her the story. Diane France can hear those secrets because she's a forensic anthropologist, a bone detective. She has the science skills and know-how to examine bones for clues to a mystery: Who was this person and how did he or she die? Bones tell Diane about the life and times of famous people in history, from a Russian royal family to American outlaws and war heroes.

They speak to her about murders, mass disasters, and fatal accidents. One day she's collecting skeletal evidence at a crime scene.

A phone call later she's jetting to the site of a plane crash or other unexpected tragedy to identify victims.

Young readers will be captivated by the thrilling real-life story of this small-town girl full of curiosity and mischief who became a world-famous bone detective.

Krishna was feeling about various habits world wide. It is inside parts of Ethiopia in Amhara region. People has seen highs and a low of life like the mountains in front of them. Drakensberg is the name for the mountains.

Well I had seen a practice of students and teachers coming to school in the morning hours, in Jijiga, Deddar, or other areas, but not in Addis Ababa, with a neem sort of stick in their mouth to clean their teeth.

This is a teeth brush.

I was insisting them to finish the same at their house, wash their face and come to school.

The other practice is to eat green leaves of a plant, which gives them a sort of marijuana kick after the Friday after noon prayers, they continue eating this till the night, along with high sugar fluids, and coffee.

This is called as Chat in Amharic Language.

They have a very good tradition of washing their legs, feet, and hands before they enter house for food or sleep.

Thus the bacteria can be avoided while using hands for eating of food.

Since you said art I mentioned how the daily life adds to use of very much the science we adore, but practiced when we were young, without knowing that it is science.

At young age I know many things as art, which now I can reason as science.

Well in the villages where ever he went has never taken water directly from flowing water.

Rather a nearby small well was dug and water was taken from it.

In nature a small pie is available which makes water clean, the water after that is filtered with cloth.

Now in advance methods we are advocating, boiling water, adding chlorine up to break point, and aeration to remove residue pathogens.

The bankers and insurance persons at the Island were thinking what sort of currency they can use based on the fact that nine months in a year there will be snow. Currency needs to be protected from water and it smells when left to the vaults.

They have to use regular banking systems. But this place is highly charge with diamonds from sea and ice, which are called seagull.

In such cases the systems such as BITCOIN will try to walk in has a bad reputation, but they need some to replicate that.

The decentralized digital cryptocurrency, powered by a vast computer network, is notorious for the wild fluctuations in its value, the zeal of its supporters and its degenerate uses, such as extortion, buying drugs and hiring hitmen in the online bazaars of the “dark net”.

This is unfair. The value of a bitcoin has been pretty stable, at around \$250, for most of this year.

This innovation carries a significance stretching far beyond cryptocurrency.

The trust machine is here people are using this as an alternative to currency and finance models. This helps for better transfer of immigrants' funds. Joint research center of European Commission and UNDP are looking at developing a model.

The block-chain is an even more potent technology.

What we need is central value of the diamonds one owns, and transfer such to main land for sales.

The credit in each one ledger is to be confirmed after they are sold to the merchants.

Another banker said instead we create a bank, we lend to a diamond marketing company the monies which it can credit on valuing the owned resource of the persons.

Third banker said we may lose the resources and merchants still want us to lend for their business, even at that time we are at risk.

Each one agreed that the bank has to keep multiple ledgers to reach the other end of chain.

The World Bank estimates that the crowd-funding market is expected to grow to US \$100 billion by 2025.

From providing a more effective vehicle for investing diaspora funds, to leveraging start up capital for small businesses in the developing world Crowd-funding is revolutionizing development and policy-making.

With an estimated that by 2025 at least 355 million immigrants will be living abroad sending back over 1000 billion to their home countries, how about a better system of Financing, to help reduce overhead costs of transferring remittances?.

DISCIPLINE THREE SEGMENT FIVE The Islands and the Equipment

The Site team consisted of Stuwert who is the Agency Head and General Frank is the Administrator from the Government. The Architect is Samuel and is the consultant who prepares working drawings, bill of quantities or schedules, and the specification.

The contractor is represented by its Managers for Logistics and Material Handling by **Stuwert** and others who are **Engineer SanthaKumar**, Engineer Raymond and **Engineer Murray** with their supporting team, responsible for specifications, drawings and quantities and Execution of works.

The team Headed by Satya will be consultants for project, and it is where **Commander Bhandari** is responsible for off shore works.

There are also Small Modular Reactors and mini 500 Megawatt RTG to produce energy required for the township planned to accommodating 5000 people in each of the 3 Islands.

The Organization has to make the place for workers Colony, batching plant, raw materials storage etc., Also suitable cement go down, stores, medical facilities as needed are needed to be established. A 'pert' or 'CPM' some times a bar chart or for complicated projects Primavera will held to assess the monthly performance on all fronts.

The construction site has been made have to facilitate for the following items, either in whole or some parts.

The Project Manager's Office is Equipped with data voice systems called Telephone, Internet, and have at least a dozen local band walkie – Talkies. The rooms are stuffed with charts of staff, cash flow, and machinery etc has been made very elegantly.

Conference Room is a master piece work showing the main activities schedule, their monthly/weekly progress. Preferably an audio system and seating arrangements and a Nova-pan board for conducting seminars etc., Charts showing the safety requirements and mandatory ethics, to incorporate an idea of team togetherness.

A Laboratory, comprising of testing machines, devices for screening of materials, Cube moulds, slump cone, weights and measures is fully

furnished. Moisture evaluation apparatus etc., as required have been procured. X ray machines, Gamma ray storage areas, and some more metal testing equipment are added.

There are highways and aircraft landing towing and repairing hangers are to be done. Hence compaction testing apparatus, abrasion, and testing of bitumen flash point are also installed. P.H. value of water testing meters, moisture in aggregate, sand moisture measurement ovens and weights are also installed. Silt in sand measurement in lab for adjustment of water at site on day to day basis is possible. Cement strength checking apparatus etc., are also installed.

A detailed list of tools and their store room for tools and tackles of workmen, including safety devices is made. A consumable stores, a cement Go-down of suitable storage capacity depending on project with false flooring made of wooden planks, so that moisture do not creep is also made.

A first aid kit and a supervisor to monitor it and give first aid and give weekly supervision and lectures on 'safety first' are also required.

Batching plant area, with a batching plant of various capacity, water tank for curing and concreting are also required.

Crusher is not proposed here but fines crushing is proposed and erected behind a Geo membrane curtains so that fines do not flood nearby area.

Suitable workers colony is made which has partitions for skilled, semi skilled and un-skilled and for male and female workers the dormitory is well equipped and well built. Water treatment and storage plants and water heaters installed in pipelines and tanks taking the cue from the Canadian and Russian Engineers

Equipment for land leveling and compaction such as .Bull dozers which has the reverse gear speed is in a few numbers have been dispatched to all the three islands.

Graders of various sizes, Road Rollers , Sheep foot roller drum , Hydraulic excavators, Batching Plants: 100M³, 50M³, 30M³ capacity with cement storage silos are made available. Vibrators various types such as platform vibrators, surface finishing vibrators or trowels and vacuum evaporating pumps are being brought. Pavement Breakers and diamond tool cutting machines are in the ship.

Small tools such as, Spirit level , Plum bob, tape etc are imported sufficient numbers to cater all needs.

Bar coating equipment where required. Survey equipment

Theodolite, Total station, The survey team is a sophisticated team and is lead by an expert from Germany. Auto level Safety appliances such as hand gloves for bar benders, welder, Safety shoes for all workers, Safety belts for all working above heights, Welding glasses and cutting glasses, Protection with hassen wet cloth for all DA cylinders.

Raymond team has all the Engineers to look after such they are from Australia and Newzeland.

Dress shall be neat, tidy and no loose frills. Helmets for all workers where work is going on above ground.

Protection for all over head cables and underground cables from crawlers, cranes etc are ensured.

The certificate of RTA for using cranes, after checking their belts, Chains, drums, winch capacity, life of crane etc. have been given at the county of origin.

All engines for emissions and pollution check all belts, chains for mixer machines and provide guards so that accidents do not happen, have been obtained from the Japanese and Australasian sources.

All Greasing & checking of the drums, checking below the wheels, keeping the rear view mirrors, and driveing below the specified speed is done as per the manufacturers' specifications at Australia and Newzealand for all the vehicles.

Precaution are instructed to provide protection guard before lifting long pre-cast items and provide for them more than two slings to avoid accidents, also provide guide/control rope at one end.

All steel structures on erection shall be bolted properly and secured in position with Guy ropes.

DISCIPLINE THREE

SEGMENT SIX

Training

Santhakumar said to Architect Samuel we may need to list out the way to finish the houses.

We find lots of our citizen workers are from Earth quake hit areas. Some of them are also disaster stricken areas. Many of these disasters happened are around 2004 on wards. That means they are young and proactive.

They are fast and and imaginative in their works.

Samuel said we made the specifications in a most modern way.

Use as many machines you are getting as possible.

Train all engineers and technicians to use multiple machines.

Kitchens, Bed Rooms and all other internal flooring is well specified.

Normally the finishing works which include a) Plastering b) Flooring c) Painting d) Plumbing e) Timber works eats 50% time and loss of money by way of improper workers doing bad workmanship.

Hence, training of the workers and making a model block ready at the 1st instance shall be the practice.

Stuvert was waiting with some men on the road way.

He was talking to General Frank.

Who is he asked Architect Samuel.

Santhakumar the Engineer replied, he is a multi agency man supplying all equipment logistics.

He takes care of transportation.

He is active with many senators and NGO.

Where the NGO cannot come, they hand over papers of authorization to him. His boss is most powerful man in the medical field.

The other agency he represents is the Atomic energy.

Heat emitters/coolers are provided below silt of windows.

For Euro countries we need to maintain temperatures of a) Bed Room: 16 C to 18C, b) Living rooms – 21C to 25C

c) Kitchen: 18C Bath – 22 C. Force (Air) Draughts/Ventilation of 0.25m/Sec. will not be noticed at head level.

Jhon and his team has made the necessary document, maps and detailed drawings for laying highways.

The cable ducts and pipe line ducts are planned in such a way when there is ice they are heated to allow flow of water.

Even sanitary water ducts are to have internal heaters.

Suddenly a Team of Bankers cum Insurers came to the Island by an unknown Helicopter, using the south Easterly direction, and landed on south turf used for such helicopters.

One top looking guy asked, the persons next to him, I hope the whole town ship construction is not financed by the US government.

If no, then who is paying for all such.

The payments and arrangements are made from main land.

They paid for land registration of in parcels of one hectare for each community.

The Services for houses, the services for transportation such as Air port, sea port etc are paid by them. In fact all materials which we are engaging the workers for houses are also evaluated and paid by them.

We have discussions on insurance also for such and insured the lives and houses of such persons who are joining us.

Only the employees who work on single status are provided the housing by government.

Tourist lodges are financed by five star hotels.

The Insurance man opened his mouth, the official said we know what you want to say, nature god etc, but then you need not pay also because there will be none.

Do you forget the earth quakes of Italy in 2016 August, there were none to claim for the property loss in many areas?

It was a similar experience in the Nepal earth quake also.

But the insurance man said, India, adjoining countries, and so China, there continues to be claims.

It is not only individuals, but even companies.

Some one claim he has taken over the company when he recognizes that there is going to be an insurance claim.

Yes true, there the human development Index is around 50% and so these claims will be there for long time to come.

From the insurance agency another said, but you know their food their habits, their clothes they are of minimal cost.

Yes these are produced there and manufactured there hence less cost.

But when it comes to claim ,they put a parity with US or EU.

So be it,we have a system of Arbitration,and EU has Fedic rules,we can cope up.

That is it see what you have to see and be back in another hour.

We will go to another Island in westerly direction which is less than 5 KM away.

They all dispersed.

DISCIPLINE THREE SEGMENT SEVEN

Infrastructure

The Engineers are finding Standards for providing a fool proof highways in very bad soils has become a complicated issue. The team went on assessing the strength of soils.

The California Bearing Ratio, is used to test the load bearing capacity of the embankments for highways etc, was developed by The California State Highways Department. It is in essence a simple penetration test developed to evaluate the strength of road sub grades. Samuel has developed another team for highways, and developing fresh water lined reservoirs.

The CBR still remains the most generally accepted method of determining subgrade strength, and as such this information, along with information on traffic flows and traffic growth is used to design road pavements.

Natural soil moisture content, after drainage, is the correct moisture content for determining CBR values for highway design purposes because in the course of time natural soil moisture conditions will be re-established.

Good drainage is an essential part of road construction to allow the optimum strength/CBR to be obtained, and maintained, from the soil foundation, whether it be in-situ soil or imported fill.

It of course follows that the drainage must be kept operating efficiently during the life of the road to prevent the strength/CBR decreasing through weakening of the foundation by a rising water table.

The third team consisting of PORTS AND HARBOURS development is engaged by Samuel to develop most modern Jetty for the docking of passenger ships. A break water jetty for materials and another for fisheries with most modern handling facilities are planned.

To accommodate Ships to have cheap water transport, this is the oldest civilized form. A nautical mile in air for a plane is about 1.1 times horizontal distance or 1.1 miles. But in sea for a ship a nautical mile is about 1.2 times a mile because of waves.

The harbors shall be sufficiently deep to accommodate the draught weight (DWT) of loaded ships. Ships when empty are filled with water to keep them balanced.

When loads are placed the water from these tanks is drained out in equal amount. Some times such ships are called Barges. This process of filling water is called ballasting, while removal is called de-bellasting.

The quay wall adjoining ship is generally a diaphragm wall or a caisson foundation with top deck slab. The deck slab accommodates cables for lighting, for charging ship dynamos, for running, gantries for loading and unloading (over rails).

The deck slab above will have bollards for anchoring ship. These bollards are made of cast iron and with 2 M length bolts fixed in the Quarry wall. The sidewall of quarry or Warf where a ship stands do have fenders.

These fenders are, spring loaded and made with rubber to absorb the approach velocity of the ship. They also protect the ships from damage, because of huge concrete wall.

Monoliths or well foundations are used to contain the land side earth and to provide the necessary ducts for servicing the ships.

These foundations are used for bridges, ports and for machine foundations, and where required may be combination with piles.

The wells are pre cast at location, or taken to the location in a floating condition. The casting of concrete is for 2.5M ht.

The central area earth is removed, so that the well sinks, either by its own weight or by using counter weight called Kant ledge.

Then further steaming concreting is done till the well reaches the founding level.

There was a crematorium on the opposite lane of a busy lane.

The vehicles parked are first assigned to go for the tests on DNA, gene and then test the available organs for transplantation.

Once the skin and available organs are estimated, they are systematically removed and the dead person is brought to the chambers.

The shutters are closed and electric current is applied.

The remanets are moved to the Urea factory for replenishment in to the calcium for the nitrogen and urea which are used as fertilizer.

There is a small butcher factory down town whose pedigree could be very high, which is cleaned at least a dozen times a day.

All the remnants of the animals are moved along with liquid waste to high process zone where they are oven dried and then burnt in a small furnace. The chemical lorry picks up these ashes to the Urea plant once in a day.

Samul has asked every one to concentrate on BUILDING SERVICES and when needed to enhance the requirements as and when the population density increases three times and consumption reaches four to 5 times.

Internal concealed Electricity with auto trip 5, 10 & 15 Amps switches for Air conditioner, water heater, Refrigerator with suitable size cables, depending on size of building are required. Cut outs fuse boxes and 16 Amps circuit breakers are necessary. All wiring shall be concealed and one core of wire shall be suitably earthed in a proper earthing pit.

Suddenly Raymond men have started running across the streets.

What is it asked Samuel and Shanthakumar..

Stuwert said, they are not getting the communication signals.

The band width is very less.

The data down loads is taking time.

Frank has asked how far is the real south pole in terms of miles and degree of angle.

Raymond found the Summer south pole is about 120 miles away from our new Islands.

But in winter it moves towards south east and is 60 miles in that direction.

Why not we keep antenna near those areas and measure the EMF of the signals.

They did that and found that there are no signals at that point. We will use Extremely high frequency 30-300GHZ,not MHZ,and near distances of 10 to 1 mm.

What shall we do to make possible to install satellite based communication system.

I think that has failed,the satellite went hay wire,there was no signals at any point,we are hallow said and left Frank.

DISCIPLINE THREE
SEGMENT EIGHT
Physical therapy and yoga

On their way to the meetings Ratna, Sanjana and Marino were visiting many cities. They were in search of climate changes and the changes people have developed in their cultivation, food eating habits etc.

They were also searching the effects the climate has brought on the virus and pathogens.

The practices and systems humans have developed to get well from the nature and degrading system or call it system modifications.

People have some questions.

Is this change in climate natural or human made is it temporary or is it permanent.

Has changes in sun and or earth has made such changes. Are there any changes on moon also.

The third question is how the communication systems are effecting our Earth. Since they use lot of energy are they preventing the rains reaching to earth and putting a blanket in air.

Fourth will our health get affected by the broadband use and communication towers increase because of radiation and radio active waves?

The fifth and last is earth losing its ground in the sky, because the Polar Regions ice is melting earth may lose orbit around sun.

When in Hyderabad city in India they stayed in Taj hotels.

They bathed together; they were having steam room and warm bath together

. They together went to the Gym and a body message center.

Marino saw the slim body of Sanjana, and more or less a small chest.

She asked what happened. Sanjana said it was like that, when my first child was born i used the pumps to extract milk.

For the second i bought a pump because i found milk is coming but they were not growing.

Jackie said **Ratna** here the message is done by men of different class will you do it for me.

Ratna said if you do it for me yes.

They both agreed. It took the application of several fluids oils chandan powder and fuller earth application for each not less than a hour. While she was near between the thighs Marino felt Sanjana is soft there. She took time to apply fluids and sooth. Ratna was very calm and spread her legs wide and closed her eyes. She looked comfortable and relaxed.

It was Sanjana who was applying the chandan on the body of Marino when she found the softness of the breasts of the Marino. she is some where in heaven closed her eyes. Sanjana felt her nipples hardening while several oils were brushed on the breast. Finally when they bathed and dressed, both hugged each and kissed. It was momentous and lovely. We will repeat this when we get next time, both murmured. Sanjana said people tell me that I am like Amrapali of Bimbisara time. This story is not about them but of modern ties. One of the stories of a man who became rich is like that of me. This is from historical books please do hear. Marino said I am ready, and kept her head on the thighs of Sanjana, and stared sleeping. Sanjana narrated the story. A man named Sagar was a Engineer living in one of the country's big cities. Sagar had a son, who, one day his son purchased a book which has nothing written. But in the end it says be wise to reach your destiny. Even God cannot prevent the destiny.

The boy went out of house and started working in a small hotel. One day a business man came there, he knew slightly who the boy is but pretending as if it is knew he asked him, who he is and what he wants. The boy said I am an Engineer, the business man took him to his establishment and asked the M.D., to appoint him as a computer engineer. The company started converting documents to digitization and the work was in progress. At the end of accounting period they found that the company assets have fallen down. The banks gave notice to the company. The owner was busy in his electioneering. With guts the boy went to MD chambers when the owner was there, he said

there are many physical old documents which could not be converted to digital documents,the worth is very high.

In hours the whole issue was settled,they talked with experts,bankers and the company balance sheets were were very good.

He was immediately promoted as a GM,Forensics and the Vice presidents daughter choose to marry him.

At a stroke at less than 30 years his salary was equivalent to such who served in the company for last 25 years.He went and told I believed I have real fate and that is why I choose to do any job.

DISCIPLINE THREE SEGMENT NINE EMF and The Living Planet

Electrical Engineer Reymound said we have certain systems in place and many Engineers are in this secret mission of north and south poles. The president of International Federation of Spacelogsists and Space scientists were discussing about the future prospects of migration and settlements.

One of the ordinary scientists started addressing the Conclave contains only few but well learned people..

The moment they heard his voice the conclave went in to silence. There was a saying that he is always serious about his work.

He may overtake his Predators.

His Pedigree in this field could be very high.

We know that earth has more fluids than mass, and earth surfaces and earth shapes are not constant.

The motion of any particle in space is dependent on its weight and rotation is corresponding to its weight on each side.

The oceans can reflect light in to space and modern living has brought more nitrogen and more Water vapor in to the sky.

This has resulted in sun light being passed to some areas like a white platinum rod burning at near by places.

These areas are receiving sun light direct and sun light from the water vapor which is the result of refraction from the shallow sea waters.

There are no ways to arrest such activity.

When we talk about space and stars we quote some ancient people like Varaha mita, Aryabhata, Gullelio, and some others.

But this science remind since ages but why these people only are quoted.

That means in the preceding ages of their findings there were some calamities and their contributions have made possible the new human developments and settlements as trust worthy.

I had given two issues which represents the fluid mechanics of earth and the findings of space which are relative to the circumstances.

The third point I wish to make is more important. That is there is no way to change the path of Earth, or to change new places of desert which are in the offing.

Finally I want every one who speaks about Electro Magnetic Force [EMF] and who speak about the bands we use for communicating on the earth has one item to think.

My doctor said yesterday I am dealing with living spices.

So we are on a living planet.

It has its own communication systems.

It communicates with its band of signals with the sun and other planets.

The planets in turn support each other.

This is not a god or giant theory.

In each rotation earth spends some energy and gains some materials.

The spent energy passes from North Pole.

The replenishment can be at equator or at South Pole. It can be new mass.

What gases contribute for such rotation of earth, and what magnetic fields other planets have we will research and preserve.

But we ourselves changed systems in last 400 years.

Now it is binary language.

The machine, but same machine only can read it.

The data will never be useful except that some of our scientists' names will appear after 400 years.

That is it from me he said and concluded.

Raymond continued, we have trained many Doctors, Engineers, accountants and Finance personnel in to most modern and versatile systems.

The poles are places where either signals are received in strong nodes or were lost.

That is because of the EMF between north and south poles.

He said to all his mates our mission is to prove that the EMF has no bearing on the climate action on earth.

Here we are to prove that EMF does not overlay with nature.

We are getting RTG, SMR reactors to give us uninterrupted power in our endeavour to make a very smart city from scratch.

We have satellites and Transponders pointing directly to this place.

Our communications will be in K band.

Our first idea is to look to protect the sea bed as per the Sustainable development Goals, and in particular making the oceans and seas free from wastes, organic dumps and protecting shores and mangrove forests.

He said, on the seabed of many shallow shelf seas, a variety of strikingly regular patterns can be found, and have different spatial and temporal scales.

Sand waves are bed forms with wavelengths of about 500 meters and heights up to 10 meters in water depths of about 30 meters and can migrate with velocities of about 10 meters/yr.

It is usually assumed that their crests are oriented perpendicular to the dominant current.

Sand waves have a significant effect on the activities taking place in shallow shelf seas.

I am making in charge of ocean technologies commander Bhandari he will look the aspects as detailed below and assign men for work with machines.

Bhandari is another Indian Migrated to US and now in US Navy.

He started we look for the Seabed Topography Charts, these are charts which are converted into maps. For safe navigation, it is sufficient if nautical charts give minimum depths. As the seabed is likely to change over time, it is expected that the accuracy of a chart will decrease with time.

We will also use the topographic data which is obtained using single-beam echo sounders, which are attached to ships sailing over the area. They measure the depth directly below the device. Recently, multi-beam echo sounders enable measurements not only directly under the ship, but also in a swath (strip) with a width of several times the water depth on either side of the ship.

The error in the horizontal positioning lies currently in order of magnitude of the distance over which sand waves migrate in a year. Remote sensing is an alternative way of obtaining data on the seabed topography. Satellite images are inexpensive and provide snap-shots of the sea-surface.

Bhandari said the instruments to translate satellite images into seabed topography are being developed at this moment.

Satellite images can be positioned more precisely in the horizontal. In

practice, images taken near the coast are much more accurate than images taken farther offshore. The accuracy of the horizontal positioning can then be as good as ± 25 meters.

The BAS (Bathymetry Assessment System) is based on the concept of combining the above optical sea surface measurements with a translation model.

Comparing this simulated image with the observed one and adding data from traditional sounding, ultimately leads to a chart of the seabed topography.

This system is meant to produce charts at much lower costs than before.

Theoretically, combining the satellite images with additional ship sounds and radar images taken from aircraft can improve the vertical and horizontal accuracy down to the order of few meters or less.

That is why we have hydraulic platforms or jack up platforms.

The BAS technique developed, will reduce the number of soundings considerably, thus reducing the total production costs of charts.

Hundreds of kilometers of pipelines can be found in, for instance, the North Sea.

Pipeline protection takes up a large part of the total costs of developing a new oil or gas field.

These pipelines sometimes have to cross a sand wave field.

The sand waves can form a threat if they migrate and expose the pipelines, free spans may develop, causing stresses due to gravity.

Moreover, the pipelines can start vibrating, due to the turbulence generated under these free spans.

The vibration also causes undesirable stresses, which may cause the pipeline to bend, break or buckle. Once exposed, a pipeline or cable can be damaged by ship anchors or fishing gear.

The height and migration speed of sand waves are important design parameters for pipelines and cables. Mega-ripples are too small to create significant over-exertions.

Free spans may also be caused by changes in sand wave asymmetry. The most straight forward solution is to lay the pipeline in a trench through the sand wave field.

This solution is effective, but expensive. the main question is: what is the most efficient depth for a trench to place the pipeline in? This

optimal depth depends on factors such as dredging costs, pipeline construction costs, monitoring costs and risk.

Furthermore, under certain conditions, the pipeline may have a 'burial potential' of its own.

A pipeline laid on top of sand waves is curved, when it will not sink as easily into the bed as it would in the case of a flat bed.

Moreover, the current velocity varies along a sand wave, making it harder to predict the burial behavior of the pipeline.

Several bathymetric surveys are made in projects concerning pipelines. First, a reconnaissance survey is made. Next, the chosen route is measured more precisely.

Before the pipeline is constructed, the route is surveyed once more to have the latest information about the condition of the seabed.

After the pipeline is laid its surroundings are checked for any changes.

During the entire life span of the pipeline, this area is monitored on a yearly basis.

Here one can think of objects such as ship wrecks, mines and containers possibly containing hazardous materials. However, they might become exposed again, forming a direct hazard to the environment (for example, leakage of chemical waste).

These objects can get stuck in fishing gear.

Well people may think why we need on how to address construction techniques, and contracts. Well, **It is easier to criticize.**

“Once upon a time there was an Engineer who had just completed his course under disciple hood of a great Engineer.

This young Engineer decided to assess his skills.

He decided to give his best ideas on the development of a city. That was a city where people thought they need ideas to overcome stress and to be in line with the technology.

He took 3 days and made his ideas in to a book, with presentations and drawings.

He wanted people's opinion about his caliber and skills as an Engineer.

He put his work at a busy meeting and said in a note "Gentlemen, I have made a master piece for the development of this city.

“Since I'm new to this profession I might have committed some mistakes . Please put a cross wherever you see a mistake."

While he came back in the evening to collect the comments from the egalitarian society he was completely shattered to see that whole document is filled with Xs (crosses) and some people had even written their comments on the document.

Disheartened and broken completely he ran to his master's place and burst into tears.

Sobbing and crying he told his master about what happened and showed the pathetic state of his creation which was filled with crosses and correction remarks.

This young artist was breathing heavily and master heard him saying "I'm useless and if this is what I have learnt to Engineer I'm not worth becoming same.

People have rejected me completely. I feel like dying"

Master smiled and suggested "My Son, I will prove that you are a great a great Engineer in making at that your Intelligence Property rights [IPR] need to be protected .

"Young disciple couldn't believe it and said "I have lost faith in me and I don't think I am good enough. Don't make false hopes."

Do as I say without questioning it. It will work." Master interrupted him.

Young artist reluctantly agreed and two days later early morning he presented a replica of his earlier work to his master. Master took that gracefully and smiled."Come with me." master said.

They reached the same meeting hall early morning and gave with a note to the audience.

Now master took out the note which read -"Gentlemen, I have done my engineering work for the best development of the city. Since I'm new to this profession I might have committed some mistakes in my enthusiasm to present it quickly.

It read further since the Engineering works of you and me are under Intellectual property rights,I am leaving a pad and a pen to write your comments.Please leave your comments in line with the profession.If you still wants to correct the document please do the correction by writing your name." Master and disciple walked back home.

They both visited the place same evening. Young Engineer was surprised to see that actually there was not a single correction done so far. Next day

again they visited and found that the document has entries of visitors but no correction or comments.

The city council accepted the recommendations of the Young Engineer, and gave to a committee to make the designs and drawings and estimation etc, under his [The young Engineer] guidance.

It is easier to criticize, but difficult to improve. If you want to help people improve their behavior it is worth investing your effort in learning how to help people change their behaviors, attitudes and skills.

Take criticism in your stride, consider such which are genuine and implement those which you think is the best to improve you as a person!! Never compromise”.

DISCIPLINE THREE

SEGMENT TEN

The Written Fate

After long hours at coast and inspecting the places where the Jetties, wharves and essential coast guard and other structures are to come, General Frank is 24 hour energetic person with lot of health, He had a long lunch and walked to the Hospitals area.

One of the proposed hospitals is for cancer, another for infectious diseases. The third is military hospital, fourth is a radiation therapy treatment system.

At the proposed Cancer hospital he heard the experts discussing about the systems and machines.

Some one was telling, Dr. Georg Springer has devolved Tn Antigen test that can detect the majority of cancers before any biopsy can pick up the presence of cancer.

The T and Tn antigens are proteins on the surface of blood and skin cells and can be identified by the immune system antibodies.

The concentrations of these antigens vary depending on the cancer type and stage.

A skin prick can predict or indicate the likely development of cancers, even 6-10 years in advance of other tests.

The test appears to successfully diagnosis about 94% of lung cancers and 80% of breast cancers.

By inserting a miniature probe into a tumor and using pulses of sound waves to image the surrounding tissue, this system could facilitate the early diagnosis of cancer.

The ultrasonic micro probe would allow a pathologist to accomplish the same goal as a surgical biopsy but through a rapid and minimally invasive procedure - by inserting the probe into a tumor and displaying the image on a monitor, they could identify and classify the tumor in real time and even send the image over the Internet to specific specialists for help in identification

Cancer cells grow faster than other cells, so they use up energy faster, too. To measure how fast glucose (the body's fuel) is being used, a tracer (radioactive glucose) is injected into the body and scanned with a positron emission tomography (PET) machine.

He saw the list of instruments and their requirements for room, foundation or space and surrounding area so that Radiation does not go to near people.

He was thinking why so many equipment. Then he realized that the persons can be best treated here than at main lands. Hence all sorts.

He felt that some one took real interest to put in real lab and treatment centers here.

Only some will be here and some will be in the next Island.

Then Ishar started telling we have the urbanization during ancient times of Ashoka, Alexander, Romans, Greeks etc. Even earlier times the roads to towns were well laid and trees were planted on both sides of roads.

One of Dams of Andhrapadesh was the Pulichintala balancing reservoir or the KL Rao sagar project which was given as a Engineer procure and construct [EPC] project. With three times the cost escalations to Rs.1818 crores, the project completion went for 10 years, till 2015. The safety of structure was in danger with reduced piers for supporting the storage crest gates. Another huge project where to err was a definite necessity.

Sea coastal roads on east coast is a perennial work for the Governments, as the sea roughens up the roads laid in the areas, cutting across the banks and eating away in to the embankments and low lying areas alike.

The time have changed in terms of virus and bacteria pathogens and the drugs. The hotter atmosphere needed better medicine to deal with new generation of spices.

Hepatitis virus, A, B, C, D are some of the known virus in the tropical areas. Hepatitis A damages slowly the liver, and so the C and D. But B is yellow fever virus and is more and suddenly dangerous.

Stored untreated stagnant water is major source for such and Typhoid fevers.

DISCIPLINE THREE
SEGMENT ELEVEN
Banks Of Men and Women

Ratna and Jakie along with many visitors were at the IVF clinic.

It is about gender equality and women empowerment.

Suddenly a voice started telling inside a glass room,I have the reports of the man and women from whom the egg,and sperm are obtained.

The blood picture is in another report,he continued we have also their skin analyzed for Larvacides and bones are tested for Cesium,the details of testosterone also is enclosed.

Please read carefully and check the DNA,I want to put one drop[0.01 ml]of medicinal vacci to with stand cancers and have better health against malaria.

There were many waiting in the open hall either for contributing their eggs or for sperm donation.Some men and women have decided not have marriage but have children.Of such there were also,Lesbian,gay,Bi sexual and transsexuals,who wants to have children.

Each one hired some one based on their needs.

They will be paid as they want till the child birth is complete and rearing is also done at least for 6 months.

Some suggested that life is a transformation and women can deliver in IVF clinics from Alpha male or B category male as is needed.

Make some money just use selfie and ejaculate at any sperm donation centers and earn between Rs .2000 & Rs.10000 per ejaculation.

It was in terms of Indian money which Anand was searching in United Kingdom.

The U.K.,and Canada we are not given work visa with the admission in a university.In fact no country gives,but parents are duped by their wards to some how spend a few lakhs and send them abroad for studies.

Many fathers has opted paying for tourism visit to some countries before their wards decides on their professional education abroad.This is because many of them suffer for want of care which do not come in many countries due to the difference in heritage and culture.

The third solution is send your wards on international tour by spending 1 lakh each trip to Srilanka,Malaysia,Singapore, Hongkong etc.

That eliminates the thrust and the boys and girls will start searching for a rightful overseas job.

But they fall prey to the brokers, who are half educated, but show on their plate and card some fake degrees of Institute of Management etc. An entire industry is waiting out there with plastic jars to collect these liquid assets and pay for it in cash.

In modern times forget about gender equality and other such, but the hygiene and reproductive system along with the Blood sugar and Thyroid are not frequently checked by medical experts, because of lack of social awareness and a socially responsible medical system.

Every sperm donor has one thing common that he cannot tell anyone that his is the one who went on contributing at so and so lab and he saw so and so women frequenting such IVF lab, and the chances she had his child is one in thousand.

So also the health of a male child is compromised due to lack of access to technologies.

For instance, the parent of a 20-year-old student of a college, will never know the truth about how their son pays his mess bills from the meager allowance they provide him.

Nor will his wife, when he eventually marries.

But he is hiding it from his family for fear of guilt in his youth.

After all, he isn't committing a crime. His viewpoint on the merits of openness garners sympathy.

These are for rich families for rich women, they want basic family background and how good were they in last generations, any heart attacks, cancers etc as family history what the boy is now doing such as good studies.

They pay highly for such boys who are well behaved and do not go to booze parties etc.

One of them is from IIT, Powai. The other two are commerce and science students from city colleges. All are between 19 and 21 years old.

One after one, they will get up, and disappear into what the man calls the 'masturbatorium'. The tag on the door is more prosaic, and only says 'donor room'.

The room is well furnished, boys are allowed to have their feelings while they do pull the sperm out.

The licensing is done by police and medical authorities. Doctors regularly check the blood for all sorts of possible frauds.

The list of donors and the IVF people are codified and kept with the registrar of births.

To make life easy for donors who don't believe in the print media, there is a flat screen TV and a DVD player, on which you can watch porn for a noble cause. But he is also simultaneously recorded in video.

.But these are not so secret the fathers and mothers or courts police and forensic experts can make out who the real father is. That shall make the families worry for more generations to come.

Narsing said he was proactive body builder.

He was eating and exercising every day.

Women and men used to envy him.

He tried many jobs. Honesty or good work did not pay him well. His masters never thought to give him promotion or pay hike.

He was envied by all.

One day his friend **Raghu** said there is a contract for house building.

He has to secure few lakhs for contract.

He tried the work. The owner paid him well as per rates.

The workers did good work

But the material suppliers and the workers asked for more payments showing excess work done and excess material supplied.

He asked the owner .He has not agreed to pay beyond agreement, but as compensation he paid to him was extra 10% on the agreed rates.

With that he found still he needs 20% more for all other payments and expenses. That is more than the money he borrowed.

One day the owner daughter saw him standing in the market with his bike parked. She walked up to him.

I know you are honest. You are not made to detect the deficiencies in supply and warn the suppliers that their supervisors are cheating you and them.

You are not made to tell the workers contractor that what ever you paid for their meal is deductible and night work is part of the rate and nothing extra will be paid.

And that is why you lost.

He started walking beside her.

If you can join me I will take big works he finally said to her.

She stopped gazed in to his eyes and told him, my father has two daughters and a son. I am the second. I am unmarried.

I am an engineer working in Chennai.

I need a husband who will look after me my house, my children etc.

Why so he asked.

I do not know but exactly the doctor feels that I may have a verbitate or spinal card problem if I deliver.

So my choice is to you to be my House Husband.

He said let me think.

No I may change my mind tomorrow. Agree now to my proposal and from now on wards we will work on how to impress my father your family and doctors if required.

He agreed.

She gave him full hug and token kiss.

He is now her house husband ,and after marriage they have a child who is now 6 years old..

Her personality superseded his masculine well groomed body.

She was excellent.

The inner problems come as when some sciatica systems are bad.

The goal is to set the digital world. Make every thing happen from long distance.

A women came in and delivered the basket of vegetable, fruits and other grocery stores.

He asked have I to sign or pay.

She said no it is all signed and paid.

By the way are you searching for a job.

Yes said the man.

What are you.

I am the house husband.

That i could see, but can you use small hand i-pad, can you travel long distances to mess and other cafeteria and deliver the goods.

If yes i m now recommending you for the night job from 10.00 PM, to 7.00 AM., and the job is yours.

He said last time i agreed for such a job and for 6 days a week me and my wife have not seen the face of each.

She said i am a manger controlling at least 10 persons like you.

Why do you search for a job, see the TV chat with your neighbor husbands and play cards.

Any way talk to your wife, she was about to leave and turned to him and asked, can you spare me good sperm.

He looked in to her and said in a plastic, with out touching you at the sperm bank specified by you.

She looked in to his eyes deep and said brother yes, i need yours you are strong healthy and good guy. I will or my sister will pick you. He said you call me on my number. No contact, we never know the donor of sperm, as much we never know when and who paid the electricity, water, house tax etc. bills.

How ever even in Digital world we are in contact when it comes to delivery of food products, milk etc.

The door bell rang.

But you or your sister also needs to make a donation of eggs for my wife .

I understand, and that is why i am in a hurry.

What exactly you know he asked.

As they want sperm of boys between ages 19-25, we are told that women fertility will fall down by 80% at age 30 onwards. There is proof out of the research.

But Indian conditions and menstruation happening at 10 years may not leave the women hood for more than 20 years.

Both said bye to each and left.

DISCIPLINE THREE SEGMENT TWELVE Future Humans

Men and women have same Liver and same system of digestive organs. In fact the maturity of a boy can easily be recognized than that of a girl. Because the growth of mustache and beard indicate out side the inner growth of pubic hair. This is almost the same for a girl but evidently not visible to outsiders. One of the early precautionary syndromes for a girl child is menstrual hygiene.

General statistics indicate that 70–80% of women require direct clitoral stimulation to achieve orgasm. The clitoris is composed of more than the externally visible glans. The clitoris surrounds the vagina and surrounds the urethra and anus as well. The vagina is flanked on each side by the clitoral aura, the internal "legs" of the clitoris, which are highly sensitive and become engorged with blood when sexually aroused.

In addition to nerve endings present within the anus and rectum, "legs" extending along the vaginal lips back to the anus. Sensory nerves, such as the pudenda nerve, which gives off the inferior anal nerves and divides into two terminal branches, the perineal nerve and the dorsal nerve of the clitoris.

The Gräfenberg spot, or G-Spot, is a sensitive area of female anatomy, described as being located behind the female pubic bone surrounding the urethra and accessible through the anterior wall of the vagina; it is considered to have tissue and nerves that are related to the clitoris.

Besides the shared anatomy of the aforementioned sensory nerves, orgasm by stimulation of the clitoris or G-Spot through penetration is made possible because of the close proximity between them.

Achieving orgasm solely by anal stimulation is rare among women. Direct stimulation of such as the clitoris, G-Spot, or both, during anal desire can help some women enjoy the activity and reach orgasm from it. Stimulation from anal desire can additionally be affected by popular perception or portrayals of the activity, such as erotica or pornography.

In pornography, anal desires commonly portrayed as desirable, routine, without use of a personal lubricant or a condom, and painless is never true

in reality. It hurts, it is painful and not a trusted system. The anal sphincter muscles react in a different way for each of the women.

Ensuring that the anal area is clean and the bowel is empty, rectum is clean and does not carry bad e-coli is a must for health of both parties.

Some say that direct stimulation of multiple systems, the clitoris, the G-Spot, the anus, other erogenous zones like nipple when they are perky enabled them to enjoy anal intercourse.

Human development also needs future generations on this planet, hale healthy, and working for systems change. Human biology needs a preservation. As much we preserve the sperm, the skin, the eyes that much we need to care for their well being.

Women described it as more of a full-body experience compared to orgasm from direct clitoral stimulation alone.

Sodomy called the vaginal copulation-like act, such as oral or anal sex, or the desire between a person and an animal. The word is derived from the story of Sodom and Gomorrah in the Bible. In the Western world, many of these anti-sodomy laws have been overturned.

DISCIPLINE THREE SEGMENT THIRTEEN CITY PLANNERS

A gentle voice was telling that we are not having much time, we have done much research in 2016.

That was the Chairman who is newly appointed for the City and Human settlements issues fourth conference called, **city Zoning-4**. It is **Peter**.

There were more than 50 guests in the room. The high end Hotels Group Marriott, Reddisson, and such who have their foundations for developments were there.

The Macros and others of software companies foundations were heading the safe power projects, the Team of Safe Cities headed by zomberg corporation, which wants to say that the band width of televisions is all right, are also in the room.

The **co-chair Stella**, who has come out of gender equality, by a rational thinking she has come out of her pedigree than with her work, is in the co-chair.

Telecommunication Union headed by its chairman and deputy were representing the use of Spectrum band width and its applications for military civilian and space use.

The Environmental Protection agency also headed by its Asst. secretary was here to understand the climate implications and how to overcome the issues.

In the last meeting certain foundations asked how the spectrum band works and is it not a layer obstructing sun light to the globe in particular areas where the use is of highest order.

The leaders of Telecommunication Union failed to specify how much of band spectrum is safe and how they do not obstruct sun light or the rays required to make the activity needed for rains.

The Environmental Protection agency was forced to stall the misunderstanding between the parties. That is why both EP and TU turned their heads in different directions. They avoid seeing or talking to each other.

She, Stella started telling, Ensuring adequate, stable, and predictable financial resources, Improving the ability of the organization to provide

capacity development to developing countries in designing, planning, and the implementation and sustainable management of urban and other human settlements;

The institution that leads and mobilizes all actors on the sustainable urbanization agenda and urban governance are impaired in their functionality. The reasons are, many have not accepted the proposals.

The Engineering has molded certain objects, and countries choose the one that best suits their name and fame.

The system in the implementation of mandates on urbanization and human settlements has many corners to cut.

The houses were without adequate water.

The thyristors used for the transformers were out dated and not connected remotely to the functional power lines.

The transport systems were semi mechanistically with out dated controls. Huge lands and money were needed for laying new transport tram lines, as the population density index was never estimated, established, nor implemented for transportation systems in multi layers.

There was encouragement to the secretariat by the developed nations to speedily accept reconstruction systems for these irregular societies so that they can pump money as aid.

They wanted Early holding the Nations Conference on Housing and Sustainable Urban Development in 2026 to assess the implementation of the New Urban Agenda, and convene a midterm review in 2026 taking into account the progress made in the implementation of the 2030 Agenda for Sustainable Development.

The Chair person of Melda and associates have said that in accepting the resolutions we as the partners of the development have contributed more from our earnings so that we can be more sustainable and prove that the world needs more dynamism that what ever is shown in climate changes.

There was utter silence in the room. There are other issues related to international development including the sustainable development goals. Both the control on climate conditions and human detonating statements and disorderly violence are making headway in the civil society destruction.

Engineering situations are changing with programmes being hijacked elsewhere.

There is more to development.

But there is an likely happening which may undermine humanity.

It is either the Srikrishna-Arjun type of ballistic missile system, or the Business empire's god's way of destruction.

But Earth will it resist the changes or will it make a mountain of dead in some cities.

Uranium is the compound which is now much in use as a nuclear fuel.

"It is stored, either as UF_6 or as U_3O_8 ." Some is used in anti-tank shells, sailboat keels on at least sometimes."

"Radio-thermal generators (RTG) are another type of mini reactors which are in use, and are used in spacecraft and remote lighthouses in Siberia, and are based on "thermoelectric generator" principle, which can only produce, at most, about two kilowatts.

They are hardly the sort that you would keep in the garage. But for them Plutonium is the substance in use.

"SMRs is that they've been successfully employed and hundreds have been steaming around the world inside the hulls of nuclear submarines and other warships for sixty years".

They've also been used in merchant ships, icebreakers and as research and medical isotope reactors at universities". Uranium is the name of the Nuclear fuel.

Finally Kapila said "Let us not fear anything about this metal, usage storage etc".

"Steam is produced in a nuclear plant by passing a loop of cooling water from the reactor through the steam generator, which is a separate vessel filled with cooling pipes.

The hot cooling water enters the generator and as it runs through the pipes filled with water is heated.

This changes to steam, which turns the turbines that turn the dynamos".

On a conventional reactor, most types have the steam generator outside the reactor vessel. With light-water SMRs, the steam generator can be placed inside the vessel.

With the steam generator inside the reactor vessel, it's the much safer situation of only non-radioactive water/steam going into and out of the

reactor vessel.

Radio Thermal Generators or RTG are specifically used for the Submarines,very far Light houses and some ships and some Airplanes. The technology is almost every where available.We are trying thorium use for such reactors with use of Robots,said Mr.Ansari of India,well known atomic scientist in his category of work.

“It’s still possible, if we install a bunch of nuclear power stations and then use an electrified road,that charges the car as we drive.

And then there’s NASA, which is slowly working on small but cold fusion reactors, which could comfortably fit in a plane or car. One day, my friends, one day.

Small pieces of thorium were used to generate heat and were positioned to create a thorium laser. That ‘laser’s heat water’ is used to produce steam and power a series of mini-turbines.

An engine weighing approximately 237kg would be light enough and compact enough to fit under the bonnet of a conventional car.

If it were that simple though, petrol would already be a thing of the past. turbines and generators that were usable and portable was much more difficult than making the thorium lasers”.

According to the US Geological Survey, Australia has the second highest level of thorium in the world with 333,690 tonnes – accounting for somewhere between one quarter and one sixth of the world’s thorium reserves.

The concept of the thorium-powered car World Thorium Fuel Concept not one element of the vehicle would need to be added or subtracted in 100 years.thorium-powered cars are the future.

“We have made the car fuel, and our trails are successful.We have succeeded in using the low radiation fuel for spacecraft.

They all work like batteries, in fact, it is very difficult to make out between these and ordinary batteries”.

He looked at the chairman, and secretary of the secret society,they told him to stop.

A secret is kept for the more powerful.

They proposed a drink, and people started dancing with the girls who are well trained and brought from different countries.

Some one said, find out the value of N of the soil,where the boring are happening for piling.

Because we believe N=100 is still a criteria.

His assistant said from day one of your contracts this factor which you used in India has led to project failures.

Do you still follow the same foolish logic of 100 hammer blows for 1m settlement for founding a nuclear power plant this can lead to a catastrophic.

Kapila said in India no one can find out,hence we will economize on these projects and show how economical we are after all every one knows in India that we economize on construction costs.

Member States of the General Assembly, decided that the objective of the Conference are to secure renewed political commitment for sustainable urban development, assess accomplishments to date, address poverty and identify and address new and emerging challenges.

The world has seen rapid increase in world population.In India in 1885 it was 25 million, it is 1.6 billion in 2025.Habitat -1 In 1976 world urban population was 37.9%,and 1996 it was 37.9%.The urban population percentage at 7.6 billion population in 2016 was 54.5%.Between Habitat III & Habitat IV in 2025 we are at 65% of population in urban areas and heading to 70% or more in next 10 years.

It was October, 31 st 2025 night,there were the His excellency The **Governor of Tasmania**,The **Vice president of NewZealand**.The General Frank had made arrangement for ballroom dances and inauguration of many public offices clinics hospitals,play grounds and what not a city shall have.

There were guests from the congress of US and Guests from many nations.The light were dazzling.

One of the guests asked we want to open an Embassy here and we need space and or a house.

General Frank looked at the **Vice President**, who is already in dance mood with a dozen pretty girls who came from all corners of world.The V.P.was in mood to chew his Tequila made of pine apple, 'the dirty' is the name.

The girls are squeezing every moment with every one occasionally checking their pads on top and at bottom.

Men were rushing the friends to corners with the Bottle they want.

Hell of pop music was there.

From one corner Amrutha was telling her faience this place is good.
The so called global warming is not here.The electricity is pure as mankind.

Another corner **Sangeetha and Dinesh** were having bash.

Sangeetha mother rang up.

She said mom I am busy to night.Now I am not Cable belt companies and I am in a township planned and built by a team comprising Satya and Frank.

These towns will last 1000 years, no problem for food or electricity.

It is full pledged.

Me and Dinesh have decided to have children now.

Satya was seen talking to his Mumbai team we have completed every thing, now that summer starts here,you wind up your office for 4 months take your immigration cards and move here.

If you like this place you can work and stay here.

Some one was asking what about **Kapila,Raushan,Ashoka and Glacia**.

Also what **Carl Hussain**,said to some one, is that it is first time in history that they are happy about their product and marketing techniques.

Yes the British system of SMR and Russian made RTG worked well at the new DIAMOND TREASURE ISLANDS. =THE END=

