



The brief depicts about the need for housing the senior citizen. Young population migrating abroad leaving ageing parents behind who needed support is the ongoing trend. Mostly elderly needs the environment having all the facilities near by so that everything can be accessible to them and nature would be more

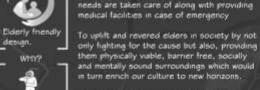
As the migration rate is increasing ttlonger life span, change in socio value their is more need of senior

Senior citizens need to be indepen dent and we do that by ensuring their safety, dignity and health, cognitive and physical.

The main aim is to understand the increasing need of senior citizen houses in India and provide not only architectural solutions but also wable solution by creating a good foresighted built environment for elderly that can address their basic needs at 3 levels:



To understand and design healthy livable spaces for the senior people, so that, ageing does not become a factor for their mental illness and their experience comes to a good use to the



The main objective of such housing society would be, providing residents with dignity, mdependence, privacy, control, choice along with health care support.

To understand the importance of a healthy liv-

able space for old people, where all their



Need of the

future.

AIM 4 OBJECTIVES







CATEGORY OF OLD AGE PEOPLE DEPENDING ON THEIR PHYSICAL CAPABILITIES



a. Independent Living GL or ILF1

Independent senior living selves on a continuous basis. I



(AL or ALT).

DIFFERENCE BETWEEN OLD AGE HOMES AND SENIOR CITIZEN HOUSING



Retirement Community

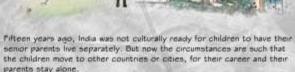
Some individuals with physical A residential option for senior citcommunities bring together. I callor mental impairments. I izens providing flexible housing. individual seniors and couples, choose to live in assisted i options, services and amenities. who are capable of looking - I living facilities so that pro- ! to provide round-the-clock care after and providing for them-! fessional help is on hand. | and address the health and well-I ness needs of residents.

HISTORY OF SENIOR CITIZEN HOUSING IN INDIA

Until about a decade ago, elderly Indians-either by choice or by the wishes of their family-rarely left the nuclear fold of the family even in advanced old age. Many elderly people now have sufficient monetary reserves. and have begun valuing their independence even after retirement.



parents stay alone.



a). Old age homes b). Senior citizen housina Similar to normal Residential care housing schemes. facilities. Daily needs are Run by government or considered. private organization. Can accommodate more No ownership rights. people giving sense of community living. Bounded by rules of Individual ownership. organization running it. No sense of Nursing section for dependency on the short term care. future generations.

Serene, tranquil and calm-that's the kind of life most people desire post retirement. Billed as the idyllic retreat for one's later years, senior citizen homes are fast gaining traction among those who desire an independent lifestyle away from the humdrum of city

Already a popular concept in the West, the trend of retirement communities is beginning to find a market in the Indian context.

But are such retirement communities suited for a market such as India that thrives on sentimental values? Definitely yes, the concept of retirement homes is culturally sensitive to places like India, as there are several factors that are likely to contribute to a shift in this pattern.

"Young at heart, slightly older in other places.

HUDCO Trophy | 2019-2020



Elderly care meaningful architecture.

SCOPE OF THE PROJECT

Positive impact on the lives of the elderly.

Improving areas of the built environment for the aged.

fligh scope of development of suburb in accordance with the senior citizens housing project.

2 DATA COLLECTION

The property shall stand mortgaged is valid for transfer of title through to financial institutions, which will 'Sale Deed/Transfer Deed' Allotpay a lump-sum or monthly install tees will directly purchase the ments to the Allottees for a prede- apartment from the promoter/ de-



OWNERSHIP MODEL

termined period of time, veloper, and become the owner of the apartment.



LEASE /RENTAL MODEL.

The prospective Lessee/ Tenant can reside in the apartment on lease/ rent from the Promoter/ Developer for the agreed period, on mutually agreed terms.



Average size of dwelling units

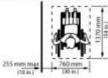
Acea	Medical more:	Community space	Convenience store	Total open space
Flair	Minimum 15-sq JM/ 2500s or a part there of	2 sq.m/person or 500 sq.m whichwar in leaser	2% of built up area (BOA) or 30 sq. m whicheser is leaser	66% of site area
Hely	Minimum 15-1q in /25 DUS or part there of	J sq. m /person or 300 sq. m whichever to lesser	2% of BUA or 20 sq. m. whichever is besser	SS% of site area

opedindations	s for community spaces a	ing open spaces:
Area	Number of rooms	Dwellings unit size(sq.rrts
Phies	1BeK	40 - 60
27.17	18-8	50 - 60

40-60

dicative	norms for	or Retirement Homes as Group Housings					
(MO	(leg-rets.)	Ground coverage(%)	TAE	Dwelling density(Dun/Arce)	Protest Instading stillte(ents.)		

SLMO	(leg-rets-)	Ground coverage(%)	TAE	Dwelling density(Ds.n/Acce)	Polyte Including stillis(ents.)
Flores 1.	2000	16	2.00 In case of high stemand half-mus be considered by the viola- government based on relevant studies;	1500	10
Hillmon 2	1500	AL.	1.2 No higher FAR, state government may constact relevant studies!	100	13



Clear floor space for wheelchair.



Minimum width of interior accessible route.



Forward reach.



360 Turning space.



Turn Around an obstacle less than 1200 wide.



Turn around an obstacle greater than 1200 wide.

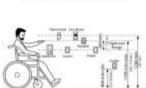


180 Turning space.



Window sill height.

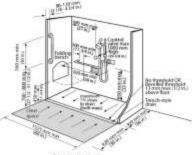
Reach limits for storage.



Tope A Acces - Type B

Side by side parking space.

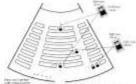
Reach range of accessible controls.



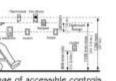
Shower stall.

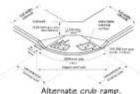


Sight lines at wheelchair locations.



Distribution of wheelchair locations.





Storage elements.



NORMS FOR SENIOR CITIZEN HOUSE

*Senior citizen houses can be developed with appropriate green spaces to promate social relation. Building more than one floor must be provided with lifts.



· Green building principle

There should be maximum use of non-polluting and renewable energy sources



Corridor

Steps should not be introduced in cor-



· Sliding windows and doors should be used and easy to grip knobs and handles are provided Door opening should not be less than 900 mm in width.



*Lifts and ramps

All lifts must have audio and video signages and signaling systems

Mandatory ramps to be incorporated the building to provide for wheelchair acess



· Lighting and ventilation Power backup should be mandatory in bathroom and kitchen



Furniture should be light weight, sturdy and without sharp edge.

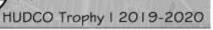


Wash basin should be have grab rails and tiles should be bole-itns

Bathroom door should have opening from outside



· Fitness facility Jogging and walking track with non-slippery and non-skid surface





3SITE JUSTIFICATION





PROS.

- I .View of river.
- 2.Existing biodiversity.
- 3. Suitable for housing.

CONS.

KIWALE, RAVET.

- 1. Flooding may occur during heavy rains.
- 2. Highly polluted area.
- 3. Thorny vegetation.

SPINE ROAD , MOSHI



3. Suitable for housing.



CONS.

- I Easy accessible. I Industrial surrounding. 2.Prime location.
 - Highly polluted area.
 Lack of vegetation.

NADHE NAGAR, KALEWADI





PROS-

- 1.Easy accessible.
- 2. Market surrounding

CONS-

Llack of vegetation. 2. Noise pollution.

THE BITC MECESSITATED A DEREDICT LABOR.

DIFFROIL HYDELE TO STRANGERS AND

3.Kiln nearby.

WHY THIS SITE ?

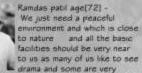


- 1.5ite is a located in Kiwale which is far away from densely populated areas and chaos of city life.
- 2.5ite has scenic riverside view and nich ecological value.
- 3. Good vehicular network and ease of accessability to amenities and facilities.
- 4. Great environment for old aged people and helpful context for psychological health.
- 5. Easily accessible.
- 6. Undeveloped piece of land in a flourishing area.

DEVLOPMENT PLAN

Residential Commercial Recreational sone

INTERVIEW



active users of technology so we even need faster connectivity.

We need time to time cleaning services and proper laundry service as we also need proper security.

We also need proper power backup we need a proper playing ground as we also love to play sports and also spaces for indoor games for the people who are on the wheelchairs or who are not comfortable to move to places.





BRIEF INTERPRETATION

GHOVED BY THE ACQUAINTED. STEADLY BLANKING OUT OF PREVALENCE.

lew Soci Rout

THE CHOICE OF LOCATION PRE-REQUISITED THE PROSPECT OF EMPANCED COMMUNITY RELATIONS AND WIBRAMCY.







SPACE





Тие выскты моритокновы DROWNED THE CREATION OF A DPAGE THA ALTORNATES IN FLACTION, OPTIMALLY UTWISED REWALL THE CLOCK.



TOPOGRAPHY



arent ruterul;

The site is almost a flat surface with not much contours on it. Fund consists of mainly black cotton soil which unstable and turns stable on adding line to

The existing biodiversity along with the existing topography cohesively can create a lively and homely atmosphere for the senior citizens with the contours interacting with the structure to create pleasing views and the closely knit river changing the micro climate by interacting with the breezes to tackle harsh warmth and cold. With close to no noise and a freedom from the hectic life a peaceful living will be perineal

PROS.

ACTIVITY MAPING



Old people gather togather to shear there views, expenences, chat toghether etc.



Sewing classes, carrom clubs, Yoga class

Mayuri patil age[62]-We need proper security with all the basic facilities like medical and shopping near by.

We need proper eco friendly yoga and meditation spaces for peace.

We need proper cleaning services as well as time to time laundry.

We also need proper sitting spaces for spending time and sharing our thoughts. We also need proper walking way for regular moment.

SITE SURROUNDING











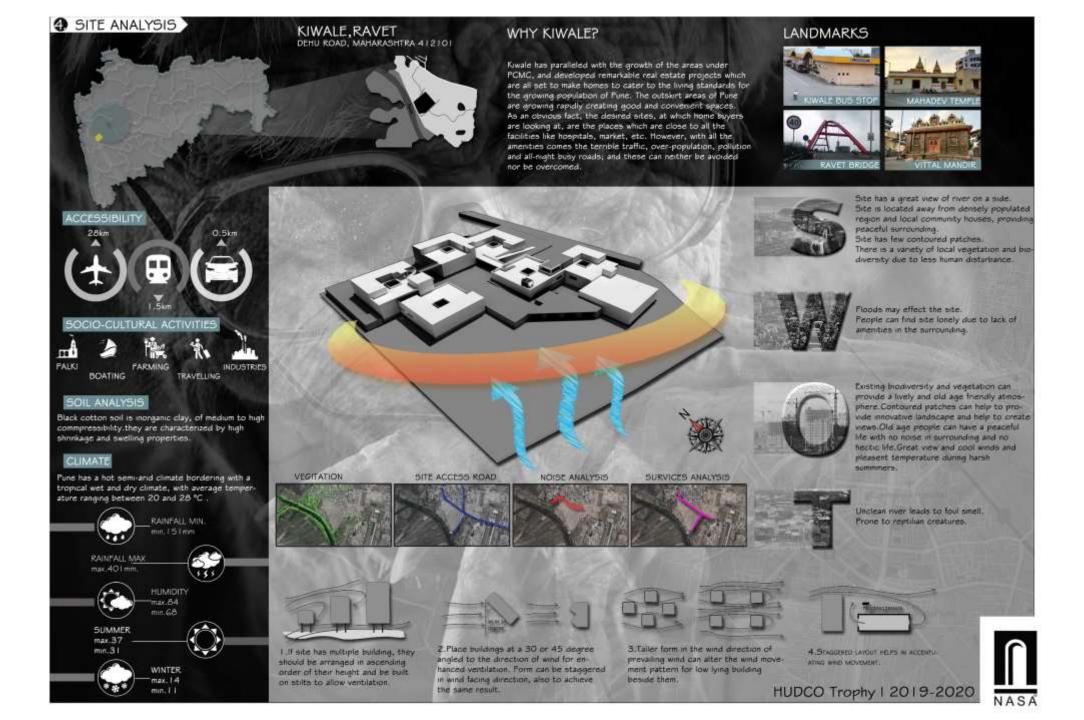




deputy office

aggricultural land river ghat

common toilet HUDCO Trophy I 2019-2020



CASE STUDY

YEH MERA GHAR

- · Mumbai Pune Expressway coming from Mumbai, look for Khopoli / Bypass and follow till the turning of Karsat / Neral / for road to Matheran. About 4 km before climbing the hill, look for the Lifestyle signboard on the Karjat-Matharan main road
- · Site is 4 kms from Neral railway station
- Site is 90 kms from Mumbai (Churchaate) by
- . SECURITY FACILITIES 24x7 security personnel. Safety lockers in every cottage. Emergency alarm bell in each cottage. Availability of basic health care monitoring on a daily basis.



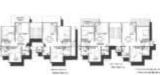




- Gagan Nulrie Kamshet, Maharashtra 410405
- . Gagan Nullife Phase I is a premium housing project launched by Gagan properties in Kamshet, Pune. These 1, 2 BHK Apartment in Pune West are available from O soft. Among the many luxurious

NULIFE

- amenities that the project hosts are Community Hall, Swimming Pool, Meditation Zone, Pergola, Landscaped Gardens, 24 X 7 Security
- . Includes 24x7 genset backup for lift's of all buildings, common lobbies areas of each wing, staircases and pathways moving all along the campus so you don't get stuck up anywhere to reach your home.
- Thay provide the latest in proven, best-practice therapies to involve residents as much as possible
- IN ORDER TO MAINTAIN THEIR PHYSICAL, EMOTIONAL AND COGNITIVE HEALTH.



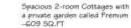


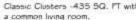


Classic Clusters -435 SQ. FT with



Spacious 3-room Cottages with a private garden called Delice -1023 SQ.FT.















2 BHK





2 bhk 824.81 - 920.73 sq. ft

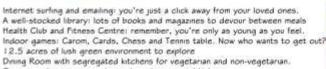


typical floor plan



All amenity spaces are located in the community building, nu-campus. This allows all residents convenient access to all amenities in one building, expanding useable activity space to outdoors and increasing contact with nature. Trellises, canopies and covered porches in outdoor courtyards allow residents to enjoy being outdoors without feeling exposed or unprotected from wind, sun

parking space per residential unit is provided. Nulife routinely provides a shuttle van or town car to bring residents to shopping areas, medical appointments or cultural events.



Our menu changes every day and so does our table linen. Special Baths: Curative and Preventive Hydrotherapies.

Remember, nothing heals like water.

PROS

- . Its is well connected to nature.
- . Situated on hilly area the residence provides some of the serene views.

CONS

- · Being in a hilly area it leefs isolated.
- *At times the cold climate seems to be unfavourable to the old people.

It is well connected to nature as it is built in a hilly region. The natural environment provides healthy lifestyle. It has various indoor and outdoor activities for the earlierly people to engage in. The project being built in hilly area did not lack any services as the were provided appropriately on the site.

PROS

- . Every tenament is provided with sufficient parking.
- · All residents get convinent access to all amineties as, all amonity spaces are located in the community buildmg.

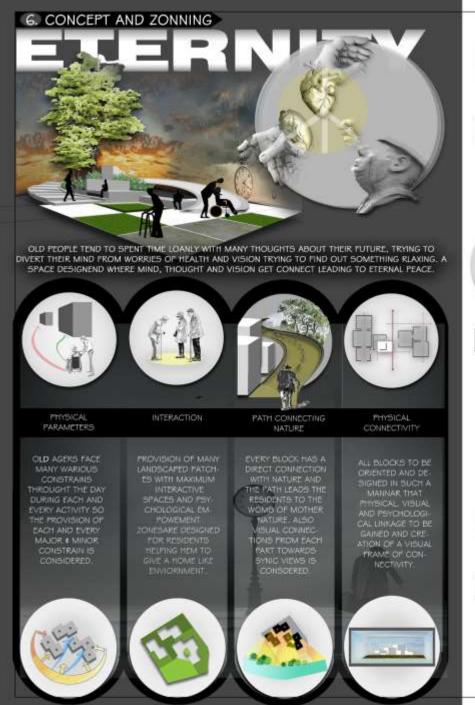
CONS

- · Congested planning.
- . Low light and ventilation in the lobbies of apartments.

Life here is bustling, relaxing # refreshing. It's a recreation and facility building, Nucampus to call Here. seriors from all walks of life live, share and connect together as if reventing their cherished college days. Here you can enjoy the camaradene of good neighbours, make friends for life, have fun at various indoor and outdoor games, welcome quests at grand lobby, enjoy coffee breaks # live happily together



HUDCO Trophy | 2019-2020





STAFF RESIDENTIAL ZONE

Block is placed in such a way tha all asistance staff get an easy accesstance to the asistance living residents

PARKING ZONE -

Connected with all

the 3 major blocks

with no connectivity

with landscape zones

and aminities zone

reducing carbon

footprint on site and

also reducing the sound polluion and air poliution on site.



TRANSITION ZONE

This zone connects all 3 builtup blocks with each othrer and also with all ammittes, facilitie and landscape zones wit many interactive features incorporated in it.



IIGH RISE ACTIVE LIVING RESIDENTIAL ZONE

The placement of block is done in such a way that it is located on highest part of contour and behind low rise black without obstructing their views.



ACCESS ROAD

A road of 9 m is connected to the site. Road is conneced with the Kiwale highway. and has a dead end as site



FACILITIES ZONE

Facilities zone is directy connected with assistance living zone and parking lot near by the road. This block consists of medical treatment room, grosery shops, administration room, etc.



LANDSCAPE ZONE

Landscape zone is created at lowermost part of site isolating it from city life and noise also creating synic view of river and also ample of water landscaping.



AMINITIES ZONE

Aminities are placed as core of the site giving symic view of river and also ease of access from all residential blocks.



LOW RISE FOR ASSISTED IVING RESIDENTIAL ZON

This back is connected with failities block and staff block for assistance. Even being low rise maximum dwellings get a view of river.



RIVER



HUDCO Trophy I 2019-2020



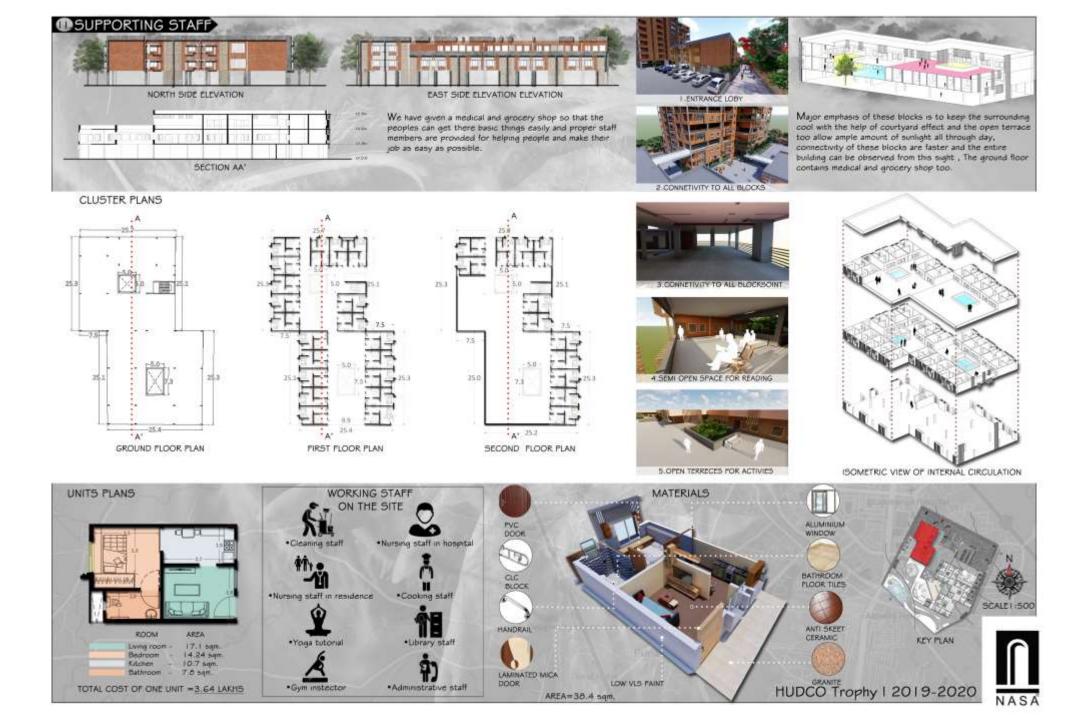
8. SITE LANDSCAPE

The site is provided with nature finendly landscape so that elderly can connect with the nature and can spend some quality time. The trees are provided such that which have cultural touch and medicinal sense, so that elderly can spend their life in the essence of the nature and even the spaces provided complement with native vegetation to suit the their daily lives.

VEGETATION:

SK.NO	FLAN	NAME OF THE TREE	Doc	TYPE/FOUAGE
1		Héricus	Religious offerings	Rowering strub
ĝ	*	Mogra	Retigious offervigs/ Garlands	Flowering strule
•		Ten	Medicinal / sacred, insect repellent.	Medicina thrub
*	*	Bougarvelia	Aesthetic purpose	flowering ethnib
5	(1)	Penantie	Aesthetic purpose	Rowering strub
4	15	Mangold	Coremonal / decorative	Flowering strub
7		Gerron	Buffer , medicinal use, macch repellent.	Strute 3-6 m
*	*	Neers	Creates fresh ar try releasing more oxygen, medicinal, insect repellent.	Tree 5 to 20m
9		Gulmohar	Buller, anothetic.	Tree 3.5 to 5m
10		Planeral	Pitasart smot / Picasart atmosphere.	Treat 7-8 m
1111	馨	Palm	Duffer, required less water.	Tree Sin
12	華	Eshtule pulm	Buffer, requires less water.	Tree 4-Gn
13	(6)	Marigo	For shading 4 buffer purpose; fisite Jor religious purposes	Tree 5-C m
14		54	Buffer , response less water	Tree 2.5 m
(5		Green	Frank	Tree 6 to the











LIBRARY

Library is very important part of an old age home and we have used low height sitting benches and chairs and we have used bookshelf which joined lamps with comfortable sitting arena and having separate interaction space with an open theatre and some indoor games too like chess and carrom.

OPEN THEATRE

Open theatre is a form of cinema structure consisting of a outdoor movie screen. Within this enclosed area residents can view movies. Rear side is provided with newspaper stock so residents can read newspaper also. At centre Traditional indian sittings are provided which is comfortable.



HOSPITAL

As hospital is one of the major part of old age home just because we have to be very peculiar about the people health and we have to take full responsibility of every single person living in.

And we have hospital with proper transportation facilities and the hospital have basic facilities for curing different type of diseases, with hygienic environment and proper sections for male and female.



KEYPLAN SCALE 1:500



COSTING

I INDEPENDANT AND ACTIVE LIVING

Item	Quantity	Unit	Rate	Unit	Amount
Excavation Filling Work/ Earthwork	330.76	cum	3064.00	Cum	360440.64
Concrete Work For Foundation	34	OUR	4757	cum	256878
Columnii	300.60	:sim	6690,00	Cum	697158.00
Beams and Liotels	203.10	:00HI	6300.00	Cum	1279530.00
Slab	9457.00	cum	7600.00	Cum	71873200.00
Masonary Work (230mm Thick Wall)	1023.88	00111	5265.00	Cum	5390725.20
Masonary Work (LSDmm Thick Wall)	2292.00	Sqm	672.00	San	1545224.00
Plastering (12mm Thick)	19876.00	Sqm	365.00	Som	7254740.00
Painting And Finishes	19876.00	Sqm	- 22.00	5000	437272.00
Flooring	4664 D3	5qm	866.00	5gm	4011040.00
Doors	395.00	Sqm	5200.00	5gm	2054000.00
Ratings	176.00	Sqm	1258:00	Som	221/409.00
Aluminium Window with steel work	378.00	-Sqm	3762.00	Som	1422036.00
Waterproofing Work	1250.00	Sqm	706.00	Sigm	882500.00
		77777		Total Price	97681154.84

2 ASSISTED LIVING

Nem	Quantity	Unit	Rate	Ueft	Amount
Escavation Filling Work/ Earthwork	398	cum	1004	.Cum:	623672
Concrete Work For Foundation	74.9	CUST	4757	QIM.	256878
Columns	40.17	cum:	6930	Dam	278031.6
Bearns and Lintels	67.5	COM	6300	Cure:	425250
Siab	5905	CUM	7600	Cum	41838000
Mesonary Work (230mm Thick Well)	239.5	cum	5265	Cum	1260967.5
Masonary Work (150mm Thick Watt)	1246	Som	672	Sqm	837312
Plastering (12mm Thick)	7458	Sqm	365	Sqm	2722370
Painting And Finishes	7458	Sqm	22	Sqm	154076
Flooring	4282	Sgri	950	Signs	36812520
Doors	182	Sqm	5300	Sqm	946400
Railings	105	Som	1258	Sqm	132090
Aluminium Window with steel work	132	Sign	3762	Sqn	496584
Waterproofing Work	911	Sgm	706	Sgm	643166
				.Total Price	54106917

(3) SUPPORTING STAF LIVING

Hom	Quantity	Unit	Rate	Unit:	Amount
Excavation Filling Work/ Earthwork	341-00	cum	1064.00	Dans	362624.00
Concrete Work For Foundation	63.84	tum	4757	CUTT	256878
Columns.	50.00	cum	6930.00	Dym.	345500.00
Beams and Limes	51.20	EUM	6300.00	Dim	322560.00
Slab	3672.00	cum	7600.00	Cure	27907200.00
Masonary Work (230mm Thick Wall)	60.30	TUTT	5265.D0	Dum	320112.00
Masonary Work (150mm Thick Wall)	1736.00	3qm	672,00	Sqn	1166592.00
Plastering (12mm Thick)	5472.00	5qm	365.00	Sqm	1997280.00
Painting And Finishes	5472.00	5qm	22.00	Sqm	120384.00
Flooring	3036.00	5gm	860.00	Sgm	890960.00
Doors	395.00	Sgn	5200.00	5qm	2054000.00
Railings	50.00	5gm	1258.00	Sqni	62900:00
Aluminium Window with steel work	141.00	fign	3762.00	Saper	530442.00
Waterproofing Work	1424,00	5gm	706.00	Sgm	1005344.00
				Total Price	37343976.00

WORK ESTIMATION FOR ACTIVE LIVING 15 - 9768 | 154/- R5

ADMIN AND HOSPITAL BLOCK

item	Quantity	Unit	Rate	Unit	Amount
Excavation Filling Work/ Earthwork	71.10	tum	1064.00	Ours	75600.40
Concrete Work For Foundation	13.37	cum	4757	ram	256878
Columns	3.40	cum	6930.00	Dure	23562.00
Bearm and Limits	12.37	cam	6300.00	Dum	77931.00
Slab	88.00	cum	7600.00	- Dutte	-609000.00
Masonary Work (230min Thick Wall)	65.80	EHM.	5265.00	Dum	346437.00
Masonary Work (150mm Thick Wall)	118.50	Som	672.00	5qm	79632.00
Plantering (12mm Thick)	480.00	Sgm	165.00	Sam	175700.00
Painting And Finishes	480.00	Sqm	22.00	Sign	10560.00
Rooring	232.70	Sgm	860.00	Sgm	200122.00
Doors	28.00	Sgm	5900.00	Sigm	185200.00
Raffings	0.00	Sam	1258.00	Sgin	0.00
Aluminium Window with steel work	11.05	Sqn	3762.00	Sapro	41570.50
Waterproofing Work	300.00	5qm	706.00	5qm	211800.00
The state of the s				Total Price	2222542.50

WORK ESTIMATION FOR ADMIN / HOSPITAL IS - 2272542.50/- RS

C LANDSCAPE

Rem	Quantity	Unit	Rate	Unit	Amount
Payer blocks	1950	sqm	600	sam	1170000
Wooden dek	110	sgm	3500	sgm	385000
Wooden Pergolas	650	egm	1320	sgm	858000
Red sand stone	1250	sgm	485	som	606250
Recycul paywing block	1100	agm	270	sam	297000
Masonary work	1300	igm	627	sgm	815100
RCC work	318	sqm	5500	sqm	1749000
Compaund well	1104	sqm	700	sgm	772800
				Total Price	6653150

WORK ESTIMATION FOR HARD SCAPE IS - 6653 I 50/- RS

WORK ESTIMATION FOR ASSISTED LIVING IS - 54 I OG9 I 7/- R5 WORK ESTIMATION FOR SUPPOTING STAFF LIVING IS - 37343976/- RS

5 UBRARY

iten	Quantity	Unit	Rate	Unit	Amount
Excavation Filling World/ Earthwork	164.32	oum	1064	Cum	174836.48
Concrete Work For Foundation	40.1	cum	6757	cum	256878
Columns	3.4	pum	6930	Cum	23562
Beams and Lintels	4	pum	6300	Cum	25200
Slab	34	pam	7900	Curri	638400
Masonary Work (230mm Thick Wall)	60	cum	7000	Cum	420000
Masonary Work [150mm Thick Wall)	0	Sam	672	Sqiri	0
Plastering (12mm Thick)	0.	- Sam	365	Sqm	0
Painting And Finishes	0	Sam	22	Squ	0
Flooring	256	3am	950	Sqm	243200
Doors	6	Sam	5900	Sqrii	35400
Pine wood log	0.64	5um	3550	Signs	30672
Aluminium Window with steel work	5	Som	5762	Sqm	18810
Waterproofing Work	42	5am	706	Sqm	29652
				Total Price	1896610.48

WORK ESTIMATION FOR LIBRARY IS - 1896610.48/- RS

(6) LANDSCAPE

Trees	Quantity	Unit	flate	Unit	Amount
Hibiacus	30	no:	10	per pice	300
Mogra	35	110	- 8	per pice	120
Tuhi	20	no	.25	per pice	500
Bouganyelle	32	no.	.200	per pice	240
Periwsikle.	20	no:	10	per pice	500
Marigold	20	mo:	3	per pice	60
Lemon	50	. 86	25	per pica	1250
Neum	32	110	50	per pice	600
Gulmohar	33	80	30	per pical	300
Phimeria :	20	80	2630	per pice-	4000
Palm	25	1105	900	per pice:	22500
Fluhtule:	30	Y160 -	000	prom prices	18000
Mango	32	80	1200	per pice	14400
Sel	- 4	1100	200	per pice	800
Guava	42	no	100	pair picar	4200
				Total Price	67560

TOTAL ESTIMAT COST OF SITE 2000225 | 0.84/- RS

Independent and Active Living
 Assisted Living

3. Supporting Staff Living 4. Admin and Hospital

5. Ubrary 6. Landscape Amount:

97,681,154.84/-54,106,917.00/-

37,343,976,00/ 2,272,542,50/ 1,896,610,50/

8,721,310.00/-

WORK ESTIMATITON FOR VEGITATION 15 - 67560/- R5



SERVICES

WATER MANAGEMENT I



ROOT ZONE WASTE WATER TREATEMENT

RZWT consists planted filter beds lable way to reduce or even elimit blocks consisting of flyash, containing graves, sand and soil . nate a building's use ofmunicipa. This system utilises nature's way of potable water, without requiring biologically processing domestic reductions in water use by effluents. Treated water can be occupants. used for imigation and flushing.

RAIN WATER HARVESTING

Capturing rainwater can be a value Autoclaved Aerated Concrete

USING THE GREEN BUILDING

ing costs expenditure.



SUSTAINABLE MATERIAL

cement and gypsum used for walls by, A correct oriented building and pre-cast lintels. can save a lot of money in no

LOW VOC PAINT

ant to its overall energy efficien- (VOC) contain chemicals that has detrimental effects on human health. These problem longer required heating and cool- can be eliminated by using low VOC paints

SOLID WASTE MANAGEMENT



DRY WASTE COMPOSTER



EFFECTIVE WASTE SEGREGATION

A buildings crientation is import. Volatile Organic Composinds The composter holds dry leaves. The waste generated by every and wet waste from the site and house will be collected and then converts this waste into manure separated into dry and wet waste. naturally with span of 4-5 weeks. Wet waste will be converted into manure which can also be put up for sale by the society and the rest will be recycled.

SUSTAINABLE LANDSCAPE ELEMENTS



XERISCAPING

XERISCAPING HELPS IN CREATING A WATER CONSERVING LANDSCAPE BY REDUCING ON-SITE IRRIGATION REQUIREMENT WHICH IS MAIN-TAINED BY THE USE OF NATIVE LANDSCAPE



SALVAGED BRICKS

Salvaged bricks easily available from used building materials. Outdoor lighting in site premises is and local constructions and used in making sitouts and path- entirely based on off-grid solar system.



OUTDOOR LIGHTING



PERMEABLE PAVER BLOCKS

Acts as a self-drainage. The use will also reduce the installation costs of drainage systems and use of water in land-

SERVICES LAYOUTS



SEWAGE LAYOUT



STORM WATER DRAINAGE LAYOUT



ELECTRICITY LAYOUT





